



Genera not mentioned by Jordan

Euchiloglanis

Erythroculter Berg, 1909.

types defined on p. 165



Outward

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LELAND STANFORD JUNIOR UNIVERSITY PUBLICATIONS
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34

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.

Part. I.

BY

DAVID STARR JORDAN

ASSISTED BY

BARTON WARREN EVERMANN

1917



STANFORD UNIVERSITY, CALIFORNIA
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(Continued on third page of cover.)

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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 *CARCHARHINUS COMMERSIONIANUS*. 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 OPHIDION 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 GOBIUS 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 avoit 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. I, 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 Museum*, 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 *UMBERINA* 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 Günther, *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 LACTOPHRYS 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 OVIDES.

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*: Throndhjemske Selskab, *Schriften* 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 describendis"). 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 *SCHRAITZER 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, GOBIUS 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, *Zoophylaceum*; ZOOPHYLACII Gronoviana . . . *Animalia quæ in museo suo adservat, 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 RHYNCHÆUS 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 Linnæus, 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. (ENCHELYOPUS 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. ENCHELYOPUS Bloch & Schneider (type GADUS CIMBRIUS L., a species unknown to Gronow), should stand as RHINONEMUS Gill. ENCHELYOPUS Gronow must unfortunately supersede ZOARCES Cuvier.

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

Revived by Scopoli, 1777. Replaces MURÆNOIDES 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 CAPITIS 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 CIRRIS 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 LAMBUDURUS* 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 KRÄMERI* 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 *CHARACINI* 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 CAPITIBUS 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 *OPHIDIUM SIMACK* Walbaum, 1792 = *RHYNCHOBDELLA HALEPPENSIS* Bloch & Schneider, 1801 (*MASTACEMBELUS MAXILLIS SUBACUTIS* Gronow).

Revived by Cuvier & Valenciennes. The generic name *RHYNCHOBDELLA* Bloch & Schneider included both species assigned by Gronow to *MASTACEMBELUS*. In dividing the group, Cuvier & Valenciennes assigned the former name to *OPHIDIUM 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. (*GASTEROPELECUS* 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, *CÖNGER* Houttuyn.

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

Equivalent to *TRICHIURUS* L. Monotypic.

Pteraclis Gronow, 136; type *CORYPLÆNA 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 Linnaeus*, 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.

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, "PLAGIOSTOMIA" 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).

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

"GLAUCUS, bien des ichthyologues donnent ce nom à trois sortes de poissons, 1 au Derby, 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, lxxxii; 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 TRACHYPTERA 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 Kœlreuter, 337; type MOLA ACULEATA Kœlreuter.
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 FÆTENS* L. "SAURUS EX CINEREO NIGRICANS, the Sea Sparrow Hawk" Catesby.

Identical with *SYNODUS* 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 *XYRICHTHYS* Cuvier.

Petimbuabo 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 MARCGRAVEI 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 *NEOMENIS*, 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 Sucking-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 *PLATOPHRYS*; 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 CATESBÆI* 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 pertinet:*
Nov. Comm. Acad. Petropol., 1774, XIX.

ANTON JOHANN VON GÜLDENSTADT.

Not seen by us.

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

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 σκάρος"; 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 CALLYDON of Gronow if the names of Gronow are to be adopted. This is unfortunate, as CALLYDON has been used by most authors as the name of another genus in the same family.

Abu-defduf Forskål, 59; type CHÆTODON 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 CHÆTODON SOHAL 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/ CH. 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 TAHHMEL 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 *GENYOROGÉ* 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. *PRIACANTHUS* 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.

Tahmel Forskål, 44; type *SCIÆNA TAHMEL* 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 Stadius 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. Mus. 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(iehe) 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 Rondelet. 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 Stadius 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 MURENA CONGER L. "CONGER PINNA MEMBRANACEA" Klein.

A synonym of CONGER Houttuyn.

Enchelyopus Klein, I, 32, 1775; type TRICHIURUS LEPTURUS L. "ENCHELYOPUS CAPITE 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 TRUTTÆ 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 Müller'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 OXYRHYNCHUS* 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 EPHIPIUM (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 DICENTRARCHUS Gill = LABRAX Cuvier, 1817. Not LABRAX of Pallas, 1810, which is HEXAGRAMMOS.

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 DEMTA 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 RHINA SQUATINA L. "RHINA SIVE SQUATINA" Klein.

RHINA, if allowed, replaces SQUATINA Duméril.

Rhinobatus Klein, II, 593, 1776; type *RAJA RHINO-BATUS* L. "RHINO-BATUS SEU SQUATINO RAJA" Klein.

RHINO-BATUS would replace *RHINO-BATUS* 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.

Tetragonopterus 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 *Amœnitates Academicæ*.

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 (= GOBIUS), PLECOSTOMUS (= LORICARIA), CORACINUS (= SCIÆNA), CAL-LORHYNCHUS (= CHIMÆRA), 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 HIPPOCEPHALUS Swainson, 1839, not PERCIS Klein.

Pteridium Scopoli, 454; type CORYPHÆNA 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 *Zoophylaceum* of Gronow, 1763, be not accepted.

ERYTHRINUS, 449	MYSTUS, 451
SYNODUS, 449	CALlichthys, 451
CALLYODON, 449	ASPRED0, 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.

Oncotio Klein, IV, 46, 1777; type CYCLOPTERUS LUMPUS L. "ONCOTION 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 Boddært 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 LEVISSIMUS 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—(AROTHRON 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 FLAVICANTIBUS" 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 Eenige 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 OPHIDIUM 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 Linnæan 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 Linnæus), 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* Lacepède. 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 *SYMPHURUS* Rafinesque, 1820, as well as over the numerous later names applied to this group, the best known of which are *APHORISTIA* Kaup and *AMMOPEUROPS* 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 RADIIS 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 (*DIAPTERUS BRASILIANUS*), 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" = *GOBIMORUS DORMITOR* Lacepède.

The name *PELMATIA*, if accepted, replaces *GOBIMORUS*, 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* (τεῦθις, 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 LAMBDURUS* 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 LAMBDURUS 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; ORTHRIAS Jordan & Fowler.

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

MARK ELIESER BLOCH.

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

Replaces HARPE Lacepède. By first restriction, Cuvier and Gill, the type would be BODIANUS GUTTATUS Bloch, a species of ENNEACENTRUS Gill. Tautonomy 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 *CHÆTODON 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. *AYLOPON* 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 *ALPH-ESTES* 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 *PAEPINEPHELUS* 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* Schæfer, *ACERINA* Cuvier, and *CERNUA* Fleming.

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

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

Monotypic. Corrected by later writers to *LONGHURUS*.

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, III; 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* Röse 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 PARACENTROPRISTIS Bleeker.

HEPATUS Gronow is wholly different.

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

A synonym of BALISTES L.

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

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

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

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

Citharus Röse, 116; type *κινάρους* 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 *χάλλον* 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 **SPHAGEBRANCHUS 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 **SYMBRANCHUS MARMORATUS**
Bloch.

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

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

Unquestioned.

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

A synonym of **MYXINE** L.

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

A needless substitute name for **NOTACANTHUS**.

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

OTTO FABRICIUS.

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

A synonym of **NOTACANTHUS** Bloch. Monomial 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 Kælreuter. 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 BICHIR 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, I, tab. I; type OVOIDES FASCIATUS Lacepède = TETRODON STELLATUS.
After "LES OVOIDES Lacepède," 1798. Replaces AROTHRON 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 ARGENTEUS 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 Bonnaterre (GYMNOTUS NOTOPTERUS Pallas).

Ophisurus Lacepède, II, 195, 1800; type MURÆNA SERPENS L. as restricted 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.

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

Must replace STERNARCHUS Bloch & Schneider.

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

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

Replaces RHYNCHOBELLA 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 Bonnaterre.

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 *OPSANUS* 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 *GOBIOMORUS DORMITOR* Lacepède, as restricted by Jordan.

Replaces *PHILYPNUS* Bloch & Schneider, 1801.

Gobiomoroides Lacepède, II, 592, 1800; type *GOBIOMOROIDES 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 GOTTLOB SCHNEIDER.

Batrachus Bloch & Schneider, 42; type *BATRACHUS 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 *OPSANUS* by Rafinesque. But no ally of the scaleless *GADUS TAU* is placed in *BATRACHOIDES* by Lacepède or in *BATRACHUS* 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 *TRICHIURUS*.

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 PAPILO* 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 EPHIPIUM Bloch.

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

Equivalent to TEUTHIS L. as restricted = SIGANUS Forskål.

Alphestes Bloch & Schneider, 236; type ALPHESTES 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 CALLYODON 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 RHAMPHOBATIS Gill.

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

Equivalent to RHINOBATOS Linck.

Anableps Bloch & Schneider, 389; type ANABLEPS TETROPTHALMUS 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 PÆCILIA 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 RHYNCHOBDELLE 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.

Orthagoriscus 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 CÆRULEOAUREUS* Lacepède.

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

Genus probably valid; equivalent to *GLAUCUS* Klein.

Coris Lacepède, III, 96, 1802; type *CORIS AYGULA* 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 pre-occupied.

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

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

Written *OSPHROMENUS* by Günther, *Osphronemus*

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 *PLECTORHINCHUS CHÆTODONOIDES* Lacepède.

Monotypic. Replaces *DIAGRAMMA* Cuvier.

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

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

Not *BOSTRICHUS* Geoffroy 1762, a genus of Insects. Replaced by *BOSTRICHTHYS* Duméril, 1806, by *PSILUS* Fischer, 1813, and by *ICTIHOPOGON* 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 (*MULUS 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 FLEURIEU* 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 *SCIÆNA 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 CÆRULEO-AUREUS* Lacepède (*LABRUS RUFUS* L.).

A synonym of *BODIANUS* 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 SKIB* Lacepède (*PERCA SALTATRIX* L.).

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

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

Monotypic.

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

Leiognathus Lacepède, IV, 448; type *LEIOGNATHUS 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 *CHÆTODON SOHAR* Forskål.

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

Acanthopodus Lacepède, IV, 558, 1803; type *ACANTHOPODUS ARGENTUS* 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 LAMPRI. 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 CALLICHOUS Hamilton.
- Macropteronotus** Lacepède, V, 84, 1803; type MACROPTERONOTUS
CHARMUTH 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 Lace-
pède.
As restricted by Cuvier, Gill and authors.
- Doras** Lacepède, V, 116, 1803; type SILURUS CARINATUS L.
- Pogonathus** Lacepède, V, 120, 1803; type POGONATHUS COURBINA Lace-
pède.
Identical with POGONIAS Lacepède, 1802.

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

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 (*SPRATELLOIDES ARGYROTÆNIA* 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 *SPRATELLOIDES ARGYROTÆNIA* 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 *ANCHOVIELLA* 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 *SPRATELLOIDES*.

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 (*ELOPS SAURUS* L.).

Synonym of *ELOPS* 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 THRISSE* L.

As restricted by Rafinesque, 1815, through substitution for *CLUPANODON* the more euphonious name of *THRISSE*. The name *CLUPANODON* has been variously treated. It should properly replace *KONOSIRUS* Jordan & Snyder, although Lacepède's account of "*CLUPANODON THRISSE*" is taken mainly from the West Indian "Caillieu-Tassart," *OPHISTHONEMA OGLINUM* (Le Sueur), the *CLUPEA THRISSE* 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, *Lacepède, 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 Lacepède 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) = LOPHIUS COMMERSONIANUS Lacepède.

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 Lacepède.

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 Lacepède, LABRUS FURCATUS Lacepède.

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 Lacepède, 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).

Pterichthys Commerson, V, 401, 1803, footnote under **EXOCÆTUS**; type "PTERICHTHUS 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 **GOBIIOMORUS**; type **ASELLUS PALUSTRIS** Plumier (**PLATYCEPHALUS DORMITATOR** Bloch & Schneider).

Identical with **GOBIIOMORUS** 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 CYANOPTERA (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 OSPHRONEMUS 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. *pub. 1809.*

MICHEL ESPRIT GIORNA.

^{us}**Lophotés** Giorna, 19, 1805; type LOPHOTES CEPEDIANUS Giorna.

Cœlorhynchus Giorna, 18, 1805; type CÆLORHYNCHUS 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 Bestämna och naturligare Uppställa Svensk 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 Duméril, 102, 342; type (not named) *SQUATINA ANGELUS* Duméril (*SQUALUS SQUATINA* L.).

Equivalent to *RHINA* Klein.

Torpedo Duméril, 102, 343; type (not named) *RAJA TORPEDO* L.

Not *TORPEDO* Forskål. Same as *NARCACION* Klein. *NARCOBATIS* Blainville.

Ovoïdes (Lacepède) Duméril, 108, 342; type *L'OVOÏDE FASCÉ*.

Based on a front view of *TETRAODON STELLATUS* L.

Equivalent to *OVOÏDES* Cuvier and *OVUM* Bloch & Schneider.

Apterichthys Duméril, 112, 331; type *MURÆNA CÆCA* L.

Substitute for *CÆCILIA* Lacepède, preoccupied. A synonym of *SPHAGEBRANCHUS* Bloch.

Bostrichthys Duméril, 120, 332; type *BOSTRYCHUS SINENSIS* Lacepède.

Name a substitute for *BOSTRYCHUS*, preoccupied.

Spheroides (Lacepède) Duméril, 342; type "*LE SPHÉROÏDE TUBERCULÉ*" Lacepède, 1798.

A front view of *TETRAODON SPENGLERI* Bloch. A synonym of *TETRAODON*, as restricted by Bleeker.

Macrorhynchus (Lacepède) Duméril, 342; type "*MACRORHYNQUE ARGENTÉE*" Lacepède (*SYNGNATHUS ARGENTEUS* Osbeck).

A species near *DICROTUS PROMETHEOIDES* Bleeker. Probably replaces *DICROTUS* Günther.

LXV. DUMÉRIL, *Dictionnaire des Sciences Naturelles*, 1806.

ANDRÉ MARIE CONSTANT DUMÉRIL.

Torpedo Duméril, 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.

Eriicius 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 OXYRHYNCHUS* 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 (*SYNGNATHUS TYPHLE* L.).

Misspelled *TYPHLE*. Preoccupied by *TYPHLE* * Lacepède, 1800, a genus of mammals. Replaced by *TYPHLINUS* 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
 Rôse, 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 TRACHURUS L. (TRACHURUS
 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 CEN-
 TRACANTUS CIRRUS 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
 CENTRACANTHA.

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 LOPHAR* 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 (SPHAGBRANCHUS 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 MERLUCIUS 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 TINÇA Rafinesque.

Monotypic.

Symphurus Rafinesque, 13, 52; type SYMPHURUS NIGRESCENS Rafinesque.

Antedates APHORISTIA Kaup, but not PLAGUSIA Browne.

Solea Rafinesque, 14, 52; type SOLEA BUGLOSSA 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.

Cephalotherus 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 BAICALENSIS* 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 *DIP-TERODON* 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 (*ALEP-ISAURUS ÆSCULAPIUS* Bean).

Equivalent to *ALEPISAURUS* 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,
LOPHIUS 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 "pinnæ pectorales tenuissimæ aut nullæ, reliquis conjunctis." The type may be assumed as SYMPHURUS NIGRESCENS. A synonym of SYMPHIURUS 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 SPHAGEBRANCHUS 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 TILESIA 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 SYNGNATHUS 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 HISPIDUS* 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 *ATELEOSIA*, lacking either opercles or gill membranes.

The *HOLOBRANCHIA* are divided into *DERIPIA* (Jugulares), *GASTRIPIA* (Abdominales), *THORAXIPIA* (Thoracices), *APODIA* (Apodes).

The *ATELEOSIA* 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 *GAIIDROPSARUS* 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* Dumèril, 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.
- Cephimus**, 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.
- Pomacanthus**, 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. I, 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 *LOPHOTES* Giorna.

Megaderus, 93.

Substitute for *ÉCHIDNA* 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-CÆTES 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, BUTYRINUS Lacepède.

Fierasfer Cuvier, I, 119, 312, 359, 1815; type OPHIDION 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, III; type SPARUS INSIDIATOR Pallas.

Smaris Cuvier, I, III; type SPARUS SMARIS L.

Myletes Cuvier, I, 115; type MYLETES RHOMBOIDALIS Cuv.

Saurus Cuvier, I, 115; type SALMO SAURUS L.

Chromis Cuvier, 393; type SPARUS CHROMIS L.

Monotypic. Same as HELIASSES 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 *GENYOROGE* 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 MACROPHthalmus* 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 Systematique 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, *Plagiostomia*, 1913.

Trygonobatus Blainville, 112; type *RAIA PASTINACA* L.

Equivalent to *DASYATIS* Rafinesque.

Actöbatus 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 *RHINOBATIS*; 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.

Monopterrhinus Blainville, 121, "suales à une seule pinnule dorsale"; type *SQUALUS GRISEUS* Gmelin.

A synonym of *HEXANCHUS* Rafinesque. Monotypic.

Acanthorhinus Blainville, 121, "suales 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, "Suales 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, "Suales 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 (Artemi) 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. I, 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*.

Ammocetes (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 *CARCHARHINUS* 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* Kugelmann, 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. I.

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 *DASYTIS* Rafinesque.

Callorhynchus (Gronow) Cuvier, 140; type *CHIMÆRA CALLORHYNCHUS* L.

Monacanthus (Cuvier) Oken, 152, ("Les Monacantes" Cuvier); type *BALISTES CHINENSIS* Bloch.

Alutera (Cuvier) Oken, 153, ("Les Alutères" Cuvier); type *BALISTES MONOCEROS* L.

Triacanthus (Cuvier) Oken, 153, ("Les Triacantes" 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 *MYCTOPHUM* 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 *THRYSSEA* by Cuvier.

This genus or subgenus may receive a new name, *THRISSOCLUS* Jordan & Evermann, type *CLUPEA SETIROSTRIS* Broussonet. It is distinguished from *MENIDIA* Browne or *ANCHOVIELLA* 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* Müller 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 *GADROPSARUS* 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 Lacepède. 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) *CHEILOBRANCHUS DORSALIS* Richardson.

Said to be identical with *CHEILOBRANCHUS* 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 *OPHIDIUM 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.

Opisthognathus (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. DOBERLEINI* 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 *CORYPHÆNA NOVACULA* L.

By tautonomy. Afterwards restricted by Cuvier & Valenciennes to *CORYPHÆNA 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 *PHAROPTERYX* 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 CHRYSOPHRYS 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 Hübner, 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 EPINEPHELUS 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 Lacepède.

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 Lacepède.

- 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 Gùldenstadt, *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 *OTOLITHUS* by Cuvier & Valenciennes; type *JOHNIUS RUBER* Bloch & Schneider.
- Anclyodon** (Cuvier) Oken, 299, ("Les Ancylodons" Cuvier), Oken, 1182; type *LONCHURUS ANCYLONDON* 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 *OGCOEPHALUS* 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") *SCLÆNA ARMATA* Forskål.

Seriola Cuvier, 315; type *CARANX DUMERILI* Risso.

Nomeus Cuvier, 315; type *GوبيUS 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. *Chelmon*

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 *GASTROBRANCHUS 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 *HETEROBRANCHUS 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.

Anenchelem Blainville; type *ANENCHELEM GLARIŠIANUM* Blainville (fossil: *LEPIDOPIDÆ*).

Chirurgus Blainville; type (perhaps *CHÆTODON 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 LITHOLEPIS 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: CHEILOBUS, MINICULUS, OPLICTIS, LEPTOSOMA and GLANIS. These can have no place in the system.

CI. RAFINESQUE, *Description of Three New Genera of Fluvial 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 **HAPLODONOTUS**.

Etheostoma Rafinesque, 419; type **ETHEOSTOMA BLENNIOIDES** Raf.
As determined by Agassiz. Later fixed on **ETHEOSTOMA FLABELLARIIS** 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 **ALSOIDES**.)

Replaces **ELATTONISTIUS** Gill & Jordan.

Amblodon Rafinesque, 421; type **AMBLONDON BUBALUS** Raf.

The "Buffalo-fish," to which the large blunt pharyngeal teeth of **APLODINOTUS** were wrongly ascribed. A complex; the name **AMBLONDON** 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 ICHTHELOIDES 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. Nomenc.

Pomolobus Rafinesque, 38; type POMOLOBUS CHRYSOCHLORIS Raf.

Dorosoma Rafinesque, 39; type DOROSOMA HETERURA Raf. (MEGALOPS CEPEDIANA Le Sueur).

Clodalus Rafinesque, 43; type HIODON CLODALUS Le Sueur.

Same as HIODON.

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 *AMBLONDON* 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).

Ilictis 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 "pickrel."

Cylindrosteus Rafinesque, 72; type *LEPISOSTEUS PLATOSTOMUS* Raf.

Atractosteus Rafinesque, 75; type *LEPISOSTEUS FEROX* 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 FLABELLARIUS* 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 *CHANDA 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 *ACANTHONOTUS*.

† 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. Günther later restricts it to *C. GORA* Hamilton. Replaces *CACHIA* Günther.

Barilius Hamilton, 384; type by tautonomy *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 tautonomy. 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 ANCYLON* Bloch & Schneider.

Replaces *ANCYLON* Cuvier, 1817, preoccupied by *ANCYLON* Illiger, 1811, a genus of mammals. *MACRODON* is prior to *SAGENICHTHYS* Berg, 1895, also a substitute for *ANCYLON*. 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 Hoffmansseg, 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 RÉNÉ 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, 293; type **GERRES 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 XYSTĒMA Jordan & Evermann, the latter to EUCINOSTOMUS Baird. When GERRES was later defined by Cuvier in the *Règne Animal*, SCIĒNA 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 XYSTĒMA.

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 POMADASYS 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 KYRHOSUS Lacepède (K. INCISOR).

Amorphocephalus Bowdich, 238; type AMORPHOCEPHALUS GRANULATUS Bowdich.

A synonym of XYRICHTHYS Cuvier.

CXXI. RISSO, *Histoire Naturelle des Principales Productions de l'Europe Méridionale*, vol. III, Paris, 1826.

ANASTASE RISSO.

Lamia Risso, 123; type SQUALUS CORNUBICUS 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 NEROPHIS Rafinesque, 1810.

Onos Risso, 214; type GADUS MUSTELA Bloch.

A synonym of GAIDROPSARUS 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 LYMMA** (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, 49; type OPHIOGNATHUS AMPULLACEUS Harwood.

A synonym of SACCOFHARYNX 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.

Scoliostrumus Rüppell, 17; same type.

A synonym of CHANOS.

Haliophis Rüppell, 49; type MURÆNA GUTTATA Forskål.

Monotypic.

Pastinachus Rüppell, 82; type RAJA SEPHEN Forskål.

Same as HYPOLOPHUS 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 Gùldenstadt.

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, I, 425; type GADUS BROSME Müller.

Same as BROSME Oken, 1817.

Sandrus Stark, I, 452; type PERCA LUCIOPERCA L.

Same as SANDER Oken.

Stelliferus Stark, I, 459; type BODIANUS STELLIFER Bloch.

Same as STELLIFER Oken.

Cingla Stark, I, 465; type PERCA ZINGEL L.

Same as ZINGEL Oken.

Daurada Stark, I, 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 SAFGHA 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* Gùldenstadt, *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-Linnæan 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 ÆNEA** 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 DECACTYLUS* Cuv. & Val.

Pinguipes Cuvier, 153 (C. & V., III, 277); type *PINGUIPES BRASILIANUS* Cuv. & Val.

Monotypic. A synonym of *MUGILOIDES* Lacepède.

Upeneus Cuvier (about 160), (C. & V., III, 446); type *MULLUS BIFASCIATUS* Lacepède.

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.

Hemitripteris 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 (*Mem. du Museum*, 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 *CHÆTODON ARUANUS* L.
Monotypic.

Heliases 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 VITATATUS* Bloch.

Lethrinus Cuvier (about 182); type *SPARUS CHÆROHYNCHUS* 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 *CHÆTODON RHOMBEUS* Bloch & Schneider.

Synonym of *MONODACTYLUS* Lacepède.

Dipterodon Cuvier (about 195); type *DIPTERODON CAPENSIS* Cuvier.

Not *DIPTERODON* Lacepède, 1803. Monotypic. Replaced by *DICHISTIUS* Gill.

Pempheris Cuvier, 195; type *KURTUS ARGENTEUS* Bloch & Schneider (*PEMPHERIS TOUEA* Cuvier).

Auxis Cuvier, 199; type SCOMBER ROCHEI Risso (SCOMBER THAZARD Lacepède).

Sarda Cuvier, 199; type SCOMBER SARDA Bloch.

Later (1831) called PELAMYS by Cuvier & Valenciennes. Monotypic. Not SARDA Plumier.

Cybium 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.

Cirrhobarbus Cuvier ("LES CIRRHIBARBES") 238; type (not named) CIRRHIBARBIS CAPENSIS Cuv. & Val.

Monotypic.

Zoarcas 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^{4,7}; 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 **CHOREGON** 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.

Thryssa Cuvier; type **CLUPEA SETIROSTRIS** Broussonet (**THRISSA** Cuv. & Val., 1817).

Not **THRISSA** Rafinesque, 1815. To be replaced by **THRISSOCLES** 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 *GYMNARCHUS 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.

CXXXV. AGASSIZ (AND SPIX), *Selecta Genera et Species Piscium quos in Itinere per Brasiliam, 1817, 1820, Collejit 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.

Rhinelepisp Spix, 2; type *RHINELEPIS ASPERA* Spix.

Cetopsis Agassiz, 8; type *CETOPSIS CÆCUTIENS* Agassiz.

Hypophthalmus Spix, 9; type *HYPOPTHALMUS 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 NOVEMFASCIATUS* 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 Hübn-
ner, 1816, a genus of butterflies.

Hoplostethus Cuv. & Val., IV, 469; type HOPLOSTETHUS MEDITERRAN-
EUS Cuv. & Val.

CXXXVII. COCCO, *Su Alcuni Nuovi Pesce del Mar di Messina*:
Archivio della R. Academia Peloritano, 1829.

ANASTASIO COCCO.

Argyropelecus Cocco, 146; type ARGYROPELECUS HEMIGYMNUS Cocco.

CXXXVIII. COCCO, *Su Alcuni Nuovi Pesci del Mar di Messina*:
Giorn. Sci. Lett. Sicilia, XXVI, no. 77, 1829.

Nyctophus Cocco, 44; type NYCTOPHUS RAFINESQUEI Cocco.

Substitute for MYCTOPHUM.

CXXXIX. COCCO, *Sullo Schedophilus Medusophagus*: Giorn. Cabin
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 NARCIBATUS 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.

Nebriis 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 *LABRUS 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 (SCIENA 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 Lacepède).

Pempheris Cuvier & Valenciennes, VII, 296; type PEMPHERIS OUALENSIS Cuv. & Val.

Toxotes Cuvier & Valenciennes, VII, 310; type *SCLÆNA 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 *SPIROBRANCHUS 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 *APHRITIS URVILLI* Cuv. & Val.

Monotypic.

Bovichtus Cuvier & Valenciennes, VIII, 487; type *CALLIONYMUS DIACANTHUS* Carmichael.

CXLVII. JARDINE, *Acestra*, 1831.

SIR WILLIAM JARDINE.

Acestra Jardine; type *SYNGNATHUS ÆQUOREUS* 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 ALMORHÆ 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 MURÆNA 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 Scandinavica*, 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 ACANTHOËSSUS 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, 96, 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 OVATUS 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 later fascicles of the *Fauna Italica*.

- Lampanyctus** Bonaparte, 139, 1834; type LAMPANYCTUS BONAPARTEI Bonaparte.
- Chlorophthalmus** Bonaparte, 144, 1834; type CHLOROPHTHALMUS AGASSIZI Bonaparte.
- Scardinus** 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 Mitchell).
A subgenus under ACHIRUS.

CLVII. CUVIER & VALENCIENNES, *Histoire Naturelle des Poissons*, IX, 1833.

GEORGES CUVIER and ACHILLE VALENCIENNES.

- Hynniss** Cuvier & Valenciennes, IX, 95; type HYNNIS GOREENSIS 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 APHREDODERUS
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 = CENTROPHORUS
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 (CENTROLOPHUS
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: CENTRARCHUS Jordan & Evermann (not of Cuv. & Val.).
- Gaidropsarus** Rafinesque: MOTELLA Cuvier.
- Gerres** Cuvier: XYSTÆMA Jordan & Evermann.
- Gnathanodon** Bleeker: (CARANX SPECIOSUS).
- Hemiulis** Swainson (as restricted by Bonaparte, 1839): HALICHÆRES Rüppell, CHÆROJULIS Gill.
- Histrio** Fischer: PTERYPHRYNE 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, SAGENICHTHYS Berg.
- Macrognathus** Lacepède: RHYNCHOBDELLA 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: CALLICHOUS Hamilton.
- Ovoides** Cuvier: OVOIDES Lacepède.
- Pastinachus** Rüppell: HYPOLOPHUS 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: BOTHUS Rafinesque.
Sargus Klein: DIPLODUS Rafinesque, SARGUS Cuvier.
 (new name) CICHLA 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.

Hemiulus 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.; LAGOCHILUS.

Scaphirhynchops Gill: SCAPHIRHYNCHUS Heckel; SCAPHORHYNCHUS.

Scytaliscus Jordan & Gilbert: SCYTALINUS J. & G.; SCYTALINA.

Stenesthes † Jordan: new name for STENOTOMUS Gill; STENOTOMA.

Thrissocles Jordan: new name for THRYSSA Cuvier; THRISSA.

Xiphister Jordan & Gilbert: XIPHIDION Girard; XIPHIDIUM.

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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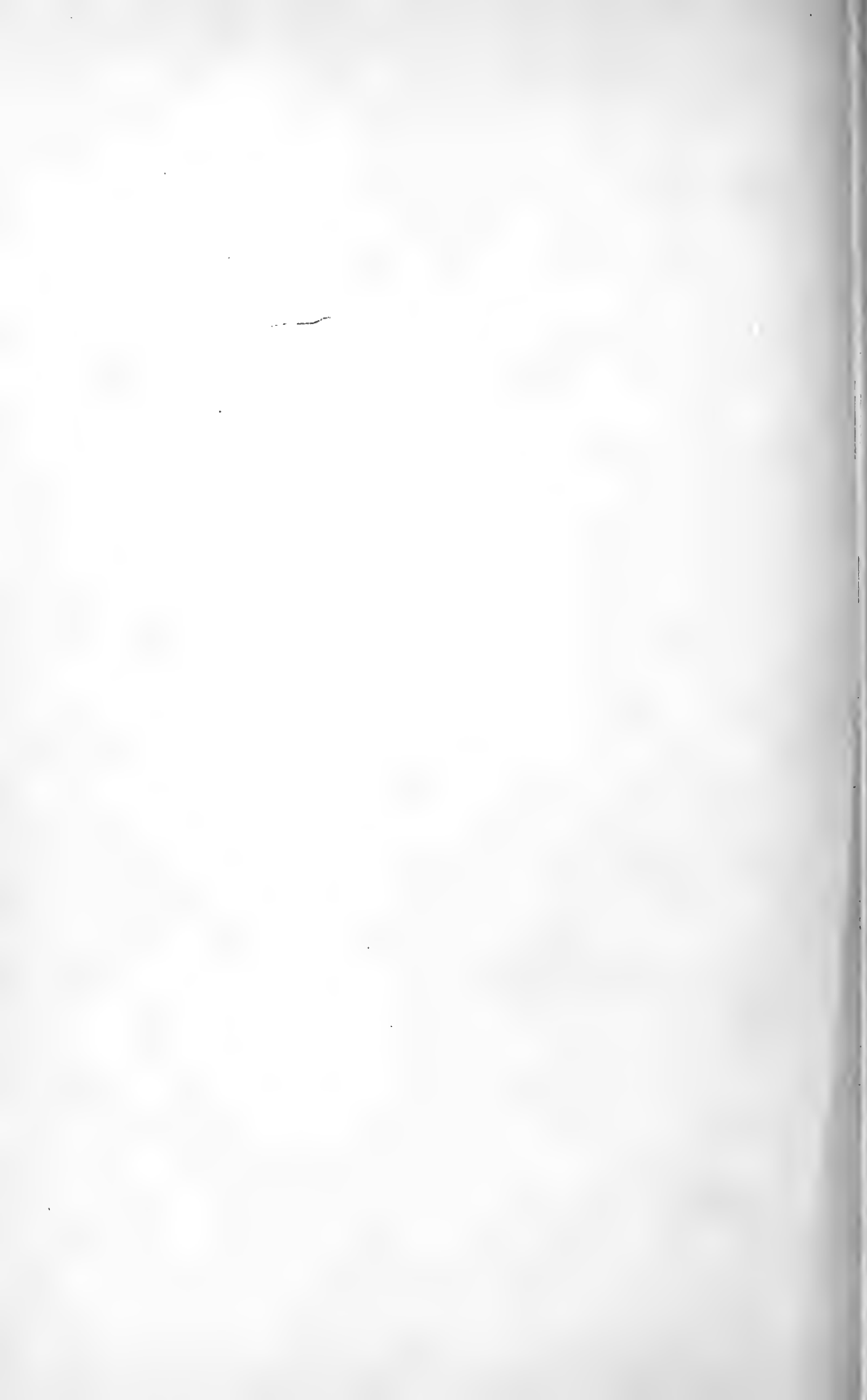
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WITH THE ACCEPTED TYPE OF EACH.

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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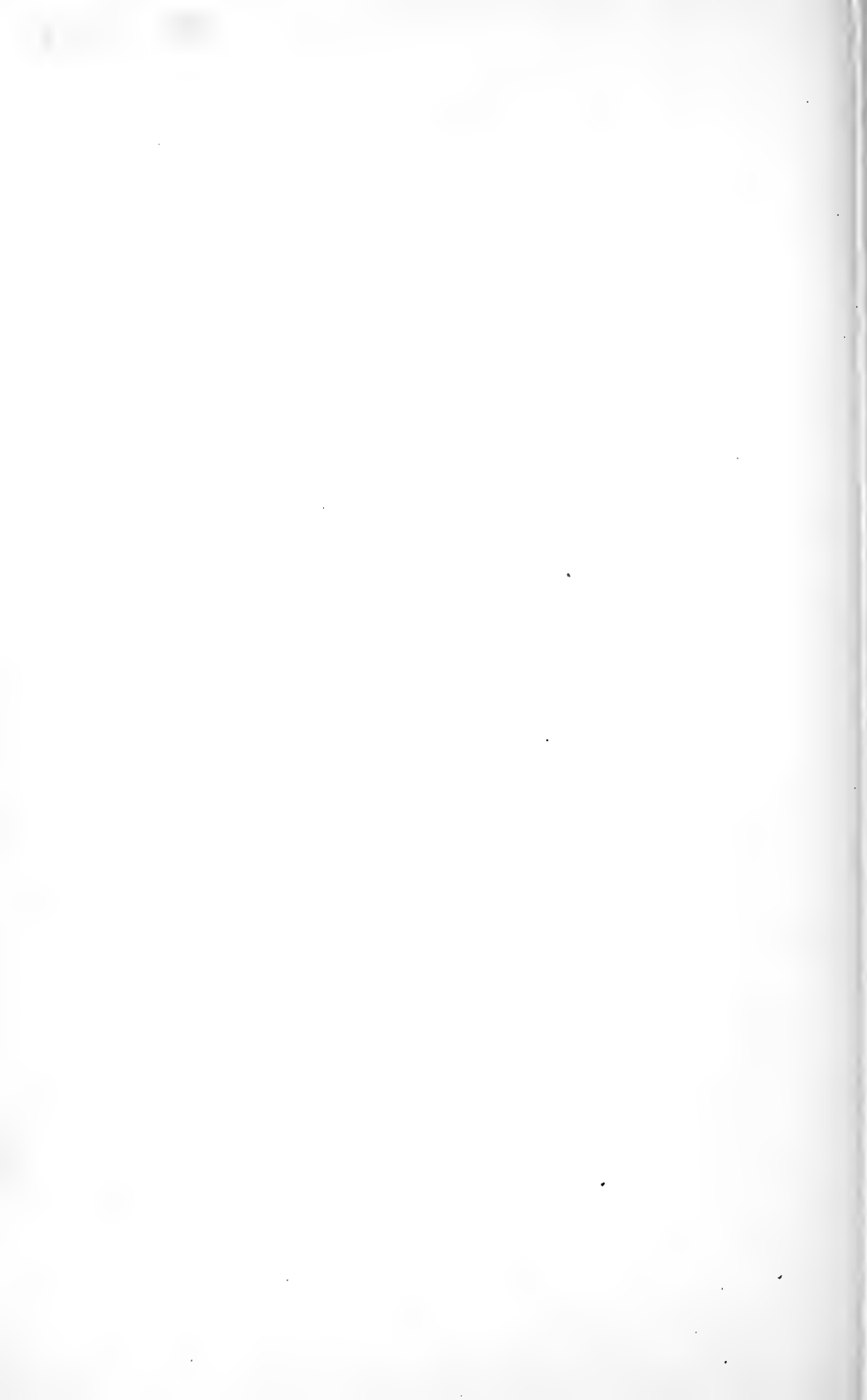
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Abbreviations of author names, where used, following words in small capitals are as follows:

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. Müller & Troschel
Cuv. Cuvier	McCl. McClelland
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. Günther	T. & S. Temminck & 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 Linnæus 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.

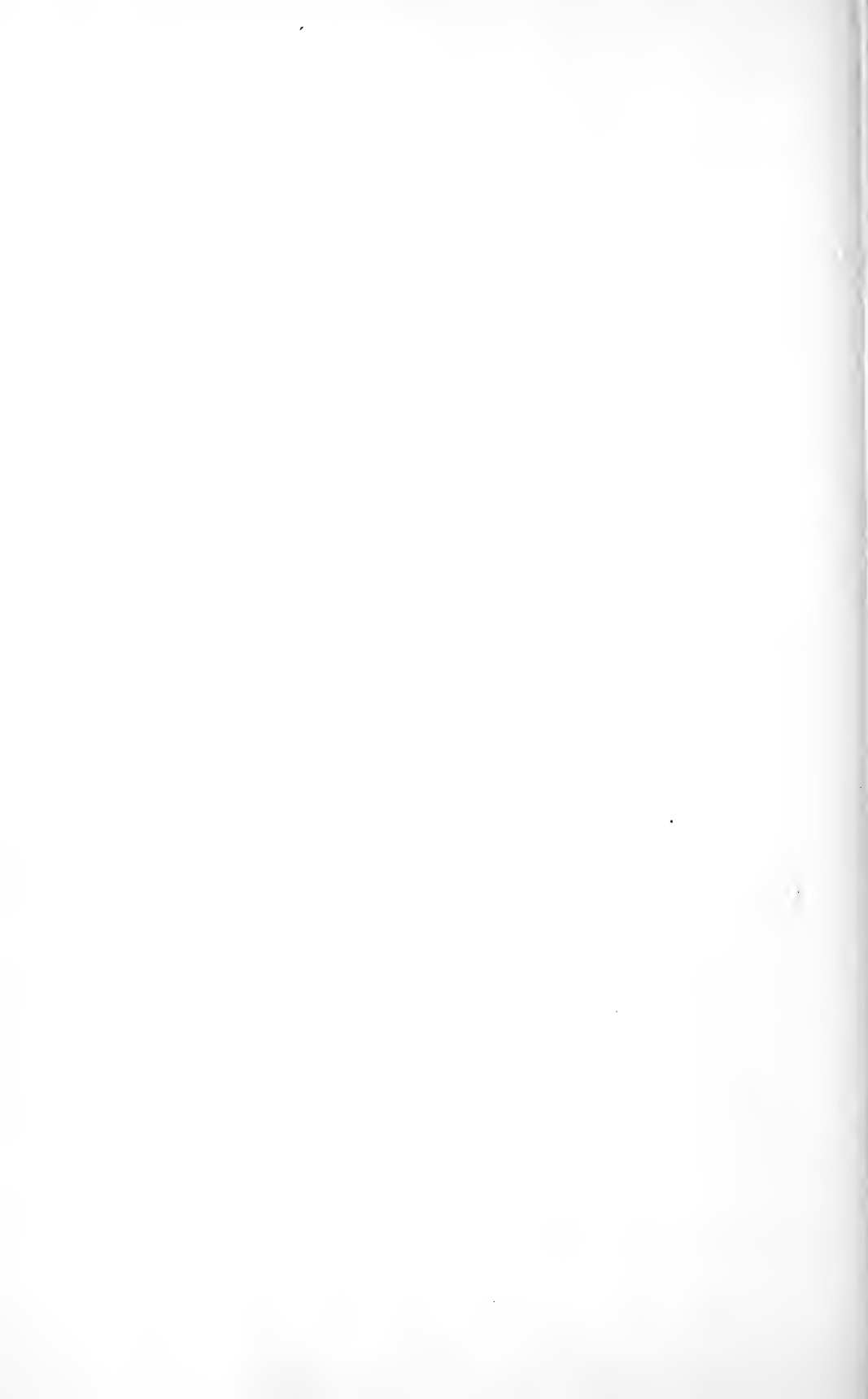
The writer expresses his special obligation to Mr. Barton A. Bean of the United States National Museum, and to Henry Weed Fowler of the Academy of Natural Sciences of Philadelphia for services in examining rare or forgotten books, and to Mr. Masamitsu Oshima, for valuable aid in compilation. He is also 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. 1.

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 1, 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 OVOIDES (AROTHRON) may not be congeneric. According to Dr. Gill, the type of TETRAODON is distinguished from the Pacific species known as OVOIDES 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 Linnæan name of the species RAJA TORPEDO and CONGER is the trivial Linnæan 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 Linnæan 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). *Delineationes 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 Pallas. As here used, unquestionably binomial.

17B. GÜLDENSTÄDT (1772). (*Sterleta*.) Nov. Comm. Sci. Petropol, XVI.

ANTON JOHANN GÜLDENSTÄDT.

Sterleta Gùldenstädt, 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 EPHIPIUM 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 Vaagmaeren (Gymnogaster arcticus)*. Kong. Dansk. Selsk. Skr., III, 408-413.

MORTEN THRANE 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** (Zuiew).

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 **ENOPLOSUS** was not used by White in 1790.

Stolephorus Lacépède, V, 381; logotype *S. COMMERSIONIANUS* 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 **ANCHOVIELLA** 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.

Platyodus Lacépède, IV, 211; orthotype *P. FURCA* Lac.

This genus, overlooked by subsequent writers, seems to belong to the **OSPHRONEMIDÆ**, an ally of **MACROPODUS**. 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. Günther for **MACROPODUS**, 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 PETRIMYZON 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 & Boupland; 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 ZEBRISCIUM, 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).
 RAPHISTOMA, 89.
 ODAMPHUS, 89.
 GONODERMUS, 91.
 DISPINOTUS, 92.

1817

91. CUVIER (1817). *Le Règne Animal, etc.* Tome II.
 GEORGES CUVIER (1769-1832).

Hydrocynus Cuvier, II, 167; logotype H. FORSKALI Cuvier; several species named, the genus restricted by Cuvier (*Mem. Mus.*, 1819) to H. FORSKALI, and the name spelled HYDROCYON. Also in *Cuv. & Val.*, XXII, 509, 1849. The name was afterwards restricted to H. LUCIUS Cuv., a species of XIPHOSTOMA, 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 RUFA.

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 PABDA* 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 Kunst en Letterboek*, II. - 1800
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 pre-occupied; 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 *DASYTIS* 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 ZYGÆNA* 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 quos in itinere per Brasiliam (1817-1820) . . . collejit . . . 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 *ACESTORRHYNCHUS* 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 organization.* 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 *MYLIOBATIS MARGINATUS* Geoffroy St. Hilaire.

136. CUVIER & VALENCIENNES (1829). *Histoire naturelle des poissons.* III. GEORGES CUVIER; ACHILLE VALENCIENNES.

- Ostichthys** (Langsdorff) Cuvier & Valenciennes, III, 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 *EXOCÆTUS*. *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 *HOLO-CENTRUS 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 *PEN-TAPUS* Cuv. & Val. (Omitted in part I.)

143A. BENNETT (1830). *Observations on a Collection of Fishes from the Mauri-tius 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, I, 169; orthotype *A. IMMUNIS* Bennett. A synonym of *SCOMBEROMORUS* Lac.

1831

146A. CUVIER & VALENCIENNES (1831). *Histoire naturelle des poissons*. VII (January, 1831), VIII, October, 1831.

GEORGES CUVIER; ACHILLE VALENCIENNES.

Drepane Cuvier & Valenciennes, VII, 129; orthotype *CHÆTODON PUNCTATUS* L.; name preoccupied by *DREPANA* or *DREPANE* Schranck, 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 *DULES AURIGA* Cuv. Name a substitute for *DULES* Cuv., regarded as preoccupied by *DULUS*, a genus of birds. If needed, *DULICHTHYS* replaces *EUDULUS* 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 (= *OCYURUS* 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 *ZEBRASOMA* Sw., but not eligible.

Ctenodon Bonaparte, 109. No description nor type mentioned; presumably intended for *ACANTHURUS CTENODON* Cuv. & Val., preoccupied; replaced by *CTENOCÆTUS* 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 potissima R. Rossia 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 *GOBIVUS 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 icone illustratus*. Nouv. Mém. Soc. Nat. Moscou, II.

J. KRYNICKI.

Schilus Krynicky, II, 441; orthotype *S. PALLASI* Krynicky = *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. Afh. 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*. II; IV (first part; second part of Vol. II issued in 1844; part of Vol IV in 1833).

LOUIS AGASSIZ.

Catopterus Agassiz, II, 3; orthotype *C. OVALIS* Ag. (fossil). A synonym of **DIP-TERUS**.

Amblypterus Agassiz, II, 3, 28; orthotype *A. LATUS* Ag. (fossil).

Gyrolepis Agassiz, II, 6, 172; logotype *G. ALBERTI* Ag. (fossil).

Tetragonolepis Agassiz, II, 6, 181; logotype *T. CONFLUENS* Ag. (fossil). Name preoccupied; a synonym of **DAPEDIUM** Leach.

Microps Agassiz, II, 10; orthotype *M. FURCATUS* Ag. (fossil). Name preoccupied; replaced by **PERIURGUS** Gistel, 1848.

Pygopterus Agassiz, II, 10; orthotype *P. HUMBOLDTI* Ag. (fossil).

Notagodus Agassiz, II, 10; orthotype *N. PENTLANDI* Ag. (fossil).

Acrolepis Agassiz, II, 11; orthotype *A. SEDGWICKI* Ag. (fossil).

Pachycormus Agassiz, II, 11; orthotype *ELOPS MACROPTERUS* Blainv. (fossil).

Thrissops Agassiz, II, 12; orthotype *T. FORMOSUS* Ag. (fossil).

Megalurus Agassiz, II, 13; orthotype *M. LEPIDOTUS* Ag. (fossil). Name preoccupied in birds (Horsfield, 1821), replaced by **SYNERGUS** Gistel (1848), also preoccupied; suggested as substitute for both **UROCLIS** Jordan, 1919.

Aspidorhynchus Agassiz, II, 14; orthotype *ESOX ACUTIROSTRIS* Blainv. (fossil).

Saurostomus Agassiz, II, 14; orthotype *S. ESOCINUS* Ag. (fossil).

Sphærodon Agassiz, II, 15; logotype *S. GIGAS* Ag. (fossil). A synonym of **LEPIDOTES** Ag.; not **SPHÆRODON** Rüppell.

Pycnodus Agassiz, II, 16; orthotype *ZEUS PLATESSUS* Blainv. (fossil).

Gyrodus Agassiz, II, 16; orthotype *G. MACROPHthalmus* Ag. (fossil).

Microdon Agassiz, II, 16; orthotype *M. ELEGANS* Ag. (fossil). Name preoccupied in flies (Meigen, 1803), replaced by **PROSCINETES** Gistel, 1848, and, later, by **POLYPSEPHIS** Hay (1899).

Calamostoma Agassiz, II, 18; orthotype *SYNGNATHUS BREVICULUS* Blainv. (fossil).

Acanthodes Agassiz, II, 19; orthotype *ACANTHOËSSUS 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 & RATZEBURG (1833). *Medizinische Zoologie*. II.

JOHANN FRIEDRICH BRANDT (1802-1879); J. T. C. RATZEBURG (1801-1871).

Huso Brandt & Ratzburg, II, 3; orthotype *ACIPENSER HUSO* L. A synonym of **ICHTHYOCOLLA** 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 Risso su alcuni pesci novelli*. Giorn. Sci. Lett. Sicilia, XLII.
ANASTASIO COCCO.
- Tylosurus** Cocco, XLII, No. 124; orthotype *T. CANTRAINI* Cocco = *ESOX IMPERIALIS* Raf. = *SPHYRÆNA 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.
- Hynniss** Cuvier & Valenciennes, IX, 95; orthotype *H. GOREENSIS* Cuv. & Val.
- Lactarius** Cuvier & Valenciennes, IX, 237; haplotype *SCOMBER LACTARIUS* Bloch = *LACTARIUS DELICATULUS* Cuv. & Val.
- Nauclerus** Cuvier & Valenciennes, IX, 247; orthotype *N. COMPRESSUS* Cuv. & Val. Young of *NAUCRATES* Raf.
- Porthmeus** Cuvier & Valenciennes, IX, 255; orthotype *P. ARGENTEUS* Cuv. & Val.
- Psenes** Cuvier & Valenciennes IX, 259; orthotype *P. CYANOPHRYS* 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 *CORYPHÆNA* L.
- Aphredoderus** (Le Sueur) Cuvier & Valenciennes, IX, 445; orthotype *A. GIBBOSUS* Le Sueur = *SCOLOPSIS SAYANUS* Gilliams. Also spelled *APHRODEDIRUS* 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, II, 88; logotype B. NEBULOSA Gray. A synonym of **NANDUS** Cuv. & Val., 1831.
- Pterapon** Gray, II, 88; haplotype P. TRIVITTATUS Gray = **SCLÆNA** JARBUA Forskål. A synonym of **THERAPON** Cuv.
- Anaora** Gray, II, 90; haplotype A. TENTACULATA Gray. (Name misprinted AMORA, but corrected in manuscript on the plate.) Species not identified; resembles **THYSANOPHRYS** Ogilby.
- Apterygia** Gray, II, 92; haplotype A. RAMCARATE Gray. A synonym of **RACONDA** Gray.
- Tor** Gray, II, 96; haplotype CYPRINUS TOR Ham. = **TOR HAMILTONI** Gray. Replaces **LABEOBARBUS** Rüppell.
- Bengala** Gray, II 96; haplotype CYPRINUS ELANGA Ham. Replaces **MEGARASBORA** Gthr.
- Amansra** Gray, II, 98; haplotype A. HYSTRIX Gray = **MONACANTHUS** SCOPAS Cuv.
- Acarana** Gray, II, 98; haplotype OSTRACION AURITUS Shaw. Also in *Ann Nat. Hist.*, I, 110, 1838.
- Girella** Gray, II, 98; haplotype G. PUNCTATA Gray.
- 171, 172. LOWE (1833). *Character of a New Genus and of Several New Species of* Proc. Zool. Soc. London, I.
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 Madeira.* Proc. Zool. Soc. London, I.
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 Guebucu 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 **TETRAPTURUS** Raf.
175. REINHARDT (1833). *Bemærkningene 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. PROCERUS Ag. (fossil).
- Saurichthys** Agassiz, 386; orthotype S. APICALIS Ag. (fossil).
- Propterus** Agassiz, 386; orthotype P. MICROSTOMUS Ag. (fossil).
- Caturus** Agassiz, 387; orthotype URÆUS NUCHALIS Ag. (fossil). Substitute for **URÆUS** 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 waterländischen 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 scoperti 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 électriques, 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). *Voyage 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. Neufchâtel, 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 ASPIDUS* 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 (euilleton); orthotype *M. MANTELLI* Ag. (fossil).
- Diplopterus** Agassiz, II, 113; orthotype *D. MACROCEPHALUS* Ag. (fossil). Name preoccupied; replaced by *DIPLOPTERAX* 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. TRALLI* 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).
- Cœlogaster** 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 *MONOPTEROS* Volta (1794).
- Enchelyopus** Agassiz, 307; orthotype *E. TIGRINUS* Ag. (fossil); name only; validated by Agassiz in 1844. Preoccupied; replaced by *PARANGUILLA* Blkr. (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. GOTTSCHKE (1835). *Die seeländischen Pleuronectes-Arten*. Wiegmann's Archiv. der Naturgeschichte, II.
CARL MORITZ GOTTSCHKE (1808-1892).

Limandá Gottsche, 100; orthotype **PLEURONECTES LIMANDA** L.

Microstomus Gottsche, 150; orthotype **M. LATIDENS** Gottsche. Regarded as pre-occupied by **MICROSTOMA** Risso, 1826; replaced by **CYNICOGLOSSUS** Bon.

Glyptocephalus Gottsche, 156; orthotype **PLEURONECTES SAXICOLA** Faber = **P. CYNOGLOSSUS** L.

Hippoglossoides Gottsche, 168; orthotype **H. LIMANDA** Gottsche = **PLEURONECTES LIMANOIDES** 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 Myxinoïden, 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 **HEPTATREMA** 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 **ARGYRO SOMUS** (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").

SQUALRAIA ACEPHALA (527) (= **SQUATINA SQUATINA**).

TORPEDO ELLIPTICA (527) ("d'après la structure de ses deux pectorales").

RAJABATIS MACRÔPHALLA (528) (Differing in length of clasper).

RAJABATIS MICROPHALLA (528). "Neuf autres espèces complètent ce genre; ce sont

les **R. TRIPTERA**, **POLYACANTHA**, **VARIEGATA**, **TIGRINA**, **MONOLIFERA**, **FLORIGERA**, **MELUMPSECA**, **MOAICA**, **UNDULATA**.

HIPPOCAMPUS ATRICHUS (529) ("espèce de l'Océan").

HIPPOCAMPUS JUBATUS (529) ("des filamens qui composent, le long de son cou, une espèce de crinière peu fournie").

APTOCYCLUS OSTRACIODES (529). "Coffret." "Nouvelle espèce encore très bien caractérisée."

- ANGUILLA VULGARIS, "mes variétés MACROCEPHALA, ORNITHORHINCHA, PLATYURA, également nouvelles pour la science" (529).
- MURÆNA HIPPOCREPIS (529) "commune dans certain réservoirs 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 Coche Rouge".
- MUSTELA QUINQUECIRRHA (530), "a cinq barbillons".
- BLENNIUS GATTORUGINE BITENTACULARIS (530).
- BLENNIUS PICTAVUS (530), "nouvelles espèces".
- BLENNIUS PIETI (530).
- PTEROZYGUS BIEVRII (530).
- GOBIUS 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.
- ARGYROSUMUS PROCERUS (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".
- LEUCISUS PICTAVA (533). "Chévénau" "le corps est moins large" (que dans le LEUCISCUS CHUB de Pennant).
- LEUCISCUS OBTUSUS (533) "able ou petit verdon sans taches".
- GOBIO PHOXINOIDES (533), "Goujon véronette".
- COBITIS PARISIENSIS (534), "Loche Franche".
- COBITIS PICTAVA (534), "repandu dans nos rivières".
- SOLEA CUNEATA (534), "Sole sétan": "espèce mediocre, mais parfaitement caractérisée".
- RHOMBUS GALLINULA (534), "poulette de mer".
- Squalraia** De la Pylaie, 526; orthotype SQUALRAIA AEPHALA Pylaie = RAJA SQUATINA L. A synonym of SQUATINA; not SQUALORAIAIA 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 VENTRICOSUS" 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 caractère d'avoir ses nageoires pectorales et thoraciques réunies par paires." Probably a monstrous form of COBITIS 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 *SCLÆNA* L. as restricted by Cuvier; same as *PSEUDOSCLÆNA* 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. EQUULÆFORMIS* 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 *HEMULUS* 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 *ERYTHRODON* Rüppell (1852) and by *PYRODON* 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* Garmann. But the root is different: *νεβρίοι* of Aristotle, referring to some shark.

Uropterygius Rüppell, 83; orthotype *N. CONCOLOR* Rüppell. This would be a synonym of *GYMNOMURÆNA* 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).

Hexabranchnus 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.

Spinacorhinus Agassiz, III, 94; orthotype *S. POLYSPONDYLUS* Ag. (fossil). A synonym of *SQUALORATA* 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 Burdiehouse, 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 **BLENECHIS 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. = **AGNOSTOMUS TELFAIRI** Bennett, 1830. A synonym of **AGONOSTOMUS** Bennett.
Blennechis 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; tautotype **BLENNIUS GUNNELLUS** L. A synonym of **PHOLIS** (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** (KUHLLIA). (Very doubtful; here quoted from Scudder. I fail to find the name in question elsewhere.)
201. MÜNSTER (1836). *Capitosaurus in Keupersandstein; Gyrodus multidens in Jurakalk; achte Belonostomus-Art; Lebias und Cyprinus in Braunköhle 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. SUBLÆVIS** Ag. (fossil). A synonym of **TRISTYCHIUS** 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. LÆVISSIMUS** Ag. (fossil). Name preoccupied; probably replaced by **ORTHACANTHUS** Ag.; perhaps the spine of the forms known from the teeth, as **DIPLODUS**, **DICRANODUS**, **DITTODUS**, etc.

Hypsodon Agassiz, V, 100; logotype **MEGALODON LEWESIENSIS** Mantell (fossil). Specimens not all of one genus, some belonging to **PORTHEUS** Cope (1872).

207. BONAPARTE (1834-1841). *Iconografia della fauna italiana, 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 XXIII, 1839 for XXIV to XXVI, 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 festicted.
- 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.
- Lævira** 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 *STROMATEIODES* Blkr., 1851.
 "Diamo il nome di PAMPUS al secundo sottogenere in cui accogliamo quelle specie che non hanno pinne ventrali e portano innanzo 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 *DASYBATUS*. A synonym of *RAJA* L.; not *DASYBATUS* 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 SCARDAFA* Bon.
- Telestes** Bonaparte, fasc. 103; orthotype *TELESTES MUTICELLUS* Bon. (1839).
- Plagiusa** Bonaparte, fasc. 120; orthotype (by implication) *PLEURONECTES PLAGIUSA* L. A substitute for *PLAGUSIA* Cuv.; preoccupied ("non *PLAGUSIA*, 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 *RUVETTUS* 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 HERMANNIANUS* 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-Linnaean 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 BODDÆRTI* 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.

Hemerocetes Cuvier & Valenciennes, XII, 311; haplotype *CALLIONYMUS ACANTHORHYNCHUS* Forster.

Platyptera (Kuhl & Van Hasselt) Cuvier & Valenciennes, XII, 320; orthotype *P. ASPRO* Van Hasselt. Name preoccupied, replaced by *RHYACICHTHYS* 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 fiskslägte 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 Palæontologie 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 Haifische und Rochen nach ihrer Arbeit, "Ueber die Naturgeschichte der Knorpelfische"*. *Ber. Akad. Wiss. Berlin.*

JOHANNES MÜLLER; FRIEDRICH GUSTAV JAKOB HENLE.

Tæniura Müller & Henle, 117; 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.

- Hemityrion** Müller & Henle, 90; orthotype TRYGON BENNETTI M. & H.
Ginglymostoma Müller & Henle, 413; 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 UROGYMNUM M. & H.
Himantura Müller & Henle, 400; orthotype RAJA UARNAK Forskål.
Urogymnus Müller & Henle, 434; logotype RAJA ASPERRIMA Bl. & Schn. Replaces ANACANTHUS Ehrenb. and GYMNUM 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 Linnæan 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 Bonnetere.
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.).

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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 COCHLIODUS, of undetermined value.

- Cochliodus** Agassiz, III, 113; orthotype *C. CONTORTUS* Ag. (fossil).
Strophodus Agassiz, III, 116; logotype *S. RETICULATUS* Ag. (fossil). A synonym of *ASTERACANTHUS*.
Ceratodus Agassiz, III, 129; orthotype *C. LATISSIMUS* Ag. (fossil). Considered by Gistel as preoccupied by the earlier *CERATODON*; *SCROPHA* Gistel (1848) has been proposed as a substitute.
Ctenodus Agassiz, III, 137; orthotype *C. CRISTATUS* Ag. (fossil). Considered as preoccupied by the earlier *CTENODON*. *RHADAMISTA* Gistel (1848) has been proposed as a substitute.
Acrodus Agassiz, III, 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. ANTIQVUS* 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 MACROPHTHALMUS* 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 Goldsworth Hill, Four Miles North of Guildford*. *Proc. Geol. Soc. London*, II.

WILLIAM BUCKLAND (1784-1856).

- Edaphodon** Buckland, II, 687; logotype *CHIMÆRA MANTELLI* Buckland (fossil). According to Dr. L. Hussakof, the following genera based on Chimæroid teeth are all synonyms of *EDAPHODON*, namely, *ISCHYODUS*, *EUMYLODUS*, *PASSALODON*, *PSITTACODON*, *DIPRISTIS*, *DIPHRISSA* and *BRYACTINUS*.
Passalodon Buckland, II, 687; orthotype *CHIMÆRA 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 *CENTROLOPHUS* Lac.
Maurolicus 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 *AERIONODON* 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.

Alopias 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.

Syrrhina 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 *PLATYRRHINUS*; replaced by *ANALITHIS* Gistel (1848) and later by *DISCOBATUS* Garman (1881).

Astrape 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 SEPHEN* Forskål. A synonym of *PASTINACHUS* 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 VAMPYRUS* Mitchill. A synonym of *MANTA* Bancroft

Centrosyllium 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 *TRILENDON 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. Petersb., III.

ALEXANDER VON NORDMANN.

Hexacanthus Nordmann; orthotype *GOBIOUS MACROCEPHALUS* Pallas. Name regarded as preoccupied by *HEXACANTHA*; replaced by *BENTHOPHILUS* Eichw.

231. REINHARDT (1838). *Ichthyologische bidrag til den Grönlandske fauna,* etc. Danske Vid. Selsk. Afh. Kjöbenhavn, VII.

JOHANNES CHRISTOPHER HAGEMANN REINHARDT.

Himantolophus Reinhardt, 74; orthotype *H. GRÖNLANDICUS* Reinh.

Citharus Reinhardt, 116; orthotype *PLEURONECTES PLATESSOIDES* Fabricius, not of Röse, 1793, nor of Bleeker, 1862. A synonym of *HIPPOGLOSSOIDES* 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* Kölr.

Ariosoma Swainson, I, 220; II, 195; (no type named); logotype, as restricted by Bleeker and by Swain, *OPHISOMA ACUTA* Sw. = *MURÆNA BALEARICA* De la Roche; replaced by *OPHISOMA* Sw., on II, 334; a name preoccupied; replace: *CONGERMURÆNA* Kaup and *CONGRELLUS* Ogilby. Several other generic names defined by Swainson in Vol. II (1839) are casually mentioned with a few words of comparison. *Tius 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.

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233. AGASSIZ (1839). *Künstliche Steinkerne von Konchylien und Fische.* Neues Jahrb. Mineral.
LOUIS AGASSIZ.
Eugnathus Agassiz, 118; 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. MACROPTHALMUS* 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, 11; 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 RHINSOPELUS 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 ENGLOTTOGASTER substituted for it. Probably a synonym of SCHIZOTHORAX Heckel.

Systemus 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 Günther.

Schistura McClelland, 306; logotype COBITIS RUPECULA 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.

Hymenphysa McClelland, 443; logotype COBITIS DARIO Ham. Corrected to HYMENOPHYSA by Günther; 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 Gefäs 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 pre-occupied; replaced by *GASTROPHYSUS* Müller. A synonym of *LAGOCEPHALUS* Swain.
Arothron Müller, 252; orthotype *A. TESTUDINARIUS* Müller = *TETRAODON RETICULARIS* Bl. & Schn. A synonym of *OVOIDES* 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 familiæ 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 NEMADACTYLUS 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 *Zoögnosia*, 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 *VESICULA* Jordan & Rich. *PROSOPODASYS* Cantor, originally a substitute name for *APISTUS*, is transferred by Günther 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 VARIABILIS* 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 *CRISTI-CEPS* 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 *TÆNIOIDES* Lac.
- Gobileptes** Swainson, II, 183; no type named; orthotype intended (as is evident from Swainson's description) *GOBIOUS ACUTIPINNIS* Cuv. & Val. "like *GOBIOUS*, but the caudal lanceolate and the scales large". Bleeker (1876) has, however, fixed the type, none having been named before, on *GOBIOUS 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. = *MURÆNA BALEARICA* De la Roche. Replaces *CONGERMURÆNA* Kaup (1856) and *CONGREGELLUS* Ogilby 1898.
- Leiodon** Swainson, II, 194; logotype *LEIOSOMUS MARMORATUS* Sw. = *TETRAODON CUTCUTIA* Ham., as defined by Bleeker (1865). Swain restricts the name *LEIOSOMUS* as later substituted by Swainson for *LEIODON*, to *LEIOSOMUS LÆVISSIMUS* 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* Blk. 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 OCVLATUS* (Cuv. & Val.). A synonym of *ETELIS* Cuv.
- Rabdophorus** Swainson, II, 211; haplotype *CHÆTODON EPHIPIUM* Bloch. A subdivision of *CHÆTODON*.
- Genicanthus** Swainson, II, 212; logotype *HOLACANTHUS LAMARCKI* (Cuv.) A synonym of *HOLACANTHUS* Lac.
- Microcanthus** Swainson, II, 215; haplotype *CHÆTODON STRIGATUS* Cuv., a wilful misprint for *MICRACANTHUS*.

- Chrysiptera** Swainson, II, 216; logotype GLYPHIDODON AZUREUS Q. & G. A subgenus under ABUDEFDUF.
- Microgaster** Swainson, II, 216; haplotype ETROPLUS CORUCHI Cuv. & Val. = CHÆTODON MACULATUS Bloch. Equivalent to PARETROPLUS Blkr. A synonym of ETROPLUS Cuv. & Val. as restricted.
- Chætolabrus** Swainson, II, 216; logotype CHÆTODON SURATENSIS Bloch. A synonym of ETROPLUS Cuv.
- Chrysoblephus** Swainson, II, 221; haplotype SPARUS GIBBICEPS Cuv. A section under SPARUS L.
- Argyrops** Swainson, II, 221; haplotype SPARUS SPINIFER Forskål. A section under SPARUS L.
- Calamus** Swainson, II, 221; haplotype PAGELLUS CALAMUS Cuv. & Val. = CALAMUS MEGACEPHALUS Sw.
- Lithognathus** Swainson, II, 222; haplotype SPARUS CAPENSIS Cuv.
- Nemipterus** Swainson, II, 223; haplotype DENTEX FILAMENTOSUS Cuv. Replaces SYNAGRIS Gthr., 1859.
- Thalassoma** Swainson, II, 224; haplotype LABRUS PURPUREUS Rüppell. Stands in place of JULIS Gthr., not of Cuvier.
- Urichthys** Swainson, II, 224; logotype LABRUS LUNULATUS Rüppell. A synonym of CHEILINUS Lac.
- Crassilabrus** Swainson, II, 225; haplotype CHEILINUS UNDULATUS Rüppell. A section under CHEILINUS Lac.
- Leptoscarus** Swainson, II, 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, II, 226; haplotype SCARUS PEPO Bennett = HEMISTOMA RETICULATA Sw. A synonym of CALLYODON Gronow or SCARUS Forskål.
- Erychthys** Swainson, II, 226; logotype LABRUS CROICENSIS Bloch. A synonym of CALLYODON Gronow or SCARUS Forskål.
- Petronason** Swainson, II, 226; logotype CORYPHÆNA PSITTACUS L. as restricted by Bleeker and by Swain. A synonym of CALLYDODON or SCARUS.
- Pachynathus** Swainson, II, 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 PACHYGNATHUS is to be regarded as a misprint, hence identical with PACHYGNATHUS.
- Chlorurus** Swainson, II, 227; haplotype SCARUS GIBBUS Rüppell. A synonym of CALLYODON or SCARUS.
- Amphiscarus** Swainson, II, 227; SCARUS FUSCUS Griffith. A synonym of SIGANUS Forskål.
- Sparisoma** Swainson, II, 227; haplotype SCARUS ABILDGAARDI Bloch. Equivalent to SCARUS Gthr., which it replaces; not SCARUS of Forskål, which should stand as CALLYODON Gronow, if Gronow's names are allowed.
- Hemiulis** Swainson, II, 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 HALICHÆRES Rüppell is regarded as preoccupied by HALICHÆRUS, HEMIULIS must replace it instead of CHÆROJULIS 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 *PSEUDOCHROMIS OLIVACEUS* Rüppell. A nameless substitute for *PSEUDOCHROMIS* 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.
- Ichthycallus** 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*. *ICHTHYCALLUS* is a synonym of *JULIS* Cuv. & Val. "CHLORICHTHYS and *ICHTHYCALLUS*, 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 *XIPHOTHECA* 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 HUMBOLDTIANA* 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.
- Argyrolepes** Swainson, II, 247; haplotype *ARGYROLEPES 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 Bleeker'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 SOHAI 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 Brünnich. (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., (KODIPUNGI Russell). A synonym of PTEROIS Cuv.
- Macrochyrus** Swainson, II, 264; haplotype SCORPÆNA MILES Bennett. A synonym of PTEROIS Cuv.
- Brachyrus** Swainson, II, 264; logotype PTEROIS ZEBRA Cuv. & Val. A synonym of DENDROCHIRUS Sw., not BRACHYOCHIRUS 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 TETRAROGÆ Gthr., 1860.
- Pterichthys** Swainson, II, 265; logotype SCORPÆNA 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 PENTAROGÆ Gthr.
- Synanchia** ("Cuvier") Swainson, 268; a variant of SYNANCEJA: (S. EROSA).
- Bufichthys** Swainson, II, 268; logotype SCORPÆNA HORRIDA L. which is also type of SYNANCIIDIUM Müller, 1844. Where BUFICHTHYS is first mentioned on page 180 it has the definition still earlier assigned to EROSA and here given to "SYNANCHIA". Gill therefore regards it as a synonym of EROSA Sw., rather than as equivalent of SYNANCIIDIUM Müller.
- Trachicephalus** Swainson, II, 268; haplotype SYNANCEIA ELONGATA Cuv. & Val. Preoccupied by TRACHYCEPHALUS, 1838, a genus of reptiles. Replaced by POLYCAULUS Gthr.

- Ichthyscopus** 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" (κάνφος, a donkey) to mean spine (ἄκανθα).
- 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 MURENOIDES 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 HARPODON 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 THRISSE Cuv. (1817), not of Rafinesque (1815); replaced by THRISSEOCLES 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 CYPSELURUS); logotype EXOCETUS ~~NUTTALLI~~ Le Sueur = EXOCETUS FURCATUS Mitchill. 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 CYPSELURUS 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.
- Hoplisoma** 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.

Anteater

- Cyclopium** Swainson, II, 305; haplotype *PIMELODUS CYCLOPUM* Humboldt = *CYCLOPIUM HUMBOLDTI* Sw. Replaces *STYLOGENES* Gthr. (1864).
- Clupisoma** Swainson, II, 306; haplotype *SILURUS GARUA* Ham., *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 URANOSCOPIUS* 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 *ASPREDO* (Gronow) (Scopoli).
- Pteronotus** Swainson, II, 309; haplotype *HETEROBRANCHUS SEXTENTACULATUS* 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 *CANTHOPHRYS 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.
- Pterocephala** Swainson, II, 321; haplotype *RAJA GIORNA* Lac. A synonym of *MOBULA* Raf.
- Tetrosomus** Swainson, II, 323; haplotype *OSTRACION TURRITUS* Forskål. A section of *OSTRACION* L.
- Rhesomus** Swainson, II, 324; logotype *OSTRACION TRIQUETER* Bloch. A synonym of *LACTOPHRYS* 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 YELLAKAH* Russell, pl. 22 = *BALISTES STELLARIS* Bl. & Schn. Name preoccupied by *LEIURUS* Sw. (p. 242); replaced by *ABALISTES* Jordan & Seale (1911).
- Chæto dermis** Swainson, II, 327; logotype *MONOCANTHUS SPINOSISSIMUS* Q. & G.
- Psi lo cephalus** Swainson, II, 327; haplotype *BALISTES BARBATUS* Gray. Substitute for *ANACANTHUS* Gray (1831), which is preoccupied by Ehrenberg, 1829.
- Cantherines** Swainson, II, 327; haplotype *MONOCANTHUS 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. LÆVISSIMUS* 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 *AMANSES* Gray (1833).
- Pilonotus** 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 *HALIEUTÆA* Cuv. & Val., 1837.
- Phyllopteryx** Swainson, II, 332; haplotype *SYNGNATHUS FOLIATUS* Shaw.
- Acus** (Willughby) Swainson, II, 333; logotype *SYNGNATHUS ÆQUOREUS* "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 *CONGERMURÆNA* Kaup, as restricted. The name is preoccupied by *OPHISOMUS* Sw., page 277. It is called *ARIOSOMA* on page 194. *ARIOSOMA* thus replaces *CONGERMURÆNA* Kaup, and also *CONGRELUS* Ogilby, all based on the same type, earlier described as *MURÆNA BALEARICA* De la Roche.
- Pterurus** Swainson, II, 334, logotype *PTERURUS MACULATUS* Sw. = *MURÆNA RAITOBORUA* Ham. A synonym of *RAITABOURA* Gray (1831) or *MORINGUA* Gray (1831).
- Leptognathus** Swainson, I, 221, and II, 334; haplotype *LEPTOGNATHUS OXYRHYNCHUS* Sw. = *MURÆNA SERPENS* L. A synonym of *OPHISURUS* Lac., as restricted by Risso.
- Pachyurus** Swainson, II, 335; haplotype *MORINGUA LINEARIS* Gray; preoccupied by *PACHYUBUS* Ag. (1829). A synonym of *PSEUDOMORINGUA* Blkr. (1864).
- Ophichthys** Swainson, II, 336; haplotype *UNIBRANCHAPERTURA CUCHIA* Ham. Name preoccupied by *OPHICHTHUS* Ahl. (1789). A synonym of *AMPHIPHOUS* Müller (1839).

Rupisuga Swainson, II, 339; haplotype *R. NICENSIS* Sw. = **LEPODOGASTER BALBIS** Risso. A synonym of **GOUANIA** Nardo (1833).

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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 italica.* 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 PANGASIUS** 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 Brasilien's nach den Beobachtungen und Mittheilungen des Entdeckers beschrieben*. Abth. 1, Die Labroiden. Ann. Wien. Mus., II.

JOHANN JAKOB HECKEL.

- Uaru** Heckel, II, 330; orthotype *U. AMPHACANTHOIDES* Heckel.
Symphysodon Heckel, II, 332; orthotype *S. DISCUS* Heckel.
Pterophyllum Heckel, II, 334; orthotype *PLATAX SCALARIS* Cuv. & Val.
Acara Heckel, II, 338; logotype *A. CRASSISPINIS* Heckel, as restricted by Gill (1858). A synonym of *ASTRONOTUS* Sw. (*HYGROGONUS* Gthr.).
Heros Heckel, II, 362; logotype *H. SEVERUS* Heckel, as restricted by J. & G., 1883. A synonym of *CICHLAURUS* or *CICHLASOMA* Sw.
Geophagus Heckel, II, 383; logotype *G. MEGASEMA* Heckel.
Chætobranchus Heckel, II, 401; logotype *C. FLAVESCENS* Heckel.
Crenicichla Heckel, II, 416; logotype *C. VITTATA* Heckel.
Batrachops Heckel, II, 432; logotype *B. RETICULATUS* Heckel.
Monocirrhus Heckel II, 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 *CYPSELURUS PULCHELLUS* Lowe. A manuscript name, withdrawn because of the earlier name *CYPSELURUS* Sw. Applied to young flying fish with barbels; equivalent also to *PTENICHTHYS* Müller.

258. MÜNSTER (1840). *Ueber einige Placoiden im Kupferschiefer zu Richselsdorf; 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 fauna 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. MICRURUM* 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. CONVAII* 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 macclellandi* Cantor, MS.). Ann. Mag. Nat. Hist., IV.

WILLIAM THOMPSON.

Bregmaceros (Cantor) Thompson, IV, 184; orthotype *B. MACCLELLANDI* (Cantor) Thompson.

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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.

Syrraxis (Jourdan) Bonaparte, fasc. 160; orthotype *NARCINE (SYRRAXIS) 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. POWERLE*" 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 (Hieroptera abredonensis) New to the British Fauna*. Edinb. New Phil. Journ., XXXI, 1841.

JOHN FLEMING (1785-1857).

Hieroptera Fleming, XXXI, 236; orthotype H. ABREDONENSIS 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 *Russeger'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 RUVETTUS 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 formazioni di un nuovo generi di pesci, intitolato Brachyochirus.* Ann. Sci. Reale Lombardo-Veneto, Padova.

GIOVANNI DOMENICO NARDO.

Brachyochirus Nardo I; orthotype GOBIUS APHYA Risso = GOBIUS MINUTUS L. A section of GOBIUS; 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 Cornstone Division of the Old Red Sandstone, Indicative of a New Genus of Fishes, or Fish-like Batrachia, etc.* Micr. Journ., I.

RICHARD OWEN.

Dendrodus Owen, I, 4; logotype D. BIPORCATUS 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 OSTEOBAMA 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. *Part III Text, Plates.*

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.

Argyrea 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 Susquehanna 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 Russegger (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. SHACRA 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 ZEREGI 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 BLOMEFIELD).

Arripis Jenyns, 14; orthotype CENTROPRISTES GEORGIANUS Cuv. & Val.

Prionodes Jenyns, 46; orthotype P. FASCIATUS Jenyns.

Stegastes Jenyns, 63; orthotype S. IMBRICATUS Jenyns = CHÆTODON LURIDUS Broussonet. This is probably identical with MICROSPATHODON Gthr., 1862, and of earlier date.

Carpes, 1014 Phoxinus ...
Isochelis, 1049 orthotype Phoxinellus ...
Riaca ...
Riaca ...

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.

Iluocœtes Jenyns, 166; orthotype *I. FIMBRIATUS* Jenyns.

Phucocœtes 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 DANIVS* 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 *GLYPTOSTERNUM* by Günther.

Olyra McClelland, II, 588; logotype *O. LONGICAUDATA* McCl.

288. MÜNSTER (1842). *Beschreibungen einiger neuer Fische aus den lithographischen Schiefer 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: Voyage 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.
Pleuroodus 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 *DITODUS*, 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 *H. SERRA* Ag. (fossil). A genus represented by a living homologue, *DIRRHIZODON ELONGATUS* Klunzinger in the Red Sea.
- Meristodon** Agassiz, III, 286; orthotype *OXYRHINA 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 *CHIMÆRA 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 Chimæroid Fishes, with Remarks on Their Affinities* Proc. Geol. Soc., IV.
PHILIP DE MALPAS GREY EGERTON.
- Ischyodus** Egerton, IV, 155; orthotype *CHIMÆRA 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. HECKEL (1843). *Abbildungen und Beschreibungen der Fische Syriens, nebst einer neuen Classification und Charakteristik sämtlicher Gattungen der Cyprinen.* Stuttgart.

JOHANN JAKOB HECKEL.

Rhynchostomus Heckel, 33, 1843
Ischyodus elongatus ...

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. ALEPIDOTUS Heckel, as restricted by Bleeker, who later separated P. ZEREGI as PSEUDOPHOXINUS, 1859. Same as PARAPHOXINUS Blkr., 1863.

Mola Heckel, appendix, 257; orthotype CYPRINUS 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.

J. 1824 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 1840, 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 OCVLATUS 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 Brünnich. 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 OLFERSI Cuv. Misprinted PLEUROTHYSIS by Günther. A synonym of ARGYROPELECUS Cocco.

302. MÜLLER (1843). *Beiträge zur Kenntniss der natürlichen Familien der Knochenfische*. Sitzb. Akad. Wiss. Berlin.

JOHANNES MÜLLER.

Encheliophis Müller, 153; orthotype E. VERMICULARIS Müller.

303. MÜLLER (1843). *Beiträge zur Kenntniss der natürlichen Familien der Fische*. Wiegmann's Arch. Naturgesch.

JOHANNES MÜLLER.

Cotylis Müller & Troschel, 297. haplotype LEPADOGASTER NUDUS Bl. & Schn. = GOBIOX GYRINUS J. & E., not CYCLOPTERUS NUDUS L., which is not identified. Later restricted by Günther, 1861, COTYLIS FIMBRATA M. & T., a species

described later and not at first included by Müller. (*Horæ Ichthyologiæ*, 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.

Synancidium 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 *CYSELURUS* 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 = *HYPOPTHALMUS 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 ANGUILLOIDES* Geoffroy St. Hiraire.

Gastrophysus Müller, 330; orthotype *TETRAODON LUNARIS* L. Substitute for *PHYSOGASTER* 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 Macherie (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. BÜRGERI* Rich.

Caprodon Temminck & Schlegel, 64; orthotype *CAPRODON* = *ANTHIAS 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. MÆANDRINUS* Ag. (fossil); name only, replaced in 1845 by *PSAMMOSTEUS* Ag.
- Chelonichthys** Agassiz, I, XXXIII; logotype *C. ASMUSSI* 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 OBLONGUS* 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. FEROX* 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 *CÆLACANTHUS*.
- 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. OBLONGUS* Ag. (fossil).
- Acrotomnus** Agassiz, II, 203; orthotype *A. FABÆ* 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. (*AMIA*TUS 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. LÆVIS* Ag. (fossil); names only; given definition by Woodward, 1901.
- Palimphyes** 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 *BOTHRIOLEPIS*.
- 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 *PTEROTH-*
RISSUS Hilgendorf.
Sphyrænodus Agassiz, V, 98; orthotype *SPHYRÆNODUS PRISCUS* Ag. (fossil). Name
 printed by Owen, 1841.
Cœlorhynchus Agassiz, V, 92; orthotype *C. RECTUS* Ag. (fossil); name preoccupied.
Hypsodon Agassiz, V, 101; orthotype *H. TOLIAPICUS* Ag., name only (fossil). Ap-
 parently 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.
Cœlocephalus Agassiz, V, 139; orthotype *C. SALMONEUS* Ag. (fossil); name only.
 Preoccupied before defined by *CÆLOCEPHALUS* Clark, 1860, and by *CÆLO-*
CEPHALUS Gilbert & Cramer, 1897; replaced by *EOTHYNNUS* Woodw., 1901.
Halecopsis Agassiz, V, 139; orthotype *H. LÆIS* Ag. (fossil) = *OSMEROIDES*
INSIGNIS Delvaux & Ortlieb (fossil); name only; validated by Woodward,
 1901.
Elopidés Agassiz, V, 139; orthotype *E. COULONI* Ag. (fossil); name only; vali-
 dated 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 *PLA-*
TOPHRYS Sw.
311. CUVIER & VALENCIENNES (1844). *Histoire naturelle des poissons*.
 XVII.
 ACHILLE VALENCIENNES.
Catla Cuvier & Valenciennes, XVII, (140); tautotype *CYPRINUS CATLA* Ham. A
 synonym of *GIBELION* Heckel. 410
Sclerognathus Cuvier & Valenciennes, XVII, 472; logotype, restriction of Günther,
 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 CYPRINUS* as type of *SCLEROGNATHUS* and
 gives to *I. CYPRINELLA* the new name of *MEGASTOMATOBUS*.

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. AGASSIANUS* Koninck (fossil).

315. McCLELLAND (1844). *Description of a Collection of Fishes Made at Chasien 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.

Thærodontis 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 *PSEUDOCHIDNA* Blkr.

Ophicardia McClelland, V, 191; orthotype *O. PHAYRIANA* McCl. A synonym of *FLUTA* Bl. & Schn. = *MONOPTERUS* Lac.

Pneumabranchnus McClelland, V, 192; logotype *P. STRIATUS* McCl. A synonym of *AMPHIPNOUS* Müller.

Ophisternon McClelland, V, 197; logotype *O. BENGALENSIS* McCl. A synonym of *SYMBRANCHUS* Bloch.

Ptyobranchnus McClelland, V, 200; logotype *P. ARUNDINACEUS* McCl. A synonym of *RAITOURA* Gray = *MORINGUA* Gray.

Ophithorax McClelland, V, 212; logotype "OPHISURUS OPHIS Lac." (*MURÆNA MACULOSA* Cuv.). The species called *MURÆNA OPHIS* by Linnæus is the type of

the genus *OPHICHTHUS* of Ahl. *MURÆNA 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 *MURÆNA 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 *OPHICHTHYS MACULOSUS* by Günther (not by Cuvier). This is a species of *MYRICHTHYS*, thus far without tenable name. Using Günther's description of *OPHICHTHYS MACULOSUS* as the type, the species may be named *MYRICHTHYS GUNTHERI* Jordan. It seems best to regard *OPHITHORAX* as a synonym of *OPHICHTHYS* Ahl, rather than to substitute it on doubtful grounds for *MYRICHTHYS* or for *CHELVASTES (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* Müller & Plieninger (fossil). A synonym of *ACRODUS*.

318. MÜLLER & TROSCHEL (1844). *Synopsis generum et specierum familiae Characinarum*. Wiegmann's *Archiv. Naturg.* (Also in *Horæ Ichthyologicae*, III, 1845.)

JOHANNES MÜLLER; FRANZ HERMANN TROSCHEL (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 Müller & Troschel, 90; logotype *CHARACINUS MICROLEPIDOTUS* Cuv.

Exodon Müller & Troschel, 91; haplotype *EXODON PARADOXUS* M. & T. Said to be preoccupied; replaced by *HYSTRICODON* Gthr. 1864

Epicyrthus Müller & 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 *ACESTRORHYNCHUS* Eigenmann (1903). "Nomen *XIPHORHYNCHUS* usurpatum in Ornithologiæ" (M. & T.).

Hydrolycus Müller & Troschel, 93; orthotype *HYDROCYON SCOMBEROIDES* Cuv.

Pygocentrus Müller & Troschel, 94; logotype *SERRASALMO PIRAYA* Cuv.

Pygopristis Müller & Troschell, 95 logotype *SERRASALMO DENTICULATUS* Cuv.

Catopriion Müller & Troschel, 96; haplotype *SERRASALMO MENTO* Cuv.

Myleus Müller & Troschel, 98; orthotype *MYLEUS 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. CHIERIGHINI* 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 (Patæcus 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. MIRUM* 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*.
Aleuterius (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*).
Molariii (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.
Hypsinotus 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*. II, 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.

1845

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.
- Naupygyus** 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).
Synophrys (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. MÆANDRINUS* 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. VERNEULI* 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 geeneskunde topographic van Batavia. Generisch overzicht der fauna.* II, 1845. Arch. Nederl. Indie.
 PIETER BLEEKER (1819-1878).
Pinjalo Bleeker, II, 251 (1845); orthotype *CÆSIO 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). *Catalogo 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 RHINOBATUS SHAW = *RH. CEMICULUS* Geoffroy.") A synonym of *RHINOBATUS*.
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 *SCYMNUS* Cuv., preoccupied.
Spinax Bonaparte, 16; tautotype *SQUALUS SPINAX* L. Same as *SPINAX* Cuv. A synonym of *ETMOPTERUS* Raf.
Sterledus Bonaparte, 21; orthotype *ACIPENSER RUTHENUS* Bon. Same as *STERLETA* Gùldenstädt.

- 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 PIGUS* 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 *HEGERIUS*.
- 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 *KROHNIUS* 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.
- Scorpichthes** 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 Hamatus*. *Naturhist. Tidsskr.*, I.
HENRIK NICOLAJ KRÖYER (1799-1870).
- Icelus** Kröyer, I, 253; orthotype *I. HAMATUS* Kröyer.
- Phobeter** Kröyer, I, 263; orthotype *COTTUS TRICUSPIS* Reinh. A synonym of *GYMNOCANTHUS* Sw.
335. KRÖYER (1845). *Carelophus stromii*. *Naturhist. Tidsskr.*, I.
HENRIK NICOLAJ KRÖYER.
- Carelophus** Kröyer, I; orthotype *C. STRÆMI* Kröyer. A synonym of *CHIROLOPHIS* Sw.

336. KRÖYER (1845). *Caracanthus typicus*. Naturhist. Tidsskr., I.
HENRIK NICOLAJ KRÖYER.

Caracanthus Kröyer, I, 267; orthotype *C. TYPICUS* Kröyer = *MICROPUS MACULATUS* Gray. Replaces *MICROPUS* Gray, preoccupied.

337. KRÖYER (1845). *Ccratis hollbolli*. Naturhist. Tidsskr., I.
HENRIK NICOLAJ KRÖYER.

Ceratias Kröyer, I, 639; orthotype *C. HOLLBOLLI* Kröyer.

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 *OSPHEOMENUS* Lac.

339. MÜLLER & TROSCHEL (1845). *Horæ Ichthyologicae. Beschreibung und Abbildung neuer Fische; die Familie Characinen*. I. Berlin.

JOHANNES MÜLLER: FRANZ HERMANN TROSCHEL.

Distichodus Müller & Troschel, I, 12; orthotype *SALMO NILOTICUS* Hasselquist = *CHARACINUS NEFASCH* Lac.

Agoniates Müller & Troschel, I, 19; haplotype *AGONIATES HALECINUS* M & T.

Cnidon Müller & Troschel, I, 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). *Encyclopdia 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).

CENRAAD JACOB TEMMINCK; HERMANN SCHLEGEL.

Erythrichthys Temminck & Schlegel, 1845, 117; orthotype *E. SCHLEGELI* Gthr. Name preoccupied; replaced by *ERYTHROCLES* Jordan, 1919.

Scombrops Temminck & Schlegel, 118; orthotype *S. CHEILODIPTEROIDES* Blkr. = *SCOMBER BOOPS* 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 Bibrón, 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, CTENOCARAX 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.
- Pyrrhulina** 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 PTYCTODUS 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** Kröyer, 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 ASTERODON, perhaps a reptile.
357. MÜLLER (1846). (*Arapaima*). Abhandl. Akad. Wiss. Berlin.
JOHANNES MÜLLER.
- Arapaima** Müller; 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. MÜNSTER (1846). *Ueber die im Korallenkalk des Lindner Berges bei Hannover vorcommenden Ueberreste von Fischen, etc.* Beiträge zur Petrefacten-Kunde.
GEORG MÜNSTER.
- Radamas** Münster, 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. RAPHEIDOLABIS 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.

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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 novæ Javanenses*. Nat & Geneesk. Arch. Neder.-Indie, IV.
PIETER BLEEKER.
Chærodon Bleeker, 10; orthotype LABRUS MACRODONTUS Lac. Replaces CHÆROPS 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 WAGIENSIS 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) *fidē* 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 Chimaroid 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. CRASSUS 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 lloydii 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 Mentzel 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 Sargodon tomicus in der Grenzenbreccie 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 Le Sueur.

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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, I, 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 ARGENTEUS 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).

- Urosthene**s 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 Münster.

- 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 mühsamer Vergleichung, zeiträubenden 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. SCIÆNA), 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* Guldenstädt, 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 *LONGHURUS ANCYLON* Bl. & Schn. (*A JACULIDENS* Cuv. & Val.) Substitute for *ANCYLON*, 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 *PARACENTROPOGON* 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 *APISTUS* (not *ASPISTES*) of Quoy & Gaimard and as the chief species figured by those authors is *A. LONGISPINIS*, the type of the later genus *PARACENTROPOGON*, *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 (*BLOCHIVS LONGIROSTRIS* Volta) (fossil). A substitute for *BLOCHIVS*, a personal name.

Strephon Gistel, VIII; orthotype (*BRONTES PRENADILLA* (Cuv. & Val.)). A substitute for *BRONTES* Cuv. & Val. several times preoccupied.

Thalassokleptes 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 (*LOPHIVS COMMERTSONIANUS* Lac.). Substitute for *CHIRONECTES* Cuv., preoccupied. A synonym of *ANTENNARIUS* Cuv.

Cæso Gistel, VIII; type (*SPARUS BERDA* Forskål). A substitute for "CHRYSOPHYRUS Rüppell" (*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.

Echomythes Gistel, VIII; type (*ZEUS LUNA* Gmelin). A substitute for *CHRYSOTOSUS* Lac. A synonym of *LAMPRIS*.

Ronchifex Gistel, VIII; type (*HARPE RUFATA* 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 (*CHÆTODON ARUANUS* L.). Substitute for *DASCYLLUS*; preoccupied as *DASCILLUS*; *PIRENE* is itself preoccupied and gives way to *TETRADRACHMUM* Cantor, 1849.

Enixe Gistel, IX; type (*CHÆTODON 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 *CATOCHENUM* 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*, ἔλλοψ 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".
- Encrotes** 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** Gitsel, IX; type (*SPARUS CHÆRORHYNCHUS* 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, 1899, 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 *PLOTOS* L.
- Alazon** Gistel, X; orthotype (*PECILIA VIVIPARA*). A substitute for *PECILIA* Cuv. & Val., regarded as preoccupied by *PECILUS* 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.
- Lithulus** 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 *CHRYSOPHRYS* Cuv. A synonym of *SPARUS* L. as restricted.
- Eupnoea** 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 Chile*.)
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.
- Serirolella** (Guichenot) Gay, II, 238; orthotype *S. POROSA* Guich.
- Merlus** (Guichenot) Gay, II, 238; orthotype *M. GAYI* Guich. Apparently a variant of *MERLUCCIUS*, of which it is a synonym.
388. HECKEL (1848). *Eine neue Gattung von Pæcilien mit rochenartigem Anklammerungs-Organen (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'Cooy, 3; orthotype *I. LEPTOGNATHUS* M'Cooy (fossil).

- Colonodus** M'Cooy, II, 5; orthotype *C. LONGIDENS* M'Cooy (fossil).

- Osteoplax** M'Cooy, II, 6; orthotype *O. EROSA* M'Cooy (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'Cooy, II, 117; orthotype *P. ARCUATUS* M'Cooy (fossil).

- Erismacanthus** M'Cooy, II, 118; orthotype *E. JONESI* M'Cooy (fossil).

- Asteroptychius** (Agassiz) M'Cooy, II, 118; orthotype *A. ORNATUS* (Ag.) M'Cooy (fossil). Name only, in *Poissons fossiles*, III, 176, 1843; made valid by M'Cooy, 1848.

- Platyacanthus** M'Cooy, II, 120; orthotype *P. ISOSCELES* M'Cooy (fossil). Name preoccupied. A synonym of *ORACANTHUS* Ag.

- Polyrhizodus** M'Cooy, II, 125; orthotype *P. MAGNUS* M'Cooy (fossil).

- Glossodus** M'Cooy, II, 127; logotype *G. LINGUA-BOVIS* M'Cooy (fossil). Not *GLOSSODON* Raf.

- Climaxodus** M'Cooy, II, 128; orthotype *C. IMBRICATUS* M'Cooy (fossil). A synonym of *JANASSA*.

- Cheirodus** M'Cooy, II, 130; orthotype *C. PES-RANÆ* M'Cooy (fossil).

- Petrodus** M'Cooy, II, 132; logotype *P. PATELLIFORMIS* M'Cooy (fossil).

- Tripterus** M'Cooy, II, 306; orthotype *T. POLLEXFENI* M'Cooy (fossil). A synonym of *OSTEOLEPIS* Val. Name preoccupied; replaced by *TRIPLOPTERUS* M'Cooy (1855).

- Gyroptychius** M'Cooy, II, 307; orthotype *G. ANGUSTUS* M'Cooy (fossil).

- Conchodus** M'Cooy, II, 312; orthotype *C. OSTREÆFORMIS* M'Cooy (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** Müller, I, 262; orthotype *L. MIDDENDORFI* Müller (fossil).

393. MÜLLER & TROSCHER (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 TROSCHER.

- Acharnes** Müller & 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 *TRICHOPLEURA* 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.

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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 Labroiden, 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.
Mulloides 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 *HIPPICAMPUS 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 *ASTRONESTHES* Rich.

402. CANTOR (1849). *Catalogue of Malayan Fishes*. Journ. Roy. Asiat. Soc. Bengal, XVIII (1849). Reprinted as a separate volume, 1850.

THEODORE EDWARD CANTOR.

Genyoroze Cantor, 12; logotype *DIACOPE SEBÆ*. 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 *PROSOPADASY*S.

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.

Catochaenum 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 tautonomy 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 BRACHYPOMUS Val.

Cynopotamus Cuvier & Valenciennes, XXII, 317; logotype HYDROCYON ARGENTEUS 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 Germar, 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 THRISSOPS.

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. **RUSSEGERI** 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 Zoologicae. Beschreibung und Abbildung neuer Fische*. III.
JOHANNES MÜLLER; **FRANZ HERMANN TROSCHEL**.
- Sciades** Müller & Troschel, III, 6; logotype **SCIADIS PICTUS** M. & T.
- Eutropius** Müller & Troschel, III, 6; logotype **HYPOPHTHALMUS NILOTICUS** Rüppell.
- Citharinus** Müller & Troschel, III, 8; tautotype **SERRASALMO CITHARINUS** Cuv. = **SALMO UNIMACULATUS** Bloch.
- Hemiodus** Müller & Troschel, III, 9; logotype **ANODUS CRENIDENS** M. & T. = **SALMO UNIMACULATUS** Bloch.
- Ariodes** Müller & Troschel, III, 9; logotype **ARIODES ARENARIUS** M. & T.
- Erethistes** Müller & Troschel, III, 12; orthotype E. **PUSILLUS** M. & T.
- Carapus** (Cuvier) Müller & Troschel, III, 13; logotype, restricted by Eigenmann, to **FASCIATUS** Pallas = **GYMNOTUS CARAPO** L. (**CARAPUS** Cuv., but not of Rafinesque). A synonym of **GYMNOTUS** L.
- Sternopygus** Müller & Troschel, III, 13; orthotype **GYMNOTUS MACRURUS** Bl. & Schn.
- Rhamphichthys** Müller & Troschel, III, 15; orthotype **GYMNOTUS ROSTRATUS** L.
- Cnidon** Müller & Troschel, III, 21; orthotype C. **CHINENSIS** M. & T. = **LABRAX WAIKIENSIS** Cuv. & Val. A synonym of **PSAMMOPERCA** Rich.
- Cichlops** Müller & Troschel, III, 24; orthotype C. **MICROPHthalmus** M. & T. Name preoccupied; replaced by **DAMPIERIA** Castelnau, 1875, or by **LABRACINUS** Schlegel, 1875.
- Caprophonus** Müller & Troschel, III, 28; orthotype C. **AURORA** M. & T. = **ANTI-GONIA 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 OPHISURUS 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 AELLOPOS 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.

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420. AGASSIZ (1850). *Lake Superior: Its Physical Character, Vegetation, and Animals, Compared with Those of Other and Similar Regions, etc.*

LOUIS AGASSIZ.

Pœcilosoma 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.

Hypsoplepis (Baird) Agassiz, 368; orthotype *CYPRINUS CORNUTUS* Mitchill. Written *HYPSELEPIS* by Cope.

421. BLEEKER (1850). *Bijdrage tot de kennis der Mænoiden van den Sænda-Molukschen Archipel*. Verh. Batav. Genootsch., XXIII.

PIETER BLEEKER.

Pentaprion Bleeker, I, 104; orthotype *P. GERREOIDES* Blkr.

422. BLEEKER (1850). *Bijdrage tot de kennis der visschen met doolhofvormige kieuwen van den Sænda-Molukschen 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.

Blenniomœus Costa, V, 319; orthotype *B. LONGICAUDA* Costa (fossil). A synonym of *NOTAGOGUS* Ag.

Sauropsidium Costa, V, 322; orthotype *S. LÆVISSIMUM* Costa.

Megalurites Costa, V, 370; orthotype *DIODON SCILLÆ* Ag. (fossil). A synonym or fossil ally of *DIODON*.

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 *CONOSAUROPS* 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* Blkr. *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 **SAURORHAMPHUS**.

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 = *SCIÆNA 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 **PSEUDOBLENNIUS PERCOIDES** Gthr. A slip of the pen for **PSEUDOBLENNIUS**.

Velifer Temminck & Schlegel, 312; orthotype V. HYPSELOPTERUS 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 **MACROSEMIUS** 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.

PIETER BLEEKER.

Wallago Bleeker, 202; orthotype **WALLAGO DINEMA** Blkr.

Achiroides Bleeker, 262; logotype **PLAGUSIA MELANORHYNCHUS** 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-agtige 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. MICROPTHALMA* 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 gladschubbiges 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 ARGYROTÆNIA* 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. BLOCHI* Blkr. Replaces *GASTEROTOKEUS* Heckel (1856).

446. GAIMARD (1851). *Voyage de la Commission Scientifique du Nord. Voyage en Scandinavie, 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 bemærkinger om naeseborenes stiling hos de i gruppe med Ophisurus staaende slaegter 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 GUTTATIS 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 *CHÆOPTERUS* 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 torpédoniens, 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. GERVAIS (1852). *Zoologie et Paléontologie Françaises*. II.

FRANÇOIS LOUIS PAUL GERVAIS.

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 Anhänge 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 GRYPONDON 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 PHAROPTERYX of Rüppell, 1828, which is a synonym of PLESIOPS Cuv. A synonym of MORA Risso.

Chærops Rüppell, 20; orthotype C. MELEAGRIS 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 H. FORMOSA Ag.). Stated to contain two species named later, H. FORMOSA and H. HOLBROOKI, the latter being GAM-

- 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. *antedated*
- 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. Zoetwatervischen van Sambas, Pontianak en Pengaron*. Nat. Tijdschr. Neder.-Indie, V.
PIETER BLEEKER.
- Datnioides** 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. COBOJUS Ham.
476. BLEEKER (1853). *Bijdrage tot de kennis der Murænoiden en Symbranchoiden 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 SEMI-CINCTUS* 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 *PIMELIDUS BAGARIUS* Ham.

479. COSTA (1853). (*Fossil Fishes of Italy*.) Atti Soc. Pontan, VII.

ORONZIO GABRIELE COSTA.

Ionoscopus Costa, 2; orthotype *I. PETRAROLÆ* Costa (fossil). Name changed in 1864 to *ÆNOSOPUS* 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 Tellia*. 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. Vol 19, Pt. 1.

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 *HIPPOCAMPUS GRACILLIMUS* T. & S.

Gasterotokeus (Heckel) Kaup, 230; orthotype *SYNGNATHUS BIACULEATUS* 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 *HIPPICHTHYS* Blkr.

Ichthyocampus Kaup 231; logotype *I. BELCHERI* Kaup.

Leptonotus Kaup, 232; orthotype *SYNGNATHUS BLAINVILLEANUS* Eydoux & 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 *TYPHLUS GONDOTH* Bibron. For this name Kaup has substituted in 1856 the name *HEMITHYLACUS*. Replaces *CÆLONOTUS* Peters, 1855.
Microphis Kaup, 234; logotype *SYNGNATHUS DEOKHATA* Hanl.
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 *CONGR.*
Hyoprorus 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.
 GHENNADI 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 BLENNIOIDES* 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 simillimus* Ayres, *Johnius nobilis*, and *Seriphus politus*.) Proc. Calif. Acad. Nat. Sci., I (1857).

WILLIAM O. AYRES.

Seriphus 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 Vliet, 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 *ÆLURICHTHYS* 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 Cyprinidæ (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 novæ vel minus cognitæ*. Nat. Tijdschr. Neder-Indie, VI.

PIETER BLEEKER.

Seriolichthys Bleeker, VI, 196; orthotype *SERIOLA BIPINNULATA* 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. Petersbourg.

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 originali 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 EDUARD 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.

Hysterocharpus 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.)

Hyperprosoxon 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 PTYONOTUS 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.

Scorpaenichthys 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. EXILICAUDA Baird & Girard.

Platichthys Girard, 139; orthotype P. RUGOSUS Grd. = PLEURONECTES 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 *MERLUCCIVUS* Raf.
- Glanis** Gronow, 135; orthotype *G. IMBERBIS* Gronow = *MYSTUS CHIHALA* Ham. A species of *NOTOPTERUS*. Name preoccupied.
- Macrognathus** Gronow, 147; logotype *CENTRISCUS SCOLOPAX* L. Name preoccupied; a synonym of *MACRORHAMPHOSUS* 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 MOLUCEENSIS* 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.* Sitzb. 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 *HEPTADIODON*; 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 V.* 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.

Umbla Rapp, 32; orthotype *SALMO UMBLA* = *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 (Müller) 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. THIOILLIÈRE (1854). *Description des poissons fossiles provenant des gisements coralliens du Jura dans le Bugey.* Lyons.

VICTOR JOSEPH DE L'ISLE THIOILLIÈRE.

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 *ICTIOBUS* 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 *HYPENTELIUM* 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 *HYPOPTHALMICHTHYS* 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* Chv.

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*, *vide* 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 *OVOIDES*.

Amblyrhynchotus Bibron, 279; orthotype *TETRAODON HONCKENI* Bloch. (in French form only). Apparently distinct from *LAGOCEPHALUS* Sw.

Stenomtopus 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 *OVOIDES* Cuv.

Geneion Bibron, 280; orthotype *G. MACULATUS* Bibron. Apparently a synonym of *LAGROCEPHALUS* Sw.

Catophorhynchus Bibron, 280; orthotype *C. LAMPRIIS* 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 *TETRODON 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 = *TETRODON 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 Kokos-eilanden*. Neder. Tijdschr. Dierk., III.

PIETER BLEEKER.

Amphiprionichthys Bleeker, III, 172; orthotype *MICROPUS UNIPINNA* Gray. Replaces *MICROPUS* Gray, preoccupied.

527. BLEEKER (1855). *Bijdrage tot de kennis der ichthyologische fauna van de Batoe-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 Siboga*. Nat. Tijdschr. Neder-Indie, IX, 1855, 257-280.

PIETER BLEEKER.

Luciosoma Bleeker, IX, 258; orthotype *BARBUS* Cuv. & Val.

Schismatorhynchos Bleeker, IX, 258; orthotype *LOBOCHEILUS HETERORHYNCHOS* Blkr.

Clupeichthys Bleeker, IX, 273; orthotype *C. GONIIGNATHUS* Blkr. A synonym of *CORICA* Ham.

Epalzeorhynchos Bleeker, IX, 279, 258; orthotype *BARBUS KALOPTERUS* Blkr.

531. BRONN (1855). *Lethæa Geognostica, oder Abbildungen und Beschreibungen 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 *RHAMPHOSTERNARCHUS* Gthr., 1870. *antedate*

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 OLIGOPUS ATER Risso. Name preoccupied by GADOPSIS Rich. (1844) It may be replaced by the new name, VERATER Jordan, orthotype OLIGOPUS 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.

Homopriion 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 ENCHLYCORE Kaup (1856).

538. KAUP (1855). *Uebersicht über die Species einiger Familien der Sclerodermen*. 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.

Kentrocaptros Kaup, 221; orthotype OSTRACION ACULEATUS Houuttuyn.

Anoplocaptros Kaup, 221; orthotype A. GRAYI Kaup.

Dicotylichthys 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 Rüppell, 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 Blkr.

Clarotes Kner, XVII, 313; orthotype PIMELODUS LATICEPS Rüppell.

Pareiodon Kner, XVII, 611; orthotype P. MICROPS Kner. Spelled PARIODON by Günther.

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 *COSSYPHUS OPERCULARIS* Peters.
- Anosmius** Peters, XXI, 274; orthotype *T. TÆNIATUS* 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 *PLATOPHRY* 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 vollkommenste 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 ICHTHYOSAUROIDES Kutorga.

Homostius Asmuss, 8; orthotype H. FORMOSISSIMUS Asmuss (fossil). (Name corrected to HOMOSTEUS.)

549. BLEEKER (1856). *Beschrijvingen van nieuwe en weinig bekende vischsoorten van Amboina, versameld 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 H. 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 PLATOPHRYS Sw.

Leptocephalichthys Bleeker, I, 69; orthotype L. HYPSELOSOMA Blkr. A larval form allied to CONGER.

551. BLEEKER (1856). *Bijdrage tot de kennis der ichthyologische fauna van het eiland Boeroe*. Nat. Tijdschr. Neder.-Indie. XI.

PIETER BLEEKER.

Scorpænichthys Bleeker, XI, 385, 402; orthotype SCORPÆNA Gibbos. Name preoccupied (Girard, 1854); a synonym of SCORPÆNOPSIS Heckel.

Pholidichthys Bleeker, 406; orthotype P. LEUCOTÆNIA Blkr.

Gobiodon (Kuhl & Van Hasselt) Bleeker, 407; logotype GOBIUS HETEROSPILUS Blkr.

Culius Bleeker, 411; orthotype ELEOTRIS NIGER Blkr. = CHEILODIPTERUS CULIUS Ham. A synonym of ELEOTRIS as restricted.

Butis Bleeker, 42; orthotype BUTIS GYMNOPOMUS 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 CHELAVASTES 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 *MURÆNA CÆCA* L.; name in French only; given in Latin form, (1806). A synonym of *SPHAGEBRANCHUS* Bloch.
- Macrops** Duméril, 279; orthotype *SERRANUS ACULEATUS (OCULATUS)* Cuv. & Val. (name three times preoccupied). A synonym of *ETÉLIS* Cuv. & Val.
- Macrones** Duméril, 484; orthotype *BAGRUS LAMARRII* Cuv. & Val. Name preoccupied 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 PAPILLOSUS* Cuv. & Val. Latinized as *DIPLOMYSTES* by Bleeker; *DIPLOMYSTAX* by Günther.
- Hydrocion** "ou mieux *HYDROCYNUS* Duméril," restricted to "une seule espèce du Nil" (*HYDROCYNON 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.
- Artemius** 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 TINGELLA* 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.
Cælodus 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.
- Pœcilocephalus** Kaup, 43 (5); orthotype *P. BONAPARTEI* Kaup. A synonym of *OPHICHTHUS* Ahl.
- Microdonophis** Kaup, 43 (6) orthotype *M. ALTIPINNIS* Kaup. A synonym of *OPHICHTHUS*.
- Cœciliophis** 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 *ELAPSOPSIS*). A synonym of *OPHICHTHUS*.
- Mystriophis** Kaup, 45 (10); orthotype *OPHISURUS ROSTELLATUS* Rich.
- Murænopsis** (Le Sueur) Kaup, 46 (11); orthotype *MURÆNOPSIS OCELLATUS* Le Sueur. This name was not used by Le Sueur, who wrote *MURÆNOPSIS* after Lacépède.
- Echiopsis** Kaup, 46 (13); orthotype *OPHISURUS INTERTINCTUS* Rich. A synonym of *MYSTRIOPHIS* Kaup. *Spelled Echiopsis in Kaup's*
- 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 *PISODONOPHIS* 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 *SPHAGEBRANCHUS* 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. CRUDELIS* 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* Bonnaterre.
- Thyrsoidea** Kaup, 60 (74); tautotype *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 *EVENCHELYS* J. & E.
- Limamuræna** 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 *CÆLONOTUS* 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).
- Ischyrhiza** 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 *EDAPHODON*.
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. EXTINGUUS* Leidy (fossil). A synonym of *PETALODUS*.

569. LEIDY (1856). *Description of Two Ichthyodorulites (Stenacanthus nitidus and Cyllindracanthus 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*.

Cyllindracanthus 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.

Protosphyraena Leidy, 56, VIII, 302 (and XI, 95); orthotype *P. FEROX* Leidy (fossil).

Cimolichthys Leidy, VIII, 302 (also XI, 95); orthotype *C. LEWESIENSIS* 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 *EURYLEPIS* Newberry (1857).

Compsacanthus Newberry, 100; orthotype *PLEURACANTHUS LÆVIS* 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 (UENSTEDTI)*, 48.
- SCHEDIOSTEUS (MUSTELENIS)*, 49.
- COCCOPELTUS (ASMUSSI)*, 50.
- CYPHOMALEPIS (EGERTONI)*, 51.
- TRACHYLEPIS (FORMOSA)*, 52.
- STIGMOLEPIS (OWENI)*, 53.
- DASYLEPIS (KEYSERLINGI)*, 54.
- LOPHOLEPIS (SCHMIDTI)*, 55.
- DICTYOLEPIS (BRONNI)*, 56.
- ONISCOLEPIS (MAGNA, etc.)*, 58.
- MELITTOMALEPIS (ELEGANS)*, 60.
- PHLEBOLEPIS (ELEGANS)*, 60.
- PRIONACANTHUS (DUBIA)*, 70.

Stigmolepis Pander, 53; orthotype *S. OWENI* Pander (fossil).

Cœlolepis Pander, 56; logotype *C. LÆVIS* 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. GLADER* Pander (fossil). A synonym of
THELODUS Ag.
Thelelepis 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*.

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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). *Stoppiani Studii Geol. e Paleontol.* 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.
- Cirrhichthys** 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 *SCORPÆNA POLYLEPIS* Blkr. Replaces *SEBASTOPSIS* Gill.
- Eleotriodes** Bleeker, XIII, 372; orthotype *E. SEXGUTTATA* Blkr. *E. HELDSINGENI* 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). *Paleolithologic 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 *RHABDOLEPIS* Troschel).
- Microdus** Emmons, VI, 48; orthotype *M. LÆVIS* 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 *CHIRUS CONSTELLATUS* Grd. (male of *H. DECAGRAMMUS*). A synonym of *HEXAGRAMMOS* Steller.
- Zaniolepis** Girard, IX, 202; orthotype *Z. LATIPINNIS* Grd. Misquoted as *ZANIODERMIS* by Günther (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 *TETRAODON* of Bibron. *T. LINEATUS* L. may be assumed as type. A synonym of *TETRAODON* 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 *THYSANOCHEILUS* 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** Rüttimeyer, I, 561; orthotype *E. TERETIROSTRIS* Rüttimeyer (fossil). A synonym or fossil homologue of *ISTIOPHORUS*.
591. TROSCHEL (1857). *Beobachtungen über die Fische in den Eisenmieren des Saarbrücker Steinkohlgebirges.* Verh. Naturh. Ver. Preuss. Rheinl. Westphal.
FRANZ HERMANN TROSCHEL.
- 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; othotype *P. FORMOSUM* Wagner (fossil).

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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 Fræbel*. Proc. Boston Soc. Nat. Hist., VI.
LOUIS AGASSIZ.
- Parachromis** Agassiz, VI, 401; orthotype *P. GULOSUS* Ag. (not identifiable, said to be a CICHLID (CHROMID) resembling *DENTEX*, but with the lateral line broken. Probably a synonym of *CICHLAURUS* Sw.
- Hypsophrys** Agassiz, VI, 401; orthotype *H. UNIMACULATUS* Ag. No description. A CICHLID said to resemble *CHRYSOPHRYS* (*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 *BOOPS* 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 *H. 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 IMBERBIS* T. & S.
- Congerodon** (Kaup) Bleeker, 29; orthotype *C. INDICUS* Kaup MS. = *COGRUS LEP-
TURUS* 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. FLEUROTENIA* 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 Borneo, 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.

Hexanematichthys Bleeker, V, 2; orthotype *BAGRUS SUNDAICUS* Blkr.

Sciadeichthys 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 STENOPELTIS* Kner. 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.

Octonematichthys 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 PININAMPU* Spix.

Auchenaspis Bleeker, 198; orthotype *PIMELODUS BISCATATUS* Geoffroy. Name preoccupied; 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; tautotype *SILURUS CRYPTOPTERUS* Blkr. Corrected to *CRYPTOPTERUS* by Günther.
Kryptoptericthys 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* Mitchill.
Aspredinichthys Bleeker, 328; orthotype *ASPREDO TIBICEN* Temminck.
Bunocephalichthys Bleeker, 329; orthotype *BUNOCEPHALUS VERRUCOSUS* Kner.
Piratinga Bleeker, 355; orthotype *BAGRUS RETICULATUS* Kner.
Platynematischthys Bleeker, 357; orthotype *BAGRUS PUNCTULATUS* Kner.
Piramutana Bleeker, 355; orthotype *BARGUS 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). *Vischsoorten gevangen bij Japara, versameld 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. CAECUTIENS* Blyth.
606. BRONN (1858). *Beiträge zur triasischen Fauna und Flora der bituminösen Schiefer von Raibl in Kärnthen.* 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 *GADELLA* 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; logootype **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 subfamilie 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 Pimelodinae 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 familie 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.
Pœcilurichthys 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. RIISEI* 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 angränzenden 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 *DIPLOPTERAX*.
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 Gadidæ*. Arch. Naturg., 1858, XXIV, pt. 1.

JOHANN JACOB KAUP.

- Xenoccephalus** Kaup, 83; orthotype *X. ARMATUS* Kaup.
Physiculus Kaup, 88; orthotype *P. DALWIGKII* Kaup.
Lotella Kaup, 88; orthotype *LOTA PHYCIS* T. & S.
Molvella Kaup, 90; orthotype *M. BOREALIS* Kaup = *GADUS MUSTELA* L. A synonym of *CILLATA* Couch.
Brotella Kaup, 92; orthotype *BROTULA IMBERBIS* T. & S. A synonym of *SIREMBO* 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 Soleinæ*, 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.**Eurypleura** 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.**Areliæ** 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*. *POLEMIIUS* must be regarded as a synonym of *PTERICHTHYS* Sw. if *APISTUS* is rejected.**Cocotropus** Kaup, 333; orthotype *CORYTHOBATUS ECHINATUS* Cantor.**Peristethus** 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 *PSEUDOBLENNIIUS* 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, III, 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*.

Platycormus 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.

FRIEDERICH 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 *COCCODERMA*.

634. REINHARDT (1858). *Stegophilus insidiosus, en ny mallefisk fra Brasilien og dens levemaade*. 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 sédimentaires 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 Bugey, 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 *IONOSCOPIUS* 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 "*EXOCETUS MESOGASTER*" = *EXOCETUS 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 *KROHNIUS*, 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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| <p>Abeona, <i>s</i>, 258
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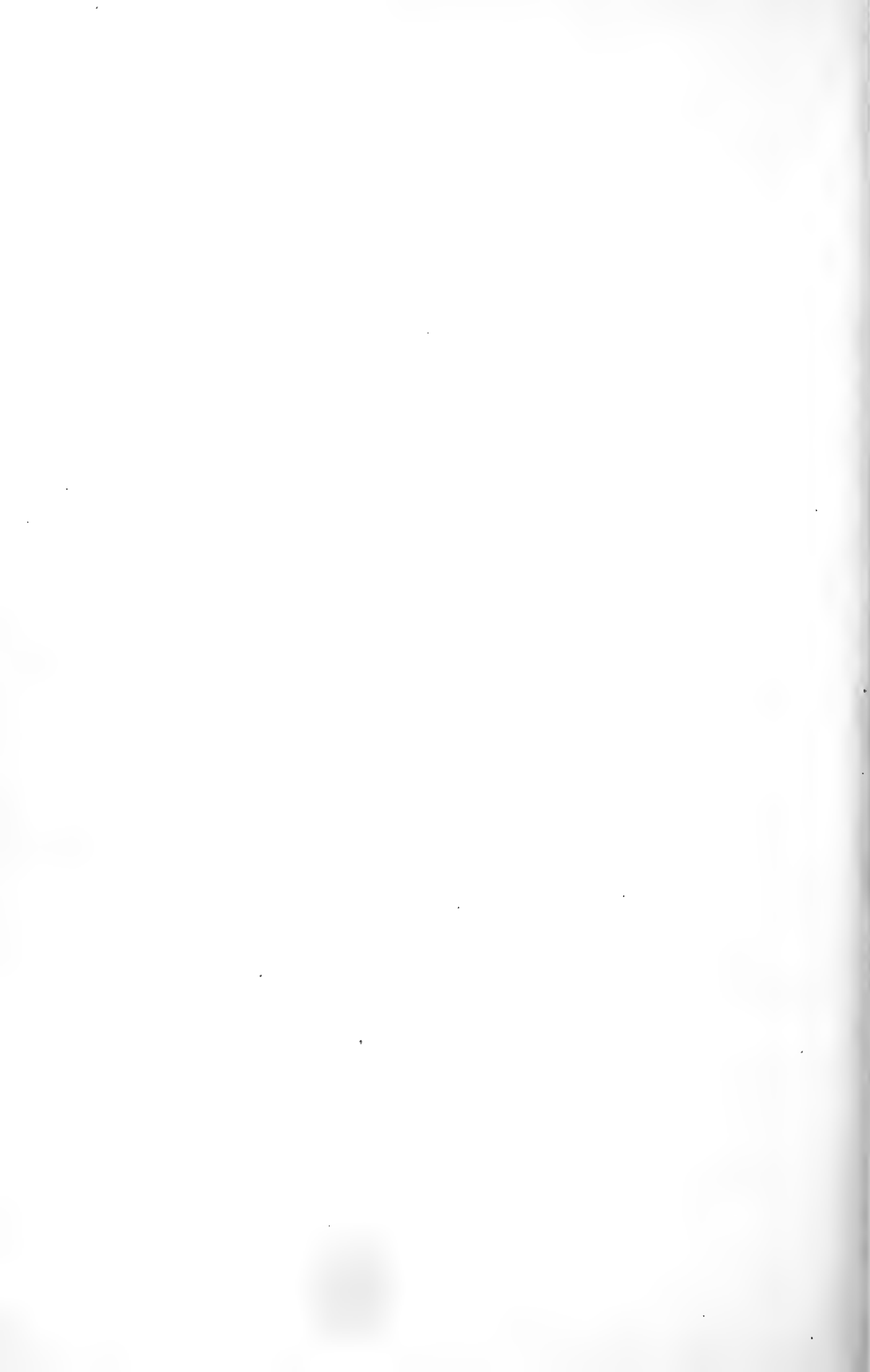
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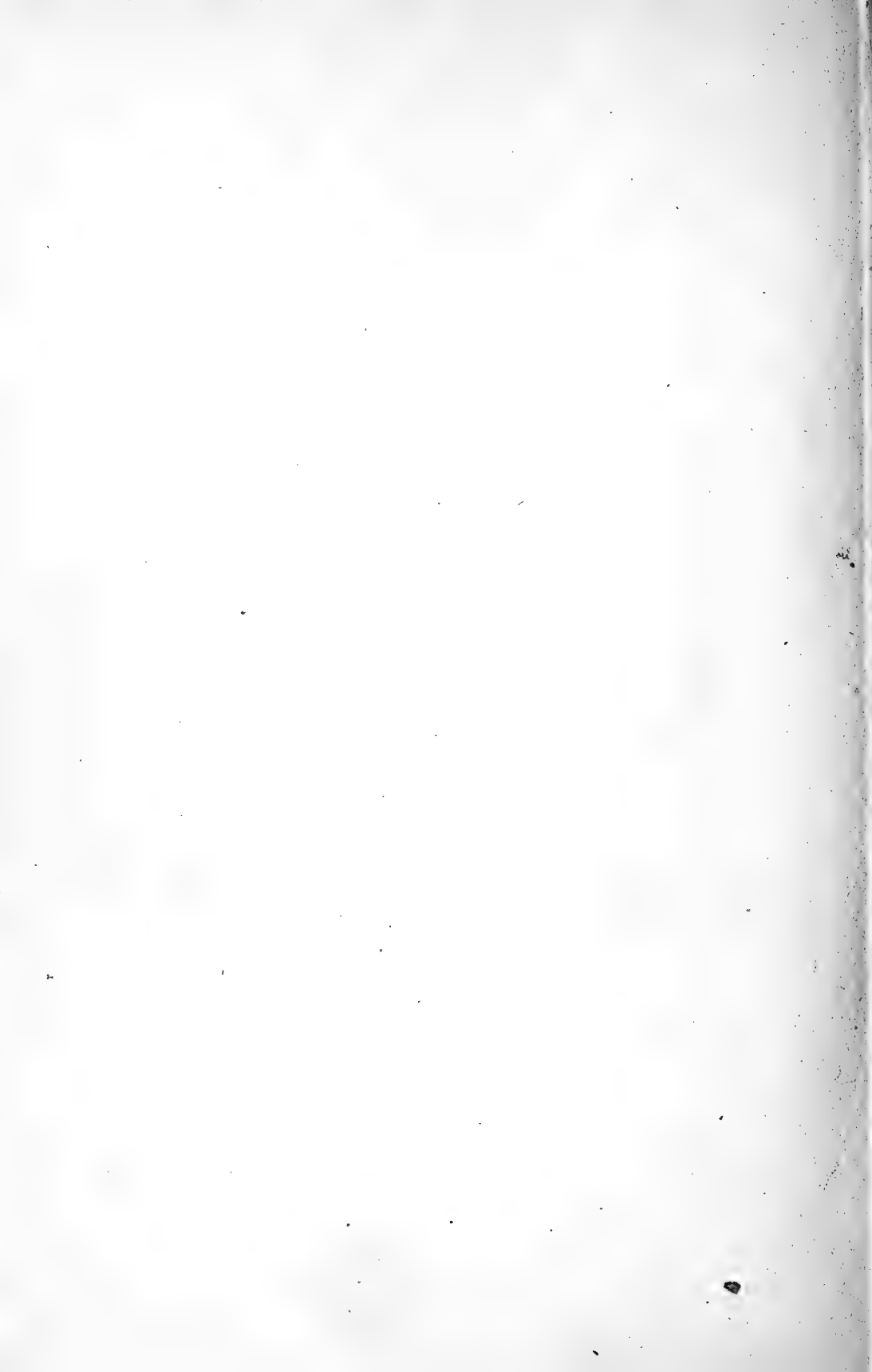
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- THE DUDLEY MEMORIAL VOLUME. Papers by William Russell Dudley, late Professor of Botany, and Several Colleagues. 137 pp., 12 text figures, 9 plates. 1913. Price \$1.00.
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PRESS

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). *Vischsoorten 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 ASPIDOFARIA Heckel.

Acanthobrama Bleeker, 102; orthotype A. SIMONI Blkr.

Pseudoxiphophorus Bleeker, 102; orthotype XIPHOPHORUS 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.) *and in Kustaan 44p.*

PIETER BLEEKER.

Lissorhynchus Bleeker, 422; tautotype GOBIO LISSORHYNCHUS Ham. Recorded later by Bleeker as a synonym of GARRA Ham.

Diplocheilichthys Bleeker, 423; orthotype LOBSCHEILOS PLEUROTÆNIA 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. LÆVIS 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 SEMILOTUS McCl.

Opistocheilus Bleeker, 425; orthotype O. PROPRIUS 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 CIRRHINA Cuv.

- Acheilognathus** Bleeker, 427; orthotype *A. MELANOGASTER* 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 *SYSTEMUS 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 *SYSTEMUS BELINKA* McCl.
Anematchthys 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* Basilevsky.
Leptobarbus Bleeker, 432; orthotype *BARBUS HOEVENI* Blkr.
Trinematchthys 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 *IDUS*.
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* Poey.

642. BLEEKER (1859). (*Palinurichthys*.) Enumeratio piscium archipelago Ind.
 PIETER BLEEKER.

- Palinurichthys** Bleeker, 22 (Nov., 1859); orthotype *CORYPHÆNA PERCIFORMIS* Mitchell. 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 Salarianae 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 Callophysus*. Proc. Acad. Nat. Sci. Phila., 1859 (1860).

THEODORE NICHOLAS GILL.

Pimelotopsis 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 *URANOSCOPIUS 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 *GOBIUS FLAVIMANUS* T. & S.
- Rhinogobius** Gill, 145; orthotype *R. SIMILIS* Gill.
- Glossogobius** Gill, 146; orthotype *GOBIUS 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 *XIPHI-DIUM*, replaced by *XIPHISTER* J. & G., 1880.
- Thaleichthys** Girard, 325; orthotype *P. STEVENSI* Grd. = *SALMO PACIFICUS* Rich.

Ichthyomyzon Girard, 379; logotype *PETROMYZON ARGENTUS* Kirtland = *AMMO-CÆTES CONCOLOR* Kirtland.

Scolecossoma Girard, 384; haplotype *AMMO-CÆTES 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.

Orthopristsis 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, I, 12; orthotype *HOPLOSTETHUS CORNUTUS* Cuv. & Val.

Percalabrax (Schlegel) Günther, I, 71; orthotype *LABRAX JAPONICUS* J. & S.

Trachypoma Günther, I, 167; orthotype *T. MACRACANTHUS* Gthr.

Pogonoperca Günther, I, 169; orthotype *P. OCELLATA* Gthr.

Anyperodon Günther, I, 210; orthotype *SERRANUS LEUCOGRAMMICUS* Cuv. & Val.

Oligorus Günther, I, 251; orthotype *GRYSTES MACQUARIENSIS* Cuv. & Val.

Odontonectes Günther, I, 265; orthotype *CÆSIO ERYTHROGASTER* Kuhl & Van Hasselt.

Hyperglyphe Günther, I, 337; orthotype *DIAGRAMMA POROSA* Rich.

Synagris (Klein) Günther, I, 373; logotype *DENTEX FURCOSUS* Cuv. & Val. A section under *NEMIPTERUS* Sw., not *SYNAGRIS* Klein as restricted.

Pachymetopon Günther, I, 424; orthotype *P. GRANDIS* Gthr.

Proteracanthus Günther, I, 426; orthotype *CRENIDENS SARISSOPHORUS* Cantor.

Tephraeops Günther, I, 431; tautotype *CRENIDENS TEPHRAEOPS* Rich.

Gymnocrotaphus Günther, I, 432; orthotype *G. CURVIDENS* Gthr.

Lembus Günther, I, 505; orthotype *L. MACULATUS* Gthr. A synonym of *GOMBIOMORUS* 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 **HYPOPTHALMUS MARGINATUS** Cuv. & Val. Name preoccupied in Salamanders. A synonym of **HYPOPTHALMUS** 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.
- Rhytidodus** Kner, XVII, 165; logotype *R. MICROLEPIS* Kner.
- Centrophorus** Kner, XVII, 167; orthotype **PAREIODON MICRUPS** Kner. Name preoccupied in sharks. Intended as a substitute for **PAREIODON**, 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 & Lorioi, III, 2; orthotype *S. NEOCOMIENSIS* Pictet (fossil).
- Crossognathus** Pictet & Lorioi, 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 *BROSOMPHYCIS* Gill.

Seriphus Ayres, II, 80; orthotype *S. POLITUS* Ayres.

Camarina Ayres, 81; orthotype *C. NIGRICANS* Ayres. A synonym of *GIRELLA* Gray.

669. BLEEKER (1860). *Over eenige 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 *CHÆRODON* 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. HYPOPHthalmus* Blkr.

Bagrichthys Bleeker, 54; orthotype *BAGRUS HYPSELOPTERUS* Blkr.

672. BLEEKER (1860). *Negende bijdrage tot de kennis der vischfauna van Sumatra*. *Visschen uit de Lematang-Enim 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 Bornco*. 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 GOBIUS 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.
Sciænoïdes 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. BERDMOREI Blyth. A synonym of BOTIA Gray.
Prostheacanthus Blyth, 167; orthotype P. SPECTABILIS Blyth. A synonym of ACANTHOPSIS Van Hasselt.
Pangio Blyth, 169; orthotype COBITIS 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 (Brisout de Barneville) Canestrini, 305; orthotype not named; teeth on vomer, none on pelatines; 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 ANOPIOS Cuv. & Val. (young of U. Y-GRÆCUM Cuv. & Val).

Palinurichthys Gill, 20 (Jan., 1860); orthotype CORYPHÆNA 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; Sicydianæ*. 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 LENTIPES 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 GOBIO 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 Ctenolabres (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 *URANOSCOPIUS ANOPILOS* Cuv. & Val. A synonym of *ASTROSCOPUS* Gill.
- Anema** Günther, 229; logotype as restricted by Gill, 1861, *URANOSCOPIUS ANOPILOS* Cuv. & Val. A synonym of *ASTROSCOPUS* Brevoort.
- Kathetostoma** Günther, 231; orthotype *URANOSCOPIUS LÆVIS* 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** Günther, II, 332; orthotype *POLYNEMUS POLYDACTYLUS* Vahl.
- Dicrotus** Günther, II, 349; orthotype *D. ARMATUS* Gthr.
- Hypsiptera** Günther, II, 386; orthotype *H. ARGENTEA* Gthr. A larva related to *GAIDROPSARUS* Raf.
- Neptomenus** Günther, II, 389; orthotype *N. BRAMA* Gthr.
- Pammelas** Günther, II, 485 (June); orthotype *CORYPHÆNA PERCIFORMIS* Mitchill. 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 aalähnliche 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 *H. SCHMIDTI* Kaup.
- Pridonophis** 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 *H. PENTACANTHUS* Kaup. A synonym of *CICHLAURUS* 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. BARBATUS* Kaup. A larva, allied to *STOMIAS*.
- Porobronchus** Kaup, V, 272; orthotype *P. LINEARIS* Kaup. A larva of *CARPUS* (*FIERASFER*).
695. KAUP (1860): *Ueber die Chaetodontideæ*. Wieg. Archiv. Naturg., XXVI, pt. I, 133-156.
JOHANN JACOB KAUP.
- Citharædus** Kaup, 136; logotype *CHÆTODON ORNATISSIMUS* Solander.
- Coradion** Kaup, 137; orthotype *CHÆTODON CHRYSOZONUS* Kuhl & Van Hasselt.
- Eteira** Kaup, XXVI, 137; orthotype *CHÆTODON TRIANGULARIS* Rüppell. A synonym of *MEGAPROTODON* Guich.
- Linophora** Kaup, 137; orthotype *CHÆTODON AURIGA* Forskål.

- 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). *Primitiva Musei 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 Ciegos 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. OCVLATUS* Poey.

- Inermia** Poey, II, 193; orthotype *I. VITTATA* Poey. An ally of *EMMELICHTHYS* Rich.
- Furcaria** Poey, II, 194; orthotype *F. PUNCTA* Poey. An ally or subgenus of *CHROMIS* Cuv.
- Sphyrænope** Poey, II, 249; orthotype *S. BAIRDIANUS* Poey.
- Joturus** Poey, 263; orthotype *J. RICHARDI* Poey.
- Erotelis** Poey, II, 273; orthotype *E. VALENCIENNESI* Poey = *ELEOTRIS SMARAGDUS* Cuv. & Val.
- Chonophorus** Poey, II, 274; orthotype *C. BUCCULENTUS* Poey = *GOBIOUS BANANA* Cuv. & Val., probably = *GOBIOUS TAIASICA* Lichtenstein. Replaces *AWAOUS* Steind. of the same year but a few days later.
- Smaragdus** Poey, II, 279; orthotype *GOBIOUS SMARAGDUS* Cuv. & Val. = *SMARAGDUS VALENCIENNESI* Poey. A synonym of *GOBIONELLUS* Grd.
- Trifarcius** Poey, II, 305; orthotype *T. RIVERENDI* Poey. A synonym of *CYPRINODON* Lac.
- Rivulus** Poey, II, 307; orthotype *R. CYLINDRACEUS* Poey.
- Sardinia** Poey, II, 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, II, 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 SCOULERI* Rich. = *SALMO GORBUSCHA* Walbaum. (The males of the Pacific salmon taken as a genus distinct from the females.)
705. STEINDACHNER (1860). *Beitrag zum Kenntniss der Gobioiden*. Sitzb. Math. Naturw. Classe Wien., XLII.
FRANZ STEINDACHNER
- Cyclogobius** Steindachner, XLII, 284; orthotype *GOBIOUS LEPIDUS* Grd. A synonym of *LEPIDOGOBIOUS* Gill.
- Awaous** Steindachner, XLII, 289; type (after "les AWAOUS" Cuv. & Val.; *GOBIOUS OCELLARIS* Cuv. & Val. from Hawaii) "*GOBIOUS (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 *GOBIOUS*) 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. = *GOBIOUS OPLOPOMUS* Cuv. & Val. (XII, 66). Not *OPLOPOMA* Grd., 1856. Same as *CENTROGOBIUS* Blkr. (1874).
- Gobiopsis** Steindachner, XLII, 291; orthotype *GOBIOUS 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 rauteschuppige 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.

Hypocormus 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 = *HYSTERICARPUS TRASKI* Gibbons. A synonym of *HYSTERICARPUS* 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.*): *Palcontologia 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.

PHILIE DE MALPAS GREY EGERTON.

Holophagus Egerton, X, 19; orthotype *H. GULA* Egert. (fossil). A synonym of *UNDINA* Münster.

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. PŒCILOIDES* 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 *HYPSONLENNIUS* Gill, called *ISESTHES* by Jordan & Gilbert, 1881, before a definition of *HYPSONLENNIUS* 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** (Arteidi) Gill, 35; orthotype *TRICHIURUS LEPTURUS* L. A revival of a pre-Linnæan 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-Linnæan 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 *ELEOTRIS 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 SYMPHURUS 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. THRISSA Gill" (not CLUPEA THRISSA 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-Linnæan name, 1757; a synonym of ALBULA Gronow.

Isognatha (Dekay) Gill, 56; orthotype ANGUILLA OCEANICA Storer = MURÆNA 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 SPHYRNA 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-Linnæan name; same as TORPEDO Dum.

720. GILL (1861). *Synopsis of the Subfamily of Clupeinæ*, 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 THRISSA 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 Percinæ*. Proc. Acad. Nat. Sci. Phila. THEODORE GILL.

Asperulus (Klein) Gill, 46; orthotype PERCA ZINGEL L. Equivalent to ZINGEL Oken = ASPRO 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 *AMBLODON SATURNUS* Grd.

Stephanolepis Gill, 78; orthotype *MONACANTHUS SETIFER* Bennett.

724. GILL (1861). *Revision of the Genera of North American Scieninae*. 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 *AMBLODON SATURNUS* Grd. A synonym of *CHEILO TREMA* 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). *Haplodonotinae*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Haplodonotus 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 LÆVIS 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 EPHIPPUS 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 CHIROPISIS 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, XIII, 167, 259; orthotype AGONUS ACPENSERINUS Tilesius. A synonym of PODOTHECUS Gill.
Agonopsis Gill, XIII, 167, 259; orthotype ASPIDOPHORUS CHILOËNSIS Kröyer.
Leptagonus Gill, XIII, 167, 259; orthotype AGONUS SPINOSISSIMUS Kröyer.
Brachyopsis Gill, 167, 259; orthotype 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.
Champscephalus 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 diagnosticæ,"* 330-422; reprint, 1-47. Ann. Lyc. Nat. Hist. N. Y., VII, Dec., 1861.
THEODORE GILL.
Iuropsis 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." = CARCHARINUS COMMERSONIANUS Blainv. A synonym of CARCHARINUS Blainv.
Isogomphodon Gill, 35 (400); orthotype CARCHARIAS OXYRHYNCHUS 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.
Halælurus Gill, 41 (406) orthotype SCYLLIUM BURGERI M. & H.
Cephaloscyllium Gill, 42 (403); orthotype SCYLLIUM LATICEPS A. Duméril.
Parascyllium Gill, VII, 42 (412); orthotype HEMISCYLLIUM VARIOLATIUM 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 ichthyologicæ 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 APHANIU Nardo.

740. GÜNTHER (1861). *Catalogue of the Fishes of the British Museum*. III. ALBERT GÜNTHER.

Latrunculus Günther, III, 80; orthotype GOBIUS 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 ASPASMAGASTER 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, Lucio-perca volgensis Cuv. und Val. und Alburnus maculatus Kessler*. Verh. Zool. Bot. Ges. Wien, XI.

LUDWIG HEINRICH JEITTELES (1830-1883).

Alburnoides Jettelles, 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 ichtthyologi*. 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.

Hollandia 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.

Theلودus 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. ISABELLÆ* 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 HEXATELIA* Blkr.

Pseudocoris Bleeker, 97; orthotype *JULIS HETEROPTERUS* Blkr.

Pseudojulis Bleeker, 99; orthotype *P. GIRARDI* Blkr.

PlatyGLOSSUS (Klein) Bleeker, 99; orthotype *HALICHERES 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 preoccupied, 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.

Platysomatchthys Bleeker, XIII, 426; orthotype *PLEURONECTES PINGUIS* Fabricius. A synonym of *REINHARDTIUS* Gill.

Brachyprosope Bleeker, XIII, 428; orthotype *PLEURONECTES MICROCEPHALUS* Donovan = *P. KIT* Walbaum. A synonym of *CYNICOGLOSSUS* Bon.

Pseudopleuronectes Bleeker, XIII, 428; orthotype *PLATESSA PLANA* Storer.

Heteroprosope 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, *Siluroides*, 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., I, 1863, 77-122.

Pseudancistrus Bleeker, 2; orthotype *HYPOSTOMUS BARBATUS* Cuv. & Val.

Hemiancistrus Bleeker, 2; orthotype *ANCISTRUS MEDIANS* 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 LÆVIUSCULA* 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 *OXYDORAS D'ORBIGNYI* (Kröyer). A synonym of *OXYDORAS*.

Lithodoras Bleeker, 5; orthotype *DORAS LITHOGASTER* Heckel. A synonym of *CENTROCHIR* Ag.

Platydoras 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.

Amblydoras Bleeker, 6; orthotype *DORAS AFFINIS* Kner.

Brachysynodontis Bleeker, 6; orthotype *SYNODONTIS BATENSODA* Rüppell.

Pseudosynodontis Bleeker, 6; orthotype *SYNODONTIS SERRATUS* Rüppell.

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.
Pseudobagrithys 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 HEMILIOPTERUS* 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 *HYPHOPHTHALMUS* Spix.
Paracetopsis (Guichenot) Bleeker, 16; orthotype *P. BLEEKERI* Guich.
Wallago Bleeker, 17; orthotype *SILURUS ATTU* Bl. & Schn.
Silurodes Bleeker, 17; orthotype *S. HYFOPHTHALMUS* Blkr.
Catostoma (Kuhl & Van Hasselt) Bleeker, 28; orthotype *ARIUS NASUTUS* Val.
 An undefined synonym of *NETUMA* Blkr.
762. BLEEKER (1862). *Beskrivning en afdeeling 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. FICENUS* 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. RASHLEIGHANUS* 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 Dybowski, 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 Argentininaæ*. 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 Percinaæ*. Proc. Acad. Nat. Sci. Phila.
THEODORE GILL.
Chorististium Gill, 15; orthotype *L. PROPOMA 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 *UMBRINA OPHIOCEPHALA* Jenyns.
Brachydeuterus Gill, 17; orthotype *LARIMUS AURITUS* Cuv.
Odontoscion Gill, 18; orthotype *CORVINA DENTEX* Cuv. & Val.
Atractoscion Gill, 18; orthotype *OTOLITHUS ÆQUIDENS* Cuv. & Val.
Archoscion Gill, 18; orthotype *OTOLITHUS ANALIS* Jenyns.
Apsudobranchnus Gill, 18; orthotype *OTOLITHUS TOEROE* Cuv. & Val. = *CHEILODIP-TERUS ACOUPA* Lac. A synonym of *CYNOSCION* Gill.
Isopisthus Gill, 18; orthotype *ANCYLODON PARVIPINNIS* 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 *CIRRHITICTHYS* Blkr.
Dactylosargus Gill, 110; orthotype *APLODACTYLUS ARCIDENS* Rich.
Crinodus Gill, 112; orthotype *HAPLODACTYLUS LOPHODON* Gthr.
Acantholatræ Gill, 114; orthotype *CHÆTODON MONODACTYLUS* Carmichael.
Chirodactylus Gill, 114; orthotype *CHEILODACTYLUS ANTONII* Cuv. & Val.
Dactylopagrus Gill, 114; orthotype *CHEILODACTYLUS CARPONEMUS* Cuv. & Val.
Called *DACTYLOSPARUS* 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 Scombroidea*. 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 *PENTAPRION* 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, 10; orthotype *COSSYPHUS AXILLARIS* Cuv. & Val.
- Chærojulis** Gill, 142; orthotype *JULIS SEMICINCTUS* Ayres. A substitute for *HALICHERES* Rüppell, preoccupied by *HALICHERUS*; a synonym of *HEMIJULIS* Sw., as restricted by Bonaparte.
- Iniistius** Gill, 143; orthotype *XYRICHTHYS PAVO* Cuv. & Val.
- Malacocentrus** Gill, 143; orthotype *XYRICHTHYS TÆNIURUS* 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 Aulorhynchoideæ 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 CENTROPRISTES 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 OLFAJ 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 Rüppell.

Nandopsis Gill, 238; orthotype CHROMIS TETRACANTHUS Poey.

Odontoscior Gill, 238; orthotype JOHNIUS 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 THUNNUS 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 PELTS* 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.
- Trachuropops** Gill, 238; orthotype *SCOMBER PLUMIERI* 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 *GOBIUS 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. ZONIPLECTUS* Gill.
- Incidens** Gill, 244; orthotype *CRENIDENS SIMPLEX* Rich.
- Opisthistius** Gill, 245; orthotype *SCIÆNA 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.
- Evepigymnus** 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 *HYPERPROSOPON 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 *GOBIUS 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 CRYSOS* Mitchill. A section under *CARANX*.
Caularchus Gill, 330; orthotype *LEPADOGASTER RETICULATUS* Grd. (*GOBIESOX MÆANDRICUS* 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.
Gyropleurodus 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 TRIDENTATUS* Rich.
783. GILL (1862). *Synopsis of the Carangoids of the Eastern Coast of North America*. Proc. Acad. Nat. Sci. Phila.
THEODORE GILL.
Naucratorpsis 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 UYATO* 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.

Coridodax 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.

Pseudophyscis 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** Günther, IV, 407; orthotype *PLEURONECTES MEGASTOMA* Donovan.
Phrynorhombus Günther, IV, 414; orthotype *RHOMBUS UNIMACULATUS* Risso.
Brachypleura Günther, IV, 419; orthotype *B. NOVÆZEELANDIÆ* Gthr.
Engyprosopon Günther, IV, 431; *RHOMBUS MOGKII* 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 Günther, 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 *APIONICTHYS* Kaup.
Ammopleurops Günther, IV, 490; orthotype *PLAGUSIA LACTEA* Bon. A synonym of *SYMPHURUS* 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 *TEPHRITIS* 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.
Pseudomuræna Johnson, 167; orthotype *P. MADERENSIS* Johnson. A synonym of *PRIODONOPHIS* 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 Oreton 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 SUBLEVIS* (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 Schieferen 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* Eger. (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 *CORVINA AMBLYCEPS* Blkr., species named. Same as *ARGYROSOMUS* Pylaie, 1835. A synonym of *SCIÆNA* L., as restricted by Cuvier.
800. BLEEKER (1863). *Systema Cyprinoideorum 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 *LOBOCHEILOUS 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 *ACANTHOBRAMA MARMID* Heckel. A synonym of *ACANTHOBRAMA* 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 *SCIÆNA 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.
- Eurypegaseus** 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.

Orycnus 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 *THUNNUS*.

Gibbonsia Cooper, III, 108; orthotype *MYXODES ELEGANS* Cooper.

Gillichthys Cooper, 109; orthotype *G. MIRABILIS* Cooper.

807. DOÛMET (1863). *Description d'un nouveau genre de poissons de la Méditerranée*. Rev. Mag. Zool., XV.

P. NAPOLÉON DOUMET-ADANSON.

Trachelocirrus Doûmet, XV, 212; orthotype *T. MEDITERRANEUS* Doûmet. A synonym of *PSENES* Cuv. & Val. Doûmet 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). (*Platygio*.) Trans. Am. Philos. Soc., V.

THEODORE GILL.

Platygio 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 Sciænoid 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 *PTEROPHRYNOIDES* Gill, 1878. A synonym of *HISTRIO* Fischer.
Histiophryne Gill, 90; orthotype *CHIRONECTES BOUGAINVILLEI* Cuv.
Halieutichthys (Poey) Gill, 90; orthotype *H. RETICULATUS* Poey = *LOPHIUS ACULEATUS* Mitchell.
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. ARGENTUS* 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 *DASCYLLUS POLYACANTHUS* Blkr.
Pomatapiron Gill 216; orthotype *HYPSPYPOPS 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 BILUNULATUS* Cuv. & Val. A synonym of *LEPIDAPLOIS* Gill.

Achoerodus 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 *HALICHERES 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. TÆNIATUS* 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 *BRACHY-MESISTIUS* 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 Lycodidæ.* 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 *BRACHYCHIRUS* Nardo.

Deltentosteus Gill, 263; orthotype *GOBIOUS QUADRIMACULATUS*.

Coryphopterus Gill, 263; orthotype *C. GLAUCOFRÆNUM* Gill. A synonym of *RHINO-GOBIOUS* Gill.

Coryphogobius Gill, 263; obviously a lapse for CORYPHOPTERUS.

Pterogobius Gill, 266; orthotype GOBIUS VIRGO T. & S.

Synechogobius Gill, 266; orthotype GOBIUS HASTA T. & S. A synonym of ACANTHOGOBIOUS 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 CHENOGOBIOUS 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 Hemiramphinae*. 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., I.
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 Tertiar-schichten von Comen und Podused*. 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 MACROPHALMA Heckel, 1849, is pre-occupied; 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 OPIS-THOPTERUS 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 Holmberg, 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*. Paläontographica, 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. SCHAFHÄUTL (1863). *Südbayerns Lethæa Geognostica*.
 K. E. SCHAFHÄUTL (1803-1890).

Diaphyodus Schafhäütl, 246; orthotype *D. OVALIS* Schafhäütl (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 *SCIÆNA 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 *H. 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 quelque espèces inédites de Squalidæ . . . 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 Labroidi*. 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 IONOSCOPIUS PETRAROLÆ Costa (fossil).
 Name a (needless?) substitute for IONOSCOPIUS.
Hypptius Costa, 80; orthotype H. SEBASTIANI Costa. A synonym of SAUROPSIDIUM
 Costa, 1850.
Platycerhynchus Costa, VIII, 98; orthotype P. RHOMBEUS Costa (fossil). An
 indeterminable ally of BELONOSTOMUS.
851. EGERTON (1864). *On Some Ichthyolites . . . from New South Wales.*
 Quart. Journ. Geol. Soc., XX.
 PHILIE 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 Echeneidoideæ.* 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 LÆVIS = 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.
Gymnotes 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.
Hypsopsetta Gill, 195; orthotype *PLEURONICHTHYS GUTTULATUS* Grd.
Metoponops Gill, 198; orthotype *M. COOPERI* Gill = *PSETTICHTHYS SORDIDUS* Grd.
A synonym of *ORTHOPSETTA* Gill.
860. GILL (1864.) *On the Affinity of Several Doubtful British Fishes.* Proc. Acad. Nat. Sci. Phila., XVI.
THEODORE GILL.
Helminthodes Gill, 203; orthotype *OXYBELES 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 PRÆCISUS* 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 *HIPPUGLOSSOIDES* Gotsche.
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 AMBLOPLITES Raf.

865. GRAY (1864). *Notice of a Portion of a New Form of Animal (Myriosteon higginsi) Probably Indicating a New Group of Echinodermata.* Proc. Zool. Soc. London.

JOHN EDWARD GRAY.

Myriosteon Gray; orthotype M. HIGGINSI 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 PARADIPLOMYSTES 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.

Styrogenes 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.
- Scissor** 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.
- Rœstes** Günther, V, 345; orthotype **CYNOPOTAMUS MOLOSSUS** Kner.
- Rœboides** 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**.
- Dasyscopelus** Günther, V, 405; orthotype **MYCTOPHUM ASPERUM** Rich.
- Ceratoscopelus** Günther, V, 405; orthotype **SCOPELUS MADERENSIS** Lowe.
- Melamphaës** Günther, V, 433; orthotype **METOPIAS TYPHLOPS** 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 *PLOTOSUS 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.

Saurenehelys 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 Toula.* Bull. Soc. Imp. Nat. Moscou, II.

GHENNADI 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).

Paralambuca Bleeker.

This genus was not established in 1865, as here stated by Jordan, but in 1863, in Atlas Ichthyologique, III, foot note, p. 133, P. typus Blek. being noted as the type. J. M. S.



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 FULVIDRACO Rich. Replaces FLUVIDRACO Jordan & Starks.
881. BLEEKER (1865). *Paralaubuca, un genre nouveau de Cyprinoïdes de Siam*. Neder. Tijdschr. Dierk., II, 1865, 15-17.
PIETER BLEEKER.
Paralaubuca Bleeker, II, 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, II, 236; orthotype MURÆNA SAVANNA Cuv. A synonym of CYNOPONTICUS Costa.
Achirophichthys Bleeker, II, 242; orthotype A. TYPUS Blkr. A apparently the young of BRACHYSOMOPHIS.
884. BLEEKER (1865). *Systema Murænorum 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 Bouro*. Neder. Tijdschr. Dierk., II, 1865.
PIETER BLEEKER.
Tetradés 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, II, 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 PÆCILOPTERUS T. & S. A synonym of HALICHERES Rüppell (HEMIULIS 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 *SOLENICHTHYS* 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 *DIODON HYSTRIX* L., the name *DIODON* being
transferred to *DIODON ATINGA*, the first species named by Linnæus. A syno-
nym of *DIODON* 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 *DIODON 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 SCCELERATUS 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).
- Andreioleura** 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. AGENSIS* Day. A synonym of *LEPIDO-CEPHALICHTHYS* Blkr.
- Brachygramma** Day, 304; orthotype *B. JERDONI* Day. A synonym of *AMBLYPHARYNGODON* 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 Serraninae*. 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 Aëtobatis*. Ann. Lyc. N. Y., VII.
THEODORE GILL.
- Mylorhina** Gill, 136; orthotype *RHINOPTERA LALANDI* M. & H.
- Micromesus** Gill, 136; orthotype *RHINOPTERA ADSPERSA* M. & H.
901. GÜNTHER (1865). *Description of a New Characinoid Genus of Fish (Phago loricatus) from West Africa*. Ann. Mag. Nat. Hist., XV.
ALBERT GÜNTHER.
- Phago** Günther, 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.

Thysanocheilus 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 *CNI-DOGLANIS* Gthr.

Silurodon Kner, 305; orthotype *S. HEXANEMA* Kner.

Opsarius Kner, 355; orthotype *LEUCISCUS PARVUS* T. & S. A synonym of *PSEUDO-RASBORA* Btkr.

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). *Sopre alcuni Avanzi di Plagiostomi fossili del Vicentino, etc.* Atti Soc. Ital. Sci. Nat. Milano, VIII.

PAOLO LIOY (1836-).

Uropterina Lioy, VIII, 113; orthotype *U. PLATYRHACHIS* Lioy (fossil).

Alopiopsis Lioy, VIII, 403; orthotype *A. PLEJODON* Leidy (*GALEUS CUVIERI* Ag.) (fossil). A synonym of *PROTOGALEUS* and *SCOLIODON*.

Ptericephalina Lioy, 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. *Paläontographica*.

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 RHABDOLEPIS CRETACEUS Marck (fossil). Replaces RHABDOLEPIS, 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. LÆVISSIMUS 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.
Parexocætus Bleeker, III, 126; orthotype *EXOCÆTUS 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 HUCHO* 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.
Potamorrhaphis 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.* Mem. Soc. Sci. Nat. Cherbourg.
ALPHONSE GUICHENOT.
- Agonomalus** Guichenot, 252; orthotype *ASPIDOPHALUS PROBOSCIDALIS* Val.
929. KNER (1866). *Neue Fische aus dem Museum der Herren J. Casar Godeffroy & Sohn in Hamburg.* Sitzb. Akad. Wiss. Wien, LIV.
RUDOLPH KNER.
- Strabo** Kner & Steindachner, LIV, 372; orthotype *S. NIGROFASCIATUS* K. & S. A synonym of *MELANOTÆNIA* 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).
Peltoleurus 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 of Characimernes eller Karpelaxenes 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 & Kner.943. 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. TROSCHEL (1866). *Ein Beitrag zur ichthyologischen Fauna der Insel der Grünen Vorgebirges (Cape Verde Islands).* Arch. Naturg.

FRANZ HERMANN TROSCHEL.

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 INTERMEDIUS* 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 PHOTOGENIS* Cope = *PHOTOGENIS 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 *HIPPGLOSSUS 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 ÆSCULAPIUS** Bean. Revival of an old name which may be untenable as monomial 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.

Notograptus Günther, XX, 63; orthotype **N. GUTTATUS** Gthr.

955. GÜNTHER (1867). *New Fishes from Gaboon and the Gold Coast*. Ann.

Mag. Nat. Hist. Ser 3 20, 1867.

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 scombéroïdes*, 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 Spinacidæ 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. TENUISTRATUS* 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. GRINDRODI* 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 Fisico-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 Fisico-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 *MURÆNA 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 *THRISOPS MICROPODIUS* Ag. (fossil). A synonym of *EUTHYNOTUS*.
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.

Valencienea 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.

Tetragonoptrus (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 Waigiou*. 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 Planerkalke 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* (= *AULOLEPIS*).

Credemnolepis (Steinla) Geinitz, 39; orthotype not stated; name only. Apparently defined on page 48 as *CODONOLEPIS*. Said to be a synonym of *CYCLOLEPIS* Geinitz (*AULOLEPIS*).

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. STEINLAI* 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.
- Heliolepis** (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*."
- Polypterolepis** (Steinla) Geinitz, 43; orthotype a Cretaceous scale of "*CLADOCYCLUS*."
- Ptycholepis** (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 finds 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 *RAIAMAS* Jordan, 1919. "RAJAH
 MAS" 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.
Lycotrissa Günther, VII, 385; orthotype *ENGRAULIS CROCODILUS* Blkr.
Telara Günther, VII, 385; tautotype *CLUPEA TELARA* Ham. A synonym of *SETI-
 PINNA* 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 *CHÆTODON*.

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. AMBLYOPINUS* 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 gadiforme . . . 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 ORTHONOTUS* 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 SEXFASCIATA* Peters = *HAPLOCHILUS INFRAFASCIATUS* Gthr.

997. PETERS (1868). *Ueber die von Herrn Dr. F. Jagor 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 TÆNIATUM* Poey.

1000. SCHIÖDTE (1868). *Om stillings udvikling hos flynder fiskene.* Nat. Tid., V. JORGEN MATTHIAS CHRISTIAN SCHIÖDTE (1815-1884).

Bascanius Schiödte, V, 269; orthotype *B. TÆDIFER* Schiödte. A larval flounder, probably young of *PLATOPHRYS* or *SYMPHURUS*; name preoccupied as *BASCANION*.

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'Amerérique.* 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.
- Pseudaspius** 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 **HYPOPHTHALMICHTHYS** 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. MACROPTERUS* Blkr.

Pseudobrama Bleeker, IV, 253; logotype *P. DABRYI* Blkr.

Saugogobio 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.

Bleeker's Description d'une inédite de Botia de Chine et Figures du Botia elongata et du Botia no deusta. Ditto, 254-256. Figures not numbered.

- 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 Marañon.* 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. DUMÉRIŁ (1870). *Histoire générale des poissons*. Vol. II.

AUGUSTE DUMÉRIŁ.

Parapegasmus (Bleeker) Duméřil, 493; orthotype PEGASUS NATANS L.**Typhlus** (Bibron MS.) Duméřil, 540; logotype ICHTHYOCAMPUS PONDICERIANUS Kaup (in synonymy). A synonym of ICHTHYOCAMPUS Kaup.**Atelurus** Duméřil, 584; orthotype A. GERMANI Dum.**Entelurus** Duméřil, 605; orthotype SYNGNATHUS ÆQUOREUS L. A synonym of NEROPHIS Raf.**Hymenolomus** Duméřil, 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. DEPHILIPPII 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 ARTEĐII 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," Duméřil'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 EPHIPPIMUM.**Liosaccus** Günther, VIII, 287; logotype T. CUTANEUS Gthr.**Trichocyclus** 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 & ATHEY (1870). *Notes on an Undescribed Fossil from the Newsham Coalfields near Newcastle-upon-Tyne*. Ann. Mag. Nat. Hist., V.
ALBANY HANCOCK; T. ATHEY.
Archichthys Hancock & Atthey, V, 268; orthotype A. SULCIDENS Hancock & Atthey. Apparently a synonym of STREPSODUS.
1029. KLUNZINGER (1870). *Synopsis der Fische des Rothen Meeres*. I. *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.
Pristiopogon 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 Röemer, regarded as preoccupied. Both these names, being regarded as preoccupied by AGKISTRODON or ANCISTRODON Beauvais, a genus of snakes, are replaced by GRYPODON Hay, 1899.
1031. LANKESTER (1870). *Fishes of the Old Red Sandstone*. Paleont. Soc., I.
EDWIN RAY LANKESTER.
Eucephalaspis Lankester, I, 43; orthotype CEPHALASPIS LYELLI Ag. (fossil). A synonym of CEPHALASPIS.
Hemicyclaspis, Lankester, I, 43; orthotype CEPHALASPIS MURCHISONI Egert. (fossil).
Eukeraspis Lankester, I, 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, I, 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.

- Mylocyprinus** 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., I, 152-153.
JOHN STRONG NEWBERRY.
- Aspidophorus** Newberry, I, 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, I.
JAMES POWRIE.
- Cephalopterus** Powrie, I, 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 *ANAPTERUS* 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 *OSTEOGLOSSIDE*.

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 broyeur (Cestraciontes) du tertiaire aquitanien.* 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. UNITÆNIATUS* 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. GUNTHERI* Klunzinger. A synonym of *PARAPRIACANTHUS* Steind.
- Gobiichthys** Klunzinger, 479; orthotype *G. PETERSI* Klunzinger. A synonym of *OXYURICHTHYS* 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 *AËTOBATUS*.

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). *Oneirodes 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.* (Bohême).

JOACHIM BARRANDE.

Gompholepis Barrande, I, 644; orthotype *G. PANDERI* Barrande (fossil).

1058. BLEEKER (1872). *Atlas ichthyologique, etc.* VI. *Pleuronectes, Clupéés, etc.*

PIETER BLEEKER.

Leptogaster Bleeker, 168; orthotype *SPRATTELLOIDES ARGYROTÆNIA* Blkr. A synonym of *SPRATTELLOIDES* (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 ZEBRA* Rich. Same as *GIRELICHTHYS* 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. howittii* 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. adelaidæ* Castelnau.

1061. COPE (1872). *On the Fishes of the Ambyiacu River*. Proc. Acad. Nat. Sci. Phila. for 1871, 250-292 (dated Jan. 16, 1872).

EDWARD DRINKER COPE.

- Læmolyta** Cope, 258; logotype *ANOSTOMUS TÆNIATA* 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. longibarbis* 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 PROMELAS* 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 *SIPHATELES* 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 *LEUCOS* 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 *PROTOSPHYRÆNA* 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. FELTATUS* 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. DITMARI* Dybowski = *PERCA CHUATSI* Basilewsky. A synonym of *SINIPERCA* Gill.
Onychodon Dybowski, 211; orthotype *CEPHALUS MANTSCHURICUS* Basilewsky. Same as *ABRAMOCEPHALUS* Steind., both synonyms of *HYPOPHthalmichthys* 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. (*LEUCOGOBI* 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 salmonesus 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. BECKFORDI 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 NEOSPHYRÆNA 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 taniolatus, Mugil meyeri) from Celebes*. Ann. Mag. Nat. Hist., 1872, IV, ser. 9, 438-440.

ALBERT GÜNTHER.

- Symphorus** Günther, 438; orthotype S. TÆNIOLATUS 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 *NEOTE-PHRÆOPS* 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 Cataphracti Cuv., Scombrocottus salmoneus, von der Vancouver's-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 *ANOPLOPOMA* Ayres.
1081. THIOLLIÈRE (1872). *Description des poissons fossiles des gisements coralliens du Jura dans le Bugey*. (Second edition, the first in 1854.)
VICTOR JOSEPH DE L'ISLE THIOLLIÈRE.
- Attakeopsis** Thiollière, 23; orthotype *A. DESORI* Thiollière (fossil). A synonym of *IONOSCOPUS* 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 **PALÆORHYNCHUM 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** Rüppell (not **P. MELANOSOMA** Blkr., as stated by Jordan & Seale, *Fishes of Samoa*). Replaces **RUPPELLIA** 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 PLEUROTÆNIA** Blkr.

Dactylanthias Bleeker, 158; orthotype **D. APLODACTYLUS** Blkr.

Odontanthias Bleeker, 158; orthotype **ANTHIAS RHODOPELUS** Gthr.

Plectranthias Bleeker, 158; orthotype **PLECTROPOMA ANTHIOIDES** 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 Cuv. 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 **RUPPELLIA** Sw., a genus of gobies, and by a still earlier genus of insects.

Zantecla Castelnau, II, 87; orthotype **Z. PUSILLA** Castelnau. A synonym of **MELANOTÆNIA** Gill.

Ellerya Castelnau, II, 95; orthotype **E. UNICOLOR** Castelnau. A synonym of **GOBIODON** 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 *NANNOPERCA* 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.

Bleekeria 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 *CÆLANCANTHUS* 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; tautotype *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 FIGUS* Lac. A synonym of *CENISOPHIUS* Bon.
- Cephalopsis** Fitzinger, LXVIII, 152, 165; logotype *LEUCISCUS SVALIZE* 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 *LOPHOGOBIOUS* 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 Garrett's Fische der Südsee*. Band I. Journ. Mus. Godeffroy, 1873, 1-128.
ALBERT GÜNTHER.
- Gymnoscopelus** Günther, 91; orthotype *G. APHYA* 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 Triglidæ, nebst einigen Worten über die Classification*. Archiv. Naturgeschichte.
JOHANN JACOB KAUP.
- Microtrigla** Kaup, 86; logotype *TRIGLA PAPILIO* Cuv. & Val. Differs from *LEPIDO-TRIGLA* 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, Cyathaspis, and Scaphaspis*. Geol. Mag., X.

EDWIN RAY LANKESTER.

Holaspis Lankester, X, 242; orthotype *H. SERICEUS* Lank. (fossil). Name preoccupied; a synonym of *PALÆASpis* Clappole.

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. CONIDENS* 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 Pandsermaller, isaer fra det nordlige Sydamerika*. Vid. Meddel., Kjöbenhavn, 1873, 202-220.

CHRISTIAN FREDERIK LÜTKEN.

Xenomystus Lütken, 217; orthotype *X. GOBIO* Lütken. Name preoccupied; replaced by *HEMIFSLICHTHYS* 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. I. (*Devonian System*, 290-324.)

JOHN STRONG NEWBERRY.

- Cyrtacanthus** Newberry, I, 306; orthotype *C. DENTATUS* Newberry (fossil). Probably a synonym of *ERISMACANTHUS*.
Liognathus Newberry, I, 306; orthotype *L. SPATULATUS* Newberry. Name preoccupied by *LEIOGNATHUS* Lac.; replaced by *LISPOGNATHUS* Miller, 1892.
Rhynchodus Newberry, I, 307; orthotype *R. SECANS* Newberry (fossil).
Dinichthys Newberry, I, 313; logotype *D. HERTZERI* Newberry (fossil).
Aspidichthys Newberry, I, 322; orthotype *ASPIDOPHORUS CLAVATUS* Newberry (fossil). Replaces *ASPIDOPHORUS* Newberry, preoccupied.

1107. POEY (1873). *Grammicolepis brachiusculus, tipo de una nueva 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. HENRI ÉMILE SAUVAGE.

- Sebastopsis** Sauvage, V, 1; orthotype *SEBASTES MINUTUS* Cuv. Identical with the earlier *SEBASTOPSIS* Gill, both being synonyms of *SCORPÆNODES* 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 *ACANTHONOTOS* Sauvage, preoccupied by *ACANTHONOTUS* Bloch.
Pseudeleginus Sauvage, IV, 164; orthotype *P. ALBYI* Sauvage (fossil).
Parascopelus Sauvage, IV, 196; orthotype *SCOPELUS 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, X, 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 désignés par M. L. Agassiz sous le nom d'Etheostomatidæ*. 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.

- Astatchthys** Vaillant, IX, 106; orthotype *ETHEOSTOMA CÆRULEA* 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 INÆQUALIS* 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.

- Macruoplus** 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 *HEXAGRAMMOS* Steller.

- Parachætodon** Bleeker, VIII, 371; orthotype *CHÆTODON OLIGACANTHUS* Blkr.

1114. BLEEKER (1874). *Notice sur les genres Amblyeleotris, Valenciennesia et Brachyeleotris*. 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 *ELEOTRIDES* Blkr., 1857; a synonym of *BRACHYELEOTRIS* 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.

- Belobranchus** Bleeker, IX, 304; orthotype *B. QUOYI* Blkr.

- Gymneleotris** Bleeker, IX, 304; orthotype *ELEOTRIS SEMINUDUS* Gthr.

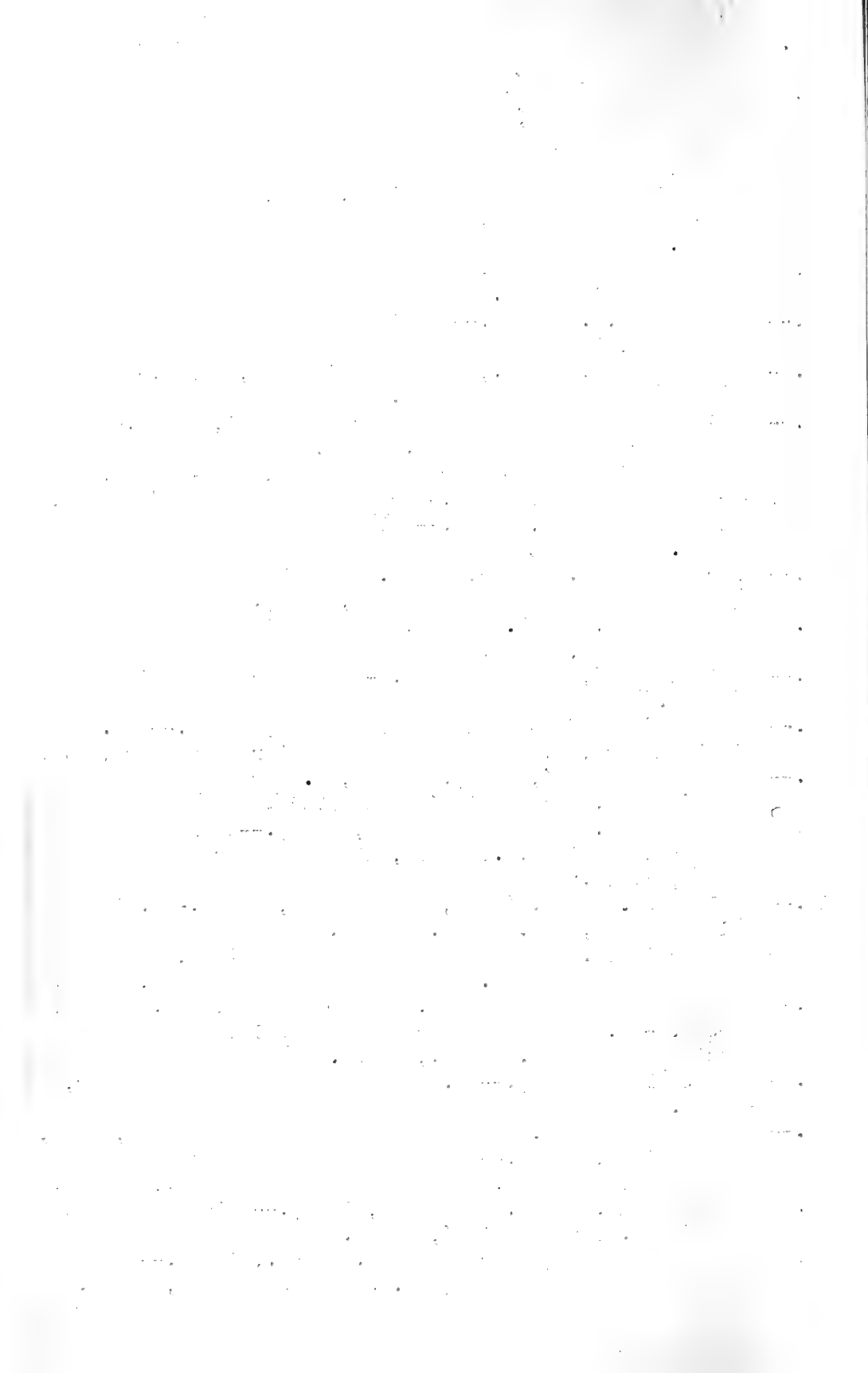
- Butis** Bleeker, IX, 304; orthotype *CHEILODIPTERUS BUTIS* Ham.

- Gymnobutis** Bleeker, IX, 304; orthotype *ELEOTRIS GYMNOCEPHALUS* Steind.

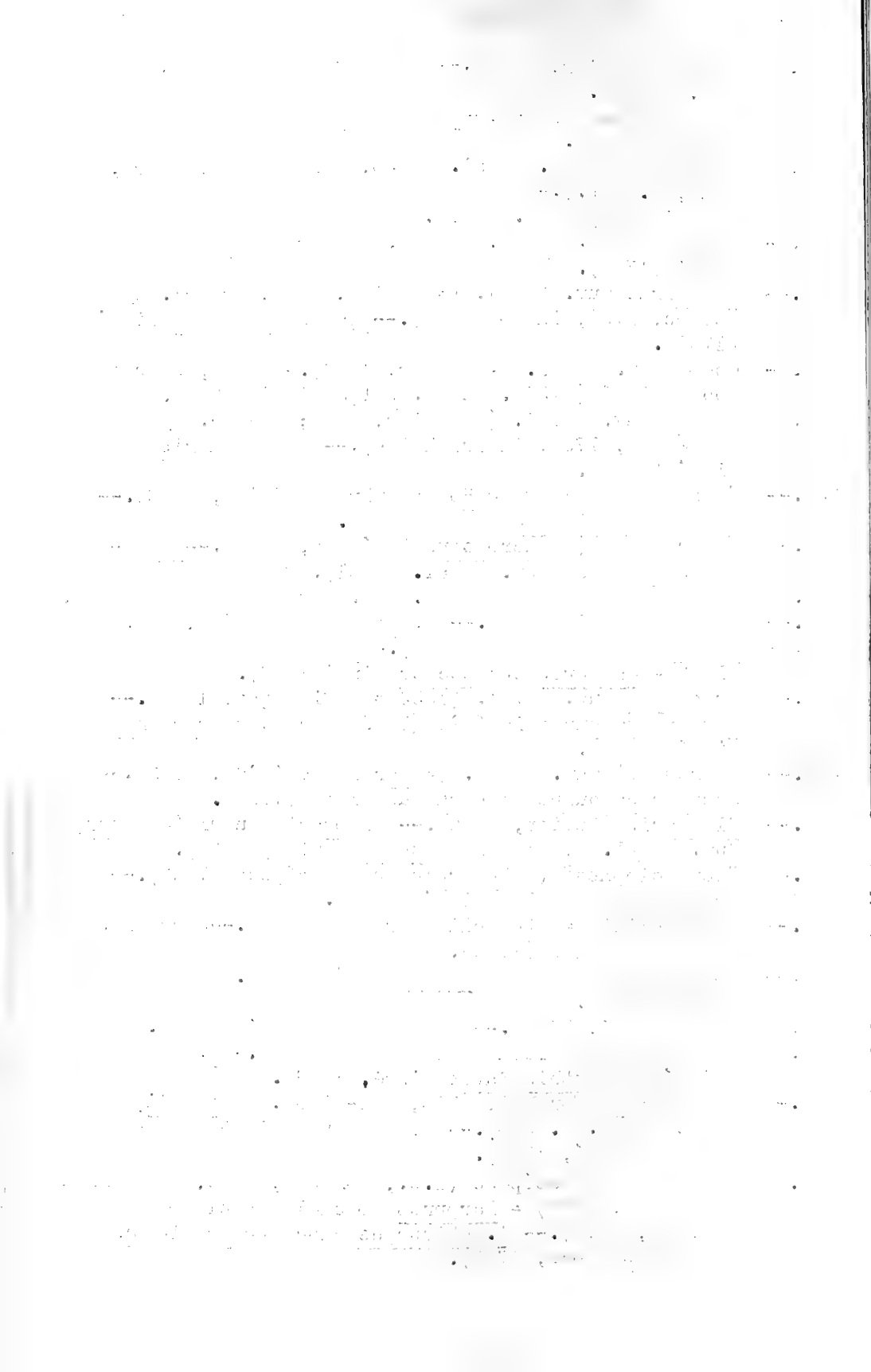
- Prionobutis** Bleeker, IX, 305; orthotype *ELEOTRIS DASYRHYNCHUS* Gthr. A synonym of *BUTIS* Blkr.

- Odontobutis** Bleeker, IX, 305; orthotype *ELEOTRIS OBSCURA* T. & S.

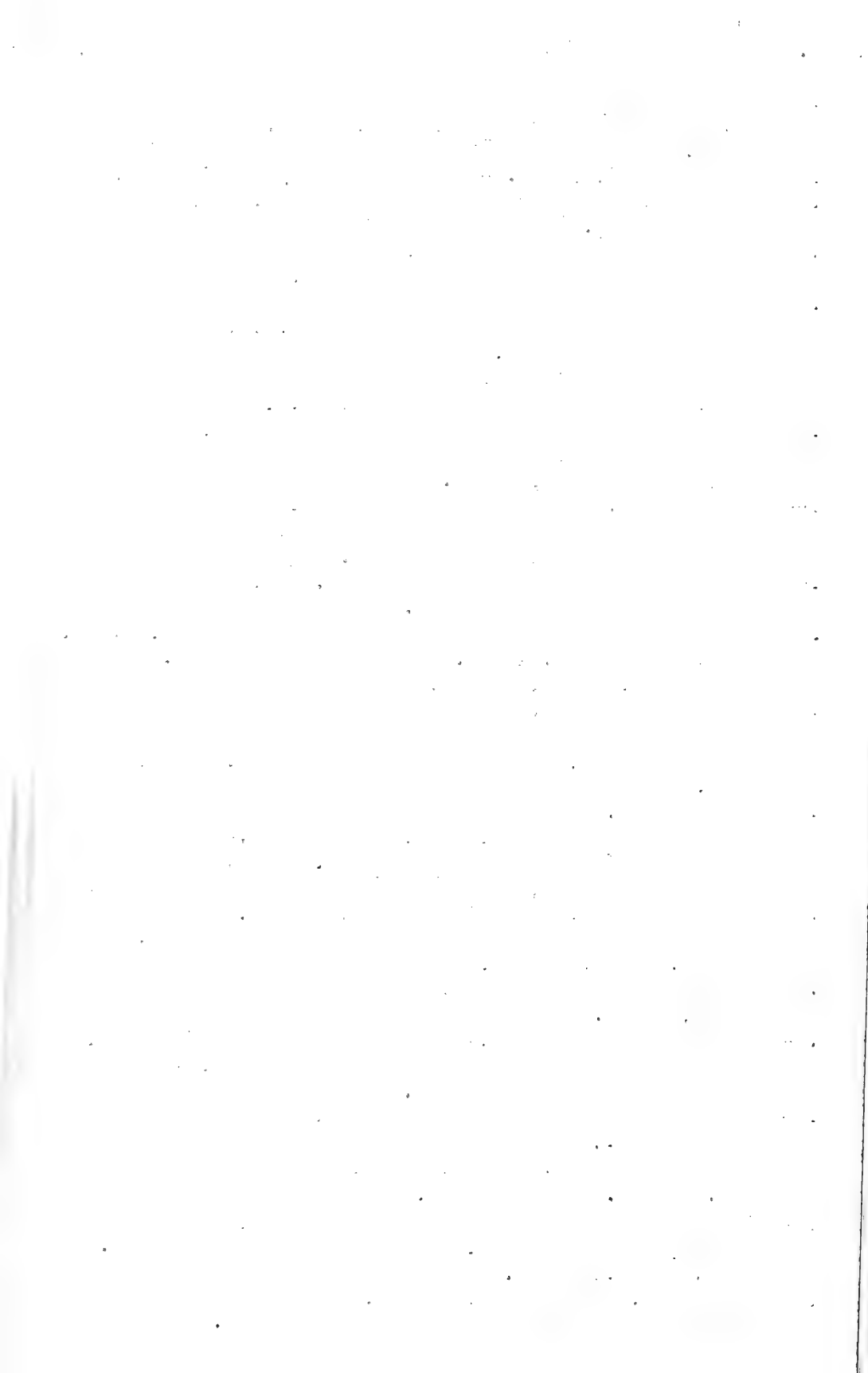
- 202.-- Perca (Linne; 1758)--Type, "Perche commune" (Perca fluviatilis Linne; 1758)
- 203.-- Lates Cuvier, 1829 (=Cuvier & Valenciennes, 1828). Types, sont Perca nicolica (sic) and minima Sonnini (= Perca nilotica Linné; 1758, and Sonnini's non-binomial species, not Perca minima Haldemann, 1842).
- 203.-- Labrax (Cuvier & Val., 1828, non Pallas, 1810).--Perca labrax Linné (1758).
- 206.-- Rypticus C.V. (1829).--Anthias saponaceus Bloch (& Schneider, 1801).
- 206.-- Pomotis (Cuv. & Val., 1829 = Rafinesque, 1819).--Labrus auritus Linné (1758).
- 207.-- Holocentrum (auctt = Holocentrus Scopoli, 1777).--Holocentrum longipinné Cuv. & Val. (1829; but the type should be Holocentrus sogo Bloch, 1790--G.P.W.).
- 207-8.--Trachinus (Linné, 1758).--Trachinus draco Linné (1758).
- 209.-- Polynemus (Linné, 1758).--Polynemus paradiseus Linné (1758).
- 209.-- Paralepis Cuv. (=Bosc, 1818).--"Paralepis coregonide" (= Paralepis coregonoides Risso, 1820).
- 210.-- Upeneus Cuv. & Val. (1829).--Mullus vittatus Forskal (= Bonnaterre, 1788).
- 213.-- Cottus Linné, 1739 (= 1758).--Cottus scorpius Linné (1758).
- 214.-- "Platycephale" (= Platycephalus Bloch, 1795).-- "p. insidiateur", Bloch (= Cottus insidiator Bonnaterre, 1788)
- 214.-- Scorpaena (Linné, 1758).--Types, S. scropha (= scrofa) Linné and S. porcus Linné (both 1758).
- 215.-- Ptérois Cuv. (= Pterois Schinz, 1822).--Scorpaena volitans Gmelin i.e., Bloch, 1787 = Gasterosteus volitans Linné, 1758).
- 215.-- Pelor Cuv. & Val. (1829, non Bonelli, 1813).--P. filamentosum, Cuv. & Val. (1829).
- 215.-- Synanceia Bl. (= Synanceja Bloch & Schneider, 1801).--Synanceia horrida Bl. (= Scorpaena horrida Linné, 1766).
- 216.-- "Hoplostethes" Cuv. & Val. (= Hoplostethus Cuv. & Val., 1829).--"H. de la Méditerranée" (= Hoplostethus mediterraneus Cuv. & Val., 1829).
- 220.-- Eques Bloch (1793).-- E. punctatus Bloch (& Schneider, 1801).
- 221.-- "Ancylo-dons" Cuv. (= Ancylo-don Cuvier and Cloquet, 1816, non Illiger, 1811).--Lonchurus ancylo-don Bloch (& Schneider, 1801) (A. jaculidens Cuvier [& Val., 1830]).
- 221.-- Umbrina Cuv. & Val. (= Cuvier, 1816).--Sciaena cirrhosa Linné (= S. cirrosa Linné, 1758).
- 223.-- "Les Etroples" (= Etroplus Cuv. & Val., 1830).--Chaetodon saratensis Bloch (= C. suratensis Bloch, 1790).



Desmarest's Page.	Genus	Genotype Selected by Desmarest.
224.--	<u>Sargus</u> (Cuvier, 1816).--	<u>Sargus rondeletii</u> Cuv. & Val. (1830).
225.--	<u>Charax</u> Risso (1826).--	<u>Sarus</u> (= <u>Sparus</u>) <u>puntazzo</u> Gmelin (1789).
225.--	<u>Chrysophrys</u> Cuv. & Val. (1830, non Quoy & Gaimard, 1824, s. str.).--	Types, <u>Sparus aurata</u> Linné (1758) and <u>gibbiceps</u> Cuv. & Val. (1830).
225.--	<u>Pagellus</u> Cuv. & Val. (1830).--	<u>Sparus erythrinus</u> Linné (1758).
226.--	<u>Cantharus</u> Cuv. & Val. (= Cuvier, 1816; preocc. by Bolten, 1798, in molluscs).--	<u>Sparus cantharus</u> Linné (1758).
226.--	<u>Boops</u> Cuv. & Val. (= Cuvier, 1816).--	Types, <u>Sparus boops</u> Linné (1758), and <u>S. salpa</u> Linné (1758).
227.--	<u>Smaris</u> Cuv. & Val. (= Cuvier, 1814; preocc. by Latreille, 1796, in Arachnida).--	<u>Sparus smaris</u> Linné (1758).
230.--	"Les Holacanthes" (= <u>Holacanthus</u> Lacépède, 1802).--	<u>Chaetodon tricolor</u> Bloch (1795).
234.--	"Macropode" (= <u>Macropodus</u> Lacépède, 1802).--	<u>Macropodus venustus</u> Cuv. & Val. (1831).
235.--	<u>Ophicephalus</u> Bloch (1793).--	<u>O. striatus</u> Bloch (1793).
236.--	<u>Scomber</u> Linné (1758).--	<u>S. scombrus</u> Linné (1758).
241.--	<u>Naucrates</u> Rafinesque (1810).--	<u>Scomber ductor</u> Linné (1762 = <u>Gasterosteus ductor</u> Linné 1758).
242.--	<u>Trachurus</u> Cuv. & Val. (1833 = Rafinesque, 1810).--	<u>Caranx trachurus</u> Lacépède (1802 = <u>Scomber trachurus</u> Linné, 1758).
242.--	"Carouges" Cuv. & Val. (= <u>Caranx</u> Lacépède, 1802).--	<u>Scomber carouges</u> (= <u>carangus</u> Bloch (1793).
242.--	<u>Blepharis</u> (Cuvier, 1816).--	<u>Blepharis sutur</u> (= <u>sutor</u>) Cuv. & Val. (1833 = <u>Zeus sutor</u> Cuvier, 1829).
244.--	"Centrolophes" (= <u>Centrolophus</u>) Lacépède (1802).--	<u>Coryphaena pompilus</u> Linné (1758).
244.--	"Pteraclis" (= <u>Pteraclis</u>) Gronow (1772).--	<u>Coryphaena velifera</u> Pallas (1770).
244.--	"Stromatées" (= <u>Stromateus</u> Linné, 1758).--	<u>S. fiatola</u> Linné (1758).
245.--	<u>Zeus</u> (Linné, 1758).--	<u>Zeus faber</u> (Linné, 1758).
246.--	<u>Amphacanthus</u> (Bloch & Schneider, 1801).--	<u>A. javus</u> (Linné) (= <u>Teuthis javus</u> Linné, 1766).
246.--	<u>Acanthurus</u> (Forskål, 1775, non-binom. = Scopoli, 1777, appen. p. 505).--	<u>A. hepatus</u> (Linné) (= <u>Teuthis hepatus</u> Linné, 1766).
247.--	"Acanthurus" Lacépède (i.e., Forskål, 1775, non-binom. = Scopoli, 1777) = <u>Harpurus</u> Forskål (should be Forster, 1778).--	<u>A. chirurgus</u> Bloch (= <u>Chaetodon chirurgus</u> Bloch, 1787).



- 247.-- Naseus Commerson (= Naso Lacépède ex Naseus Commerson, MS.)-- Naseus brevirostris Cuv. & Val. (= Cuvier, 1829).
- 252.-- Mugil (Linné, 1758).-- Mugil cephalus (Linné, 1758).
- 256.-- Anarrhichus (= Anarchichas Linné, 1758).-- A. lupus (Linné, 1758).
- 258.-- Taenioides (Lacépède, 1800).-- "T. Hermannien" (= Taenioides hermannii Lacépède, 1800).
- 259.-- "Dormeurs" (apparently Eleotris Gronow, 1763, non-binom. = Scopoli, 1777, is meant--G.P.W.)--Types, Eleotris gyrinus Val. (= Cuv. & Val., 1837) and nigra Quoy & Gaimard (1824). (But tautotype of Eleotris is E. electris Meuschen, 1778--G.P.W.).
- 259.-- "Philypnes" (= Philypnus Cuv. & Val., 1837).-- Eleotris dormitatrix Cuv. (1829 = Platycephalus dormitator Bloch & Schneider, 1801).
- 264.-- "Malte" Cuv. (= Malthe Cuvier, 1816).-- "le Malthée vespertilion" (Malthe vespertilio Cuv., 1816 = Lophius vespertilio Linné, 1758).
- 264.-- Batrachus Bloch & Schneider (1801).-- "B. grannicus Bloch" (= grannicus Minding, 1832).
- 266.-- "Les Cossyphes, Valenciennes" (= Cossyphus Cuv. & Val., 1839, non Dumont, 1823).-- Cossyphus muldat Val. (= maldat Cuv. & Val., 1839).
- 267.-- "Crénilabres, Cuv., ou Lutjan Bloch" (= Crenilabrus Cloquet, 1818, or Lutjanus Bloch, 1790).-- Labrus pavo Brunnich (1768, non Linné, 1758, fide Cuv. & Val., Hist. Nat. Poiss., xiii., 1839, p. 149).
- 268.-- Julius, Cuv. (= Julis Cuvier, 1814 = Julius Lafont, 1871; not Julus Linné, 1758, a Myriapod).-- Labrus julius Linné = Julius vulgaris Cuv. & Val. (= Labrus julis Linné, 1758, and Julis vulgaris Cloquet, 1820).
- 268.-- Xyrichtys Cuv. (= Xyrichtys Cuv., 1815).-- Coryphaena novacula Linné (1758) = Xyrichtys cultratus Val. (= Cuv. & Val., 1839).
- 272.-- Fistularia (Linné, 1758).-- F. tabacaria Bloch (= Linné, 1758).
- 276.-- Silurus (Linné, 1758).-- Silurus glanis Linné (1758).
- 277.-- "les Schibbés (sic)" (= Schilbe Bosc, 1819).-- Silurus mystus Linné (1758).
- 277.-- "les Bâgrés" (= Bagrus Bosc, 1816).--Types, "Silurus bayad Forsk., Gmel." (= bajad Bonnaterra, 1788 = Bagrus bayad Cuv. & Val., 1839), and Bagrus nigrita Val. (= Cuv. & Val., 1839).
- 278.-- "Platystomes" Agassiz (= Platystoma Spix, 1829, non Meigen, 1803, diptera).-- Platystoma vaillantii Val. (Cuv. & Val., 1840).
- 278.-- Arius Val. (= Cuv. & Val., 1840).-- Pimelodes rita Buchanan (= Pimelodus rita Hamilton, 1822).



- 279.-- Synodontis (Cuvier, 1816).--Pimelodus synodontis
Etienne Geoffroy [= P. synodontes Isid Geoff., 1827]
= Synodontis macrodon Isidore Geoffroy (1827) =
Silurus clarias Hasselquist (= Linné, 1758).
- 280.-- Doras (Lacépède, 1803).-- Doras castatus Lac. (D.
costatus Lacépède, 1803 = Silurus costatus Linné.
- 280.-- Callichthys (= Callichthys Gronow, 1763).-- Silurus
callichthys (= callichthys Linné, 1758).
- 280.-- "Hétérobranches" d'Et.-Geoff. (= Heterobranchus I.
Geoff., 1827).-- Heterobranchus bidorsalis Etienne
Geoffroy (= I. Geoffroy, 1827).
- 282.-- Aspredo (= Cuvier, 1816 = Scopoli, 1777).--Silurus
aspredo Linné (1758).
- 283.-- Loricaria Lacépède (= Linné, 1758).--Loricaria
cataphracta Linné (1758).
- 283.-- "Hypostomes" Lac. (= Hypostomus Lacépède, 1803).--
Loricaria plecostomus Linné (1766).
- 287.-- Cyprinus Linné (1758).--Cyprinus carpio Linné (1758).
- 292.-- "les Tanches" (= Tinca Geoffroy, 1767).--Cyprinus
tinca Linné (1758).
- 293.-- Rhodeus Agassiz (1832).--Cyprinus amarus Bloch (1782).
- 293.-- "Chondrostomes" Ag. (= Chondrostoma Agassiz, 1836).--
Cyprinus nasus Linné (1758).
- 293.-- Scardinius (= Scardinius) Ch. Bonaparte (1840).--
Cyprinus erythrophthalmus Bloch (= Linné, 1758).
- 295.-- "les Catostomes Lesueur" (= Catostomus Lesueur, 1817).--
Catostomus communis Lesueur (1817).
- 295.-- "Sclérogathe Val." (= Sclerognathus Cuv. & Val., 1844).--
Catostomus cyprinus (Lesueur, 1817).
- 295.-- "Exoglossés" Rafinesque (= Exoglossum Rafinesque, 1818).
Cyprinus maxillingua Lesueur (1817) = Exoglossum
lesueurianum Rafinesque (1818).
- 296.-- Anableps Bloch (= Scopoli, 1777).--Anableps gronovii
Val. (= Cuv. & Val., 1846) = Cobitis anableps Linné
(1758).
- 297.-- Lebias Cuv. (1816, vernac. = Lesbias Bosc*, 1817).--
Lebias calaritana Bonelli (= Cyprinodon calaritanus
Cuv. & Val., 1846, ex Bonelli MS.).
- 299.-- Galaxias Cuvier (1816).-- Esox truttaceus (Cuvier, 1816).
- 300.-- "Scombrésoces" Lacépède (= Scomberesox Lacépède, 1803).
Esox saurus Bloch (& Schneider, 1801).
- 302.-- Clupea Val. (= Linné, 1758).--Clupea harengus Linné
(1758).
- 306.-- Alausa Cuvier (& Val., 1847 = Alosa Cuv., 1829).--
Clupea alausa Linné (= alosa Linné, 1758) = Alausa
vulgaris Val. (= Cuv. & Val., 1847).
- 309.-- Elops Linné (1766).-- Elops saurus Linné (1766)

* Bosc., Nouv. Dict. Hist. Nat., ed. 2, xvii., 1817, p. 498,
is earliest latinization of "Lebias" I have been able
to find.

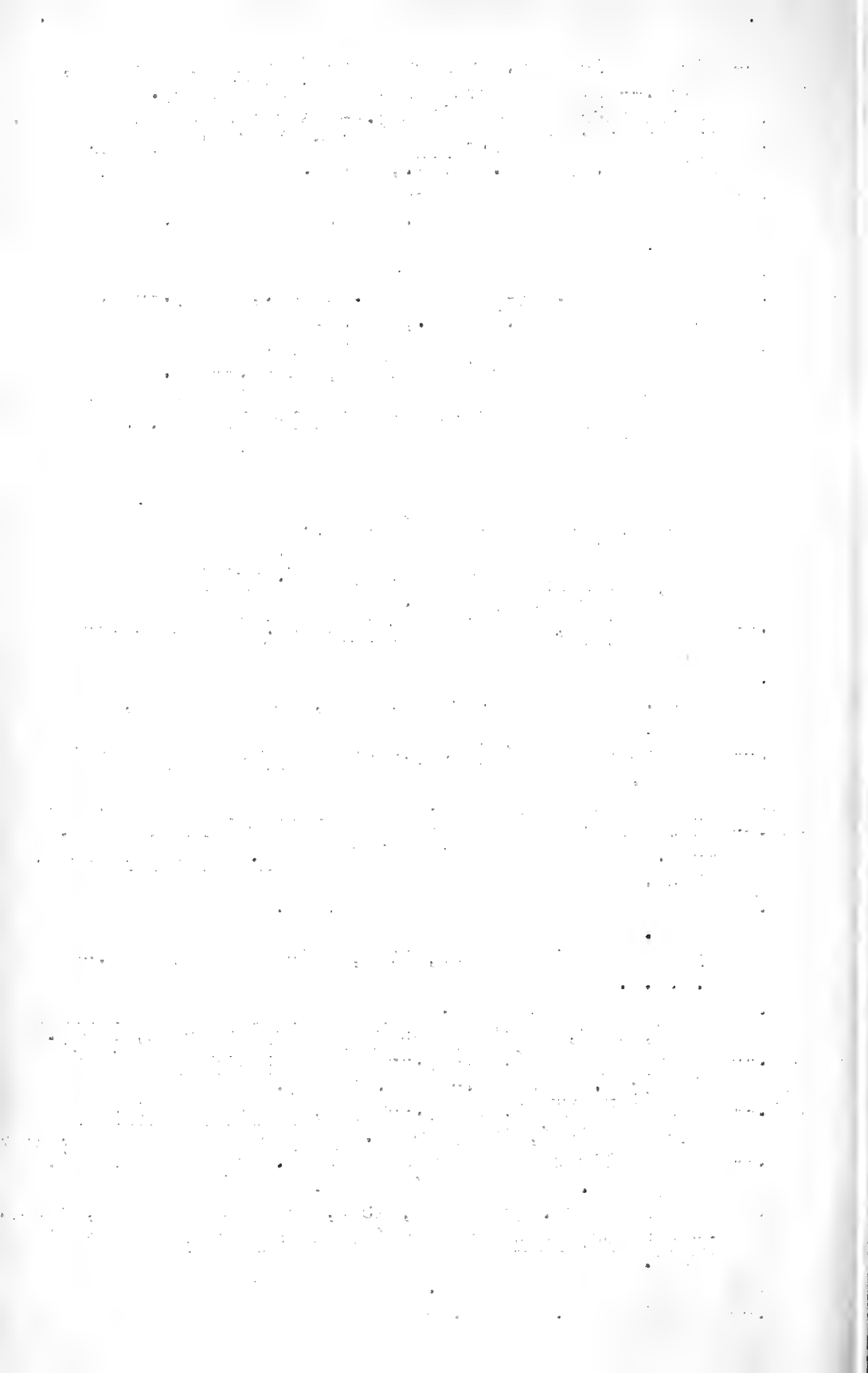
The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy auditing of the accounts.

In the second section, the author details the various methods used to collect and analyze data. This includes both primary and secondary research techniques. The primary research involves direct observation and interviews, while secondary research involves the use of existing data sources.

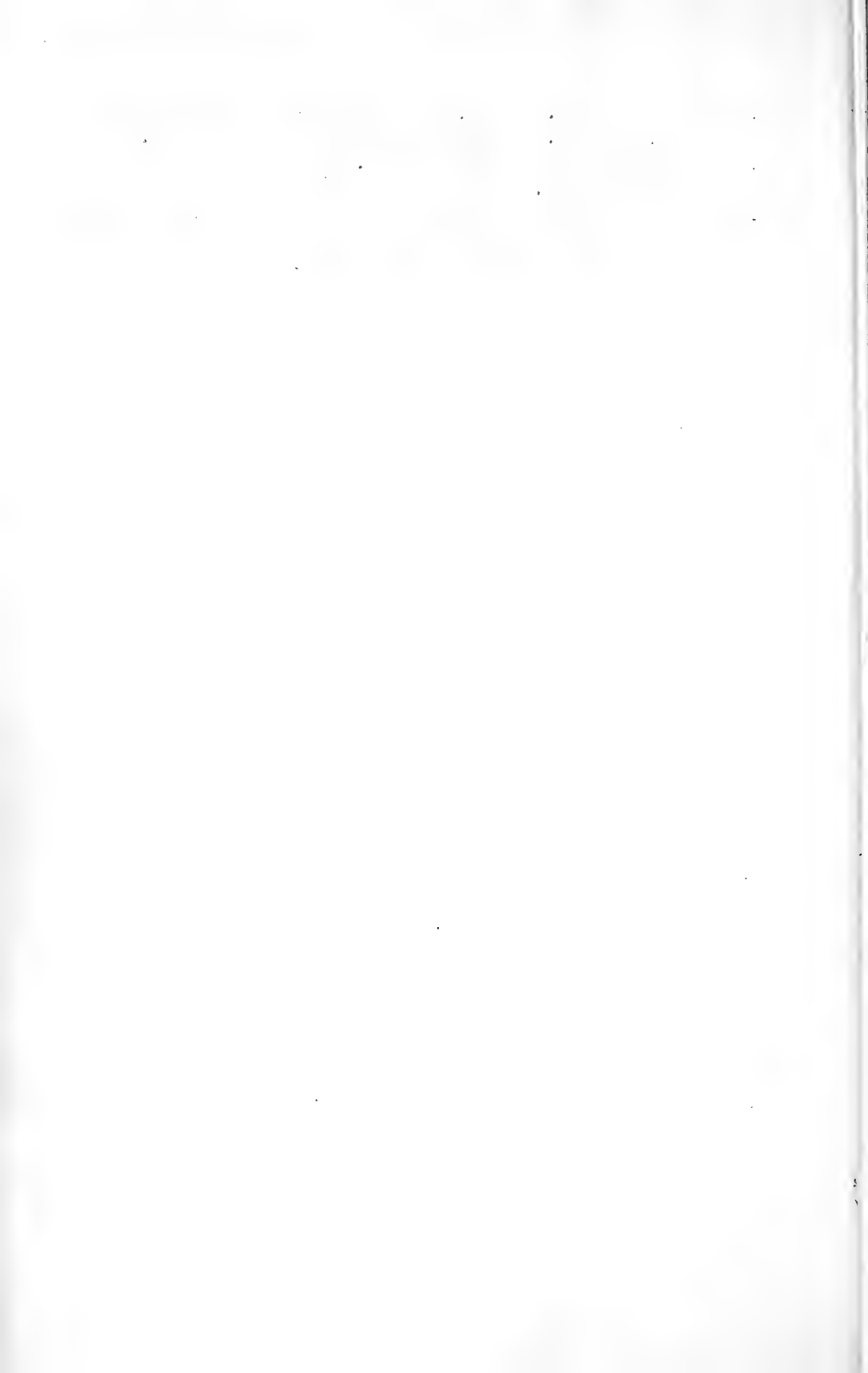
The third section focuses on the statistical analysis of the collected data. It describes the use of various statistical tests to determine the significance of the findings. The results indicate a strong correlation between the variables being studied, which supports the initial hypothesis.

Finally, the document concludes with a summary of the key findings and their implications. It suggests that the results have important implications for the field of study and provides recommendations for further research. The author also acknowledges the limitations of the study and offers suggestions for how these can be addressed in future work.

- 309.-- "le Butirin Comm. ou Albula Gron" (= Albula Scopoli, 1777).-- Clupea macrocephala Lacépède (1803).
- 311.-- Lepisosteus Lacépède (1803).-- Esox osseus Linné (1758).
- 312.-- Salmo Linné (1758).--Salmo salar Linné (1758) = S. salmo Val. (= Cuv. & Val., 1848).
- 315.-- Argentina Linné (1758).--Argentina sphyraena Linné (1758) = A. cuvierii Val. (= A. cuvieri Cuv. & Val., 1848).
- 315.-- Thymallus Cuvier (1829).-- Salmo thymallus Linné (1758).
- 316.-- "Paradon Val." (= Parodon Cuv. & Val., 1849).-- P. suborbitale (Cuv. & Val., 1849).
- 316.-- "Citharines" Cuvier (Citharinus Cuv., 1816) ou Distichodus Muller (& Troschel, 1844).-- "C. de Geoffroy" Cuvier (Citharinus geoffroei Cuv. & Val., 1849 = Serrasalmus citharinus Geoffroy, 1809.).
- 316.-- "Mylétes" Cuvier (Myletes Cuv., 1815).--Myletes paco Humboldt (1821).
- 320.-- "les Merluches" (Merluccius Rafinesque, 1810).-- G (adus) merluccius Linné (1758).
- 321.-- "les Motelles" Cuvier (Motella Cuv., 1829).--Types, G(adus) mustela (Linné, 1758) et G. tricirrhatus Linné (= Brunnich, 1768).
- 324.-- "les Achires, Lacépède (Achirus Lacépède, 1802).-- "A. marbré" (Achirus marmoratus Lacépède, 1802).
- 324.-- "les Plagusies" Brown (Plagusia Browne, 1789, non binom. = Plagusia Jarocki, 1822, non Latreille, 1804).--Pleuronectes bilineatus Bloch (1787).
- 325.-- Cyclopterus Linné (1758).--Cyclopterus lumpus Linné (1758).
- 329.-- Conger (Fleming, 1822).--Muraena conger Linné (1758).
- 330.-- "les Sphagebranches" (= Sphagebranchus Bloch, 1795). --"S. a bec de la Méditerranée" (= S. rostratus Bloch, 1795).
- 335.-- Hippocampus (Rafinesque, 1810).--H. guttulatus Cuvier (1829. Designation invalid as Rafinesque mentions Syngnathus hippocampus, 1758, which is tautotype.-- G.P.W.).
- 335.-- Pegasus (Linné, 1758).--Pegasus draco Linné (= draconis Linné, 1766, spelt Pegassus draco by Swainson, 1839).
- 337.-- Tetraodon (Linné, 1758).-- Tetraodon lineatus Linné (1758); T. physa Et.-Geoff. (1809).
- 341.-- Ostracion (Linné, 1758).--Types, Ostracion trigonus Bloch (= Linné, 1758) and O. auritus Cuvier (= Shaw, 1798).
- 343.-- (See 16 lines from bottom of page). Acipenser (Linné, 1758).-- A. sturio Linné (1758).
- 349.-- Mustellus Cuv. (=Fischer, 1813, or Mustelus Linck, 1790). --S(qualus) mustellus Linné (= Squalus mustelus Linné, 1758).
- 349.-- Selache (Cuvier, 1816).--Squalus maximus (Linné, 1766).
- 350.-- Centrina Cuv. (1816).--Squalus centrina Linné (1758).



- 350.-- Zygaena Cuv. (1816, non Fabricius, 1775); Sphyrna Raf. (1810).-- Squalus zygaena Linné (1758).
- 350.-- Squatina C. Duméril (1806).--Squalus squatina Linné (1758).
- 351.-- Pristis Latham (1794, or of Linck, 1790).--Pristis antiquorum Latham (1794) = Squalus priscus Linné (error for pristis Linné, 1758).



Priolepis (Ehrenberg) Bleeker, IX, 305; orthotype **ASTERROPTERYX SEMIPUNCTATUS** Rüppell. A synonym of **ASTERROPTERYX** 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 OXYPTERUS** Blkr.

Triænopogon Bleeker, IX, 312; orthotype **TRÆNOPHORICHTHYS BARBATUS** Gthr.

Sicydiops Bleeker, IX, 314; orthotype **SICYDIUM XANTHURUS** Blkr.

Microsicydium Bleeker, IX, 314; orthotype **SICYDIUM GYMNAUCHEN** Blkr.

Brathylobius Bleeker, IX, 315; orthotype **GOBIOUS DORLÆ** Gthr.

Callogobius Bleeker, IX, 315; orthotype **ELEOTRIS HASSELTII** Blkr. A synonym of **VALENCIENNEA**.

Platylobius 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 *Paragobius* 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 *Ctenotrypauchen* Steind.

1116. BLEEKER (1874). *Révision des espèces d'Ambassis et de Parambassis de l'Inde archipélagique*. Nat. Verh. Holl. Maatsch. Wetensch., 3. ver., 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. ver., 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* (*horrída*). But the two seem fairly separable. The earliest subdivision of *Synanceja*, that of Müller in 1843, leaves *verrucosa* as the type of *Synanceja*, *S. horrída* 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 Plagopterinae 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. PEPHREDO* Cope (fossil).

Sporetodus Cope, 47; orthotype *S. JANEVAII* 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 *THRISOMIMUS* 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 *LEUCOPSARION*. 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. (*FIERASFER* 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* Bikt., 1863.

Diplophysa Kessler, 57; logotype *D. STRAUCHI* Kessler.

1128. LÜTKEN (1874). *Siluridæ novæ Brasiliæ centralis a clarissimo J. Reinhardt in provincia Minas-Geraës circa oppidulum Lagoa Santa, præcique in flumine rio das Velhas, etc.* Overs. 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 lacu 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.* Jahrb. 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 *ORTHRIAS* Jordan & Fowler of later date.

Sinibarbus Sauvage, 335; orthotype *S. VITTATUS* Sauvage.

Doliichthys 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. JULLIENI* Sauvage.

1134. SAUVAGE (1874). *Révision des espèces du groupe des Épinoches.* Nouv. Arch. Mus., X, 5-32.

HENRI ÉMILE SAUVAGE.

- Gasterosteæ** 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 Mjatschkoeva, etc.* Nouv. Mem. Soc. Imp. Natur., XIII, Moscou.
HERMANN VON TRAUTSCHOLD (1817-1902).
- Solenodus** Trauttschold, 293; orthotype *S. CRENULATUS* Trauttschold.
- Octinaspis** Trauttschold, pl. 28; orthotype *PETRODUS SIMPLICISSIMUS* Trauttschold (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 THIELENSE* 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 Parascorpiis et du son espèce-type*. Arch. Néerl. Sci. Nat., X, 1875, X, 380-382.
PIETER BLEEKER.
- Parascorpiis** 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 Partie. *Poissons de Madagascar et de l'île de la Réunion*. Leiden.
PIETER BLEEKER.

Paracæsiö 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 Pseudochromidoïdes 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 *CICHLOPS* M. & T., preoccupied; same as *LABRACINUS* (Schlegel) Blkr., of slightly later date.

Neotherina Castelnau, 31; orthotype *N. AUSTRALIS* Castelnau. A synonym of *MELANOTÆNIA* Gill.

Torresia Castelnau, 36; orthotype *T. AUSTRALIS* Castelnau. A synonym of *CHÆRODON* Blkr.

Neodax 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 *GOBIOUS NILSSONI* Düben & 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 *PROTOSPHYRÆNA* Leidy.
- Bryactinus** Cope, 282; orthotype *B. AMORPHUS* Cope (fossil). A synonym of
EDAPHODON Leidy.
- Diphrixa** Cope, 283; orthotype *ISCHYODUS SOLIDULUS* Cope (fossil). A synonym
 of *EDAPHADON*.
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 preoccu-
 pied, replaced by *ECZEMATOLEPIS* Miller, 1892.
- Platyodus** Newberry, 58; orthotype *P. LINEATUS* Newberry.
Heliodus Newberry, 62; logotype *H. LESLEYI* Newberry (fossil). A synonym of
PALÆDAPHUS Van Beneden.
1151. PETERS (1875). *Ueber eine neue mit Halieutaa 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.
Phœbodus St. John & Worthen, 251; orthotype **P. SOPHIE** St. John & Worthen (fossil).
Bathycheilodus St. John & Worthen, 252; orthotype **B. MACISAACSI** St. John & Worthen (fossil). A synonym of **PHŒBODUS** St. John & Worthen.
Lambdodus St. John & Worthen, 280; orthotype **L. COSTATUS** St. John & Worthen (fossil).
Hybocladodus St. John & Worthen, 284; orthotype **H. PLICATILIS** 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, pre-occupied. 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. BACULIFORMIS* 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 Gymnocæsius, Pterocæsius, Paracæsius et Liocæsius*. Versl. Med. Akad. Nat., 1876, 149-154.

PIETER BLEEKER.

Gymnocæsius Bleeker, 152; orthotype *CÆSIO GYMNOPTERUS* Blkr.

Pterocæsius Bleeker, 153; orthotype *CÆSIO MULTIRADIATUS* Steind.

Liocæsius Blkr., 153; orthotype *CÆSIO CYLINDRICUS* Blkr.

1162. BLEEKER (1876). *Sur la famille des Pseudochromidoïdes 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 TÉLESCOPIUM* 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. MACRACANTHUS* 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.

Banjos 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.
- Tetragonoptus** (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 CYCLOPHthalmus* 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 FASCIA-TUS* Lac. (notice in synonymy). A synonym of *CHEILODACTYLUS* Lac.
- Cirrioptera** (Kuhl & Van Hasselt) Bleeker, 322; (orthotype *PLESIOPS NIGRICANS* Rüppell) (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 *SCIÆNA UNDECIMALIS* Bloch. A substitute for *CENTROPOMUS* Lac. and *ONYLABRAX* 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 familia Scorpænoideorum 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 TENIANOTUS* 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 Chatodontoides 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. OXYCEPHALUS* 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 HENSHAVII* 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 Ganoid Fish . . . from the Lias of Lyme Regis*. Geol. Mag.
PHILIP DE MALPAS GREY EGERTON.
Harpactes Egerton, 441; orthotype *HARPACTES VELOX* Egerton (fossil). Name preoccupied, later replaced by *HARPACTIRA* Egert.; a synonym of *OSTEORACHIS* Egert.
Harpactira Egerton, 576; orthotype *H. VELOX* 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 Bermudas*, 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.

Eutyachelithus 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 DIPLEMUS* Raf." = *ALBURNUS UMBRATILIS* Grd. = *NOTROPIS LYTHRURUS* Jordan. *S. DIPLEMUS* 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. III. 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 *ATHERSTONIA* 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 Brasilien.* 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. FLAVIPINNIS* Steind.
- Lophiosilurus** Steindachner, 155 (106, reprint); orthotype *L. ALEXANDRI* Steind.
- Achiosopsis** 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); orthotypè *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 *CHRYSIPTERA* 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).
Mioplossus 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 **CTENOPHARYNGODON** Steind.

Perccottus Dybowski, VIII, 28; orthotype **P. GLENII** Dybowski (a goby; allied to **GOBIMORUS** Lac.)

1200. FRITSCH (1877). *Die Reptilien und Fische der Böhmisches Kreideformation*. Prag.

ANTON JAN FRITSCH.

Sphaerolepis 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 **ANARRHICHAS 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.

Bathyrhissa Günther, 443; orthotype **B. DORSALIS** Gthr. A synonym of **PTEROTHRISSUS** Hilgendorf a little earlier in the same year.

1206. HILGENDORF (1877). (*Pterothrissus.*) Act. Soc. Leopoldina, III, Sept. 3, 1877.

FRANZ MARTIN HILGENDORF (1839-189?).

- Pterothrissus** Hilgendorf, 127 (Sept. 3, 1877); orthotype *P. cissu* 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 Cottidae, Etheostomatidae, Percidae, Centrarchidae, Aphrododeridae, Dorysomatidae, and Cyprinidae, 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 *PECILICHTHYS ZONALIS* Cope; regarded as preoccupied by *NANNOSTOMUS* Gthr.; replaced by *RHOTHÆCA* 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* Krynicky (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* *ALOSIDES* 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; ALEMBERT WINTHROP BRAYTON (1849-).

Lagochila Jordan & Brayton, 280; orthotype *L. LACERA* Jordan & Brayton. Name regarded as preoccupied by *LAGOCHEILUS*; 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. GRIMMI* 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 *AËTOBATIS EXIMIUS* Leidy (fossil). A synonym or homologue of *AËTOBATUS*.

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*. Rygggradsjuren.

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 Baltringen.* II. 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 Gobius.* 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** Bleeker, 54; logotype *Gobius nebulopunctatus* Cuv. & Val. Replaces MAPO Smitt (*G. soporator* Cuv. & Val.).
- Symphysanodon** Bleeker, 61; orthotype *S. typus* Blkr.
1227. BOSNIASKI (1878). *Studiù 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 *Melanotænia* 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 *Goniistius* Gill (1862).
1231. COLLETT (1878). *Fiske fra Nordhavs-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.
- Eapterus** Cope, XVII, 677; orthotype *E. dispilurus* Cope.

- Chænothorax** Cope, 679; orthotype *C. BICARINATUS* Cope.
Potamorhina 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 jordani).* Ann. Mag. Nat. Hist., 1878, ser. 5, III, 112.
 THEODORE NICHOLAS GILL.
- Elopomorphus** Gill, 112; orthotype *E. JORDANI* Gill.
1237. GILL (1878). *Note on the Antennariidæ.* Proc. U. S. Nat. Mus., I, 221.
 THEODORE GILL.
- Symptericthys** Gill, 222; orthotype *LOPHIUS LÆVIS* Lac.
1238. GILL (1878). *Note on the Ceratiidæ.* Proc. U. S. Nat. Mus., I.
 THEODORE GILL.
- Mancalias** Gill, 227; orthotype *CERATIAS URANOSCOPIUS* 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.
Bathypphis Günther, 181; orthotype *B. FEROX* Gthr.

- Bathysaurus** Günther, 182; logotype *B. FEROX* Gthr.
Bathypterois Günther, 183; logotype *B. LONGIFILIS* Gthr.
Ipnops Günther, 186; orthotype *I. MURRAYI* Gthr.
Bathylagus Günther, 248; logotype *B. ANTARCTICUS* Gthr.
Bathytroctes Günther, 249; logotype *B. MICROLEPIS* Gthr.
Platytroctes Günther, 249; orthotype *P. APUS* Gthr.
Xenodermichthys Günther, 250; orthotype *X. NOBULOSUS* 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 *LAGOCHEILUS*, 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.
Ioa 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. BENEENSIS* 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 Chimæroid Fishes of the British Cretaceous Strata*.
 Mem. Geol. Surv. United Kingdom, 1878, Monograph IV, 1-50.

EDWIN TULLEY 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 Cyprinidæ et Cobitinæ 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 provenant 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 synonym 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 & BOCOURT (1878). *Études sur les poissons*. Mission Scientifique au Mexique, etc., IV.

LÉON LOUIS VAILLANT; FIRMIN BOCOURT.

Itaiara Vaillant & Bocourt, 67; orthotype *SERRANUS ITAIARA* Lichtenstein = *PERCA GUTTATA* L. A synonym of *PROMICROPS* 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. Naturl., 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.
Jordanella Goode & Bean, 117; orthotype *J. FLORIDÆ* Goode & Bean.

1277. GOODE & BEAN (1879). *Description of a New Genus and Species of Fish, Lopholatilus chamæleonticeps, 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. CASHCÆNSIS* 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 Scombridæ.* 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 Museum 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, XXXIII.
 HENRI ÉMILE SAUVAGE.
- Uranoplosus** Sauvage, 47; orthotype *U. COTTEAU* Sauvage (fossil).
Cosmodus Sauvage, 48; orthotype *C. GRANDIS* Sauvage (specific name preoccupied) = *CÆLODUS MAJOR* Woodward. May replace *CÆLODUS* Heckel (1856), regarded as preoccupied by *CÆLONDON* 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 *C TENOLUCIUS* 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. ZONODUS* Trautschold (fossil).
Chiastodus Trautschold, 58; orthotype *C. OBVALLATUS* Trautschold (fossil).
Arpagodus Trautschold, 59; orthotype *A. RECTANGULUS* Trautschold (fossil). A synonym of *CAMPODUS* Koninck.
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. FLAGIOMETOPON* 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. CONSTANCIÆ* 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 Merlucius*. 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. I, 1-82.*

ALBERT GÜNTHER.

Bathyanthias Günther, 6; orthotype *B. ROSEUS* Gthr.

Zanclorhynchus Günther, 15; orthotype *Z. SPINIFER* Gthr.

Murænolepis Günther, 17; orthotype *M. MARMORATUS* Gthr.

Lepidopsetta Günther, 18; orthotype *L. MACULATA* Gthr. Name preoccupied among founders; replaced by *MANCOPSETTA* Gill.

Thysanopsetta Günther, 22; orthotype *T. NARESI* Gthr.

Lophonectes Günther, 28; orthotype *L. GALLUS* Gthr.

Læops Günther, 28; orthotype *L. PARVICEPS* Gthr.

Propoma Günther, 39; orthotype *P. ROSEUM* Gthr.

Lioscorpis Günther, 40; orthotype *L. LONGICEPS* Gthr.

Acanthaphritis Günther, 43; orthotype *A. GRANDISQUAMIS* Gthr.

Tetrabrachium Günther, 45; orthotype *T. OCELLATUM* Gthr.

Anticitharus Günther, 47; orthotype *A. POLYSPIIUS* Gthr.

Pœcilopsetta Günther, 48; orthotype *P. COLORATA* Gthr.

Nematops Günther, 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-).

Opsopœodus Hay, 507; orthotype *O. EMILLÆ* Hay.

1302. HECTOR (1880). *Notice of a New Fish (Hypolycodes haastii). 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 berkenswerthe 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.
- Platycharops** Klunzinger, 399; orthotype P. MUELLERI Klunzinger.
1311. KÖENEN (1880). *Ueber Coccosteus-Arten aus dem Devon von Birken.* Zeitschr. Deutsch. Geol. Ges., 1880, XXXII, 673-675.
ADOLF VON KÖENEN (1837-1915).
- Brachydirus** Kœnen, 675; orthotype COCCOSTEUS BIRKENENSIS Kœnen (fossil).
1312. LOCKINGTON (1880). *Description of a New Genus and Some New Species of California Fishes (Icosteus ænigmaticus and Osmerus attenuatus).* Proc. U. S. Nat. Mus., 1880, III, 63-68.
WILLIAM NEALE LOCKINGTON.
- Icosteus** Lockington, 63; orthotype I. ÆNIGMATICUS 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 Fischeausammlung 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 Sénégalie.* 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 *DELTODUS*.
Chitonodus St. John & Worthen, 109; 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 Céreste (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. DOUVILLII* Sauvage (fossil).

1323. SAUVAGE (1880). *Nouvelles recherches sur les poissons fossiles decouverts par M. Alby à Licata 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. ECONOMI 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 OTHONOPS 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.
Neozoarcus 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 scombérodés, 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 M'Coy, 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 Müller'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** M'Clelland.

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. REUSSI* 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). *Sumatra, 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.

Histialosa 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 Günther, 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). *Monographic, 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. Abh. 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
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 come under 1128, a slip made in printing.

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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

STANFORD UNIVERSITY, CALIFORNIA
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PRESS

INTRODUCTORY NOTE

The present memoir is the fourth and concluding part of a catalogue of generic names applied to fishes subsequent to the establishment of the Binomial or Linnæan system of nomenclature, which dates from January 1, 1758.

It covers the late modern period in Ichthyology, signalized especially by explorations of the deep sea, of fossil beds, and of the darker continents. The unexampled explorations of Eigenmann in South America belong to this period, as also the records of Boulenger of the fishes of South Africa and the varied researches of Regan in the rich material of the British Museum. In this period the fauna of Australia, Japan, and Siberia have been critically and successfully studied. Our knowledge of fossil fishes is assuming definite form through the work of Woodward, Zittel, Hay, and others who have given Palæontology a constructive turn.

At the end of this period is recorded the death (December 10, 1919) of the veteran ichthyologist, Franz Steindachner, of Vienna, whose excellent papers mark the years from 1859 to 1915.

The present writer, as a life-long teacher of Biology, may be pardoned a personal reference. Himself a student of Agassiz and Gill of the earlier periods, he has had the honor of being also a friend, to some extent, a *protégé*, of Baird, Günther, Vaillant, Lütken, Hilgendorf, and Cope. In addition he has numbered among his own students many of those active in systematic ichthyology during the late modern period.

Among these are Gilbert, Eigenmann, Evermann, Bollman, Snyder, Starks, Jenkins, Meek, Fowler, Hubbs, Seale, Richardson (R. E.), Oshima, Abbott, Burke, Brayton, Cramer, Culver, Davis (B. M.), Fesler, Fordice, Gilbert (J. Z.), Goss, Greeley, Heller, Herre, Kirsch, McGregor, Pierson, Metz, Rutter, Snodgrass, Swain, Thoburn (W. W.), Thompson (W. F.), Weymouth, Williams (T. M.), Otaki (K.), and Woolman.

It is a pleasure to repeat my acknowledgments to the naturalists mentioned in Part III, as having given valuable assistance. I am also indebted to Arthur W. Henn of the American Museum, for looking up obscure names. My thanks are especially due to Masamitsu Oshima for the arrangement of the generic names given in the *Zoological Record*.

DAVID STARR JORDAN.

THE GENERA OF FISHES

PART IV

1881

1329. BEAN (1881). *Descriptions of New Fishes from Alaska and Siberia*. Proc. U. S. Nat. Mus., 1881, IV, 144-159.

TARLETON HOFFMAN BEAN.

Ptilichthys Bean, 157; orthotype P. GOODEI Bean.

1330. BEAN (1881). *Notes on a Collection of Fishes Made by Captain Henry E. Nichols, U. S. N., in British Columbia and Southern Alaska*. Proc. U. S. Nat. Mus., 1881, IV, 436-474.

TARLETON HOFFMAN BEAN.

Delolepis Bean, 465; orthotype D. VIRGATUS Bean.

1331. COPE (1881). *A New Genus of Catostomidæ (Lipomyzon)*. American Naturalist, XV (January, 1881).

EDWARD DRINKER COPE.

Lipomyzon Cope, 59; orthotype CHASMISTES BREVIROSTRIS Cope.

1332. DAVIS (1881). *On the Zoological Position of the Genus Petalorhynchus Ag., a Fossil Fish from the Mountain Limestone*. Rept. Brit. Assoc. Adv. Sci.

JAMES WILLIAM DAVIS.

Diodontopsodus Davis, 646; orthotype (PRISTODUS FALCATUS Ag.) (fossil). Replaces PRISTODUS Ag. (62), which until 1883 was a name only.

1333. DAVIS (1881). *On the Genera Ctenoptychius, etc.* Ann. Mag. Nat. Hist., VIII

JAMES WILLIAM DAVIS.

Ctenopetalus (Agassiz) Davis, 426; orthotype PETALODUS SERRATUS (Ag.) Owen. A synonym of CTENOPTYCHIUS Ag.

Harpacodus (Agassiz) Davis, 426; orthotype PETALODUS (Ag.) Owen (fossil). A synonym of CTENOPTYCHIUS Ag.

1334. DAVIS (1881). *On Anodontacanthus . . . Fossil Fishes from the Coal Measures*. Quart. Journ. Geol. Soc., XXXVII.

JAMES WILLIAM DAVIS.

Anodontacanthus Davis, 427; orthotype A. ACUTUS Davis (fossil). A synonym of ORACANTHUS Ag.

1335. GARMAN (1881). *New and Little Known Reptiles and Fishes in the Museum Collections*. Bull. Mus. Comp. Zool., VIII.

SAMUEL GARMAN.

Stypodon Garman, 90; orthotype S. SIGNIFER Garman.

1336. GILL (1881). *Record of Recent Scientific Progress: A Deep-sea Rockfish*. Ann. Rept. Smithsonian Inst. for 1880.

THEODORE GILL.

Sebastolobus Gill, 375; orthotype SEBASTES MACROCHIR Gthr.

1337. GÜNTHER (1881). *Account of the Zoological Collection Made During the Survey of H. M. S. Alert in the Straits of Magellan and on the Coast of Patagonia*. Proc. Zool. Soc. London, 2-141.
Melanostigma Günther, 20; orthotype *M. GELATINOSUM* Gthr.
1338. JORDAN & GILBERT (1881). *Notes on the Fishes of the Pacific Coast of the United States*. Proc. U. S. Nat. Mus., 1881.
 DAVID STARR JORDAN; CHARLES HENRY GILBERT.
Polistotrema (Gill) Jordan & Gilbert, 30; orthotype *GASTROBRANCHUS DOMBEY* Cuv. = *BDELLOSTOMA STOUTI* Lockington. Also noted on page 18 by Jordan & Jouy.
1339. JORDAN & GILBERT (1881). *Description of Thirty-three New Species of Fishes from Mazatlan, Mexico*. Proc. U. S. Nat. Mus., IV.
 DAVID STARR JORDAN; CHARLES HENRY GILBERT.
Etropus Jordan & Gilbert, 364; orthotype *ETROPUS CROSSOTUS* J. & G.
1340. JORDAN & GILBERT (1881). *Description of Nineteen New Species of Fishes from the Bay of Panama*. Bull. U. S. Fish Commission, I, for 1881.
 DAVID STARR JORDAN; CHARLES HENRY GILBERT.
Cerdale Jordan & Gilbert, 332; orthotype *C. IONTHAS* J. & G.
1341. GORJANOVIC-KRAMBERGER (1881). *Studien über die Gattung Saurocephalus Harlan; ein Beitrag zur Neocom-Fischfauna der Insel Lestna*, Jahrb. Geol. Reichsanstalt Wien, XXXI.
 DRAGUTIN GORJANOVIC-KRAMBERGER.
Solenodon Kramberger, 373; orthotype *S. NECOMIENSIS* Kramberger (fossil) = *SAUROCEPHALUS LYCODON* Kner. Regarded by Woodward as a synonym of *ENCHODUS* Ag., the name *SOLENDON* preoccupied; replaced by *HOLCODON* Kramberger, 1885.
1342. LOCKINGTON (1881). *Description of a New Genus and Species of Cottidae*. Proc. U. S. Nat. Mus., 1881, 141-144.
 WILLIAM NEALE LOCKINGTON.
Chitonotus Lockington, 141; orthotype *C. MEGACEPHALUS* Lockington.
1343. LUNEL (1881). *Liste de quelques espèces de poissons, nouvelles pour la faune de l'île Maurice*. Mém. Soc. Phys. Genève, XXVII, 266-387.
 GODEFROY LUNEL.
Penetopteryx Lunel, 275; orthotype *P. TENIOCEPHALUS* Lunel.
1344. MACLEAY (1881). *Descriptive Catalogue of the Fishes of Australia*. Proc. Linn. Soc. New S. Wales, 1881. Also issued in two bound volumes.
 WILLIAM MACLEAY.
Neopempheris Macleay, 517; orthotype *N. RAMSAYI* Macleay. A synonym of *LEPTORAMA*.
- Teratorhombus** Macleay, 126; orthotype *T. EXCISEPS* Macleay. Said to be a synonym of *PSEUDORHOMBUS* Blkr.
- Cainosilurus** Macleay, 147; orthotype *NEOSILURUS AUSTRALIS* Castelnau. Substitute for *NEOSILURUS* Castelnau, preoccupied.
1345. MOREAU (1881). *Histoire naturelle des poissons de France*.
 ÉMILE MOREAU (1823-1896).
Flesus Moreau, II, 301; orthotype *PLEURONECTES FLESUS* L.

1346. POEY (1881). *Peces*. (In *Apuntes para la fauna puerto-riqueña*, by Juan Gundlach. Ann. Soc. Española Hist. Nat. Madrid, X, 317-350.
FELIPE POEY Y ALOY.
- Monosira** Poey, 326; orthotype M. STAHLI Poey. A synonym of AMIA Gronow or APOGON Lac.
1347. RZEHAK (1881). *Ueber das Vorkommen und die geologische Bedeutung der Clupeidengattung*. Brünn.
A. RZEHAK.
- Anaglyphus** Rzehak, 79; orthotype A. INSIGNIS Rzehak (fossil).
Eupalæonicus Rzehak, 79; orthotype PALÆONISCUM FRIESLEBENENSIS Blainv. (fossil). An unexplained substitute for PALÆONISCUM Blainv.
1348. SMITH, R. (1881). *Description of a New Gobioid Fish (Othonopseos) from San Diego, California*. Proc. U. S. Nat. Mus., IV.
ROSA SMITH (1859-) (afterwards Mrs. Carl. H. Eigenmann).
- Othonops** Rosa Smith, 19; orthotype O. EOS Smith = TYPHLOGOBIUS CALIFORNIENSIS Steind. A synonym of TYPHLOGOBIUS Steind.
1349. STEINDACHNER (1881). *Ichthyologische Beiträge*. X. Sitzb. Akad. Wiss. Wien, 1881, LXXXIII, 179-219.
FRANZ STEINDACHNER.
- Cyclopterichthys** Steindachner, 192; orthotype C. GLABER Steind. A synonym of APTOCYCLUS Pylaie.
Breitensteinia Steindachner, 213; orthotype B. INSIGNIS Steind.
1350. STEINDACHNER (1881). *Ichthyologische Beiträge*. XI. Sitzb. Akad. Wiss. Wien, LXXXIII, 393-408 (May 5, 1881).
FRANZ STEINDACHNER.
- Schedophilopsis** Steindachner, 100; orthotype S. SPINOSUS Steind. = ICOSTEUS ENIGMATICUS Lockington. A synonym of ICOSTEUS Lockington.
Parachela Steindachner, 404 (12); orthotype P. BREITENSTEINI Steind. (*Borneo*).
1351. THOMINOT (1881). *Sur deux genres nouveaux de poissons faisant partie de la famille des squamipinnes et rapportés d'Australie par J. Verreaux*. Bull. Soc. Philom. Paris, 1881, VII, sér. 8, 140-142.
ALEXANDRE THOMINOT.
- Tilodon** Thominot, 140; orthotype T. AUSTRALIS Thominot.
Diodyxodon Thominot, 142; orthotype D. AUSTRALIS Thominot. Not DOYDIXODON Val.
1352. TRAQUAIR (1881). *Notice of New Fish-Remains from the Blackband Ironstone of Borough Lee, Near Edinburgh*. Geol. Mag., 1881, II, decade VIII, 34-37.
RAMSAY HEATLEY TRAQUAIR.
- Cynopodius** Traquair, 35; orthotype C. CRENULATUS Traquair (fossil).
Euctenius Traquair, 36-334; logotype CTENOPTYCHIUS UNILATERALIS Barkas (fossil).
Ganopristodus Traquair, 37; orthotype G. SPLENDENS Traquair (fossil). A synonym of URONEMUS Ag.
1353. TRAQUAIR (1881). *Report on Fossil Fishes Collected by the Geological Survey of Scotland in Eskdale and Liddesdale*. Trans. Roy. Soc. Edinburgh, 1881, XXX, 15-71.
RAMSAY HEATLEY TRAQUAIR.

Phanerosteon Traquair, 39; orthotype *P. MIRABILE* Traquair (fossil).

Holurus Traquair, 43; orthotype *H. PARKI* Traquair (fossil).

Canobius Traquair, 46; orthotype *C. RAMSAYI* Traquair (fossil).

Cheirodopsis Traquair, 56; orthotype *C. GEIKIEI* Traquair (fossil).

Tarrasius Traquair, 61; orthotype *T. PROBLEMATICUS* Traquair.

1354. **TRAQUAIR** (1881). *Notice of New Fish Remains from the Blackband Ironstone of Borough Lee, Near Edinburgh*. Geol. Mag., decade VIII, 491-494.

RAMSAY HEATLEY TRAQUAIR.

Cryphiolepis Traquair, 491; orthotype *CÆLACANTHUS STRIATUS* Traquair (fossil).

1355. **VETTER** (1881). *Die Fische aus dem lithographischen Schiefer im Dresdner Museum*. Mitt. Mus., IV, Dresden, 1881.

BENJAMIN VETTER (1848-1893).

Eusemius Vetter, 51; orthotype *E. BEATÆ* Vetter (fossil).

Diplolepis Vetter, 91; orthotype (*SAUROPSIS LONGIMANUS* Ag.) (fossil). A synonym of *SAUROPSIS* Ag., the name twice preoccupied.

Agassizia Vetter, 97; orthotype *EUGNATHUS TITANIUS* Wagner (fossil). Name twice preoccupied, replaced by *ASTHENOCORMUS* Woodw., 1895.

Lophiurus Vetter, 116; orthotype *L. MINUTUS* Vetter (fossil). A synonym of *LIODESMUS* Wagner.

1356. **WHITEAVES** (1881). *Some Remarkable Fossil Fishes from the Devonian Rocks of Scaumenac Bay, . . . Quebec . . .* Canadian Naturalist, X.

JOSEPH FREDERICK WHITEAVES (1835-1909).

Eusthenopleuron Whiteaves, 30; orthotype *E. FOORDI* Whiteaves (fossil).

1882

1357: **BASSANI** (1882). *Descrizioni dei pesci fossili di Lesina . . .*

FRANCESCO BASSANI.

Opsigonus (Kramberger) Bassani, 200; orthotype *O. MEGALURIFORMIS* Kramberger (fossil).

1358. **BOGH DANOV** (1882). *Sketch of the Expeditions and Natural History Investigations in the Aral-Caspian Region from 1720 to 1874*. (Not verified.)

MODEST NIKOLAEVICH BOGH DANOV (1841-1888).

Kessleria Boghdanov, II, 3; orthotype *SCAPHIRHYNCHUS FEDTSCHENKOI* Kessler. This generic name is rejected by L. S. Berg, as a nomen nudum, which received its first definition in Jordan's *Guide to the Study of Fishes*, II, 20, 1905. But Boghdanov's species, *S. FEDTSCHENKOI* Kessler, was described in 1872 and was a well known species. *KESSLERIA* should therefore be preferred to *PSEUDOSCAPHIRHYNCHUS* Nikolski.

1359. **DÖDERLEIN** (1882). *Ein Stomiatide aus Japan*. Arch. Naturg. (2), XLVIII, 26-31.

LUDWIG DÖDERLEIN (1855-).

Lucifer Döderlein, 26; orthotype *L. ALBIPINNIS* Döderlein.

1360. **FACCIOLÀ** (1882). *Note sui pesce del stretto di Messina*. X (part 1). 166-168. Naturalista Siciliano, I, for 1882.

LUIGI FACCIOLÀ.

Alepichthys Facciolà, 167; orthotype *A. ARGYROGASTER* Facciolà.

1361. GIGLIOLI (1882). *New and Very Rare Fish from the Mediterranean*. Naturalist, XXV.

ENRICO HILLYER GIGLIOLI.

Paradoxichthys Giglioli, 535; orthotype NOTACANTHUS RISSOANUS Giglioli. A synonym of POLYACANTHONOTUS.

Teratichthys Giglioli, 574; orthotype T. GARIBALDIANUS Giglioli. A synonym of POLYACANTHONOTUS Blkr.; name preoccupied in fossil fishes.

1362. GILL (1882). *Supplementary Note on the Pediculati*. Proc. U. S. Nat. Mus., V.

THEODORE GILL.

Lophiomus Gill, 552; orthotype LOPHIUS SETIGERUS Vahl.

1363. GOODE & BEAN (1882). *Reports on the Results of Dredging Under the Supervision of Alexander Agassiz, on the East Coast of the United States, During the Summer of 1880, by the U. S. Coast Survey Steamer Blake, etc.* Bull. Mus. Comp. Zool. Harvard College, 1882, X, 183-226.

GEORGE BROWN GOODE; TARLETON HOFFMAN BEAN.

Notosema Goode & Bean, 193; orthotype N. DILECTA Goode & Bean.

Chalinura Goodé & Bean, 199; orthotype C. SIMULA Goode & Bean.

Barathrodemus Goode & Bean, 200; orthotype B. MANATINUS Goode & Bean.

Dicrolene Goode & Bean, 202; orthotype D. INTRONIGER Goode & Bean.

Lycodonus Goode & Bean, 208; orthotype L. MIRABILIS Goode & Bean.

Poromitra Goode & Bean, 214; orthotype P. CAPITO Goode & Bean.

Cyclothone Goode & Bean, 221; orthotype C. LUSCA Goode & Bean.

1364. GOODE & BEAN (1882). *Benthodesmus, a New Genus of Deep-sea Fishes, allied to Lepidopus*. Proc. U. S. Nat. Mus., 1882, V, 379-383.

GEORGE BROWN GOODE; TARLETON HOFFMAN BEAN.

Benthodesmus Goode & Bean, 380; orthotype LEPIDOPUS ELONGATUS Clarke.

1365. GOODE & BEAN (1882). *Descriptions of Twenty-five New Species of Fish from the Southern United States, and Three New Genera, Letharchus, Ioglossus, and Chriodorus*. Proc. U. S. Nat. Mus., 1882, V, 412-437.

GEORGE BROWN GOODE; TARLETON HOFFMAN BEAN.

Baiostoma Bean, 413; orthotype B. BRACHIALIS Bean. A synonym of ACHIRUS Lac.

Ioglossus Bean, 419; orthotype I. CALLIURUS Bean.

Chriodorus Goode & Bean, 431; orthotype C. ATHERINOIDES Goode & Bean.

Letharchus Goode & Bean, 436; orthotype L. VELIFER Goode & Bean.

1366. GUIMARAËS (1882). *Description d'un nouveau poisson de Portugal*. Journ. Sci. Lisboa, VIII, for 1881 (1882).

ANTONIO ROBERTO GUIMARAËS.

Pseudohelotes Guimaraës, 222; orthotype P. GUENTHERI Capello (Ms.).

1367. HAY (1882). *On a Collection of Fishes from the Lower Mississippi*. Bull. U. S. Fish Comm., II, 57-75.

OLIVER PERRY HAY.

Tirodon Hay, 68; orthotype T. AMNIGENUS Hay.

1368. JORDAN (1882). *The Fishes of Ohio*. Rept. Geol. Surv. Ohio, IV.

DAVID STARR JORDAN.

Coccotis Jordan, 852; orthotype HYPSSILEPIS COCCOGENIS Cope.

Erimystax Jordan, 858; orthotype LUXILUS DISSIMILIS Kirtland.

1369. JORDAN & GILBERT (1882). *Notes on Fishes Observed About Pensacola, Florida, and Galveston, Texas, etc.* Proc. U. S. Nat. Mus., V, 1882.

DAVID STARR JORDAN; CHARLES HENRY GILBERT.

- Ioglossus** (Bean) Jordan & Gilbert, 297; orthotype *I. CALLIURUS* Bean (description in detail on page 419).

1370. JORDAN & GILBERT (1882). *Notes on a Collection of Fishes from Charleston, South Carolina, With Descriptions of Three New Species.* Proc. U. S. Nat. Mus., 1882, V, 580-620.

DAVID STARR JORDAN; CHARLES HENRY GILBERT.

- Querimana** Jordan & Gilbert, 588; orthotype *MYNXUS HARENGUS* Gthr.

- Pneumatophorus** Jordan & Gilbert, 593; orthotype *SCOMBER PNEUMATOPHORUS* De la Roche = *SCOMBER COLIAS* Gmelin.

1371. JORDAN & GILBERT (1882). *List of Fishes Now in the Museum of Yale College Collected by Prof. Frank H. Bradley at Panama, etc.* Proc. U. S. Nat. Mus., 1882.

DAVID STARR JORDAN; CHARLES HENRY GILBERT.

- Emblemaria** Jordan & Gilbert, 627; orthotype *E. NIVIPES* J. & G.

1372. JORDAN & GILBERT (1882). *A Review of the Siluroid Fishes Found on the Pacific Coast of Tropical America, etc.* Bull. U. S. Fish Comm., II.

DAVID STARR JORDAN; CHARLES HENRY GILBERT.

- Cathorops** Jordan & Gilbert, II, 54; orthotype *ARIUS HYPOPHTHALMUS* Steind.

1373. JORDAN & GILBERT (1882). *Synopsis of the Fishes of North America.* Bull. U. S. Nat. Mus., 1882 (September), XVI, 1-1018.

DAVID STARR JORDAN; CHARLES HENRY GILBERT.

- Creolus** Jordan & Gilbert, XXXVI; orthotype *SERRANUS FURCIFER* J. & G. Substitute for *BRACHYRHINUS* Gill, preoccupied. Withdrawn in the text, being a synonym of *PARANTHIAS* Guich.

- Trycherodon** (Forbes) Jordan & Gilbert, 247; orthotype *T. MEGALOPS* Forbes. A synonym of *OPSOPEDUS* Hay.

- Euthynnus** (Lütken) Jordan & Gilbert, 429; orthotype *THYNNUS* ~~PELAMYS~~ L. Thynnus C. V.

- Bothragonus** (Gill) Jordan & Gilbert, 728; orthotype *HYPAGONUS SWANI* Steind.

- Isesthes** Jordan & Gilbert, 757; orthotype *BLENNIUS GENTILIS* Grd.; a synonym of *HYPSOBLENNIUS* Gill.

- Isopsetta** (Lockington) Jordan & Gilbert, 832; orthotype *LEPIDOPSETTA ISOLEPIS* Lockington.

- Xenistius** Jordan & Gilbert, 920; orthotype *XENICHTHYS CALIFORNIENSIS* Steind.

1374. GORJANOVIC-KRAMBERGER (1882). *Die jüngsttertiäre Fischfauna Croatiens.* Parts I-II. Beitr. Palæont. Oesterr.-Ungarn, 1882, II, 86-135 (*ibid.* 1883, II, 65-85).

DRAGUTIN GORJANOVIC-KRAMBERGER.

- Metoponichthys** Kramberger, 104; orthotype *M. LONGIROSTRIS* Kramberger (fossil). Same as *PROANTIGONIA* Kramberger, and having page priority.

- Proantigonia** Kramberger, 131; orthotype *P. RABDOBOJANA* Kramberger (fossil). A synonym of *METOPONICHTHYS*.

1375. MACLEAY (1882). *Notes on the Pleuronectidae of Port Jackson, With Descriptions of Two Hitherto Unobserved Species.* Proc. Linn. Soc. New S. Wales, 1882, VII, 11-15.

WILLIAM MACLEAY.

- Lophorhombus** Macleay, 14; orthotype *L. CRISTATUS*. A synonym of *LOPHONECTES* Gthr.
1376. QUENSTEDT (1882). (*Fossile Fische.*) Württ. Jahresh. XXXVIII.
FRIEDRICH AUGUST VON QUENSTEDT.
- Bdelodus** Quenstedt, 137; orthotype *B. BOLLENSIS* Quenstedt (fossil).
1377. SAUVAGE (1882). *Étude sur les poissons des Faluns de Bretagne.* Mém. Soc. Sci. Nat. Saône-et-Loire, IV.
HENRI ÉMILE SAUVAGE.
- Stylodus** Sauvage, IV, 77; orthotype *S. LEBESCONTEI* Sauvage (fossil).
1378. SAUVAGE (1882). *Description de quelques poissons de la collection du museum d'histoire naturelle.* Bull. Soc. Philom. Paris (7), VI, 168-176.
HENRI ÉMILE SAUVAGE.
- Saccostoma** Sauvage, 171; orthotype *S. GULOSUS* Sauvage. Name preoccupied, replaced by *CHASMIAS* Jordan & Snyder; this also preoccupied and replaced by *CHASMICHTHYS* Jordan & Snyder.
- Cosmochilus** Sauvage, 180; orthotype *C. HARMANDI* Sauvage.
1379. STEINDACHNER (1882). *Ichthyologische Beiträge.* XII. Sitzb. Akad. Wiss. Wien, LXXXVI, 61-82.
FRANZ STEINDACHNER.
- Pachychilon** Steindachner, 71; orthotype *SQUALIUS PICTUS* (Heckel & Kner).
1380. VAILLANT (1882). *Sur un poisson des grandes profondeurs de l'Atlantique, l'Eurypharynx pelecanoïdes.* Comptes Rendus Acad. Sci. Paris, 1882, 1226-1228.
LÉON LOUIS VAILLANT.
- Eurypharynx** Vaillant, 1226; orthotype *E. PELECANOIDES* Vaillant.

 1883

1381. BEAN (1883). *Notes on Collection of Fishes Made in 1882 and 1883 by Capt. Henry E. Nichols, U. S. N., in Alaska and British Columbia, etc.* Proc. U. S. Nat. Mus., VI, 353-362.
TARLETON HOFFMAN BEAN.
- Prionistius** Bean, 355; orthotype *P. MACELLUS* Bean.
1382. COPE (1883). *A New Chondostrean (Crossopholis magnicaudatus) from the Eocene.* Amer. Naturalist, 1883, XVII, 1152-1153.
EDWARD DRINKER COPE.
- Crossopholis** Cope, 1152; orthotype *C. MAGNICAUDATUS* Cope (fossil).
1383. COPE (1883). *On the Fishes of the Recent and Pliocene Lakes of the Western Part of the Great Basin and of the Idaho Pliocene Lake.* Proc. Acad. Nat. Sci. Phila., 134-166.
EDWARD DRINKER COPE.
- Siphateles** Cope, 146; orthotype *S. VITTATUS* Cope. Young individual of a genus apparently valid, confused with *MYLOLEUCUS* Cope.
1384. COPE (1883). *On Some Vertebrata from the Permian of Illinois.* Proc. Acad. Nat. Sci. Phila., 108-110.
EDWARD DRINKER COPE.

Didymodus Cope, 108; orthotype *DIPLODUS GIBBOSUS* Ag. (fossil). Substitute for *DIPLODUS* Ag., preoccupied. *DIDYMODUS* is regarded as preoccupied by *DIDYMODON* and again replaced by *DICRANODUS* Garman. But there are apparently older synonyms. These teeth probably belong to the forms called *PLEURACANTHUS* or *ORACANTHUS*, known from fin-spines only. But it is impossible to coördinate the teeth with the spines, hence the occurrence of two parallel sets of generic names.

Thoracodus Cope, 108; orthotype *T. EMYDINUS* Cope (fossil). A synonym of *JANASSA* Münster.

1385. COPE (1883). *Fourth Contribution to the History of the Permian Formation of Texas*. Proc. Amer. Phila. Soc., XX, 628-629.

EDWARD DRINKER COPE.

Gnathorhiza Cope, 629; orthotype *G. SERRATA* Cope (fossil).

1386. COPE (1883). *On a New Extinct Genus of Percidæ from Dakota Territory*. Amer. Journ. Sci., XXV.

EDWARD DRINKER COPE.

Plioplarchus Cope, 416; orthotype *P. WHITII* Cope (fossil).

1387. COPE (1883). *Permian Fishes and Reptiles*. Proc. Acad. Nat. Sci. Phila.

EDWARD DRINKER COPE.

Ectosteorhachis Cope, 69; orthotype *E. CICERONIUS* Cope.

1388. DAMES (1883). *Ueber eine tertiäre Wirbelthier-Fauna von der westlichen Insel des Birket el Qurun im Fajum (Aegypten)*. Sitzb. Akad. Wiss. Berlin, VI, 129-152.

WILHELM BARNIM DAMES.

Propristis Dames, 136; orthotype *P. SCHWEINFÜRTHI* Dames (fossil).

Progymnodon Dames, 148; orthotype *P. HILGENDORF* Dames (fossil). An extinct analogue of *DIODON* L.

1389. DAVIS (1883). *On the Fossil Fishes of the Carboniferous Limestone Series of Great Britain*. Scient. Trans. Roy. Dublin Soc., 1883, II, ser. 1, 327-600.

JAMES WILLIAM DAVIS.

Compsacanthus Davis, 354; orthotype *C. CARINATUS* Davis (fossil).

Lispacanthus Davis, 359; logotype *L. GRACILIS* Davis (fossil).

Gnathacanthus Davis, 363; logotype *G. TRIANGULARIS* (fossil).

Cladacanthus (Agassiz) Davis, 364; orthotype *C. PARADOXUS* Ag. (fossil) (printed as name only in *Poissons Fossiles*, III, 176, 1843). A synonym of *ERISMACANTHUS* M'Coy (1848).

Chalazacanthus Davis, 370; orthotype *C. VERRUCOSUS* Davis (fossil).

Carcharopsis (Agassiz) Davis, 381; orthotype *C. PROTOTYPUS* Ag. (fossil) (name only in 1843). A synonym of *DICRENODUS* Romanowsky.

Glyphanodus Davis, 386; orthotype *G. TENUIS* Davis (fossil). A synonym of *PETALODUS*.

Rhamphodus Davis, 402; orthotype *R. DISPAR* Davis.

Diclitodus Davis, 410; orthotype *D. SCITULUS* Davis (fossil).

Tomodus (Agassiz) Davis, 446; orthotype *T. CONVEXUS* Morris & Roberts (fossil).

Copodus (Agassiz) Davis, 464; orthotype *C. CORNUTUS* Davis (fossil).

Lobodus (Agassiz) Davis, 468; orthotype *L. PROTOTYPUS* Ag. (fossil). A synonym of *COPODUS* (Ag.) Davis.

- Mesogomphus** (Agassiz) Davis, 470; orthotype *M. LINGUA* Ag. (fossil). A synonym of *COPODUS*.
- Rhymodus** (Agassiz) Davis, 473; orthotype *R. TRANSVERSUS* Ag. (fossil). A synonym of *COPODUS*.
- Pinacodus** (Agassiz) Davis, 476; orthotype *P. GONOFLAX* Ag. (fossil). A synonym of *COPODUS*.
- Characodus** (Agassiz) Davis, 474; orthotype *C. ANGULATUS* Ag. (fossil) (name only, printed by Morris & Roberts, 1862). Name preoccupied; a synonym of *COPODUS*.
- Dimyleus** (Agassiz) Davis, 478; orthotype *D. WOODI* (Ag.) Davis (fossil).
- Mylicodus** Davis, 480; orthotype *M. QUADRATUS* Davis (fossil). A synonym of *COPODUS*.
- Homalodus** Davis, 484; logotype *H. TRAPEZIFORMIS* Davis (fossil). A synonym of *PSAMMODUS* Ag.
- Petalodopsis** Davis, 499; orthotype *P. TRIPARTITUS* Davis (fossil). Name preoccupied; a synonym of *CTENOPTYCHIUS*.
- Pristodus** (Agassiz) Davis, 519; orthotype *P. FALCATUS* Davis (fossil).
- Phoderacanthus** Davis, 534; orthotype *P. GRANDIS* Davis (fossil).
1390. DE VIS (1883). *Descriptions of Some New Queensland Fishes*. Proc. Linn. Soc. New S. Wales, 1883, VII, 367-371.
CHARLES W. DE VIS.
- Cleidopus** De Vis, 367; orthotype *C. GLORIA-MARIS* De Vis. A synonym of *MONOCENTRIS* Bl. & Schn.
1391. FACCIOLÀ (1883). *Note sui pesci dello stretto di Messina*. Naturalista Siciliano, 1883, II, 145-148.
LUIGI FACCIOLÀ.
- Pelopsia** Facciola, 145; orthotype *P. CANDIDA* Facciola. Said to be the young of *CHLOROPHTHALMUS* Ag.
1392. GAUDRY (1883). *Les enhâînements du monde animal dans les temps géologiques. Fossiles primaires*.
JEAN ALBERT GAUDRY (1827-1908).
- Megapleuron** Gaudry, 239; orthotype *M. ROCHEI* Gaudry (fossil). A synonym of *SAGENODUS*.
1393. GIGLIOLI (1883). *Intorno a due nuovi pesci dal golfo di Napoli*. Zool. Anz., 1883, VI, 397-400.
ENRICO HILLYER GIGLIOLI.
- Bellottia** Giglioli, 399; orthotype *B. APODA* Giglioli.
1394. GIGLIOLI (1883). *New and Very Rare Fish from the Mediterranean*. (Part 2.) Nature.
ENRICO HILLYER GIGLIOLI.
- Bathyophilus** Giglioli, 199; orthotype *B. NIGERRIMUS* Giglioli.
1395. GILL (1883). (*Pediculate Fishes*.) Forest & Stream, November 8.
THEODORE GILL.
- Cryptopsaras** Gill, November 8, 1883; orthotype *C. COUESI* Gill.
- Typhlopsaras** Gill, 284; orthotype *T. SHUFELDTI* Gill. Apparently a synonym of *MANACALIAS* Gill.

1396. GILL (1883). *Diagnosis of New Genera and Species of Deep-sea Fish-like Vertebrates*. Proc. U. S. Nat. Mus., VI, 253-260.

THEODORE GILL.

Bathymyzon Gill, 254; orthotype *PETROMYZON BAIRDI* Gill.

Histiobranchus Gill, 255; orthotype *H. INFERNALIS* Gill.

Hyperchoristus Gill, 256; orthotype *H. TANNERI* Gill.

Sigmops Gill, 256; orthotype *S. STIGMATICUS* Gill.

Stephanoberyx Gill, 258; orthotype *S. MONÆ* Gill.

Plectromus Gill, 257; orthotype *P. SUBORBITALIS* Gill.

Caulolepis Gill, 258; orthotype *C. LONGIDENS* Gill.

Bassozetus Gill, VI, 259; orthotype *B. NORMALIS* Gill.

1397. GILL & RYDER (1883). *Diagnosis of New Genera of Nemichthyoid Eels*. Proc. U. S. Nat. Mus., 1883, VI, 260-262.

THEODORE GILL; JOHN ADAM RYDER (1852-95).

Labichthys Gill & Ryder, 261; orthotype *L. CARINATUS* Gill & Ryder.

Spinivomer Gill & Ryder, 261; orthotype *S. GOODEI* Gill & Ryder.

Serrivomer Gill & Ryder, 260; orthotype *S. BEANI* Gill & Ryder.

1398. GILL & RYDER (1883). *On the Anatomy and Relations of the Eurypharyngidæ*. Proc. U. S. Nat. Mus., 1883, VI, 262-273.

THEODORE GILL; JOHN ADAM RYDER.

Gastrostomus Gill & Ryder, 271; orthotype *G. BAIRDI* Gill & Ryder.

1399. GOODE (1883). *The Generic Names Amitra and Thyris Replaced*. Proc. U. S. Nat. Mus., VII.

GEORGE BROWN GOODE.

Monomitra Goode, 109; orthotype *AMITRA LIPARINA* Goode. Substitute for *AMITRA* Goode, 1880, regarded as preoccupied by *AMITRUS* Schönherr, a beetle.

Delothyris Goode, 109; orthotype *THYRIS PELLUCIDUS* Goode. Substitute for *THYRIS* Goode, preoccupied; larval form of *MONOLENE* Goode.

1400. JORDAN & GILBERT (1883). *Notes on the Nomenclature of Certain North American Fishes*. Proc. U. S. Nat. Mus., VI.

DAVID STARR JORDAN; CHARLES HENRY GILBERT.

Scytaliscus Jordan & Gilbert, 111; orthotype *SCYTALINA CERDALE* J. & G. Substitute for *SCYTALINA*, regarded as preoccupied by *SCYTALINUS*.

1401. KAYSER (1883). *Richthofen's Beiträge zur Palæontologie von China*. Berlin, 1883.

FRIEDRICH HEINRICH EMANUEL KAYSER (1845-).

Leptodus Kayser, 161; orthotype *L. RICHTHOFENI* Kayser (fossil).

1402. KOENEN (1883). *Beiträge zur Kenntniss der Placodermen des Norddeutschen Oberdevons*. Abh. Ges. Wiss. Göttingen, XXX.

ADOLF VON KOENEN.

Brachydirus Koenen, 26; orthotype *COCCOSTEUS INFLATUS* Koenen (fossil).

Anomalichthys Koenen, 38; orthotype *A. SCABER* Koenen (fossil).

1403. MACLEAY (1883). *On a New and Remarkable Fish of the Family Mugilidæ*. Proc. Linn. Soc. New S. Wales, VIII, 2-6.

WILLIAM MACLEAY.

Æschrichthys Macleay, 5; orthotype *A. GOLDIEI* Macleay.

1404. MACLEAY (1883). *Contributions to a Knowledge of the Fishes of New Guinea*, No. 4. Proc. Linn. Soc. New S. Wales, VIII, 252-282.

WILLIAM MACLEAY.

Tetracentrum Macleay, 256; orthotype *T. APOGONOIDES* Macleay.

1405. NEWBERRY (1883). *Some Interesting Remains of Fossil Fishes Recently Discovered*. Trans. N. Y. Acad. Sci., II, 144-147.

JOHN STRONG NEWBERRY.

Mylostoma Newberry, 145; logotype *M. TERRELLI* Newberry.

1406. ST. JOHN & WORTHEN (1883). *Descriptions of Fossil Fishes; a Partial Revision of the Cochliodonts and Psammodonts, Including Notices of Miscellaneous Material Acquired from the Carboniferous formations of the United States*. Geol. Surv. Ill., VII, 55-264.

ORESTES H. ST. JOHN; A. H. WORTHEN.

Tæniodus St. John & Worthen, 75; logotype *T. REGULARIS* St. John & Worthen (fossil). A synonym, as here restricted, of *PSEPHODUS* Ag.

Stenopterodus St. John & Worthen, 102; logotype *S. PLANUS* St. John & Worthen (fossil).

Vaticinodus St. John & Worthen, 82; logotype *V. VETUSTUS* St. John & Worthen (fossil).

Chitonodus St. John & Worthen, 112; logotype *C. SPRINGERI* St. John & Worthen (fossil).

Deltodopsis St. John & Worthen, 160; logotype *D. ANGUSTUS* St. John & Worthen (fossil).

Orthopleuroodus St. John & Worthen, 192; logotype *O. CONVEXUS* St. John & Worthen (fossil).

Acondylacanthus St. John & Worthen, 241; logotype *A. RECTUS* St. John & Worthen (fossil).

Eunemacanthus St. John & Worthen, 246; orthotype *CTENACANTHUS COSTATUS* Newberry & Worthen (fossil). A synonym of *CTENACANTHUS*.

Gymnatacanthus St. John & Worthen, 249; logotype *G. RUDIS* St. John & Worthen (fossil).

Batacanthus St. John & Worthen, 253; orthotype *B. NECIS* St. John & Worthen (fossil).

Pnigeacanthus St. John & Worthen, 259; orthotype *P. TRIGONALIS* St. John & Worthen (fossil).

1407. SAUVAGE (1883). *Note sur les poissons du muschelkalk de Pontpierre (Lorraine)*. Bull. Soc. Geol. (3), XI, 492-496.

HENRI ÉMILE SAUVAGE

Meristodon Sauvage, 480; orthotype *M. JURENSIS* Sauvage (fossil).

Paralates Sauvage, 485; orthotype *P. BLEICHERI* Sauvage (fossil).

Sparosoma Sauvage, 487; orthotype *S. OVALIS* Sauvage (fossil). Preoccupied by *SPARISOMA* Sw.

1408. SAUVAGE (1883). *Sur une collection de poissons recueillis dans le lac Biwako (Japon) par M. F. Steenackers*. Bull. Soc. Philom., Paris, 1883, ser. 7, VII, 144-150.

HENRI ÉMILE SAUVAGE.

Tribolodon Sauvage, 149; orthotype *T. PUNCTATUM* Sauvage.

1409. SAUVAGE (1883). *Descriptions de quelques poissons de la collection du museum d'histoire naturelle*. Bull. Soc. Philom., Paris, 1883, ser. 7, VII, 156-161.

HENRI ÉMILE SAUVAGE.

- Petroscirtes** Sauvage, 158; orthotype P. GERMANI Sauvage. Name preoccupied by PETROSCIRTES Rüppell.

1410. STEINDACHNER & DÖDERLEIN (1883). *Beiträge zur Kenntniss der Fische Japans*. Part 1. Denkschr. Akad. Wiss. Wien, 1883, XLVII, 1-34.

FRANZ STEINDACHNER; LUDWIG DÖDERLEIN.

- Melanostoma** Steindachner & Döderlein, 5; orthotype M. JAPONICUM Steindachner & Döderlein. Name preoccupied; replaced by SYNAGROPS Gthr., 1887.

- Neoditrema** Steindachner & Döderlein, 32; orthotype N. RANSONNETI Steindachner & Döderlein.

- Cypselichthys** Steindachner & Döderlein, 14; orthotype C. JAPONICUS Steindachner & Döderlein = LABRACOGLOSSA ARGENTIVENTRIS Peters. A synonym of LABRACOGLOSSA Peters.

- Paracirrhites** Steindachner & Döderlein, 25; orthotype P. JAPONICUS Steindachner & Döderlein. Name preoccupied; replaced by ISOBUNA Jordan, 1907.

- Doderleinia** Steindachner, 29; orthotype D. ORIENTALIS Steindachner & Döderlein.

- Acanthocephalus** (Döderlein) Steindachner, 29; orthotype DODERLEINIA ORIENTALIS Steind. A manuscript synonym of DODERLEINIA, noted in passing, being preoccupied.

- Labracopsis** Döderlein, 235; orthotype L. JAPONICUS Döderlein.

1411. STEINDACHNER & DÖDERLEIN (1883). *Beiträge zur Kenntniss der Fische Japans*. Part 2. Denkschr. Akad. Wiss. Wien, 1883, XLVIII, 1-40.

FRANZ STEINDACHNER; LUDWIG DÖDERLEIN.

- Argo** Döderlein, 34; orthotype A. STEINDACHNERI Döderlein. A synonym of TARACTES Lowe.

- Pentaceropsis** Steindachner & Döderlein, 13; logotype HISTIOPTERUS RECURVIOSTRIS Rich.

- Malakichthys** Döderlein, 32; orthotype M. GRISEUS Döderlein. Replaces SATSUMA Smith & Pope.

1412. THOMINOT (1883). *Notice sur un poisson de genre nouveau appartenant à la famille des Sparidés*. Bull. Soc. Philom., Paris, VII.

ALEXANDRE THOMINOT.

- Parhaplodactylus** Thominot, 140; orthotype HAPLODACTYLUS LOPHODON Gthr.

1413. THOMINOT (1883). *Note sur le genre Aplodon, poisson de la famille des Sparidés voisin des girelles*. Bull. Sci. Philom., Paris, VII.

ALEXANDRE THOMINOT.

- Aplodon** (Duméril) Thominot, 141; logotype A. MARGARITIFERUM Duméril. Mss. also written HAPLODON; both forms preoccupied. Said to be a synonym of INCISIDENS Gill.

1414. TRAUTSCHOLD (1883). *Ueber Edestus und einige andere Fischreste des moskauer Bergkalks*. Bull. Soc. Imp. Nat. Moscou, LVII, pt. 2, 160-174.

HERMANN VON TRAUTSCHOLD.

- Euacanthus** Trautschold, 172; orthotype E. MARGARITATUS Trautschold (fossil).

1884.

1415. CLAYPOLE (1884). *Preliminary Note on Some Fossil Fishes Recently Discovered in the Silurian Rocks of North America.* Amer. Naturalist, XVIII, 1222-1226.

EDWARD WALLER CLAYPOLE (1835-1901).

Palæaspis Claypole, 1224; orthotype *P. AMERICANA* Claypole (fossil).

1416. DAVIS (1884). *On some Remains of Fossil Fishes from the Yoredale Series at Leyburn in Wensleydale.* Quart. Journ. Geol. Soc., 1884, XL, 614-634.

JAMES WILLIAM DAVIS.

Gomphacanthus Davis, 618; orthotype *G. ACUTUS* Davis (fossil).

Hemicladodus Davis, 620; orthotype *H. UNICUSPIDATUS* Davis (fossil). An unidentified fragment of a tooth.

Astrabodus Davis, 630; orthotype *A. EXPANSUS* Davis (fossil). A synonym of *PSAMMODUS*.

Echinodus Davis, 631; orthotype *E. PARADOXUS* Davis (fossil).

Cyrtonodus Davis, 631; orthotype *C. GIBBUS* Davis (fossil).

Diplacodus Davis, 633; orthotype *D. BULBOIDES* Davis (fossil).

1417. DAVIS (1884). *Description of a New Genus of Fossil Fishes from the Lias.* Ann. Mag. Nat. Hist., ser. 5, XIII, 448-453.

JAMES WILLIAM DAVIS.

Lissolepis Davis, 449; orthotype *L. SERRATUS* Davis (fossil).

1418. DE VIS (1884). *Descriptions of New Genera and Species of Australian Fishes.* Proc. Linn. Soc., New S. Wales, for 1883 (1884), VIII, 283-289.

CHARLES W. DE VIS.

Dactylophora De Vis, 284; orthotype *D. SEMIMACULATA* De Vis. Same as *PSILOCRANIUM* Macleay of the same year.

Leme De Vis, 286; orthotype *L. MORDAX* De Vis.

1419. DE VIS (1884). *Fishes from South Sea Islands.* Proc. Linn. Soc., New S. Wales, VIII, 445-457.

CHARLES W. DE VIS.

Harpag De Vis, 447; orthotype *H. ROSEA* De Vis.

Nesiotes De Vis, 453; orthotype *N. PURPURASCENS* De Vis. A synonym of *PSEUDOCROMIS* Rüppell.

Trachycephalus De Vis, 455; orthotype *T. BANKANIENSIS* De Vis. Name preoccupied; a synonym of *AMPHIPRIONICHTHYS* Blkr., 1855.

1420. FACCIOLÀ (1884). *Note sui pesci dello stretto di Messina.* Naturalista Sicili., III, 111-114.

LUIGI FACCIOLÀ.

Hypsirhynchus Facciolà, 112; orthotype *H. HEPATICUS* Facciolà.

- 1421-1422. FILHOL (1884). *Explorations sous-marines: voyage du Talisman.* La Nature, 1884, 182-186.

HENRI FILHOL (1843—).

Neostoma Filhol, 184; orthotype *N. BATHYPHILUM* Filhol.

Eustomias Filhol, 185; orthotype *E. OBSCURUS* Filhol.

1423. GARMAN (1884). *New Sharks: Chlamydoselachus anguineus and Heteranchias pectorosus*. Bull. Essex Instit., 1884, XVI, 3-15.

SAMUEL GARMAN.

Chlamydoselachus Garman, 8; orthotype *C. ANGUINEUS* Garman.

1424. GILBERT (1884). *A List of Fishes Collected in the East Fork of the White River, Indiana, with Descriptions of Two New Species*. Proc. U. S. Nat. Mus., VII, 199-205.

CHARLES HENRY GILBERT.

Hypargyrus (Forbes) Gilbert, 200; orthotype *HYBOPSIS TUDITANUS* Cope. A synonym of *CERATICHTHYS* Baird (*CLIOLA* Grd.).

Serraria Gilbert, 205; orthotype *HADROPTERUS SCIERUS* Swain.

1425. GILL (1884). *On the Anacanthine fishes*. Proc. Acad. Nat. Sci., Phila., 1884.

THEODORE GILL.

Lycenchelys Gill, 180; orthotype *LYCODES MURENA* Collett.

Lycocara Gill, 180; orthotype *OPHIDIUM PARRII* Ross. A substitute for *URONECTES* Gthr., preoccupied.

1426. GILL (1884). *Synopsis of the genera of the superfamily Teuthidoidea (families Teuthididae and Siganidae)*. Proc. U. S. Nat. Mus., VII, 1884.

THEODORE GILL.

Ctenochætus Gill, 279; orthotype *ACANTHURUS STRIGOSUS* Bennett. Replaces *CTENODON* (Bon.) Klunzinger, preoccupied.

Colocopus Gill, 279; orthotype *C. LAMBDURUS* Gill = *ACANTHURUS HEPATUS* Bl. & Schn., not *TEUTHIS HEPATUS* L.

1427. GILL (1884). *Synopsis of the Plectognath Fishes*. Proc. U. S. Nat. Mus., VII.

THEODORE GILL.

Masturus Gill, 425; orthotype *ORTHAGORISCUS OXYUROPTERUS* Blkr.

1428. GILL (1884). (*Derichthys*, etc.) American Naturalist, XVIII.

THEODORE GILL.

Derichthys Gill, 433; orthotype *D. SERPENTINUS* Gill.

Acanthochænus Gill, 433; orthotype *A. LUTKENI* Gill. Perhaps a synonym of *STEPHANOBERYX* Gill.

1429. GÜRICH (1884). (*Eupleurodus*) Zeitschr. Deutsch. Geol. Ges., XXXVI. GEORG GÜRICH (1859-).

Eupleurodus Gürich, 142; orthotype *E. SULCATUS* Gürich (fossil) = *AMPHALODUS CHORZOWIENSIS* Meyen. A synonym of *ASTERODON* Münster.

1430. JORDAN & SWAIN (1884). *A Review of the American Species of Marine Mugilidae*. Proc. U. S. Nat. Mus., VII, 261-275.

DAVID STARR JORDAN; JOSEPH SWAIN (1857-).

Liza Jordan & Swain, 261; orthotype *MUGIL CAPITO* Cuv.

1431. JORDAN & SWAIN (1884). *A Review of the Species of the Genus Hamulon*. Proc. U. S. Nat. Mus., VII.

DAVID STARR JORDAN; JOSEPH SWAIN

Lythrulon Jordan & Swain, 284; orthotype *HÆMULON FLAVIGUTTATUS* Gill.

1432. KLUNZINGER (1884). *Die Fische des Rothen Meeres. Eine kritische Revision mit Bestimmungs-Tabellen. I. Theil. Acanthopteri veri Owen*, Stuttgart, 133.

CARL BENJAMIN KLUNZINGER.

Hyposerranus Klunzinger, 3; logotype *SERRANUS MORRHUA* Cuv. & Val. A substitute for *EPINEPHELUS* Bloch. because not originally clearly defined. A synonym of *EPINEPHELUS* Bloch, as restricted. "Bleeker nent die *SERRANUS* jetzt *EPINEPHELUS*. Diese Sucht, alte Namen hervorzosuchen, halte ich für verfehlt, wenigstens in fällen wie hier . . . Bloch hat allerdings verschiedene Arten dieser Gattung unter *EPINEPHELUS* aufgeführt, die Gattungsdiagnose ist aber nichtssagend" (Klunzinger). But relatively few original diagnoses are adequate until amended, and to give a new name with each new definition would lead to endless confusion. In fact, much of the chaos which rules are intended to remove is due to the method advocated by Klunzinger and justified by rule 12 of the British Association (1865, 1869), now superseded, whereby a name not fully defined should be changed if its meaning is not clearly expressed at first.

Anisochætodon Klunzinger, 54; logotype *CHÆTODON AURIGA*. A substitute for *LINOPHORA* Kaup and *OXYCHÆTODON* Blkr., the definition being changed. A synonym of *LINOPHORA* Kaup.

Ctenodon (Bonaparte) Klunzinger, 85; orthotype *ACANTHURUS STRIGOSUS* Bennett. Name preoccupied; replaced by *CTENOCHÆTUS* Gill, 1884.

Hypocaranx Klunzinger, 92; logotype *SCOMBER SPECIOSUS* Bloch. A synonym of *GNATHANODON* Blkr. Under the new name of *HYPOCARANX*, Klunzinger includes Bleeker's genera, *HEMICARANX*, *GNATHANODON*, *SELAROIDES*, and *URASPIS*. His conception of a genus is that of a compartment of species, its name to be changed whenever the walls are altered. But in modern nomenclature a genus is a group of species clustered around a type which may be arbitrarily chosen. The oldest type-name included (unless preoccupied) gives its name to the whole. *HYPOCARANX* is inadmissible, being merely a synonym of *GNATHANODON* Blkr., its first species mentioned (*SPECIOSUS*) being the type of *GNATHANODON*. The same remarks apply to *PSEUDOSERRANUS* Klunzinger (1870), a substitute for the earlier names *SERRANUS* and *VARIOLA*.

1433. LANKESTER (1884). *Report on Fragments of Fossil Fishes from the Paleozoic Strata of Spitzbergen*. Svensk. Vet. Akad. Handl., 1884, XX, 1-7.

EDWIN RAY LANKESTER.

Lophostracon Lankester, 5; orthotype, *L. SPITZBERGENSE* Lankester (fossil).

1434. MACLEAY (1884) *On a New Genus of Fishes from Port Jackson*. Proc. Linn. Soc., New S. Wales, VIII, 439-443.

WILLIAM MACLEAY.

Psilocranium Macleay, 439; orthotype *P. COXII* Macleay. Same as *DACTYLOPHORA* De Vis, of the same year. McCulloch gives the latter name precedence.

1435. SAUVAGE (1884). *Contribution a la faune ichthyologique du Tonkin*. Bull. Soc. Zool. France, 1884, VII, ser. 7, 150-155.

HENRI ÉMILE SAUVAGE.

Gymnognathus Sauvage, 214; orthotype *G. HARMANDI* Sauvage. Name preoccupied; gives place to *ASPIDOLUCIUS* Berg.

1436. SAUVAGE (1884). *Sur un siluroïde de l'île de la Réunion*. Bull. Soc. Philom., Paris, 1884, VII, sér. 8, 147-148.
HENRI ÉMILE SAUVAGE.
Laimumena Sauvage, 147; orthotype *L. BORBONICA* Sauvage.
1437. STEINDACHNER (1884). *Ichthyologische Beiträge*, XIII. Sizgb. Akad. Wiss. Wien, 1883 (1884); 1 Abth., LXXXVIII, 1065-1114.
FRANZ STEINDACHNER.
Parapercis Steindachner, 1071; orthotype *P. RAMSAYI* Steind. Name preoccupied; replaced by *NEOPERCIS* Steind.
Peronedys Steindachner, 1083; orthotype *P. ANGUILLARIS* Steind.
Neopatæcus Steindachner, 1087; orthotype *PATÆCUS MACULATUS* Gthr.
Austrolabrus Steindachner, 1100; orthotype *LABRICHTHYS MACULATA* Macleay.
1438. THOMINOT (1884). *Note sur un poisson de la famille des Cyprinodontidæ*. Bull. Soc. Philom., Paris, VII, sér. 8, 149-158.
ALEXANDRE THOMINOT.
Rhodeoides Thominot, 150; orthotype *R. VAILLANTI* Thominot.
1439. TRAQUAIR (1884). *Notice of New Fish remains from the Blackband Ironstone of Borough Lee, near Edinburgh*, No. 5. Geol. Mag., 1884, III, dec. 1, 64-65.
RAMSAY HEATLEY TRAQUAIR.
Aganacanthus Traquair, 64; orthotype *A. STRIATUS* Traquair (fossil).
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- 1885.**
1440. BEAN (1885). *On Stathmonotus, a New Genus of Fishes Related to Murænoides, from Florida*. Proc. U. S. Nat. Mus., 1885, VIII, 191-192.
TARLETON HOFFMAN BEAN.
Stathmonotus Bean, 191; orthotype *S. HEMPHILLI* Bean.
1441. CLAYPOLE (1885). *On the Recent Discovery of Pteraspidian Fish in the Upper Silurian Rocks of North America*. Quart. Journ. Geol. Soc., XLI.
EDWARD WALLER CLAYPOLE.
Palæaspis Claypole, 62; orthotype *P. AMERICANA* Claypole (fossil): (detailed account).
1442. COCCO (1885). *Indice ittiologico del mare di Messina*. Naturalista Siciliana, V.
ANASTASIO COCCO.
Sympropterus Cocco, 294; orthotype not stated by Hilgendorf. A *Paralepis*, with dorsal and anal joined to caudal; perhaps a monstrosity; mentioned by Bonaparte, 1846.
1443. COPE (1885). *Eocene Paddle-Fish and Gonorrhynchidæ*. Amer. Nat., XIX, 1090-91.
EDWARD DRINKER COPE.
Notogoneus Cope, 1091; orthotype *N. OSCULUS* Cope (fossil).
1444. DAVIS (1885). *The Fossil Fishes of the Chalk of Mount Lebanon*. Royal Dublin Society, 1885, ser. 2., III, 457-636.
JAMES WILLIAM DAVIS.

- Centrophoroides** Davis, 478; orthotype *C. LATIDENS* Davis (fossil).
- Rhinognathus** Davis, 480; orthotype *R. LEWISI* Davis. Name preoccupied, replaced by *SCAPANORHYNCHUS* Woodw., 1889.
- Spathiurus** Davis, 503; orthotype *S. DORSALIS* Davis (fossil).
- Amphilaphurus** Davis, 504; orthotype *A. MAJOR* Davis (fossil) = *SPATHIURUS DORSALIS* Davis. A synonym of *SPATHIURUS*.
- Xenopholis** Davis, 548; orthotype *X. CARINATUS* Davis (fossil).
- Exocœtoides** Davis, 551; orthotype *E. MINOR* Davis (fossil).
- Lewisia** Davis, 593; orthotype *L. OVALIS* Davis = *CLUPEA LATA* Ag. (fossil). A synonym of *SPANIODON* Pictet.
- Pantopholis** Davis, 599; orthotype *P. DORSALIS* Davis (fossil).
- Eurygnathus** Davis, 601; logotype *E. MAJOR* Davis (fossil). A synonym of *ENCHODUS* Ag.
- Phylactocephalus** Davis, 605; orthotype *P. MICROLEPIS* Davis (fossil). A synonym of *HALEC* Ag.
1445. DE VIS (1885). *New Australian Fishes in the Queensland Museum*. Proc. Linn. Soc. New S. Wales, IX, 389-400, 537-547, etc.
CHARLES W. DE VIS.
- Herops** De Vis, 392; orthotype *H. MUNDA* De Vis. A synonym of *KUHLIA* Gill.
- Homodemus** De Vis, 395; orthotype *H. CAVIFRONS* De Vis. A synonym of *OLIGORUS* Gthr.
- Autistes** De Vis, 398; orthotype *A. ARGENTUS* De Vis. A synonym of *THERAPON* Cuv.
- Hephæstus** De Vis, 399; orthotype *H. TULLIENSIS* De Vis, *THERAPON FULIGINOSUS* Macleay. A synonym of *THERAPON* Cuv.
- Neoniphon** De Vis, 537; orthotype *N. HASTA* De Vis. Preoccupied by Castelnau, 1875.
1446. DE VIS (1885). *New Fishes in the Queensland Museum*. Proc. Linn. Soc. New S. Wales, 1885, IX, 869-887.
CHARLES W. DE VIS.
- Onar** De Vis, 875; orthotype *O. NEBULOSUM* De Vis. A synonym of *PSEUDOCROMIS* Rüppell.
- Torresia** De Vis, 881; orthotype *T. LINEATA* De Vis.
- Julichthys** De Vis, 884; orthotype *J. INORNATA* De Vis.
1447. FACCIOLA (1885). *Su di alcuni rari Pleuronettidi del Mar di Messina. Nota preliminare*. Nat. Sicil., IV, 261-266.
LUIGI FACCIOLÀ.
- Charybdia** Facciola, 265; orthotype *PELORIA RUPPELII* Cocco. A larval flounder, perhaps young of *PLATOPHRYS* Sw.
1448. FISCHER (1885). *Ichthyologische und herpetologische Bemerkungen*. Jahrb. Hamburg. Wiss. Anstalten, 1885, II, 49-119.
JOHANN GUSTAV FISCHER (1819-1889).
- Sclerocottus** Fischer, 58; orthotype *S. SCHRADERI* Fischer.
- Gymnelichthys** Fischer, 61; orthotype *G. ANTARCTICUS* Fischer.
1449. FORBES (1885). *Description of New Illinois Fishes*. Bull. Illinois Lab. Nat. Hist., II.
STEPHEN ALFRED FORBES (1848-).
- Oxygenium** Forbes, 136; orthotype *O. PULVERULENTUM* Forbes.

1450. GARMAN (1885). *The Generic Name of the Pastinacas or Sting Rays*. Proc. U. S. Nat. Mus., VIII.

SAMUEL GARMAN.

- Dasybatus** (Klein) Garman, 221; orthotype *RAJA PASTINACA* L. A revival of a non-binomial name of Klein as reprinted by Walbaum in place of *DASYTIS* Raf. and *TRYGON* (Adanson) Geoffroy.

1451. GARMAN (1885). *Chlamydoselachus anguineus Garm., a Living Representative of Cladodont Sharks*. Bull. Mus. Comp. Zool. Harvard College, XII.

SAMUEL GARMAN.

- Pternodus** Garman, 6; orthotype *PHÆBODUS SPRINGERI* St. John & Worthen (fossil). Name preoccupied by *PTERNODUS* Owen, 1867; probably a synonym of *PHÆBODUS*.

- Dicranodus** Garman, 30; orthotype *DIDYMODUS TEXENSIS* Cope (fossil). Substitute for *DIDYMODUS* Cope, regarded as preoccupied by *DIDYMODON* Blake, 1863, a mammal; perhaps same as *DITTODUS* Owen and *ORTHACANTHUS* Ag.

1452. GILL (1885). *Riverside Natural History*. Edited by John Sterling Kingsley. III. *Lower Vertebrates*, Chapter *ACANTHOPTERYGIANS*.

THEODORE GILL.

- Phrynotitan** Gill, 255; orthotype *BATRACHUS GIGAS*, the author not stated, the name not found by me.

1453. GOODE & BEAN (1885). *On American Fishes in the Linnaean Collection*. Proc. U. S. Nat. Mus., VIII.

GEORGE BROWN GOODE; TARLETON HOFFMAN BEAN.

- Borborys** (Broussonet Ms.) Goode & Bean, 205; orthotype *COBITIS HETEROCLITUS* L. A synonym of *FUNDULUS* Lac.

1454. GOODE & BEAN (1885). *Descriptions of New Fishes Obtained by the United States Fish Commission, Mainly from Deep Water Off the Atlantic and Gulf Coasts*. Proc. U. S. Nat. Mus., VIII, 589-605.

GEORGE BROWN GOODE; TARLETON HOFFMAN BEAN.

- Neobythites** Goode & Bean, 601; orthotype *N. GILLI* G. & B.

- Porogadus** Goode & Bean, 602; orthotype *P. MILES* G. & B.

- Bathyonus** Goode & Bean, 603; logotype *B. CATENA* G. & B.

1455. GOODE & BEAN (1885). *Description of a New Genus and Species of Peditulate Fishes (Halieutella lappa)*. Proc. Biol. Soc. Wash., II, 88.

GEORGE BROWN GOODE; TARLETON HOFFMAN BEAN.

- Halieutella** Goode & Bean, 88; orthotype *H. LAPPA* G. & B.

1456. JORDAN (1885). *Identification of the Species of Cyprinidæ and Catostomidæ Described by Dr. Charles Girard, etc. (1856)*. Proc. U. S. Nat. Mus., VIII.

DAVID STARR JORDAN.

- Luxilinus** Jordan, 126; orthotype *LUXILUS OCCIDENTALIS* Baird & Girard = young of *LAVINIA EXILICAUDA* Baird & Grd. A synonym of *LAVINIA* Baird & Grd.

1457. JORDAN (1885). *A Catalogue of the Fishes Known to Inhabit the Waters of North America North of the Tropic of Cancer*. Rept. U. S. Fish Comm. for 1885 (1887). (Reprint issued 1885.)

DAVID STARR JORDAN.

- Crystallaria** Jordan & Gilbert, 78; orthotype *PLEUROLEPIS ASPRELLUS* Jordan.

- Rhothœca** Jordan, 80; orthotype *PÆCILICHTHYS ZONALIS* Cope. Substitute for *NANOSTOMA* Putnam, regarded as preoccupied by *NANNOSTOMUS* Gthr.

- Artediellus** Jordan, 110; orthotype *COTTUS UNGINATUS* Reinh.
- Icelinus** Jordan, 110; orthotype *ARTEDIUS QUADRISERIATUS* Lockington.
- Otophidium** (Gill MS.) Jordan, 126; orthotype *GENYPTERUS OMOSTIGMA* J. & G.
- Pleurogadus** (Bean) Jordan, 130; orthotype *GADUS NAVAGA* Kölr. A substitute for *TILESIA*, preoccupied. A synonym of *ELEGINUS* Fischer, 1813, not of Cuvier & Valenciennes, 1830.
- Aramaca** (Jordan & Goss) Jordan, 133; orthotype *CITHARICHTHYS PÆTULUS* J. & G. = *PLEURONECTES ARAMACA* Dönnndorf = *PLEURONECTES PAPILLOSUS* L. A synonym of *SYACIUM* Ranz.
- Eopsetta** Jordan & Goss, 135; orthotype *HIPPOGLOSSOIDES JORDANI* Lockington.
- Lyopsetta** Jordan & Goss, 135; orthotype *HIPPOGLOSSOIDES EXILIS* J. & G.
- Inopsetta** Jordan and Goss, 136; orthotype *PAROPHRYUS ISCHYRUS* J. & G.
1458. JORDAN & MEEK (1885). *A Review of the American Species of Flying-fish.* (EXOCÆTUS.) Proc. U. S. Nat. Mus., VIII.
DAVID STARR JORDAN; SETH EUGENE MEEK (1859-1914).
- Fodiator** Jordan & Meek, 45; orthotype *EXOCÆTUS ACUTUS* Cuv. & Val.
1459. KRAMBERGER (1885). *Palæontologische Beiträge.* Soc. Hist. Nat. Croatia Rad. Jugoslav. Akad., LXXII.
DRAGUTIN GORJANOVIC KRAMBERGER.
- Holcodon** Kramberger, 19; orthotype *SOLENODON NEOCOMIENSIS* Kramberger = *SAUROCEPHALUS LYCODON* Kner (fossil). Name a substitute for *SOLENODON* Kramberger, preoccupied; thought to be a synonym of *ENCHODUS*.
- Hypsopondylus** Kramberger, 31; orthotype *H. BASSANI* Kramberger (fossil).
- Mesiteia** Kramberger, 54; orthotype *M. EMILÆ* Kramberger.
1460. KUNISCH (1885). *Dactylolepis gogoliensis.* Zool. Geol. Ges., XXXVII, 588-594.
HERMANN KUNISCH (1853-1893).
- Dactylolepis** Kunisch, 588; orthotype *D. GOGOLIENSIS* Kunisch (fossil). A synonym of *COLOLOBUS* Ag.
1461. LAUBE (1885). *Ein Beiträge zur Kenntniss der Fische des böhmischen Turons.* Denk. Akad. Wiss. Wien., 1. Abth., 285-298.
GUSTAV CARL LAUBE (1839-).
- Protelops** Laube, 286; orthotype *P. GEINITZII* Laube (fossil).
1462. MARCK (1885). *Fische der oberen Kreide Westfalens.* Palæontographica, 1885, XXXI, 233-267.
W. VON DER MARCK.
- Charitosomus** Marck, 257; orthotype *C. FORMOSUS* Hosijs & von der Marck (fossil).
1463. MOCQUARD (1885). *Sur un nouveau genre de Blenniüde voisin des Clinus.* Bull. Soc. Philom. Paris, 1885, 18-20.
M. MOCQUARD.
- Acanthoclinus** Mocquard, 18; orthotype *A. CHAPERI* Mocquard. Name preoccupied; replaced by *PARACLINUS* Mocquard (1886).
1464. NEWBERRY (1885). *Description of Some Gigantic Placoderm Fishes Recently Discovered in the Devonian of Ohio.* Trans. N. Y. Acad. Sci., 1885, V, 25-28.
JOHN STRONG NEWBERRY.
- Titanichthys** Newberry, 27; orthotype *T. AGASSIZI* Newberry.

1465. NEWBERRY (1885). *Description of Some Peculiar Screw-like Fossils from the Chemung Rocks*. Ann. N. Y. Acad. Sci., XVIII, 217-220.
JOHN STRONG NEWBERRY.
- Spiraxis** Newberry, 219; orthotype S. MAJOR Newberry. Name preoccupied; replaced by PROTOSPIRAXIS Williams.
1466. NOETLING (1885). *Die Fauna des sammländischen Tertiäres. (Pisces.)* Abh. Geol. Spec. Preuss., 1885, VI, 3-106.
FRITZ NOETLING (1857-).
- Pseudosphærodon** Noetling, 104; orthotype P. HÜLGENDORFI Noetling (fossil).
1467. OGILBY (1885). *Notes and Descriptions of Some Rare Port Jackson Fishes*. Proc. Linn. Soc. New S. Wales, X.
JAMES DOUGLAS OGILBY (1848-).
- Petraites** Ogilby, 225; orthotype P. HEPTACOLUS Ogilby.
1468. ROCHEBRUNE (1885). *Poissons de la Rivière Casamence, Afrique occidentale*. Bull. Sci. Philom. Paris, IX.
ALPHONSE TRÉMEAU DE ROCHEBRUNE.
- Gyrinostomus** Rochebrune, 96; orthotype G. MARCHEI Rochebrune.
1469. STEINDACHNER & DÖDERLEIN (1885). *Beiträge zur Kenntniss der Fische Japans*. (3) Denkschr. Akad. Wiss. Wien, XLIX.
FRANZ STEINDACHNER; LUDWIG DÖDERLEIN.
- Neopercis** Steindachner, 212; orthotype PERCIS RAMSAYI Steind. Substitute for PARAPERCSIS Steind., preoccupied.

1886.

1470. BASSANI (1886). *Sui fossili e sull' età degli scisti bituminosi triasici di Besano in Lombardia*. Atté. Soc. Ital. Sci. Nat., XXIX.
FRANCESCO BASSANI.
- Nothosomus** Bassani, 37; orthotype N. BELLOTTI Bassani (fossil).
1471. COLLETT (1886). *On a New Pediculate Fish from the Sea off Madeira (Linophryne lucifer)*. Proc. Zool. Soc. London, 138-142.
ROBERT COLLETT.
- Linophryne** Collett, 138; orthotype L. LUCIFER Collett.
1472. COPE (1886). *Fossil Fishes from Brazil*. Proc. Amer. Phil. Soc., XXIII.
EDWARD DRINKER COPE.
- Apocopodon** Cope, 2; orthotype A. SERICEUS Cope (fossil).
- Chiromystus** Cope, 4; orthotype C. MAWSONI Cope (fossil).
1473. COPE (1886). *On Two New Forms of Polyodont and Gonorhynchid Fishes from the Rocky Mountains*. Mem. Nat. Acad. Sci., Washington, III.
EDWARD DRINKER COPE.
- Crossophilus** Cope, 162; orthotype C. MAGNICAUDATUS Cope.
1474. COPE (1886). *An Interesting Connecting Genus of Chordata*. Amer. Nat., XX.
EDWARD DRINKER COPE.
- Mycterops** Cope, 1027; orthotype M. ORDINATUS Cope. (Said by Woodward to be an EURYPTERID CRUSTACEAN.)

1475. FRITSCH (1886). *Ergebnisse der Vergleichen an den elektrischen Organen der Torpedinen*. Arch. Anat. Physiol., 358-370.

GUSTAV THEODOR FRITSCH.

Gymnotorpedo Fritsch, 365; logotype TORPEDO OCCIDENTALIS Storer.

Fimbriotorpedo Fritsch, 365; logotype TORPEDO MARMORATA Risso = RAJA TORPEDO L. A synonym of TORPEDO Duméril, and of authors.

1476. GOODE & BEAN (1886). *Reports on the Results of Dredging, under the supervision of Alexander Agassiz, in the Gulf of Mexico (1877-78) and in the Caribbean Sea (1879-80), by the U. S. Coast Survey steamer "Blake," etc.* Bull. Mus. Comp. Zool., Harvard Coll., 1886, XII, no. 5, 153-170.

GEORGE BROWN GOODE; TARLETON HOFFMAN BEAN.

Barathronus Goode & Bean, 164; orthotype, B. BICOLOR G. & B.

Benthosaurus Goode & Bean, 168; orthotype B. GRALLATOR G. & B.

1477. JORDAN (1886). *List of Fishes Collected at Havana, Cuba, in December, 1883, with notes and descriptions*. Proc. U. S. Nat. Mus. IX.

DAVID STARR JORDAN.

Scartella Jordan, 50; orthotype BLENNIUS MICROSTOMUS Poey.

1478. JORDAN & EVERMANN (1886). *Description of Six New Species of Fishes from the Gulf of Mexico, with Notes on Other Species*. Proc. U. S. Nat. Mus., 1886, IX, 466-476. (September 17.)

DAVID STARR JORDAN; BARTON WARREN EVERMANN.

Steinegeria Jordan & Evermann, 467; orthotype S. RUBESCENS J. & E.

1479. JORDAN (1886). *Notes on Typical Specimens of Fishes Described by Cuvier and Valenciennes and preserved in the Musée d'Histoire Naturelle in Paris*. Proc. U. S. Nat. Mus., 1886, IX, 525-546.

DAVID STARR JORDAN.

Marcgravia Jordan, 546; orthotype BATRACHUS CRYPTOCENTRUS Cuv. & Val. A synonym of AMPHICHTHYS Sw., the name later changed to MARCGRAVICHTHYS by Ribeiro, because MARCGRAVIA is used in Botany.

1480. JORDAN (1886). *A Preliminary Catalogue of the Fishes of the West Indies*. Proc. U. S. Nat. Mus., IX.

DAVID STARR JORDAN.

Amiichthys (Poey), Jordan, 586; orthotype ——— DIAPTERUS Poey (1861). Only the specific name of this fish was published by Poey.

1481. JORDAN & FORDICE (1886). *A Review of the American Species of Belonidae*. Proc. U. S. Nat. Mus., IX.

DAVID STARR JORDAN; MORTON W. FORDICE.

Athlennes Jordan & Fordice, 342; orthotype BELONE HIANS Cuv. & Val. See ABLENNES, of which word ATHLENNES was an accidental slip in writing.

Ablennes Jordan & Fordice, 342; orthotype BELONE HIANS Cuv. & Val. Misprinted ATHLENNES, an orthography accepted by Jordan & Evermann, but altered to the correct Greek form from ἀβλέννης (sans mucosité, an old name for the needlefish), by a decision of the International Commission on Nomenclature.

1482. LARRAZET (1886). *Des Pièces de la peau de quelques sélaciens fossiles*. Bull. Soc. Geol. France, 1886, III, ser. 14, 255-277.

AUGUSTIN LARRAZET (1855-) .

Dynatobatis Larrazet, 258; logotype D. PARANENSIS Larrazet (fossil).

Acanthobatis Larrazet, 258; orthotype A. EXIMIA Larrazet (fossil).

1483. MACLEAY (1886). *A Remarkable Fish from Lord Howe Island*. Proc. Linn. Soc. New South Wales, 1886, X, 718-720.

WILLIAM MACLEAY.

Ctenodax Macleay, 718; orthotype C. WILKINSONI Macleay. A synonym of TETRAGONURUS Risso.

1484. MIKLUKHO-MACLAY & MACLEAY (1886). *Plagiostomata of the Pacific*. III. Proc. Linn. Soc. N. South Wales, 1886, X, 674-684.

NICOLAI NICOLAEVICH MIKLUKHO-MACLAY; WILLIAM MACLEAY.

Discobatis Miklukho-Maclay & Macleay, 676; orthotype D. MARGINIPINNIS Miklukho-Maclay & Macleay = RAJA LYMMA Forskål. A synonym of TÆNIURA M. & H.; not DISCOBATUS Garman.

1485. ROMANOVSKY (1886). (*Lyrolepis*). Geol. Soc. St. Petersburg, XXII.

GHENNADI DANILOVICH ROMANOVSKY.

Lyrolepis Romanovsky, 304; orthotype L. CAUCASICUS Romanovsky (fossil).

1486. STORMS (1886). *Note sur un nouveau genre de poisson fossile de l'argile rupélienne*. Ann. Soc. Geol. Belgique. XIII. 261-266.

RAYMOND STORMS.

Amphodon Storms, 265; orthotype A. BENEDENI Storms (fossil). Regarded as preoccupied by AMPHODUS Peters, 1872; replaced by SCOMBRAMPHODON Woodw., 1901.

1487. SZAJNOCHA (1886). *Ueber fossile Fische von Monte Bolca bei Verona*. Pam. Akad. Krakau, XII, (text in Polish).

WLADYSŁAW SZAJNOCHA (1857-).

Hacquetia Szajnocha, 3; orthotype H. BOLCENSIS Szajnocha (fossil).

1488. TRAQUAIR (1886). *On Harpacanthus, a New Genus of Carboniferous selachian spines*. Ann. Mag. Nat. Hist., 1886, 5 ser., XVIII, 493-496.

RAMSAY HEATLEY TRAQUAIR.

Harpacanthus Traquair, 493; orthotype TRISTYCHIUS FIMBRIATUS Stock. (fossil).

1489. VAILLANT (1886). *Considerations sur les poissons des grandes profondeurs et en particulier sur . . . les Abdominales*. Comptes Rendus, Ac. Sci. Paris, CIII.

LÉON LOUIS VAILLANT.

Anomalopterus Vaillant, 1239; orthotype A. PINGUIS Vaillant.

Leptoderma Vaillant, 1239; orthotype L. MACROPS Vaillant.

1490. WETTSTEIN (1886). *Ueber die Fischfauna des tertiären Glarner Schiefers*. Abh. Schweiz. Paläont. Ges., XIII, 1-103.

ALEXANDER WETTSTEIN (1861-1887).

Scopeloides Wettstein, 55; orthotype OSMERUS GLARISIANUS Ag. (fossil).

Archæteuthis Wettstein, 67; orthotype A. GLARONESIS Wettstein (fossil).

Cyttoides Wettstein, 91; orthotype C. GLARONESIS Wettstein (fossil).

1491. YATES (1886). *Catalogue of Fossils in Lorenzo G. Yates Collection, Santa Barbara, Cal.*

LORENZO G. YATES.

Platychodus Yates, 20; orthotype **PTYCHODUS MORTONI** Mantell (fossil). A synonym of **PTYCHODUS** Ag. (perhaps a slip of the pen for the latter name).

1887.

1492. BEAN (1887). *Description of a New Genus and Species of Fish, Acrotus willoughbyi from Washington Territory*. Proc. U. S. Nat. Mus., X, 631-632.

TARLETON HOFFMAN BEAN.

Acrotus Bean, 631; orthotype **A. WILLOUGHBYI** Bean.

1493. BOULENGER (1887). *An Account of Fishes Collected by Mr. C. Buckley in eastern Ecuador*. Proc. Zool. Soc. London, 1887, II, 274-283.

GEORGE ALBERT BOULENGER (1858-).

Nannoglanis Boulenger, 278; orthotype **N. FASCIATUS** Boulenger.

Leptogoniates Boulenger, 281; orthotype **L. STEINDACHNERI** Boulenger.

1494. DAMES (1887). *Ueber Titanichthys pharao . . . aus der Kreideformation Aegyptens*. Sitzber. Ges. Nat. Freunde Berlin, 69-72.

WILHELM BARNIM DAMES (1843-1898).

Titanichthys Dames, 69; orthotype **T. PHARAO** Dames. Name preoccupied; replaced by **GIGANTICHTHYS** Dames, p. 137, 1888.

1495. FORIR (1887.) *Contributions a l'étude du système Cretacé de la Belgique*. Ann. Mem. Soc. Geol. Belgique, XIV, 25-56.

H. FORIR.

Anomæodus Forir, 25; orthotype **PYCNODUS SUBCLAVATUS** Ag. (fossil).

1496. GÜNTHER (1887). *Report on the Deep-Sea Fishes Collected by H. M. S. "Challenger" during the years 1873-76. In Report on the Scientific Results of the Voyage of H. M. S. "Challenger" during the years 1873-76, XXII, pt. 57, 1-268.*

ALBERT GÜNTHER.

Synagrops Günther, 16; orthotype **MELANOSTOMA JAPONICUM** Döderlein. Substitute for **MELANOSTOMA** Döderlein, preoccupied.

Malacosarcus Günther, 30; orthotype **M. MACROSTOMUS** Gthr.

Diceratias Günther, 53; orthotype **CERATIAS BISPINOSUS** Gthr.

Lyocetus Günther, 57; orthotype **L. MURRAYI** Gthr.

Salilota Günther, 95; orthotype **HALOPORPHYRUS AUSTRALIS** Gthr.

Cataetyx Günther, 104; orthotype **SIREMBO MESSIERI** Gthr.

Pteroidonus Günther, 106; orthotype **P. QUINQUARIUS** Gthr.

Mixonus Günther, 108; orthotype **BATHYNECTES LATICEPS** Gthr.

Nematonus Günther, 114; orthotype **BATHYONUS PECTORALIS** G. & B.

Diplacanthopoma Günther, 115; orthotype **D. BRACHYSOMA** Gthr.

Nematonurus Günther, 124; orthotype **N. ARMATUS** (Hector).

Cetonurus Günther, 124; orthotype **C. CRASSICEPS** Gthr.

Trachonurus Günther, 124; orthotype **MACRURUS VILLOSUS** Gthr.

Lionurus Günther, 124; orthotype **CORYPHÆNOIDES FILICAUDA** Gthr.

Mystaconurus Günther, 124; orthotype **M. LONGIBARBIS** Gthr.; a synonym of **HYMENOCEPHALUS** Giglioli.

Optonurus Günther, 147; orthotype **O. DENTICULATUS** Günther.

Lyconus Günther, 158; orthotype **L. PINNATUS** Gthr.

Polyipnus Günther, 170; orthotype *P. SPINOSUS* Gthr.

Nannobranchium Günther, 199; orthotype *N. NIGRUM* Gthr.

Omosudis Günther, 201; orthotype *O. LOWI* Gthr.

Opostomias Günther, 208; orthotype *ECHIOSTOMA MACRIPNUS* Gthr.

Pachystomias Günther, 210; orthotype *ECHIOSTOMA MICRODON* Gthr.

Photonectes Günther, 212; orthotype *LUCIFER ALBIPENNIS* Döderlein. Substitute for *LUCIFER* Döderlein, preoccupied.

1497. GÜNTHER (1887). *Descriptions of Two New Species of Fishes from Mauritius*, etc. Proc. Zool. Soc. London.

ALBERT GÜNTHER.

Hoplolatilus Günther, 550; orthotype *LATILUS FRONTICINCTUS* Gthr.

1498. HERZENSTEIN & VARPAKHOVSKII (1887). *Notizen ueber die Fischfauna des Amur-Beckens und der angrenzenden Gebiete* (Russian text). Trudui St. Petersb. Nat., 1887, XVIII, 1-58.

SALOMON MARKOVICH HERZENSTEIN (1854-1894);

NIKOLAI ARKADEVICH VARPAKHOVSKII (1862-).

Octonema Herzenstein, 47; orthotype *O. PLESKEI* Herzenstein. Name preoccupied; replaced by *LEFUA* Herzenstein.

1499. MATTHEW (1887). *Preliminary Notice of a New Genus of Silurian Fishes (Diplaspis acadicus)*. Bull. Nat. Hist. Soc. New Brunswick, VI.

GEORGE FREDERICK MATTHEW (1837-).

Diplaspis Matthew, 69; orthotype *PTERASPIS ACADICA* Matthew (fossil). A synonym of *CYTHASPIS* Lankester.

1500. MORTON (1887). (*Eurumetopos*.) Proc. Roy. Soc. Tasmania for 1887. (1888.)

ALLPORT MORTON.

Eurumetopos Morton, 77; orthotype *E. JOHNSTONI* Morton. A synonym of *HYPEROGLYPHE* Gthr.

1501. OGILBY (1887). *On a New Genus of Percidae*. Proc. Zool. Soc. London, 1887, 616-18.

JAMES DOUGLAS OGILBY.

Chthamalopteryx Ogilby, 616; orthotype *C. MELBOURNENSIS* Ogilby. A synonym of *PAEQUULA* Steind.

1502. OGILBY (1887). *On a New Genus and Species of Australian Mugilidae*. Proc. Zool. Soc. London, 614-616.

JAMES DOUGLAS OGILBY.

Trachystoma Ogilby, 614; orthotype *T. MULTIDENS* Ogilby.

1503. PHILIPPI (1887). *Historia natural: Sobre los tiburones y algunos otros peces de Chile*. Anal. Univ. Chile, 1887, LXXI, 1-42.

RUDOLPHO AMANDUS PHILIPPI.

Graus Philippi, 40; orthotype *G. NIGRA* Philippi.

1504. RAMSAY & OGILBY (1887). *On a New Genus and Species of Labroid Fish from Port Jackson*. Proc. Linn. Soc. New South Wales, 1887 (2), II, 631-634.

EDWARD PIERSON RAMSAY; JAMES DOUGLAS OGILBY.

- **Eupetrichthys** Ramsay & Ogilby, 631; orthotype *E. ANGUSTIPES* Ramsay & Ogilby.
1505. RAMSAY & OGILBY (1887). *Notes on the Genera of Australian Fishes*. Proc. Linn. Soc. New South Wales, 1887, 2 ser., II, 181-184.
EDWARD PIERSON RAMSAY; JAMES DOUGLAS OGILBY.
- Percalates** Ramsay & Ogilby, 182; orthotype *LATES COLONORUM* Gthr.
1506. SCHLÜTER (1887). *Panzerfische, etc.* Niederrhein. Ges., Bonn, 1887, 120.
(Also in Nat. Ver. Preuss. West., XLIV, 1888, 126.)
CLEMENS (AUGUST JOSEPH) SCHLÜTER (1836-).
- Ceraspis** Schlüter, 120; orthotype *C. CARINATUS* Schlüter (fossil). Name preoccupied, according to Hilgendorf.
- Drepanaspis** Schlüter, 120; orthotype *D. GEMUENDENSIS* Schlüter (fossil).
1507. STEINDACHNER & DÖDERLEIN (1887). *Beiträge zur Kenntniss der Fische Japans, IV.* Denksch. Kais. Akad. Wiss. Wien., 1887, LIII, 258-296.
FRANZ STEINDACHNER; LUDWIG DÖDERLEIN.
- Myxocephalus** Steindachner & Döderlein, 281; orthotype *M. JAPONICUS* Steindachner & Döderlein.
1508. STORMS (1887). *Notes sur les poissons fossiles du terrain rupélien.* Bull. Soc. Belg. Geol. Paléont., I, 98-112.
RAYMOND STORMS.
- Platylates** Storms, 98; orthotype *P. RUPELIENSIS* Storms (fossil).
1509. VARPAKHOVSKII (1887). *Ueber die Gattung Hemiculter Blecker und über eine neue Gattung, Hemiculterella.* Bull. Acad. Sci. St. Petersburg., 14-23.
NIKOLAI ARKADEVICH VARPAKHOVSKII.
- Hemiculterella** Varpakhovskii, 23; orthotype *H. SAUVAGEI* Varpakhovskii.
1510. WILLIAMS (1887). *On the Fossil Faunas of the Upper Devonian, the Genesee Section, New York.* Bull. U. S. Geol. Surv., XLI, 1-104.
HENRY SHALER WILLIAMS (1847-1916).
- Prospiraxis** Williams, 86; orthotype *SPIRAXIS MAJOR* Newberry (fossil). Substitute for *SPIRAXIS* Newberry, preoccupied.
1511. ZIGNO (1887). *Due novi pesci fossili della famiglia dei Balistini, scoperti nel terreno Eocene del Veronese.* Mem. Soc. Ital., VI.
ACHILLE DE ZIGNO (1813-1892).
- Probalistum** (Massalongo) Zigno, 3; orthotype *OSTRACION IMPERIALIS* Massalongo (fossil). A synonym of *SPINACANTHUS* Ag.
1512. ZITTEL (1887). *Handbuch der Paleontologie. I. Abtheilung. Palaeozoologie, Band III. Vertebrata*, 1887-90, pp. 1-900.
KARL ALFRED VON ZITTEL (1839-1904).
- Chalcodus** Zittel, 72; orthotype *C. PERMIANUS* Zittel (fossil).
- Metopacanthus** Zittel, 110; orthotype *ISCHYODUS ORTHORHINUS* Egerton (fossil).
A synonym of *MYRIACANTHUS* Ag.
- Chimæropsis** Zittel, 113; orthotype *C. PARADOXA* Zittel (fossil).
- Isopholis** Zittel, 216; logotype *OPHIOPSIS MUNSTERI* Ag. A synonym of *EUGNATHUS* Ag.; regarded as preoccupied. But *FURO* Gistel, 1848, is a still earlier substitute.

1888.

1513. BASSANI (1888). *Sopra un nuovo genere di fisostomi scoperto nell' Eocene medio del Friuli, in provincia di Udine*. Atti. Acad. Sci. Napoli, 1889, 2 ser., III, 1-4.

FRANCESCO BASSANI.

Omiodon Bassani, 2; orthotype *O. CABASSI* Bassani (fossil).

1514. DAMES (1888). *Amblypristis cheops, aus dem Eocän Aegyptens*. Sitzber. Ges. Naturf. Berlin, 1888, 106-109.

WILHELM BARNIM DAMES.

Amblypristis Dames, 106; orthotype *A. CHEOPS* Dames (fossil).

1515. DAMES (1888). *Die Ganoiden der deutschen Muschelkalk*. Paleont. Abh., IV, Heft 2, 131-180 (1-50 reprint).

WILHELM BARNIM DAMES.

Gigantichthys Dames, 137 (7 reprint); orthotype *TITANICHTHYS PHARAO* Dames (fossil). Substitute for *TITANICHTHYS* Dames, preoccupied.

Crenilepis Dames, 171 (40 reprint); orthotype *C. SANDBERGERI* Dames (fossil; a fragment of a scale from the Muschelkalk of Krainberg, Germany.)

1516. DAY (1888). *Supplement to the Fishes of India*.

FRANCIS DAY.

Acanthonotus (Tickell) Day, 807; orthotype *A. ARGENTUS* Day. Name preoccupied, replaced by *MATSYA* Day, 1889.

1517. EIGENMANN & EIGENMANN (1888). *Preliminary Notes on South American Nematognathi*. Proc. Cal. Acad. Sci., 119-172.

CARL H. EIGENMANN (1863-); ROSA SMITH EIGENMANN (1860-).

Luciopimelodus Eigenmann & Eigenmann, 122; logotype *PIMELODUS PATI* Val.

Pimelodella Eigenmann & Eigenmann, 136; orthotype *PIMELODUS CRISTATUS* M. & T.

Duopalatinus Eigenmann & Eigenmann, 136; orthotype *PLATYSTOMA EMARGINATUM* Cuv. & Val.

Sciadeoides Eigenmann & Eigenmann, 136; orthotype *SCIADES MARMORATUS* Gill.

Steindachneria Eigenmann & Eigenmann, 137; orthotype *PLATYSOMA PARAHYBÆ* Steind. Name preoccupied; replaced by *STEINDACHNERIDION* Eigenmann.

Hassar Eigenmann & Eigenmann, 158; orthotype *DORAS ORESTES* Steindachner.

Decapogon Eigenmann & Eigenmann, 165; orthotype *CALLICHTHYS ADSPERSUS* Steindachner.

Neoplecostomus Eigenmann & Eigenmann, 171; orthotype *PLECOSTOMUS MICROPS* Steindachner.

Rhamdella Eigenmann & Eigenmann, 172; logotype *R. ERIARCHA* Eigenmann & Eigenmann.

1518. EIGENMANN & EIGENMANN (1888). *A List of American Species of Gobiidae and Callionymidae, with notes on the Specimens Contained in the Museum of Comparative Zoology, at Cambridge, Massachusetts*. Proc. Cal. Acad. Sci., 1888, 2 ser., 51-78.

CARL H. EIGENMANN; ROSA SMITH EIGENMANN.

Barbulifer Eigenmann & Eigenmann, 70; orthotype *B. PAPILLOUS* Eigenmann & Eigenmann = *GOBIOSOMA CEUTHÆCUM* J. & G.

Clevelandia Eigenmann & Eigenmann, 73; orthotype *GOBIOSOMA LONGIPINNE* Steind.

1519. FRITSCH (1888). *Fauna der Gaskohle und der Kalksteine der Permformation Böhmens, II.*

ANTON JAN FRITSCH.

Dipnoites Fritsch, 86; orthotype *D. PERNERI* Fritsch (fossil). A cranial bone.

1520. FACCIOLÀ (1888). *Annunzio ittologico*. Natur. Sicil., VII.

LUIGI FACCIOLÀ.

Sympodoichthys Facciola, 167; orthotype *S. FASCIATUS* Facciola.

1521. GARMAN (1888). *On an Eel from the Marshall Islands*. Bull. Essex Institute, 1889, XX, 114-116.

SAMUEL GARMAN.

Rhinomuræna Garman, 114; orthotype *R. QUÆSITA* Garman.

1522. GILL (1888). *On the Classification of the Mail-Checked Fishes*. Proc. U. S. Nat. Mus., XI.

THEODORE GILL.

Histiocottus Gill, 573; orthotype *PEROPUS BILOBUS* Lay & Bennett. Substitute for *PEROPUS* Lay & Bennett, preoccupied.

1523. GILL (1888). *Gleanings Among the Pleuronectids, and Observations on the Name Pleuronectes*. Proc. U. S. Nat. Mus., XI.

THEODORE GILL.

Eucitharus Gill, 600; orthotype *PLEURONECTES LINGUATULA* L. Substitute for *CITHARUS* Blkr., preoccupied by *CITHARUS* Reinh., 1838; itself a synonym of *CITHARUS* Röse, 1793.

Cyclosetta Gill, 601; orthotype *HEMIRHOMBUS FIMBRIATUS* G. & B.

Trichopsetta Gill, 601; orthotype *ARNOGLOSSUS VENTRALIS* G. & B.

1524. GILL (1888). *Some Extinct Scleroderms*. Amer. Naturalist, 1888, XXII, 446-448.

THEODORE NICHOLAS GILL.

Protacanthodes Gill, 448; orthotype *PROTOBALISTUM OMBONI* Zigno (fossil).

1525. GILL (1888). *Note on the Genus Dipteron*. Proc. U. S. Nat. Mus., XI.

THEODORE GILL.

Dichistius Gill, 68; orthotype *DIPTERODON CAPENSIS* Cuv. Substitute for *DIPTERODON* Cuv. (1829), preoccupied by *DIPTERODON* Lac. (1803).

1526. GOODE & BEAN (1888). *Three Cruises of the "Blake," by Alexander Agassiz, II.*

GEORGE BROWN GOODE; TARLETON HOFFMAN BEAN.

Steindachneria Goode & Bean, 26; orthotype (*S. ARGENTEA* G. & B.) A short diagnosis but no type named; fully defined in *Oceanic Ichthyology*, 1896, 419. Meanwhile a genus of South American Silurids had been named *STEINDACHNERIA* by Eigenmann, who gave the present genus of *MACRURIDS* the name of *STEINDACHNERELLA*. But the first diagnosis is adequate to hold the name, and a new name, *STEINDACHNERIDION*, has been assigned by Eigenmann to his genus of *SILURIDS*.

1527. HERZENSTEIN (1888). *Wissenschaftliche Resultate der von N. M. Przewalski nach Central-Asien unternommenen Reisen*. Zoologischer Theil, Band III, 2 Abth., 1 Lief., 91 p.

SALOMON MARKOVICH HERZENSTEIN.

- Lefua** Herzenstein, 3; orthotype *OCTONEMA PLESKEI* Herzenstein, substitute for *OCTONEMA* Herzenstein & Varpachovski, preoccupied. Replaces *ELXIS* Jordan & Fowler.
1528. HERZENSTEIN (1888). *Wissenschaftliche Resultate der von N. M. Przewalski nach Central-Asien unternommenen Reisen*. Zoologischer Theil, III, 2 Abth., 2 Lief., Fische, 181-262.
SALOMON MARKOVICH HERZENSTEIN.
- Chuanchia** Herzenstein, 224; orthotype *C. LABIOSA* Herzenstein.
- Platypharodon** Herzenstein, 226; orthotype *P. EXTREMUS* Herzenstein.
1529. HILGENDORF (1888). *Fische aus dem Victoria Nyanza (Ukerewe-see)*. . . . *Dr. G. A. Fischer*. Sitzber. Ges. Naturforschende Freunde, Berlin.
FRANZ MARTIN HILGENDORF.
- Haplochromis** Hilgendorf, 76; orthotype *H. OBLIQUIDENS* Hilgendorf.
1530. JENKINS & EVERMANN (1888). *Description of Eighteen New Species of Fishes from the Gulf of California*. Proc. U. S. Nat. Mus., X, 137-158.
OLIVER PEEBLES JENKINS (1850-); BARTON WARREN EVERMANN.
- Hermosilla** Jenkins & Evermann, 144; orthotype *H. AZUREA* Jenkins & Evermann.
- Psednoblennius** Jenkins & Evermann, 156; orthotype *P. HYPACANTHUS* Jenkins & Evermann.
1531. JORDAN (1888). *On the Generic Name of the Tunny*. Proc. Acad. Nat. Sci. Phila.
DAVID STARR JORDAN.
- Albacora** Jordan, 180; orthotype *SCOMBER THYNNUS* L. A substitute for *THYNNUS* Cuv., preoccupied, but *THUNNUS* South is older.
- Germo** Jordan, 180; orthotype *SCOMBER ALALUNGA* Gmelin.
1532. JORDAN (1888). *Manual of the Vertebrates, etc.* Edition V.
DAVID STARR JORDAN.
- Miniellus** Jordan, 56; orthotype *HYBOPSIS PROCNE* Cope. A synonym of *ALBURNOPS* Grd.
1533. JORDAN & BOLLMAN (1888). *List of Fishes Collected at Green Turtle Cay, in the Bahamas, by Charles L. Edwards; with Descriptions of Three New Species*. Proc. U. S. Nat. Mus., XI, 549-553.
DAVID STARR JORDAN; CHARLES HARVEY BOLLMAN (1868-1889).
- Stilbiscus** Jordan & Bollman, 549; orthotype *S. EDWARDSI* Jordan & Bollman. An ally of *MORINGUA* Gray.
1534. JORDAN & GOSS (1888). *A Review of the Flounders and Soles (Pleuronectidae) of America and Europe*. Ann. Rept. U. S. Comm. Fish and Fisheries for 1886 (1888).
DAVID STARR JORDAN; DAVID KOP GOSS (1863-1900).
- Azevia** Jordan & Goss, 271; orthotype *CITHARICHTHYS PANAMENSIS* Steindachner.
- Quenselia** Jordan, 306; orthotype *PLEURONECTES OCELLATUS* L.
- Acedia** Jordan, 321; orthotype *APHORISTIA NEBULOSA* G. & B.
1535. KIRSCH (1888). *Note on a Collection of Fishes Obtained in the Gila River at Fort Thomas, Arizona, by Lieut. W. L. Carpenter, U. S. Army*. Proc. U. S. Nat. Mus., XI, 555-558.
PHILIP HENRY KIRSCH (1851-1900).

Xyrauchen Kirsch, 556; orthotype *CATOSTOMUS CYPHO* Lockington = *CATOSTOMUS TEXANUS* C. C. Abbott.

1536. MOCQUARD (1888). *Revision des Clinus de la Collection du Museum, etc.* Bull. Sci. Philom. Paris, I.

F. MOCQUARD.

Paraclinus Mocquard, 41; orthotype *ACANTHOCLINUS CHAPERI* Mocquard. Substitute for *ACANTHOCLINUS* Mocquard, preoccupied.

1537. REIS (1888). *Die Cælacanthinen mit besonder Berücksichten der im Weissen Jura Bayerns vorkommenden Gattungen.* Paleontographica, XXV.

OTTO M. REIS.

Rhabdoderma Reis, 71; orthotype *CÆLACANTHUS ELEGANS* Ag. (fossil). A synonym of *CÆLACANTHUS* Ag.

1538. STEINDACHNER (1888). *Ichthyologische Beiträge, XIV.* S. B. Ak. Wiss. Wien., XCIX.

FRANZ STEINDACHNER.

Hoplotilapia Steindachner, 60; orthotype *PARATILAPIA RETRODENS* Steindachner.

1539. TRAQUAIR (1888). *Further Notes on Carboniferous Selachii.* Geol. Mag. 3, dec. V.

RAMSAY HEATLEY TRAQUAIR.

Callopristodus Traquair, 85; orthotype *CTENOPTYCHIUS PECTINATUS* Ag. (fossil).

Dicentrodus Traquair, 86; orthotype *CLADODUS BICUSPIDATUS* Traquair (fossil).

Chondrenchelys Traquair, 103; orthotype *C. PROBLEMATICA* Traquair (fossil).

1540. TRAQUAIR (1888). *Notes on the Nomenclature of the Fishes of the Old Red Sandstone of Great Britain.* Geol. Mag., 1888, III, dec. 5, 507-517.

RAMSAY HEATLEY TRAQUAIR.

Microbrachium Traquair, 510; orthotype *M. DICKII* Traquair (fossil).

Mesacanthus Traquair, 511; orthotype *ACANTHODES PUSILLUS* Ag. (fossil).

Rhadinacanthus Traquair, 511; orthotype *DIPLACANTHUS LONGISPINUS* Ag. (fossil).

A synonym of *DIPLACANTHUS* Ag.

Thursius Traquair, 516; orthotype *T. PHOLIDOTUS* Traquair (fossil).

1541. TRAUTSCHOLD (1888). *Ueber Edestus protopirata Trd.* Zeitschr. Deutsch. Geol. Ges., 1888, XL, 750-753.

HERMANN VON TRAUTSCHOLD.

Protopirata Trautschold, 750; orthotype *EDESTUS PROTOPIRATA* Trautschold (fossil). = *P. CENTRODON* Trautschold. A synonym of *EDESTUS* Leidy.

1542. VAILLANT (1888). (*Poissons.*) *Mission scientifique du Cap Horn, 1882-83.* VI, Zoologie, Paris, 1888, 1-35.

LÉON (LOUIS) VAILLANT.

Enantioliparis Vaillant, 22; orthotype *E. PALLIDUS* Vaillant.

1543. VAILLANT (1888). *Expéditions scientifiques du "Travailleur" et du "Talisman" pendant les années 1880, 1881, 1882, 1883.* *Poissons.* Paris, 1-406.

LÉON VAILLANT.

Gyrionemus Vaillant, 18, 45; orthotype *G. NUMMULARIS* Vaillant = *DIRETMUS ARGENTEUS* G. & B. A synonym of *DIRETMUS* Gthr.

Opisthoproctus Vaillant, 105; orthotype *O. SOLEATUS* Vaillant.

- Eustomias** Vaillant, 112; orthotype *E. obscurus* Vaillant.
Scopelogadus Vaillant, 141, 385; orthotype *S. cocles* Vaillant. A synonym of *MELAMPHAES* Gthr.
Anomalopterus Vaillant, 160; orthotype *A. pinguis* Vaillant. This genus and the next noticed in 1886.
Leptoderma Vaillant, 165; orthotype *L. macrops* Vaillant.
Alexeterion Vaillant, 182; orthotype *L. parfaiti* Vaillant.
Brosmiculus Vaillant, 292; orthotype *B. imberbis* Vaillant.
Lycodophis Vaillant, 311; orthotype *L. albus* Vaillant. A synonym of *LYCENCHELYS* Gill.
Gymnolycodes Vaillant, 312; orthotype *G. edwardsi* Vaillant.
Neostoma Vaillant, 385; logotype *N. bathyphilus* Vaillant.
1544. WOODWARD (1888). *A Synopsis of the Vertebrate Fossils of the English Chalk*. Proc. Geol. Assoc. London, 1888, X, 273-338.
 ARTHUR SMITH WOODWARD (1864-).
- Synechodus** Woodward, 288; orthotype *Hybodus dubrisiensis* Mackie (fossil).
Elasmodectes (Newton) Woodward, 301; orthotype *Elasmognathus willetti* Newton (fossil). Substitute for *ELASMOGNATHUS* Newton, preoccupied.
Neorhombolepis Woodward, 304; orthotype *N. excelsus* Woodw. (fossil).

 1889.

1545. ALCOCK (1889) *On the Bathybial Fishes of the Bay of Bengal and Neighboring Waters, Obtained During the Season of 1888-9*. Ann. Mag. Nat. Hist., 1889, IV, 376-399, 450-461.
 ALFRED WILLIAM ALCOCK.
- Paracentroscyllium** Alcock, 379; orthotype *P. ornatum* Alcock.
Brephostoma Alcock, 383; orthotype *B. carpenteri* Alcock.
Pycnocraspedum Alcock, 386; orthotype *P. squamipinne* Alcock.
Paradicrolene Alcock, 387; orthotype *P. multifilis* Alcock.
Saccogaster Alcock, 389; orthotype *S. maculatus* Alcock.
Glyptophidium Alcock, 390; orthotype *G. argenteum* Alcock.
Halosaurichthys Alcock, 454; orthotype *H. carinicauda* Alcock.
Coloconger Alcock, 456; orthotype *C. raniceps* Conger.
Sauromurænesox Alcock, 457; orthotype *S. vorax* Alcock.
Dysomma Alcock, 459; orthotype *D. bucephalus* Alcock.
Gavialiceps Alcock, 460; orthotype *G. tæniola* Alcock.
1546. BEAN (1889). *Description of a New Cottoid Fish Collected by the U. S. Fish Com. (Synchirus gilli)*. Proc. U. S. Nat. Mus., XII, 641-642.
 TARLETON HOFFMAN BEAN.
- Synchirus** Bean, 642; orthotype *S. gilli* Bean.
1547. COLLETT (1889). *Diagnoses de poissons nouveaux provenant des campagnes de "L'Hirondelle."* Bull. Soc. Zool. France, 1889, XIV, 291-293, 122-132.
 ROBERT COLLETT.
- Conchognathus** Collett, 123; orthotype *C. grimaldii* Collett. A synonym of *SIMENCHELYS* Gill.
Photostomias Collett, 291; orthotype *P. guerni* Collett.

1548. COPE (1889). *Storms on the Adhesive Disk of Echeneis*. Amer. Naturalist, 1889, XXIII, 254-255. ✓

EDWARD DRINKER COPE.

Opisthomyzon Cope, 255; orthotype ECHENEIS GLARONENSIS Wettstein (fossil).

1549. DAY (1889). *W. T. Blanford, the Fauna of British India, including Ceylon and Burmah; (Fishes)*.

FRANCIS DAY.

Matsya Day, 292; orthotype ACANTHONOTUS ARGENTEUS Day. A substitute for ACANTHONOTUS (Tickell) Day, preoccupied.

1550. DEECKE (1889). *Ueber Fische aus verschiedenen Horizonten der Trias*. Palæontographica, 1888-89, XXV., 97-138.

JOHANNES ERNST WILHELM DEECKE.

Allolepidotus Deecke, 114; logotype PHOLIDOPHORUS RUPPELLI Bellotti (fossil).

Archæosemionotus Deecke, 121; orthotype A. CONNECTENS Deecke (fossil). Probably a synonym of SEMIONOTUS.

Prohalecites Deeckê, 125; orthotype PHOLIDOPHORUS PORRO Bellotti (fossil).

1551. EIGENMANN & EIGENMANN (1889). *Notes from the San Diego Biological Laboratory. The Fishes of Cortez Banks, etc.* West. Amer. Sci., 1889, VI, 123-132; 147-150.

CARL H. EIGENMANN; ROSA SMITH EIGENMANN.

Paricelinus Eigenmann & Eigenmann, 131; orthotype P. HOPLITICUS Eigenmann & Eigenmann.

1552. EIGENMANN & EIGENMANN (1889). *Description of New Nematognathoid Fishes from Brazil*. West. Amer. Sci., VI, 8-10.

CARL H. EIGENMANN; ROSA SMITH EIGENMANN.

Microlepidogaster Eigenmann & Eigenmann, 8; orthotype M. PERFORATUS Eigenmann & Eigenmann.

1553. EIGENMANN & EIGENMANN (1889). *Preliminary Description of New Species and Genera of Characiniæ*. West. Amer. Sci., 1889, VI, 7-8.

CARL H. EIGENMANN; ROSA SMITH EIGENMANN.

Psectrogaster Eigenmann & Eigenmann, 7; orthotype P. RHOMBOIDES Eigenmann & Eigenmann.

1554. EIGENMANN & EIGENMANN (1889). *Preliminary Notes on South American Nematognathi*, II. Proc. Cal. Acad. Sci. (2), II, 28-56.

CARL H. EIGENMANN; ROSA SMITH EIGENMANN.

Acentronichthys Eigenmann & Eigenmann, 29; orthotype A. LEPTOS Eigenmann & Eigenmann.

Nemuroglanis Eigenmann & Eigenmann, 29; orthotype N. LANCEOLATUS Eigenmann & Eigenmann.

Farlowella Eigenmann & Eigenmann, 32; orthotype ACESTRA ACUS Kner. Substitute for ACESTRA Kner, preoccupied in Mollusks.

Oxyropsis Eigenmann & Eigenmann, 39; orthotype O. WRIGHTIANA Eigenmann & Eigenmann.

Hisonotus Eigenmann & Eigenmann, 41; orthotype H. NOTATUS Eigenmann & Eigenmann.

Parotocinclus Eigenmann & Eigenmann, 41; orthotype OTOCINCLUS MACULICAUDA Steind.

- Panaque** Eigenmann & Eigenmann, 44; orthotype *CHÆTOSTOMUS NIGROLINEATUS* Peters.
- Delturus** Eigenmann & Eigenmann, 45; orthotype *D. PARAHYBÆ* Eigenmann & Eigenmann.
- Hemipsilichthys** Eigenmann & Eigenmann, 46; orthotype *XENOMYSTUS GOBIO* Lütken. Substitute for *XENOMYSTUS* Lütken, preoccupied.
- Tridens** Eigenmann & Eigenmann, 53; orthotype *T. MELANOPS* Eigenmann & Eigenmann.
- Pseudostegophilus** Eigenmann & Eigenmann, 54; orthotype *STEGOPHILUS NEMURUS* Gthr.
- Miuroglanis** Eigenmann & Eigenmann, 56; orthotype *M. PLATYCEPHALUS* Eigenmann & Eigenmann.
1555. EIGENMANN & EIGENMANN (1889). *A Revision of the Edentulous Genera of Curimatinae*. Ann. N. Y. Acad. Sci., IV, 409-440.
CARL H. EIGENMANN; ROSA SMITH EIGENMANN.
- Curimatella** Eigenmann & Eigenmann, 415; logotype *C. LEPIDURUS* Eigenmann & Eigenmann.
- Semitapicis** Eigenmann & Eigenmann, 415; logotype *CURIMATUS SPILURUS* Gthr.
1556. FRAAS (1889). *Kopfstacheln von Hybodus und Acrodus sogenannte Ceratodus heteromorphus* Ag. Jahrb. Ver. Vaterl. Natur. Württemberg, XLV.
EBERHARD FRAAS (1862-1915).
- Hybodonchus** Fraas, 235; orthotype *CERATODUS HETEROMORPHUS* Ag. (part) (fossil).
- Acrodonchus** Fraas, 235; orthotype confused with *CERATODUS HETEROMORPHUS* Ag. (fossil).
1557. FRITSCH (1889). *Fauna der Gasköhle und der Kalksteine der Permformation Böhmens*, Vol. II.
ANTON JAN FRITSCH.
- Tubulacanthus** Fritsch, 113; orthotype *T. SULCATUS* Fritsch (fossil).
- Brachiacanthus** Fritsch, 113; orthotype *B. SEMIPLANUS* Fritsch (fossil). (Not *BRACHYACANTHUS* Egert.)
- Platyacanthus** Fritsch, 113; orthotype *P. VENTRICOSUS* Fritsch (fossil).
1558. GIGLIOLI (1889). *On a Supposed New Genus and Species of Pelagic Gadoid Fishes from the Mediterranean*. Proc. Zool. Soc. London, 1889. 328-332.
ENRICO HILLYER GIGLIOLI.
- Eretmophorus** Giglioli, 328; orthotype *E. KLEINENBERGI* Giglioli.
1559. GÜNTHER (1889). *On Some Fishes from Kilima-Njaro District*. Proc. Zool. Soc. London. 1889, 70-72.
ALBERT GÜNTHER.
- Oreochromis** Günther, 70; orthotype *O. HUNTERI* Gthr.
1560. GÜNTHER (1889). *Third Contribution to Our Knowledge of Reptiles and Fishes from the Upper Yang-tze-Kiang*. Ann. Mag. Nat. Hist., 1889; 6 ser. IV, 218-229.
ALBERT GÜNTHER.
- Rhynchocypris** Günther, 225; orthotype *R. VARIEGATA* Gthr.
- Scombrocypris** Günther, 226; orthotype *S. STYANI* Gthr.

Scomberopsis Günther, 226; orthotype *S. STYANI* Gthr.

Parapelecus Günther, 227; orthotype *P. ARGENTEUS* Gthr.

1561. GÜNTHER (1889). *Report on the Pelagic Fishes; in Report on the Scientific Results of the Voyage of H. M. S. "Challenger" during the years 1873-76*, Vol. XXXI, pt. 78.

ALBERT GÜNTHER.

Lepidothynnus Günther, 15; orthotype *L. HUTTONI* Gthr.

Auchenoceros Günther, 24; orthotype *CALLOPTILUM PUNCTATUM* Hutton. Substitute for *CALLOPTILUM* Hutton, preoccupied.

Halaphya Günther, 38; orthotype *H. ELONGATA* Gthr.

1562. HILGENDORF (1889). *Ueber eine Fischsammlung von Haiti, welche zwei neue Arten, Pæcilia tridens und Eleotris maltzani, enthält*. Sitzber. Ges. Naturf. Freunde Berlin, 1889. 51-55.

FRANZ (MARTIN) HILGENDORF.

Acropæcilia Hilgendorf, 52; orthotype *PÆCILIA TRIDENS* Hilgendorf.

1563. JAEKEL (1889). *Die Selachier aus dem oberen Muschelkalk Lothringens*. Abh. Geol. Spec. Elsass-Lothringen. III, 275-332.

OTTO (MAX JOHANNES) JAEKEL. (1863-).

Polyacrodus Jaekel, 321; orthotype *HYBODUS POLYCYPHUS* Jaekel (fossil).

1564. JORDAN & BOLLMAN (1889). *Descriptions of New Species of Fishes Collected at the Galapagos Islands and Along the Coast of the United States of Colombia, 1887-88*. Proc. U. S. Nat. Mus., 1889 (1890), XII, 149-183.

DAVID STARR JORDAN; CHARLES HARVEY BOLLMAN.

Xenocys Jordan & Bollman, 160; orthotype *X. JESSIE* Jordan & Bollman.

Bollmannia Jordan, 164; orthotype *B. CHLAMYDES* Jordan.

Runula Jordan & Bollman, 171; orthotype *R. AZALEA* Jordan & Bollman.

Engyophrys Jordan & Bollman, 176; orthotype *E. SANCTI-LAURENTII* Jordan & Bollman.

1565. JORDAN & EIGENMANN (1889). *A Review of the Scianida of America and Europe*. Report U. S. Fish. Comm., 1886 (1889), XIV, 343-446.

DAVID STARR JORDAN; CARL H. EIGENMANN.

Corvula Jordan & Eigenmann, 379; orthotype *JOHNIUS BATABANUS* Poey.

Callaus Jordan, 401; orthotype *CORVINA DELICIOSA* Tschudi.

1566. NEWBERRY (1889). *The Paleozoic Fishes of North America*. Monogr. U. S. Geol. Surv., 1889 (issued August, 1890), XVI, 1-340.

JOHN STRONG NEWBERRY.

Heteracanthus Newberry, 65; orthotype *H. POLITUS* Newberry (fossil). Name preoccupied; replaced by *GAMPHACANTHUS* Miller.

Ganiodus Newberry, 67; orthotype *G. HERTZERI* Newberry (fossil).

Callognathus Newberry, 69; orthotype *C. REGULARIS* Newberry (fossil).

Sphenophorus Newberry, 91; orthotype *S. LILLEYI* Newberry (fossil).

Holonema Newberry, 92; orthotype *PTERICHTHYS RUGOSUS* Claypole (fossil).

Glyptaspis Newberry, 157; orthotype *G. VERRUCOSUS* Newberry (fossil).

Actinophorus Newberry, 174; orthotype *A. CLARKII* Newberry (fossil).

Mazodus Newberry, 178; orthotype *M. KEPLERI* Newberry (fossil).

Trachosteus Newberry, 188; orthotype *DINICHTHYS MIRABILIS* Newberry (fossil).

Stethacanthus Newberry, 198; orthotype *S. TUMIDUS* Newberry (fossil).

1567. OGILBY (1889). *Description of a New Genus and Species of Deep-Sea Fish from Lord Howe Island*. Proc. Linn. Soc. New S. Wales, 1888, 1313-1316 (1889).

JAMES DOUGLAS OGILBY.

Sternoptychides Ogilby, 1313; orthotype *S. AMABILIS* Ogilby.

1568. PFEFFER (1889). *Uebersicht der von Herrn Dr. Franz Stuhlmann in Aegypten, auf Zanzibar und dem gegenüberliegenden Festlande gesammelten Reptilien, Amphibien, Fische, etc.* Jahrb. Wiss. Anstalt Hamburg, VI, Pt. 2, 1-36.

GEORG JOHANN PFEFFER (1854-).

Anoplopterus Pfeffer, 15; orthotype *A. URANOSCOPIUS* Pfeffer. A synonym of *AMPHILIUS* Gthr.

1569. SCHULZE (1889). *Fauna piscium Germaniæ. Verzeichniss der Fische der Stromgebiete der Donau, des Rheines, der Ems, Weser, Elbe, Oder, Weichsel, des Pregels und der Memel*. Jahresber. Naturw. Ver. Magdeburg, 1889, 137-213.

ERWIN SCHULZE (1861-).

Liparus Schulze, 61; orthotype *CYPRINUS RUTILUS* L. A synonym of *RUTILUS* Raf. if this unverified citation is correct.

Epitomynis Schulze, 174; logotype *SALMO HUCHO* L. A needless substitute for *HUCHO* and *SALMELINUS*.

Metallites Schulze, 184; orthotype *CYPRINUS RUTILUS* L. A synonym of *RUTILIUS* Raf.

Epitrachys Schulze, 209; orthotype *PERCA FLUVIATILIS* L. An absurdly needless synonym of *PERCA* L.

1570. VAILLANT (1889). *Sur les poissons des eaux douces de Bornéo*. Congr. Intern. Zool. Paris, 1889, 81-82, Comptes Rendus.

LÉON VAILLANT.

Lepidoglanis Vaillant, 82; orthotype *L. MONTICOLA* Vaillant.

1571. ROHON (1889). *Ueber unter-Silurische Fische*. Mélange, Geol. Pal.; Acad. Sci. St. Petersb., I, 7-15.

JOSEPH VICTOR ROHON.

Gyrolepidotus Rohon, 8; orthotype *G. SCHMIDI* Rohon (fossil).

1572. VINCIGUERRA (1889). *Viaggio di Leonardo Fea in Burmania e regioni vicine: Pesci*. Ann. Mus. Civ. Storia Nat. Genova, II, ser. 9, 129-362.

DECIO VINCIGUERRA.

Scaphiodonichthys Vinciguerra, 285; orthotype *S. BURMANICUS* Vinciguerra.

Helgia Vinciguerra, 330; logotype *HOMALOPTERA BILINEATA* Blyth.

1574. WOODWARD (1889). *Preliminary Notes on Some New and Little Known British Jurassic Fishes*. Geol. Mag., VI, 448-455.

ARTHUR SMITH WOODWARD.

Leedsia Woodward, 451; orthotype *L. PROBLEMATICA* Woodw. (fossil). Name pre-occupied; replaced by *LEEDSICHTHYS* Woodw. (1889).

1575. WOODWARD (1889). *Notes on Some New and Little Known British Jurassic Fishes*. Ann. Mag. Nat. Hist., 6 ser., IV, 405-407.

ARTHUR SMITH WOODWARD.

Leedsichthys Woodward, 406; orthotype *LEEDSIA PROBLEMATICUS* Woodw. (fossil).
Substitute for *LEEDSIA* Woodw., preoccupied.

Browneichthys Woodward, 407; orthotype *B. ORNATUS* Woodw. (fossil).

1576. WOODWARD (1889). *On Atherstonia, a New Genus of Palæoniscid Fishes from the Karoo Formation of South Africa, and a Tooth of Ceratodus from the Stormberg Beds of the Orange Free State.* Ann. Mag. Nat. Hist., 1899, 6 ser., IV, 239-243.

ARTHUR SMITH WOODWARD.

Atherstonia Woodward, 239; orthotype *A. SCUTATA* Woodw. (fossil).

1577. WOODWARD (1889). *Catalogue of the Fossil Fishes in the British Museum of Natural History, I, 1889.*

ARTHUR SMITH WOODWARD.

Mesolophodus Woodw., 61; orthotype *M. PROBLEMATICUS* Woodw. (fossil).

Sclerorhynchus Woodward, 76; orthotype *S. ATAVUS* Woodw. (fossil).

Pleuroplax Woodward, 173; orthotype *PLEURODUS RANKINEI* Ag. (fossil). Substitute for *PLEURODUS* Hancock & Atthey, preoccupied.

Cantioscyllium Woodward, 347; orthotype *C. DECIPIENS* Woodw. (fossil).

Orthacodus Woodward, 349; orthotype *LAMNA LONGIDENS* Ag. (fossil). Substitute for *SPHENODUS* Ag., regarded as preoccupied by *SPHENODON* Gray.

Scapanorhynchus Woodward, 351; logotype *RHYNCHOGNATHUS LEWISI* Davis (fossil). A substitute for *RHYNCHOGNATHUS* Davis, preoccupied. The fossil homologue of the living shark, *MITSUKURINA* Jordan.

1578. WOODWARD (1889). *On the Palæontology of Sturgeons.* Proc. Geol. Assoc. London, 1889, XI, 24-44.

ARTHUR SMITH WOODWARD.

Pholidurus Woodward, 44; orthotype *P. DISJECTUS* Woodw. (fossil).

1890.

1579. ALCOCK (1890). *On the Bathybial Fishes Collected in the Bay of Bengal During the Season 1888-1890.* Ann. Mag. Nat. Hist., 1890, VI, ser. 6, 197-222.

ALFRED WILLIAM ALCOCK.

Bathyseriola Alcock, 202; orthotype *B. CYANEA* Alcock.

Ponerodon Alcock, 203; orthotype *P. VASTATOR* Alcock.

Paroneirodes Alcock, 206; orthotype *P. GLOMEROSUS* Alcock.

Tauredophidium Alcock, 212; orthotype *T. HEXTII* Alcock.

Thaumastomias Alcock, 220; orthotype *T. ATROX* Alcock.

1580. ALCOCK (1890). *On the Bathybial Fishes of the Arabian Sea, Obtained During the Season 1889-1890.* Ann. Mag. Nat. Hist., 1890, VI, ser. 6, 295-311.

ALFRED WILLIAM ALCOCK.

Paradicrolene Alcock, 297; orthotype *P. VAILLANTI* Alcock.

Monomitopus Alcock, 297; orthotype *SIREMBO NIGRIFINNIS* Alcock.

Dermatorus Alcock, 298; orthotype *D. TRICHIURUS* Alcock.

Scopelogenys Alcock, 302; orthotype *S. TRISTIS* Alcock.

Narcetes Alcock, 305; orthotype *N. ERIMELAS* Alcock.

Aulastomatomorpha Alcock, 307; orthotype *A. PHOSPHEROPS* Alcock.

Promyllantor Alcock, 310; orthotype *P. PURPUREUS* Alcock.

1581. ALCOCK (1890). *Descriptions of Some New and Rare Species of Fishes from the Bay of Bengal, Obtained During the Season of 1888-1889*. Journ. Asiat. Soc. Bengal, 1890, LVIII, 296-305.
ALFRED WILLIAM ALCOCK.
- Parascombrops** Alcock, 296; orthotype *P. PELLUCIDUS* Alcock.
Bathymyrus Alcock, 305; orthotype *B. ECHINORHYNCHUS* Alcock.
1582. ALCOCK (1890). *List of Pleuronectidæ Obtained in the Bay of Bengal in 1888 and 1889, with Descriptions of New and Rare Species*. Journ. Asiat. Soc. Bengal, 1889, LVII, 279-295, 293-305.
ALFRED WILLIAM ALCOCK.
- Scianectes** Alcock, 284; orthotype *S. MACROPHthalmus* Alcock.
1583. ALCOCK (1890). *On Some Undescribed Shore-Fishes from the Bay of Bengal*. Ann. Mag. Nat. Hist., 1890, VI, ser. 6, 425-443.
ALFRED WILLIAM ALCOCK.
- Psettylis** Alcock, 437; logotype *P. PELLUCIDA* Alcock.
1584. BEAN (1890). *New Fishes Collected off the Coast of Alaska and the Adjacent Region Southward*. Proc. U. S. Nat. Mus., 1890, XIII, 37-45.
TARLETON HOFFMAN BEAN.
- Bothrocara** Bean, 39; orthotype *B. MOLLIS* Bean.
Poroclinus Bean, 40; orthotype *P. ROTHROCKI* Bean.
Dasycottus Bean, 42; orthotype *D. SETIGER* Bean.
Malacocottus Bean, 43; orthotype *M. ZONURUS* Bean.
1585. DAVIS (1890). *On the Fossil Fishes of the Cretaceous Formations of Scandinavia*. Trans. Roy. Dublin Soc., IV, 363-434.
JAMES WILLIAM DAVIS.
- Bathysoma** Davis, 424; orthotype *B. LUTKENI* Davis (fossil).
1586. EIGENMANN & EIGENMANN (1890). *Additions to the Fauna of San Diego*. Proc. Cal. Ac. Sci., III, 1-24.
CARL H. EIGENMANN; ROSA SMITH EIGENMANN.
- Stenobranchius** Eigenmann & Eigenmann, 4; orthotype *S. LEUCOPSARUM* Eigenmann & Eigenmann. A synonym of *NANNOBRACHIUM* Gthr.
- Catblemella** Eigenmann & Eigenmann, 3, 24; orthotype *C. BRACHYCHIR* Eigenmann & Eigenmann. A synonym of *NOTOSCOPELUS* Gthr. (*MACROSTOMA* Risso).
1587. FATIO (1890). *Faune des Vertébrés en Suisse*. V. Histoire Naturelle des Poissons.
VICTOR FATIO.
- Spirlingus** Fatio, 389; orthotype *CYPRINUS BIPUNCTATUS* Bloch. An ally or synonym of *BLICCA*.
1588. FORBES (1890). *A New Genus of Percidæ from New Zealand*. Trans. N. Z. Inst., XXII, for 1890.
H. O. FORBES.
- Plagiogeneion** Forbes, 273; orthotype *THERAPON RUBIGINOSUS* Hutton.
1589. GARMAN (1890). *On the Species of the Genus Anostomus*. Bulletin Essex Inst., XXII, 15-23.
SAMUEL GARMAN.

Schizodontopsis Garman, 19; logotype *S. PROXIMUS* Garman.

1590. GARMAN (1890). *On a Genus and Species of the Characines (Henochilus wheatlandi, etc.)*. Bull. Essex Instit., 1890, XXII, 49-52.

SAMUEL GARMAN.

Henochilus Garman, 49; orthotype *H. WHEATLANDI* Garman.

1591. GILBERT (1890). *A Preliminary Report on the Fishes Collected by the Steamer "Albatross" on the Pacific Coast of North America during the Year 1889, etc.* Proc. U. S. Nat. Mus., 1890, XIII, 49-126.

CHARLES HENRY GILBERT.

Leuroglossus Gilbert, 57; orthotype *L. STILBIUS* Gilbert. Closely allied to *GLOSSANODON* (*LIOGLOSSUS*) Guichenot; perhaps the same.

Calotomus Gilbert, 70; orthotype *C. XENODON* Gilbert. A synonym of *LEPTOSCARUS* Sw.

Radulinus Gilbert, 88; orthotype *R. ASPRELLUS* Gilbert.

BathYGONUS Gilbert, 89; orthotype *B. NIGRIPINNIS* Gilbert.

Xenochirus Gilbert, 90; orthotype *X. TRIACANTHUS* Gilbert. Name preoccupied; replaced by *XENERETMUS* Gilbert.

Gillellus Gilbert, 98; orthotype *G. SEMICINCTUS* Gilbert.

Cryptotrema Gilbert, 101; orthotype *C. CORALLINUM* Gilbert.

Plectobanchus Gilbert, 102; orthotype *P. EVIDES* Gilbert.

Lucioblennius Gilbert, 103; orthotype *L. ALEPIDOTUS* Gilbert.

Apronod Gilbert, 106; orthotype *A. CORTEZIANA* Gilbert.

Lycodapus Gilbert, 107; orthotype *L. FIERASFER* Gilbert.

Lioglossina Gilbert, 122; orthotype *L. TETROPTHALMA* Gilbert.

1592. GILBERT (1890). *Supplementary List of Fishes Collected at Galapagos Islands and Panama, with Description of One New Genus and Three New Species*. Proc. U. S. Nat. Mus., 1890, XIII, 449-455.

CHARLES HENRY GILBERT.

Dialommus Gilbert, 452; orthotype *D. FUSCUS* Gilbert.

1593. GILL (1890). *Osteological Characteristics of the Family Muranosocidae*. Proc. U. S. Nat. Mus., XIII.

THEODORE GILL.

Congresox Gill, 231; orthotype *CONGER TALABON* Cuv.

1594. HERZENSTEIN (1890). *Ichthyologische Bemerkungen . . . Mélanges Biologiques*. Bull. Ac. Sci. St. Petersburg, XIII.

SALOMON MARKOVICH HERZENSTEIN.

Cheiragonus Herzenstein, 116; orthotype *HYPAGONUS GRADIENS* Herzenstein = *ASPIDOPHORUS QUADRICORNIS* Cuv. & Val. A synonym of *HYPAGONUS* Gill.

Dinogunellus Herzenstein, 119; orthotype *STICHÆUS GRIGORJEWI* Herzenstein.

1595. HUTTON (1890). *List of New Zealand Fishes*. Proc. N. Z. Inst., XXII.

FREDERICK WOLLASTON HUTTON.

Neptotichthys Hutton, 278; orthotype *DITREMA VIOLACEA* Hutton.

1596. JAEKEL (1890). *Ueber Phacropleuron und Hemictenodus n. g.* Sitzber. Ges. Naturf. Freunde Berlin, 1890, 1-8.

OTTO (MAX JOHANNES) JAEKEL.

Hemictenodus Jaekel, 7; logotype CTENODUS OBLIQUUS Hancock & Atthey (fossil).
As restricted by Traquair, 1890, a synonym of SAGENODUS.

1597. JORDAN (1890). *List of Fishes Obtained (by the "Albatross") in the Harbor of Bahia and in Adjacent Waters*. Proc. U. S. Nat. Mus., XIII.

DAVID STARR JORDAN.

Verecundum Jordan, 330; orthotype V. RASILE Jordan.

1598. JORDAN (1890). *A Review of the Labroid Fishes of America and Europe*. Rept. U. S. Fish Comm., XV, for 1887 (1890).

DAVID STARR JORDAN.

Lappanella Jordan, 622; orthotype CTENOLAEBRIS IRIS Cuv. & Val.

Xyrula Jordan, 656; orthotype XYRICHTHYS JESSIE Jordan.

1599. JORDAN & EIGENMANN. *A Review of the Genera and Species of Serranidae Found in the Waters of America and Europe*. Bull. U. S. Fish Comm. for 1888 (1890), VIII.

DAVID STARR JORDAN; CARL H. EIGENMANN.

Gilbertia Jordan & Eigenmann, 333, 346; orthotype PLECTROPOMA SEMICINCTUM Cuv. & Val. A synonym of HYPOPLECTRODES Gill, an undescribed genus, known by its indicated type.

Garrupa Jordan & Eigenmann, 353; orthotype SERRANUS NIGRITUS Holbrook.

Serranellus Jordan & Eigenmann, 399; orthotype PERCA SCRIBA L.

1600. LOHEST (1890). *Recherches sur les Poissons des Terrains Paléozoïques de Belgique. Poissons des Psammites du Condroz, Famennien Supérieur*. Ann. Soc. Geol. Belg., XV, 112-203.

MAXIMIN LOHEST.

Pentagonolepis Lohest, 159; orthotype P. KONINCKI Lohest (fossil).

1601. RENAULT & ZEILLER (1890). *La Flore Fossile de Commeny*. St. Etienne, 1890.

B. RENAULT; R. ZEILLER.

Fayolia Renault & Zeiller, orthotype not named (fossil). Egg: the spiral egg-case of a HETERODONTID Shark, mistaken for a plant. (Quoted from Meunier).

1602. ROHON (1890). *Die Jura-Fische von Ust-Balei in Ost-Sibirien*. Mem. Ac. Petersb., XXXVIII, no. 1, 1-15.

JOSEF VICTOR ROHON.

Palæoniscinotus Rohon, 8; logotype P. CZEKANOWSKII Rohon (fossil).

Baleiichthys Rohon, 13; logotype B. GRACIOSA Rohon (fossil). A synonym of PHOLIDOPHORUS Ag.

1603. SCHILTHUIS (1890). *On a Collection of Fishes from the Congo; with Descriptions of Some New Species*. Tijdschr. Nederl. Dierk. Ver., 1890-92, 2 ser., III, 83-92.

LOUISE SCHILTHUIS.

Lamprologus Schilthuis, 85; orthotype L. CONGOENSIS Schilthuis.

1604. TRAQUAIR (1890). *On Phlyctænius, a New Genus of Coccosteidae*. Geol. Mag., 1890, III, dec. 7, 55-60.

RAMSAY HEATLEY TRAQUAIR.

Phlyctænius Traquair, 55; orthotype COCCOSTEUS ACADIUS Whiteaves (fossil). Name regarded as preoccupied; replaced by PHLYCTÆNASPIS Traquair.

1605. TRAQUAIR (1890). *Note on Phlyctenius, a New Genus of Coccosteida*. Geol. Mag., VII, 144.

RAMSAY HEATLEY TRAQUAIR.

Phlyctænaspis Traquair, 144; orthotype *COCCOSTEUS ACADICUS* Whiteaves. Substitute for *PHLYCTÆNIUS* Traquair, regarded as preoccupied by *PHLYCTÆNIUM* Zittel.

1606. TRAQUAIR (1890). *List of the Fossil Dipnoi and Ganoidei of Fife and the Lothian*. Proc. Roy. Phys. Soc. Edinburgh, 1890, XVII, 385-400.

RAMSAY HEATLEY TRAQUAIR.

Drydenius Traquair, 399; orthotype *D. INSIGNIS* Traquair (fossil).

1607. TRAQUAIR (1890). *Observations on Some Fossil Fishes from the Lower Carboniferous Rocks of the Eskdale, Dumfriesshire*. Ann. Mag. Nat. Hist., 1890, 6 ser., VI, 491-494.

RAMSAY HEATLEY TRAQUAIR.

Benedenichthys Traquair, 492; orthotype *PALÆONISCUS DENEENSIS* Van Beneden (fossil). A substitute for *BENEDENIUS* Traquair, 1878, preoccupied.

Mesopoma Traquair, 493; logotype *CANOBIUS PULCHELLUS* Traquair (fossil).

1608. TRAQUAIR (1890). *On the Fossil Fishes Found at Achanarras Quarry, Caithness*. Ann. Mag. Nat. Hist., 1890, VI, ser. 6, 479-486.

RAMSAY HEATLEY TRAQUAIR.

Palæospondylus Traquair, 485; orthotype *P. GUNNII* Traquair (fossil).

1609. WHITEFIELD (1890). *Observations on a Fossil Fish from the Eocene Beds of Wyoming*. Bull. Amer. Mus. Nat. Hist., 1890, III, 117-120.

ROBERT PARR WHITEFIELD (1828-1910).

Protocatostomus Whitefield, 117; orthotype *P. CONSTABELI* Whitefield (fossil). A synonym of *NOTOGONEUS* Cope.

1610. WOODWARD (1890). *The Fossil Fishes of the Hawkesbury Series at Gosford*. Mem. Geol. Surv. New South Wales, Palæont., 1890, no. 4, 1-55.

ARTHUR SMITH WOODWARD.

Gosfordia Woodward, 4; orthotype *G. TRUNCATA* Woodw. (fossil).

Apateolepis Woodward, 12; orthotype *A. AUSTRALIS* Woodw. (fossil).

Pristisomus Woodward, 32; orthotype *P. LATUS* Woodw. (fossil).

1611. WOODWARD (1890). *On Some Upper Cretaceous Fishes of the Family Aspidorhynchidæ*. Proc. Zool. Soc. London, 1890, 629-636.

ARTHUR SMITH WOODWARD.

Apateopholis Woodward, 634; orthotype *RHINELLUS LANIATUS* Davis (fossil).

1612. WOODWARD (1890). *A Synopsis of the Fossil Fishes from the English Lower Oölites*. Proc. Geol. Assoc., XI, 289-306.

ARTHUR SMITH WOODWARD.

Scaphodus Woodward, 301; orthotype *S. HETEROMORPHUS* Woodw. (fossil).

1613. ZIGNO (1890). *Nuove aggiunte all' ittiofauna dell' epoca eocena*. Mem. Instit. Veneto, 1890, XXIII, 9-33.

ACHILLE DE ZIGNO.

Aulorhamphus Zigno, 19; orthotype *CALAMOSTOMA BOLCENSIS* Steind. (fossil). Replaces *CALAMOSTOMA* Steind., preoccupied.

Histiocephalus Zigno, 29; orthotype *H. BASSANI* Zigno (fossil).

1891.

1614. ALCOCK (1891). *On the Deep-Sea Fishes Collected by the "Investigator" in 1890-91.* Ann. Mag. Nat. Hist., 1891, 6 ser., VIII, 16-34, 119-138.
ALFRED WILLIAM ALCOCK.
Malthopsis Alcock, 26; orthotype *M. LUTEUS* Alcock.
Halicmetus Alcock, 27; orthotype *H. RUBER* Alcock.
Lamprogrammus Alcock, 32; orthotype *L. NIGER* Alcock.
Bathyclupea Alcock, 130; orthotype *B. HOSKYNII* Alcock.
Dysommopsis Alcock, 137; orthotype *D. MUCIPARUS* Alcock.
1615. COMPTER (1891). *A Fossil Fish from the Muschelkalk of Jena.* Zeitsch. f. Naturw., LXIV.
G. COMPTER.
Dolichopterus Compter, 41; orthotype *D. VOLITANS* Compter (fossil).
1616. COPE (1891). *On Some New Fishes from South Dakota.* Amer. Naturalist, XXV.
EDWARD DRINKER COPE.
Gephyrura Cope, 654; orthotype *G. CONCENTRICA* Cope (fossil).
Proballostomus Cope, 655; orthotype *P. LONGULUS* Cope (fossil).
Oligoplarchus Cope, 656; orthotype *O. SQUAMPINNIS* Cope (fossil).
1617. COPE (1891). *On the Characters of Some Paleozoic Fishes.* Proc. U. S. Nat. Mus., 1891, XIV, 447-463.
EDWARD DRINKER COPE.
Styptobasis Cope, 447; orthotype *S. KNIGHTIANA* Cope (fossil).
1618. EIGENMANN, R. S. (1891). *New California Fishes.* Amer. Naturalist, XXV.
ROSA SMITH EIGENMANN.
Perkinsia Rosa Smith Eigenmann, 153; orthotype *P. OTHONOPS* Eigenmann. Near *ETRUMEUS* Blkr.
1619. EIGENMANN & EIGENMANN (1891). *Additions to the Fauna of San Diego.* Proc. Calif. Acad. Sci. (2), III, 1-24.
CARL H. EIGENMANN; ROSA SMITH EIGENMANN.
Diaphus Eigenmann & Eigenmann, 4; orthotype *SCOPELUS ENGRAULIS* Gthr.
Tarletonbeania Eigenmann & Eigenmann, 6; orthotype *T. TENUA* Eigenmann & Eigenmann.
1620. FELIX (1891). (*Otomitla.*) Palæontographica, XXXVII.
JOHANNES PAUL FELIX (1859-).
Otomitla Felix, 189; orthotype *O. SPECIOSA* Felix (fossil).
1621. GILBERT (1891). *Descriptions of Apodal Fishes from the Tropical Pacific.* Proc. U. S. Nat. Mus., 1891, XIV, 347-354.
CHARLES HENRY GILBERT.
Xenomystax Gilbert, 348; orthotype *X. ATRARIUS* Gilbert.
Ilyophis Gilbert, 351; orthotype *I. BRUNNEUS* Gilbert.
1622. GILBERT (1891). *Descriptions of Thirty-four New Species of Fishes Collected in 1888 and 1889, Principally among the Santa Barbara Islands and in the Gulf of California.* Proc. U. S. Nat. Mus., 1891, XIV, 539-566.
CHARLES HENRY GILBERT.

Chriolepsis Gilbert, 557; orthotype *C. MINUTILLUS* Gilbert.

1623. GILL (1891). *On Eleginus of Fischer, Otherwise Called Tilesia or Pleurogadus*. Proc. U. S. Nat. Mus., XIV.

THEODORE GILL.

Eleginops Gill, 305; orthotype *ELEGINUS MACLOVINUS* Cuv. & Val. A substitute for *ELEGINUS* Cuv. & Val., preoccupied by *ELEGINUS* Fischer, 1813.

1624. GILL (1891). *On the Genera Labrichthys and Pseudolabrus*. Proc. U. S. Nat. Mus., XIV.

THEODORE GILL.

Pictilabrus Gill, 403; orthotype *LABRUS LATICLAVIUS* Rich.

1625. HOLMBERG (1891). *Sobre algunos peces nuevos o poco conocidos de la Republica Argentina*. Rev. Argent., I, 1891, 180-193.

EDUARDO LADISLAO HOLMBERG.

Chalcinopelecus Holmberg, 190; orthotype, *C. ARGENTINUS* Holmberg. A synonym of *PSEUDOCORYNOPOMA* Perugia, of the same year.

1626. HOLT (1891). *Survey of Fishing Grounds, West Coast of Ireland. Preliminary Note on the Fish Obtained During the Cruise of the "Fingal," 1890*. Sci. Dublin Soc. (2), VII, 121-123.

ERNEST W. L. HOLT.

Nettophichthys Holt, 122; orthotype *N. RETROPINNATUS* Holt.

1627. KRAMBERGER (1891). *Palaeichthyozski prilozki (Collecta palaeichthyologica)*. Dis. II, Rad. Jugoslav. Akad., 1891, 106, 58-129.

DRAGUTIN GORJANOVIC KRAMBERGER.

Apostasis Kramberger, 104; orthotype *ACANUS GAUDRYI* Kramberger (fossil).

1628. LÜTKEN (1891). *Om en med stegophiler og trichomycterer beslægtet syd-amerikansk mallefisk (Acanthopoma annectens Ltk., n. g. et sp.)*. Vid. Meddel. Kjobenhavn, 1891, 53-60.

CHRISTIAN FREDERIK LÜTKEN.

Acanthopoma Lütken, 53; orthotype *A. ANNECTENS* Lütken.

1629. MEUNIER (1891). *Note rectificative sur un fossile corallier recemment decrit*. Comptes Rendus Acad. Sci. Paris, CXII, 1891, 1154-5.

STANISLAS MEUNIER.

Vaillantoonia Meunier, 1155; orthotype *CYCADOSPADIX VIREI* Meunier (fossil). Egg-case of a *CHIMÆROID* from Coralline Jurassic deposits at Verdun. It was first described in the Comptes Rendus 1891, p. 356, as a species of fossil *CYCAD*, but it was shown later by Dr. Vaillant to be a *CHIMÆROID* egg-case.

1630. PERUGIA (1891). *Appunti sopra alcuni pesci sud-americani conservati nel Museo Civico di Storia Naturale di Genova*. Ann. Mus. Civ. Storia Nat. Genova, 1891, 2 ser., X, 605-657 (April).

ALBERTO PERUGIA.

Pseudocorynopoma Perugia, 646; orthotype *P. DORLÆ* Perugia (April). Replaces *BERGIA* Steind. of July, 1891.

1631. SAUVAGE (1891). (*Poissons fossiles*). *Études des gîtes minéraux de la France. Bassin houiller et permien d'Autun et d'Épinac*. Fasc. III. 31 p.

HENRI ÉMILE SAUVAGE.

Ædua Sauvage, 16; orthotype *Æ. GAUDRYI* Sauvage (fossil).

Archæoniscus Sauvage, 19; orthotype *A. ROCHEI* Sauvage (fossil).

1632. SAUVAGE (1891). *Note sur quelques poissons du Lias supérieur de l'Yonne, XLV.*

HENRI ÉMILE SAUVAGE.

Parathrissops Sauvage, 37; orthotype *P. MILLOTI* Sauvage (fossil). A synonym of *EUTHYNOTUS*.

1633. STEINDACHNER (1891). *Ichthyologische Beiträge, XV.* S. B. Ak. Wiss. Wien, C.

FRANZ STEINDACHNER.

Bergia Steindachner, 173 (July 1891); orthotype *B. ALTIPINNIS* Steind. = *PSEUDOCORYNOPOMA DORÆ* Perugia. A synonym of *PSEUDOCORYNOPOMA* Perugia. April, 1891. *BERGIA* is preoccupied in Insects (Scott, 1881).

1634. TELLER (1891). *Ueber den Schadel eines fossilen Dipnoers, Ceratodus sturii, n. sp. aus den Schichten den oberen Trias der Nordalpen.* Abh. Geol. Reichsanstalt, Wien, 1891, XV, pt. 3, 1-39.

FRIEDRICH JOSEPH TELLER (1852-1913).

Epiceratodus Teller, 37; orthotype *CERATODUS FORSTERI* Krefft (Australian species). It is not certain whether this living species from Australia is identical or not with the fish intended by the loosely written account of *NEOCERATODUS BLANCHARDI* Castelnau, 1876. *EPICERATODUS* is probably a synonym of *NEOCERATODUS*.

1635. VAILLANT (1891). *Note sur un nouveau genre de Siluroïdes (Diastatomycter) de Borneo.* Bull. Soc. Philom. Paris, 1891, VIII, ser. 3, 181-182.

LÉON LOUIS VAILLANT.

Diastatomycter Vaillant, 182; orthotype *D. CHAPERI* Vaillant. A synonym of *HEMISILURUS* Blkr.

1636. WALCOTT (1891). *Supposed Trenton Fossil Fish.* Amer. Geol., VIII, 178-180. (Editorial comment on Walcott's discoveries at Canyon City, Colo.)

Palæchimæra Walcott, 178; orthotype *P. PRISMA* Walcott (fossil). Name only; called *DICTYORHABDUS* in 1892.

1637. WOODWARD (1891). *The Devonian Fish-Fauna of Spitzbergen.* Ann. Mag. Nat. Hist., 1891, VI, ser. 8, 1-15.

ARTHUR SMITH WOODWARD.

Porolepis Woodward, 8; orthotype *GYROPTYCHIUS POSNANIENSIS* Kade (fossil).

Asteroplax Woodward, 11; orthotype *A. SCABRA* Woodw. (fossil).

1638. WOODWARD (1891). *Catalogue of the Fossil Fishes in the British Museum Nat. Hist., II.*

ARTHUR SMITH WOODWARD.

Palæomylus Woodw., 39; logotype *RHYNCHODUS FRANGENS* Newberry (fossil).

Elasmodectes (Newton) Woodward, 88; orthotype *ELASMOGNATHUS WILLETTII* Newton. A substitute for *ELASMOGNATHUS* Newton, preoccupied.

Apateacanthus Woodward, 118; orthotype *PRISTACANTHUS VETUSTUS* Clarke.

Glyptognathus Woodward, 390; orthotype *GLYPTOPOMUS* MINOR Ag.

Uropteryx (Agassiz) Woodward, 541; orthotype *PLATYSOMUS STRIATUS* Ag. = *STROMATEUS GIBBOSUS* Blainv. (fossil). Name only, noted in synonymy from Agassiz ms. A synonym of *STORTES* Gistel, which replaces *PLATYSOMUS* Ag., preoccupied.

1892.

1639. ALCOCK (1892). *Natural History Notes from H. M. Indian Marine Survey Steamer "Investigator," Lieut. G. S. Gunn, R. N., Commanding. Series II, no. 5. On the Bathybial Fishes Collected During the Season of 1891-2.* Ann. Mag. Nat. Hist., 1892 (6), IX, 345-365.

ALFRED WILLIAM ALCOCK.

Hepthocara Alcock, 349; orthotype *H. SIMUM* Alcock.

1640. BELLOTTI (1892). *Un nuovo Siluroide giapponese.* Atti. Soc. Ital., XXXIV, 99-101.

CRISTOFORO BELLOTTI.

Neobagrus Bellotti, 100; orthotype *N. FUSCUS* Bellotti = *LIOBAGRUS REINI* Hilgendorf. A synonym of *LIOBAGRUS* Hilgendorf.

1641. BOULENGER (1892). *On Some New or Little Known Fishes Obtained by Dr. J. W. Evans and Mr. Spencer Moore, during Their Recent Expedition to the Province of Matto Grosso, Brazil.* Ann. Mag. Nat. Hist., (6), X, 1892, 9-12.

GEORGE ALBERT BOULENGER.

Brachychalcinus Boulenger, 11; orthotype *B. RETROSPINA* Boulenger.

1642. BOULENGER (1892). *Description of a New Blennioid Fish from Kamtschatka.* Proc. Zool. Soc. London, 1892, 583-585.

GEORGE ALBERT BOULENGER.

Blenniophidium Boulenger, 583; orthotype *B. PETROPAULI* Boulenger = *OPHIDIUM OCELLATUM* Tilesius. A synonym of *OPISTHOCENTRUS* Kner (1868).

1643. CLAYPOLE (1892). *A New Gigantic Placoderm from Ohio.* Am. Geol., X, 1892, 1-4.

EDWARD WALLER CLAYPOLE.

Gorgonichthys Claypole, 2; orthotype *G. CLARKI* Claypole. A synonym of *DINICHTHYS* Newberry.

1644. EIGENMANN (1892). *The Percopsidæ of the Pacific Slope.* Science, XX, 1892, 233-234.

CARL H. EIGENMANN.

Columbia Eigenmann, 234; orthotype *C. TRANSMONTANA* Eigenmann.

1645. GARMAN (1892). *The Discoboli. Cyclopteridæ, Liparopsidæ, and Liparididæ.* Mem. Mus., C. Z., XIV, no. 2, 1892, 1-96.

SAMUEL GARMAN.

Cyclopteroides Garman, 37; orthotype *C. GYRINOPS* Garman.

Liparops Garman, 42; orthotype *CYCLOPTERUS STELLERI* Pallas.

1646-1647. HERZENSTEIN (1892). *Ichthyologische Bemerkungen aus dem Zoologischen Museum der Kaiserlichen Akademie der Wissenschaften.* Mel. Biol., XIII, 1892, 219-235.

SALOMON MARKOVICH HERZENSTEIN.

Argyrocottus Herzenstein, 219; orthotype *A. ZANDERI* Herzenstein.
Gymnodiptychus Herzenstein, 225; orthotype *DIPTYCHUS DYBOWSKII* Kessler.
Acanthogobio Herzenstein, 228; orthotype *A. GUENTHERI* Herzenstein. A synonym of *HEMIBARBUS* Blkr.

Pungtungia Herzenstein, 231; orthotype *P. HERZI* Herzenstein.

1648. JORDAN & DAVIS (1892). *A Preliminary Review of the Apodal Fishes or Eels Inhabiting the Waters of America and Europe*. Rept. U. S. Fish Comm., 1888, 581-677 (1892).

DAVID STARR JORDAN; BRADLEY MOORE DAVIS (1871-).

Rabula Jordan & Davis, 590; orthotype *MURÆNA AQUÆ-DULCIS* Cope.

Bascanichthys Jordan & Davis, 621; orthotype *CÆCULA BASCANIUM* Jordan.

Quassiremus Jordan & Davis, 622; orthotype *OPHICHTHYS EVIONTHAS* Jordan & Bollman.

Scytalichthys Jordan & Davis, 635; orthotype *OPHICHTHYS MIURUS* J. & G.

Ahlia Jordan & Davis, 639; orthotype *MYROPHIS EGMONTIS* Jordan.

Venefica Jordan & Davis, 651; orthotype *NETTASTOMA PROCERUM* G. & B.

Gordiichthys Jordan & Davis, 644; orthotype *G. IRRETITUS* Jordan & Davis.

Avocettina Jordan & Davis, 655; orthotype *NEMICHTHYS INFANS* Gthr.

1649. LÜTKEN (1892). *Spolia Atlantica. Scopelini Musei Zoologici Universitatis Hauniensis. Bidrag til Kundskab om det aabne Havs Laxesild eller Scopeliner*. Vid. Selsk. Skr. (6), VII, 1892, 223-297.

CHRISTIAN FREDERIK LÜTKEN.

Rhinoscopelus Lütken, 242; orthotype *SCOPELUS COCCOI* Cocco.

Pseudoscopelus Lütken, 285; orthotype *P. SCRIPTUS* Lütken.

1650. MILLER (1892). *North American Geology and Palæontology*. (First Appendix, 665-768.)

SAMUEL A. MILLER (1836-1897).

Eczematolepis Miller, 715; orthotype *ACANTHOLEPIS PUSTULOSUS* Newberry (fossil). Substitute for *ACANTHOLEPIS* Newberry, preoccupied.

Gamphacanthus Miller, 715; orthotype *HETERACANTHUS POLITUS* Newberry (fossil). Substitute for *HETERACANTHUS* Newberry, preoccupied.

Haplolepis Miller, 715; orthotype *MECOLEPIS CORRUGATA* Newberry (fossil). Substitute for *MECOLEPIS* and *EURYLEPIS* Newberry, both preoccupied.

Millerichthys Miller, 716; orthotype *PTERICHTHYS MILLERI* Ag. (fossil). A synonym of *PTERICHTHYODES* Blkr., being also a substitute for *PTERICHTHYS* Ag., 1843, preoccupied.

Lispognathus Miller, 716; orthotype *LIIGNATHUS SPATULATUS* Newberry (fossil). Substitute for *LIIGNATHUS* Newberry, preoccupied by *LEIGNATHUS* Lac., 1803.

Icanodus Miller, 716; orthotype *TOMODUS CONVEXUS* St. John & Worthen. Substitute for *TOMODUS* Davis, preoccupied.

Æstophorus Miller, 716; orthotype *SPHENOPHORUS LILLEYI* Newberry (fossil). Substitute for *SPHENOPHORUS* Newberry, preoccupied.

Tegeolepis Miller, 717; orthotype *ACTINOPHORUS CLARKII* Newberry (fossil). Substitute for *ACTINOPHORUS* Newberry, 1888, preoccupied.

Ponerichthys Miller, 717; orthotype *DINICHTHYS TERRELLI* Newberry (fossil). A synonym of *DINICHTHYS* Newberry.

Xenodus Miller, 718; orthotype *GONIODUS HERTZERI* Newberry.

1651. OGILBY (1892). *On Some Undescribed Reptiles and Fishes from Australia*. Rec. Austral. Mus. II, 1892, 23-26.

JAMES DOUGLAS OGILBY.

Hyperlophus Ogilby, 24; orthotype *CLUPEA SPRAATELLOIDES* Ogilby.

1652. PERUGIA (1892). *Descrizione di due nuove specie di pesci raccolti in Sarawak dai Sign. G. Doria ed O. Beccari*. Ann. Mus. Genov. (2), X, 1892, 1009-1010.

ALBERTO PERUGIA.

Eucirrichthys Perugia, 1009; orthotype *E. DORLÆ* Perugia.

1653. PERUGIA (1892). *Intorno ad alcuni pesci raccolti al Congo dal Capitano Giacomo Bove*. Ann. Mus. Genova (2), X, 1892, 967-977.

ALBERTO PERUGIA.

Peltura Perugia, 972; orthotype *P. BOVEI* Perugia. Name regarded as preoccupied by *PELTOURA* Milne-Edwards, 1840, replaced by *PHRACTURA* Boulenger.

1654. POHLIG (1892). *Altpermische Saurierhäkiten, Fische und Medusen der Gegend von Friedrichroda*. 1 Thür. Leuckart Festschrift, 1892, 59-64.

HANS POHLIG.

Lepidopterus Pohligh, 63; orthotype *L. CRASSUS* Pohligh (fossil).

1655. REIS (1892). *Zur Osteologie und Systematik der Belonorrhynchiden und Tetragonolepiden*. Geogn. JB, IV, 1892, 143-166.

OTTO M. REIS

Saurorhynchus Reis, 145; orthotype *BELONOSTOMUS ACTUS* Ag. (fossil).

1656. TRAQUAIR (1892). *Notes on the Devonian Fishes of Campbelltown and Scaumenac Bay in Canada*. No. 2. Geol. Mag. (3) X.

RAMSAY HEATLEY TRAQUAIR.

Doliodus Traquair, 145; orthotype *DIPLODUS PROBLEMATICUS* Woodw. (fossil). Not *DOLIODON* Grd.

1657. VAILLANT (1892). *Sur le genre Megapleuron*. Comptes Rendus Acad. Sci. Paris, CXIV.

LÉON VAILLANT.

Megapleuron Vaillant, 1083; orthotype *CERATODUS ROCHEI* Gaudry (fossil).

1658. WALCOTT (1892). *Preliminary Notes on the Discovery of a Vertebrate Fauna in Silurian (Ordovician) Strata*. Bull. Geol. Soc. Amer. III, 153-172.

CHARLES DOOLITTLE WALCOTT (1850-).

Dictyorhabdus Walcott, 165; orthotype *D. PRISCUS* Walcott; called, without description, *PALÆCHIMÆRA* in 1891.

Astraspis Walcott, 166; orthotype *A. DESIDERATA* Walcott (fossil). An OSTRACOPHORE, supposed to be allied to *THYESTES* or, according to Eastman, to *PSAMMOSTEUS*; the earliest recorded vertebrate fossil, from Trenton rocks, Canyon City, Colo.

Eriptychius Walcott, 167; orthotype *E. AMERICANUS* Walcott.

1659. WOODWARD (1892). *Further Contributions to Knowledge of the Devonian Fish-Fauna of Canada*. Geol. Mag. (3) IX, 1892, 481-485.

ARTHUR WILLIAM WOODWARD.

Protodus Woodward, 1; orthotype *P. JEXI* (Traquair) Woodw. (fossil).

1660. WOODWARD (1892). *On Some Teeth of New Chimæroid Fishes from the Oxford and Kimmeridge Clays of England*. Ann. Mag. Nat. Hist. (6) X, 1892, 13-16.

ARTHUR SMITH WOODWARD.

Pachymylus Woodward, 14; orthotype P. LEEDSI Woodw. (fossil).

Brachymylus Woodward, 14; orthotype B. ALTIDENS Woodw. (fossil).

1893.

1661. ALCOCK (1893). *Natural History Notes from H. M. Indian Marine Survey Steamer "Investigator," Commander C. F. Oldham, R. N., Commanding. Series II, No. 9, An Account of the Deep Sea Collection Made During the Season of 1892-93*. Journ. Asiat. Soc. Bengal, LXII, 1893, 177-184.

ALFRED WILLIAM ALCOCK.

Bathypercis Alcock, 178; orthotype B. PLATYRHYNCHUS Alcock.

1662. BEAN (1893). *Description of a New Blennioid Fish from California*. Proc. U. S. Nat. Mus. XVI.

TARLETON HOFFMAN BEAN.

Plagiogrammus Bean, 699; orthotype P. HOPKINSI Bean.

1663. CLAYPOLE (1893). *The Cladodont Sharks of the Cleveland Shale*. Amer. Geol. XI. 325-331.

EDMUND WALLER CLAYPOLE.

Monocladodus Claypole, 329; orthotype M. CLARKI Claypole (fossil).

1664. COPE (1893). *On Symmorium, and the Position of the Cladodont Sharks*. Amer. Naturalist, X, VII, 1893, 999-1001.

EDWARD DRINKER COPE.

Symmorium Cope, 999; orthotype S. RENIFORME Cope (fossil).

1665. COPE (1893). *A New Extinct Species of Cyprinidae*. P. Ac. Phila., 1893, 19-20.

EDWARD DRINKER COPE.

Aphelichthys Cope, 19; orthotype A. LINDAHLII Cope (fossil).

1666. EIGENMANN & BEESON (1893). *Preliminary Note on the Relationship of the Species Usually United Under the Generic Name Sebastodes*. Amer. Natural. XXVII, 1893, 668-671.

CARL H. EIGENMANN; CHARLES H. BEESON.

Primospina Eigenmann & Beeson, 669; orthotype SEBASTODES MYSTINUS J. & G.

Acutomentum Eigenmann & Beeson, 669; orthotype SEBASTODES OVALIS Ayres.

Pteropodus Eigenmann & Beeson, 670; orthotype SEBASTODES MALIGER J. & G.

Auctospina Eigenmann & Beeson, 670; orthotype SEBASTES AURICULATUS Grd.

1667. FRITSCH (1893). *Fauna der Gaskohle und der Kalkstein der Permformation Böhmens*. III. Heft. 2, 1893, 49-80.

ANTON JAN FRITSCH.

Traquairia Fritsch, 50; orthotype ACANTHODES PYGMÆUS Fritsch (fossil).

Protacanthus Fritsch, 55; orthotype P. PINNATUS Fritsch (fossil)

Trissolepis Fritsch, 76; orthotype SPHÆROLEPIS KOUNOVIENSIS Fritsch (fossil).

1668. FRITSCH (1893). (*Electrolepis, etc.*) Archiv. Naturw. Landeselwrcfh. Böhmen, IX.

ANTON JAN FRITSCH.

Dipnolepis Fritsch, 66; orthotype D. JAHNI Fritsch (fossil). Dermal scutes similar to those of ENCHODUS.

Electrolepis Fritsch, 72; orthotype E. HORRIDA Fritsch (fossil). Berycoid scales.

Spinacites Fritsch, 72; orthotype S. RADIATUS Fritsch (fossil). Berycoid fin spine.

1669. GILBERT (1893). *Report on the Fishes of the Death Valley Expedition, Collected in Southern California and Nevada in 1891, with Descriptions of New Species.* North Amer. Fauna, VII, 1893, 229-234.

CHARLES HENRY GILBERT.

Empetrichthys Gilbert, 233; orthotype E. MERRIAMII Gilbert.

1670. GILL (1893). *A Comparison of Antipodal Faunas.* Mem. Ac. Washington. VI, 1893, 91-124.

THEODORE GILL.

Promethichthys Gill, 123; orthotype GEMPYLUS PROMETHEUS Cuv. & Val. Substitute for PROMETHEUS Lowe, preoccupied.

Pagrosomus Gill, 97, 123; orthotype CHRYSOPHRYS UNICOLOR Q. & G. = SPARUS AURATUS Forster. Called SPAROSOMUS, on pages 116 and 123, by a slip in proof-reading.

Sparosomus Gill, 123; orthotype CHRYSOPHRYS UNICOLOR Q. & G. = SPARUS AURATUS Forster. Lapsus for PAGROSOMUS Gill, not SPARISOMA Sw.

Capromimus Gill, 123; orthotype PLATYSTETHUS ABBREVIATUS Hector.

Rhombocyttus Gill, 123; orthotype CYTTUS TRAVERSI Hutton.

Bathystethus Gill, 123; orthotype SCLÆNA CULTRATA Forster. Substitute for PLATYSTETHUS Gthr., preoccupied.

Evistius Gill, 123; orthotype PLATYSTETHUS HUTTONI Gthr.

Ericentrus Gill, 123; orthotype CLINUS RUBRUS Hutton.

Notoclinus Gill, 124; orthotype BLENNIUS FENESTRATUS Forster.

Cologrammus Gill, 124; orthotype CLINUS FLAVESCENS Hutton.

Caulopsetta Gill, 124; orthotype PLEURONECTES SCAPHUS Forster.

1671. GILL (1893). (*Erilepis.*) Science XXII.

THEODORE GILL.

Erilepis Gill, 52; orthotype MYRIOLEPIS ZONIFER Lockington. A substitute for MYRIOLEPIS Lockington, preoccupied in fossil fishes (MYRIOLEPIS Egerton).

1672. GÜNTHER (1893). *Second Report on the Reptiles, Batrachians, and Fishes Transmitted by Mr. H. H. Johnston from British Central Africa.* Proc. Zool. Soc. London, 1893, 616-628.

ALBERT GÜNTHER.

Engraulicypris Günther, 626; orthotype E. PINGUIS Gthr.

1673. HÆCKEL (1893). *Zur Phylogenie der Australischen Fauna, in Richard Semon's Forschungsreisen in Australien und dem Malayischen Archipel.* Jena. ERNST (HEINRICH PHILIPP AUGUST) HÆCKEL (1834-1918).

Paramphioxus Hæckel; orthotype EPIGONICHTHYS CULTELLUS Peters. A synonym of EPIGONICHTHYS Peters.

1674. HOLMBERG (1893). *Dos peces Argentinos.* Revista del Jardin Zoologique de Buenos Aires, I.

EDUARDO LADISLAO HOLMBERG.

- Aristommata** Holmberg, 96, 354; orthotype *A. INEXPECTATE* Holmberg. Said to be a synonym of *HYPOPTOPOMA* Gthr.
1675. JORDAN & FESLER (1893). *A Review of the Sparoid Fishes of America and Europe*. Rep. U. S. Fish Comm. for 1889-91, 421-554 (1893).
DAVID STARR JORDAN; BERT FESLER (1868-).
- Raizero** Jordan & Fesler, 438; orthotype *MESOPRION ARATUS* Gthr.
- Rabirubia** Jordan & Fesler, 438; orthotype *MESOPRION INERMIS* Peters.
- Isaciella** Jordan & Fesler, 500; orthotype *PRISTIPOMA BREVIPIPINNE* Steind.
- Isacia** Jordan & Fesler, 501; orthotype *PRISTIPOMA CONCEPTIONE* Cuv. & Val.
- Medialuna** Jordan & Fesler, 536; orthotype *SCORPIS CALIFORNIENSIS* Steind.
- Sectator** Jordan & Fesler, 536; orthotype *PIMELEPTERUS OCYURUS* Jordan.
1676. MICHAEL (1893). *Ueber eine Neue Lepidosteiden-Gattung aus dem oberen Keuper Oberschlesiens*. Zeits. Deutsch. Ges., XLIV, 710-729.
RICHARD MICHAEL (1869-).
- Prolepidotus** Michael, 71; orthotype *P. GALLINEKI* Michael (fossil). A synonym of *LEPIDOTES* Ag.
1677. PERUGIA (1893). *Di alcuni pesci raccolti in Sumatra dal Dott. Elio Modigliani*. Ann. Mus. Stor. Nat. Geneva, XIII.
ALBERT PERUGIA.
- Modigliania** Perugia, 246; orthotype *M. PAPILOSA* Perugia.
1678. PFEFFER (1893). *Ostafrikanische Fische gesammelt von Herrn Dr. F. Stuhlmann in Jahre 1888 und 1889*. Jahrb. Hamburg Anst., X, 1893, 131-177.
GEORG JOHANN PFEFFER (1854-).
- Salarigobius** Pfeffer, 141; orthotype *S. STUHLMANNI* Pfeffer.
1679. ROHON (1893). *Die Obersilurischen Fische von Oesel. II. Theil. Selachii, Dipnoi, Ganoidei, Pteraspida, and Cephalaspida*. Mem. Ac. St. Petersburg, XLI, 1893, No. 5, 1-124.
JOSEF VICTOR ROHON.
- Ancistrodus** Rohon, 51; orthotype *A. GRACILIS* Rohon (fossil). Name regarded as preoccupied by *ANCISTRODON*, *AGKISTRODON*, etc.; replaced by *GRYPODON* Hay (1899).
- Rhabdiodus** Rohon, 53; orthotype *R. PARVIDENS* Rohon (fossil).
- Tylodus** Rohon, 57; logotype *T. DELTOIDES* Rohon (fossil).
- Chelomodus** Rohon, 60; orthotype *C. DIGITIFERUS* Rohon.
- Palæosteus** Rohon, 63; orthotype *P. SCHMIDTI* Rohon (fossil).
- Gyropeltus** Rohon, 67; orthotype *G. LAHUSENI* Rohon (fossil).
1680. SAUVAGE (1893). *Recherches sur les poissons du terrain permien d'Autun. Études des gîtes minéraux de la France, 1893*.
HENRI ÉMILE SAUVAGE.
- Prosauropsis** Sauvage, 4; orthotype *PACHYCORMUS ELONGATUS* Sauvage (fossil).
1681. SCHMIDT (1893). *Ueber neue silurische Fischfunde auf Oesel*. Jahrb. Mineral., 1893, I, 99-101.
FRIEDRICH SCHMIDT (1832-1908).
- Tolypaspis** Schmidt, 100; orthotype *TOLYPELEPIS UNULATUS* Pander; substitute for *TOLYPELEPIS* Pander, preoccupied.

1682. SMITT (1893). *A History of Scandinavian Fishes* (by B. Fries, C. U. Ekström, and C. Sundevall). Edited by
FREDRIK ADAM SMITT (1839-1904).
- Molva** Smitt, 526; orthotype *GADUS MOLVA* L. A variant of *MOLVA* Fleming, reverting to the original spelling of Rondelet.
1683. TRAQUAIR (1893). *Notes on the Devonian Fishes of Campbelltown and Scaumenac Bay in Canada*, No. 3. *Geol. Mag.* (3). X, 1893, 262-267.
RAMSAY HEATLEY TRAQUAIR.
- Scaumenacia** Traquair, 262; orthotype *PHANEROPLEURON CURTUM* Whiteaves (fossil).
1684. VAILLANT (1893). *Sur une collection de poissons recueillie par M. Chaper à Borneo*. *Bull. Soc. Zool. France*, XVIII, 1893, 55-62.
LÉON VAILLANT.
- Oxybarbus** Vaillant, 57; orthotype *BARBUS HETERONEMA* Blkr.
1685. VAILLANT (1893). *Sur un poisson provenant du voyage de M. Bonvalotet du Prince Henri d'Orleans*. *Bull. Soc. Philom. Paris* (8), 1893, V, 197-204.
LÉON VAILLANT.
- Anopleuropius** Vaillant, 198; orthotype *A. HENRICI* Vaillant.
1686. VAILLANT (1893). *Sur un nouveau genre de poissons voisin de Fierasfer*. *Comptes Rendus Acad. Paris*, CXVII.
LÉON VAILLANT.
- Rhizoiketicus** Vaillant, 745; orthotype *R. CAROLINENSIS* Vaillant, from the Caroline Islands.
1687. WOODWARD (1893). *Palæichthyological Notes*. *Ann. Mag. Nat. Hist.* (6), XI, 1893, 281-287.
ARTHUR SMITH WOODWARD.
- Ganolepis** Woodward, 286; orthotype *G. GRACILIS* Woodw. (fossil).

 1894.

1688. ALCOCK (1894). *Natural History Notes from H. M. Indian Marine Survey Steamer "Investigator." Series II, no. 11. An Account of a Recent Collection of Bathybial Fishes from the Bay of Bengal and from the Laccadive Sea*. *Journ. Asiat. Soc. Bengal*, LXIII, 1894, 115-137.
ALFRED WILLIAM ALCOCK.
- Chascanopsetta** Alcock, 128; orthotype *C. LUGUBRIS* Alcock.
1689. BEAN, B. A. (1894). *Description of Two New Flounders, *Gastropsetta frontalis*, and *Cyclopsetta chittendeni*. ("Albatross" Collections.)* *Proc. U. S. Nat. Mus.*, XVII.
BARTON APPLER BEAN (1860-).
- Gastropsetta** Bean, 633; orthotype *G. FRONTALIS* Bean.
- Cyclopsetta** Bean, 634; orthotype *C. CHITTENDENI* Bean.
1690. BOULENGER (1894). *Descriptions of New Fresh Water Fishes from Borneo*. *Ann. Mag. Nat. Hist.* (6), XIII, 1894, 245-251.
GEORGE ALBERT BOULENGER.

Nematabramis Boulenger, 249; orthotype *N. EVERETTI* Boulenger.

1691. COPE (1894). *On the Fishes Obtained by the Naturalist Expedition in Rio Grande do Sul*. Proc. Amer. Phil. Soc., XXXIII, 1894, 84-108.

EDWARD DRINKER COPE.

Osteogaster Cope, 102; orthotype *CORYDORAS EQUUS* Steind.

1692. COPE (1894). *On Three New Genera of Characinidæ*. Amer. Naturalist, XLVIII, 1894, 67.

EDWARD DRINKER COPE.

Diapoma Cope, 67; orthotype *D. SPECULIFERUM* Cope.

Chorimyceterus Cope, 67; orthotype *C. TENUIS* Cope.

Asiphonichthys Cope, 67; orthotype *A. STENOPTERUS* Cope.

1693. COPE (1894). *New and Little Known Palæozoic and Mesozoic Fishes*. Journ. Ac. Nat. Sci. Phila., IX.

EDWARD DRINKER COPE.

Macrepistius Cope, 441; orthotype *M. ARENATUS* Cope (fossil).

1694. CLAYPOLE (1894). *On a New Placoderm, Brontichthys clarki, from the Cleveland Shale*. Amer. Geol., XIV, 1894, 379-80.

EDWARD WALLER CLAYPOLE (1835-1901).

Brontichthys Claypole, 379; orthotype *B. CLARKI* Claypole (fossil).

1695. EIGENMANN (1894). *Notes on Some South American Fishes*. Ann. N. York Ac., VII, 1894, 625-627.

CARL H. EIGENMANN.

Cryptops Eigenmann, 626; orthotype *STERNOPYGUS HUMBOLDTI* Steind. Name preoccupied; replaced by *EIGENMANNIA* J. & E., 1896.

1696. EIGENMANN & BRAY (1894). *A Revision of the American Cichlidæ*. Ann. N. York Acad., VII, 1894, 607-624.

CARL H. EIGENMANN; WILLIAM L. BRAY.

Retroculus Eigenmann & Bray, 614; orthotype *R. BOULENGERI* Eigenmann & Bray.

Æquidens Eigenmann & Bray, 616; orthotype *HEROS TETRAMERUS* Heckel.

1697. FRITSCH (1894). *Fauna der Gäskohle und der Kalksteine der Permformation Böhmens, III, e, Palæoniscidæ, I*. Prag., 1894, 81-104.

ANTON JAN FRITSCH.

Pyritocephalus Fritsch, 86; orthotype *PALÆONISCUS SCULPTUS* Fritsch (fossil).

Sceleptophorus Fritsch, 88; orthotype *S. BISERIALIS* Fritsch (fossil).

1697A. GILL (1894). *An Australasian Subfamily of Fresh-Water Atherinoid Fishes*. Am. Nat. XXVIII, 708-709.

THEODORE GILL.

Rhombatractus Gill, 709; orthotype *ARISTEUS FRITZROYENSIS* Castelnau. Substitute for *ARISTEUS* Castelnau, preoccupied; a synonym of *MELANOTÆNIA* Gill.

1698. GOODE & BEAN (1894). *On Harriotta, a New Type of Chimæroid Fish from the Deeper Waters of the Northwestern Atlantic*. Proc. U. S. Nat. Mus., 1894, XVII, 471-473.

GEORGE BROWN GOODE; TARLETON HOFFMAN BEAN.

Harriotta Goode & Bean, 471; orthotype *H. RALEIGHANA* G. & B.

1699. GOODE & BEAN (1894). *A Revision of the Order Heteromi, Deep-Sea Fishes, with a Description of the New Generic Types Macdonaldia and Lipogenys*. Proc. U. S. Nat. Mus., XVII, 1894, 455-470.

GEORGE BROWN GOODE; TARLETON HOFFMAN BEAN.

- Cetomimus** Goode & Bean, 453; orthotype C. GILLII G. & B.
Rondeletia Goode & Bean, 454; orthotype R. BICOLOR G. & B.
Gigliolia Goode & Bean, 465; orthotype G. MOSELEYI G. & B.
Macdonaldia Goode & Bean, 467; orthotype NOTACANTHUS ROSTRATUS Collett.
Lipogenys Goode & Bean, 469; orthotype L. GILLII G. & B.

1700. HILGENDORF (1894). *Neue Characinidengattung, Petersius, aus dem Kingani-Flusse in Deutsch-Ostafrika*. Sitzber. Ges. Naturf. Berlin, 1894, 172-173.

FRANZ MARTIN HILGENDORF.

- Petersius** Hilgendorf, 172; orthotype P. CONSERIALIS Hilgendorf.

1701. JAEKEL (1894). *Die eocänen Selachier vom Monté Bolca. Ein Beitrag zur Morphogenie der Wirbeltiere*. Berlin, 1894.

OTTO (MAX JOHANNES) JAEKEL.

- Hemiptychodus** Jaekel, 137; orthotype PTYCHODUS MORTONI Mantell.
Promyliobatis Jaekel, 152; orthotype MYLIOBATIS GAZOLÆ Zigno (fossil).
Pseudogaleus Jaekel, 170; orthotype P. VOLTAI Jaekel (fossil).

1702. LANDOIS (1894). *Die Familie Megistopodus, Riesenbauchflosser*. N. Jahrb. Min., 1894, II, 228-235.

HERMANN LANDOIS (1835-).

- Megistopus** Landois, 228; orthotype MEGAPUS GUESTFALICUS Schlüter (fossil). Substitute for MEGAPUS Schlüter, 1868, preoccupied; a synonym of CHIROTHRIX Pictet & Humbert.

- 1702A. OGILBY (1894). *Description of Five New Species from the Australasian Region*. Proc. Linn. Soc. N. S. W., IX, June 27, 1894.

JAMES DOUGLAS OGILBY.

- Scleropteryx** (De Vis) Ogilby, 372; orthotype S. BICOLOR De Vis (MS.), OPHIOCLINUS DEVISI Ogilby. Name only. noted in synonymy by Ogilby; perhaps a synonym of OPHIOCLINUS.

1703. PERUGIA (1894). *Viaggio di Lamberto Loria nella Papuasias orientale. Pesci d'aqua dolce*. Ann. Mus. Genova (2), XIV, 1894, 546-553.

ALBERTO PERUGIA.

- Lambertia** Perugia, 550; orthotype L. ATRA Perugia.

1704. SAUVAGE (1894). (*Poissons fossiles.*) Bull. Sci. Yonne, XLVIII.

HENRI ÉMILE SAUVAGE.

- Protosauropsis** Sauvage, 4; orthotype PACHYCORMUS ELONGATUS Sauvage (fossil). Written PROSAUROPSIS by Woodward.

1705. STEINDACHNER (1894). *Die Fische Liberias*. Notes Leyden Mus., XVI, 1894, 1-96.

FRANZ STEINDACHNER.

- Pelmatochromis** Steindachner, 40; orthotype PARATILAPIA BUTTIKOFERI Steind.
Neolebias Steindachner, 78; orthotype N. UNIFASCIATUS Steind.

1706. STORMS (1894). *Troisième note sur les poissons du terrain Rupélien.* Mém. Soc. Belge. Geol., VIII, 1894, 67-82.

RAYMOND STORMS.

Amylodon Storms, 71; orthotype *A. DELHEIDI* Storms (fossil).

1707. TRAQUAIR (1894). *Notes on Paleozoic Fishes.* Ann. Mag. Nat. Hist. (6), XIV, 1894, 368-374.

RAMSAY HEATLEY TRAQUAIR.

Euphyacanthus Traquair, 371; orthotype *E. SEMISTRIATUS* Traquair (fossil).

1708. VAILLANT (1894). *Sur une collection de poissons recueillie en Basse-Californie et dans le Golf par M. Léon Diguët.* Bull. Soc. Philom. (8), VI, 1894, 69-75.

LÉON VAILLANT.

Neomugil Vaillant, 73; orthotype *N. DIGUËTI* Vaillant.

Atopoclinus Vaillant, 73; orthotype *A. RINGENS* Vaillant.

1895.

1709. BERG (1895). *Enumeracion sistematica y sinonimica de los Peces de las Costas Argentina y Uruguay.* An. Mus. Buenos Aires, IV, 1-120.

CARLOS BERG.

Parona Berg, 39; orthotype *PAROPSIS SIGNATA* Jenyns. Substitute for *PAROPSIS* Jenyns, 1842, preoccupied.

Sagenichthys Berg, 52; orthotype *LONCHURUS ANCYLONDON* Bl. & Schn. Substitute for *ANCYLONDON* Cuv., preoccupied, but *MACRODON* Schinz, 1817, is a still earlier substitute name.

Polyclemus Berg, 54; orthotype *POLYCIARRHUS DUMERILI* Bocourt. Substitute for *POLYCIARRHUS* Bocourt, preoccupied.

Phricus Berg, 65; orthotype *APHRITIS URVILLI* Cuv. Substitute for *APHRITIS* Cuv., preoccupied in DIPTERA (Latreille, 1804).

Thalassothia Berg, 67; orthotype *THALASSOPHYNE MONTEVIDENSIS* Berg.

1710. BOULENGER (1895). *Viaggio del dottor Alfredo Borelli nella Repubblica Argentina e nel Paraguay.* XII. Poissons. Boll. Mus. Torino, X, 1895, no. 196.

GEORGE ALBERT BOULENGER.

Nanognathus Boulenger, 3; orthotype *N. BORELLII* Boulenger.

1711. BOULENGER (1895). *Catalogue of the Fishes in the British Museum. Second Edition, Catalogue of the Perciform Fishes.* Vol. I, 1895.

GEORGE ALBERT BOULENGER.

Pseudalphestes Boulenger, 139; orthotype *PLECTROPOMA PICTUM* Tschudi.

Pomodon Boulenger, 144; orthotype *PLECTROPOMA MACROPHthalmum* Tschudi. An unwarranted substitute for the tasteless and inappropriate name *HEULUTJANUS* Blkr.

Dinoperca Boulenger, 153; orthotype *HAPALOGENYS PETERSII* Day.

Chelidoperca Boulenger, 304; orthotype *CENTROPRISTIS HIRUNDINACEUS* Cuv. & Val.

1712. GARMAN (1895). *The Cyprinodonts.* Mem. Mus. Harvard, XIX, no. 1, 1-179.

SAMUEL GARMAN.

Glaridodon Garman, 40; orthotype *G. LATIDENS* Garman. Name preoccupied; later replaced by *GLARIDICHTHYS* Garman.

Cnestrodon Garman, 43; orthotype *PÆCILIA DECEMMACULATUS* Jenyns.

Pterolebias Garman, 141; orthotype *P. LONGIPINNIS* Garman.

1713. GILBERT (1895). *The Ichthyological Collections of the Steamer "Albatross" During the Years 1890 and 1891.* Rept. U. S. Fish Comm. for 1893, IX (1895).

CHARLES HENRY GILBERT.

Gyrinichthys Gilbert, 444; orthotype *G. MINYTREMUS* Gilbert.

Rhinoliparis Gilbert, 445; orthotype *R. BARBULIFER* Gilbert.

Lyconectes Gilbert, 446; orthotype *L. ALEUTICUS* Gilbert.

Bathyphasma Gilbert, 448; orthotype *B. OVIGERUM* Gilbert.

Derepodichthys Gilbert, 456; orthotype *D. ALEPIDOTUS* Gilbert.

Lycinema Gilbert, 471; orthotype *L. BARBATUM* Gilbert.

1714. GILL (1895). *The Differential Characters of Characinoid and Erythrinoid Fishes.* Proc. U. S. Nat. Mus., 1895, XVIII, 205-209.

THEODORE GILL.

Hoplerythrinus Gill, 208; orthotype *ERYTHRINUS UNITÆNIATUS* Spix.

1715. GILL (1895). *Note on the Fishes of the Genus Characinus.* Proc. U. S. Nat. Mus., XVIII.

THEODORE GILL.

Myloplus Gill, 214; orthotype (by implication) *MYLETES ASTERIAS* M. & T. Substitute for *MYLETES* M. & T., not of Cuvier, whose original haplotype was *SALMO NILOTICUS* L., not *MYLETES RHOMBOIDALIS* Cuv., as erroneously stated in Part I, p. 93, of *Genera of Fishes*.

1716. GILL (1895). *The Genera of Branchiostomida.* Amer. Naturalist, XXIX, 457-459.

THEODORE GILL.

Amphioxides Gill, 457; orthotype *BRANCHIOSTOMA PELAGICUM* Gthr.

1717. GILL (1895). *The Genus Leptophidium.* Amer. Nat., XXIX, 1895, 167-168.

THEODORE GILL.

Lepophidium Gill, 167; orthotype *LEPTOPHIDIUM PROFUNDORUM* Gill. Substitute for *LEPTOPHIDIUM* Gill, preoccupied in Snakes.

1718. GOODE & BEAN (1895). *Oceanic Ichthyology. A Treatise on the Deep-Sea and Pelagic Fishes of the World, Based Chiefly upon the Collections made by the Steamers "Blake," "Albatross," and "Fish Hawk" in the Northwestern Atlantic.* Special Bull. U. S. Nat. Mus., 553 pp., 1895.

GEORGE BROWN GOODE; TARLETON HOFFMAN BEAN.

Conocara Goode & Bean, 39; orthotype *C. MACDONALDI* G. & B.

Talismania Goode & Bean, 43; logotype *BATHYTROCTES HOMOPTERUS* Vaillant.

Bathylaco Goode & Bean, 57; orthotype *B. NIGRICANS* G. & B.

Bentho sema Goode & Bean, 75; orthotype *SCOPELUS MUELLERI* Gmelin.

Collettia Goode & Bean, 83; orthotype *MYCTOPHUM RAFINESQUEI* Cocco.

Lampadena Goode & Bean, 85; orthotype *L. SPECULIGERA* G. & B.

Æthoprora Goode & Bean, 86; orthotype *SCOPELUS METOPOCLAMPUS* Cocco.

Bonapartia Goode and Bean, 102; orthotype *B. PEDALIOTA* G. & B. Name preoccupied; later replaced by *ZAPHOTIAS* G. & B.

Yarella Goode & Bean, 103; orthotype *Y. BLACKFORDI* G. & B.

- Grammatostomias** Goode & Bean, 110; orthotype *G. DENTATUS* G. & B.
- Aldrovandia** Goode & Bean, 132; orthotype *HALOSAURUS ROSTRATUS* Gthr.
- Hypoclydonia** Goode & Bean, 236; orthotype *H. BELLA* G. & B.
- Helicolenus** Goode & Bean, 248; orthotype *SCORPENA DACTYLOPTERA* De la Roche.
- Hilgendorfia** Goode & Bean, 280; orthotype *PARALIPARIS MEMBRANACEUS* Gthr.
- Dicromita** Goode & Bean, 319; orthotype *D. AGASSIZII* G. & B.
- Benthocometes** Goode & Bean, 327; orthotype *NEOBYTHITES ROBUSTUS* G. & B.
- Celema** Goode & Bean, 329; logotype *POROGADUS NUDUS* Vaillant.
- Alcockia** Goode & Bean, 329; orthotype *POROGADUS ROSTRATUS* Gthr.
- Mæbia** Goode & Bean, 331; orthotype *BATHYNECTES GRACILIS* Gthr.
- Penopus** Goode & Bean, 335; orthotype *P. MACDONALDI* G. & B.
- Hypsirhynchus** "Facciola, 111, pl. 11" (quoted in Goode & Bean, *Oceanic Ichth.*, 379, 1895); orthotype *H. HEPATICUS* Facciola.
- Moseleya** Goode & Bean, 417; orthotype *MACRURUS LONGIFILIS* Gthr. Name pre-occupied; later replaced by *DOLLOA* Jordan.
- Abyssicola** Goode & Bean, 417; orthotype *MACRURUS MACROCHIR* Gthr.
- Caulophryne** Goode & Bean, 496; orthotype *C. JORDANI* G. & B.
- Valenciennellus** (Jordan & Evermann) in Goode & Bean, 513; orthotype *MAUROLICUS TRIPUNCTULATUS* Esmark. (Afterwards in Jordan & Evermann *Fish*, N. M. A. I., 1896, 577.)
- Vinciguerra** (Jordan & Evermann), in Goode & Bean, 513; orthotype *MAUROLICUS ATENUATUS* Cocco. Advance notice, detailed account in Jordan & Evermann *Fish*, N. M. A. I., 1896, 577.
- Manducus** Goode & Bean, 514; orthotype *GONOSTOMA MADERENSE* Johnson.
- Escolar** (Jordan & Evermann) in Goode & Bean, August 23, 1896, 518; orthotype *THYRSITOPS VIOLACEUS* Bean. Later (1896) called *BIPINNULA* by Jordan & Evermann, October 3, 1896, through a slip in proof-reading.
- Lophiodes** Goode & Bean, 537; orthotype *LOPHIUS MUTILUS* Alcock.
1719. JORDAN (1895). *Description of Evermannia, a New Genus of Gobioid Fishes*. Proc. Calif. Acad. Sci. (2), IV, 592.
DAVID STARR JORDAN.
- Evermannia** Jordan, 592; orthotype *GOBIOSOMA ZOSTERURUM* J. & G.
1720. JORDAN (1895). *The Fishes of Sinaloa*. Proc. Calif. Acad. Sci. (2), V, 377-514.
DAVID STARR JORDAN (Assisted by EDWIN CHAPIN STARKS, GEORGE BLISS CULVER (1873-) & THOMAS MARION WILLIAMS (1871-)).
- Anchovia** Jordan & Evermann, 411; orthotype *ENGRAULIS MACROLEPIDOTUS* K. & S. (Described fully in *Fish*, N. M. Amer., Jordan & Evermann, 1896, 449).
- Thyrina** Jordan & Culver, 419; orthotype *T. EVERMANNI* Jordan & Culver.
- Xystæma** Jordan & Evermann, 471; orthotype *MUGIL CINEREUS* Walbaum. A synonym of *GERRES*, as at first used by Quoy & Gaimard; not *GERRES* of most writers.
- Ulæma** Jordan & Evermann, 471; orthotype *DIAPTERUS LEFROYI* Goode.
- Aboma** Jordan & Starks, 497; orthotype *A. ETHEOSTOMA* Jordan & Starks.
- Enneanectes** Jordan & Gilbert, 501; orthotype *TRIPTERYGIUM CARMINALE* J. & G.
- Alexurus** Jordan, 511; orthotype *A. ARMIGER* Jordan.
1721. JORDAN & STARKS (1895). *The Fishes of Puget Sound*. Proc. Calif. Acad. Sci. (2), V, 1895, 785-852.
DAVID STARR JORDAN; EDWIN CHAPIN STARKS.

- Zalarges** Jordan & Williams, 793; orthotype *Z. NIMBARIUS* Jordan & Williams.
Said to be a synonym of *VINCIGUERRIA* Jordan.
- Ruscarius** Jordan & Starks, 805; orthotype *R. MEANYI* Jordan & Starks.
- Astrolytes** Jordan & Starks, 807; orthotype *ARTEDIUS FENESTRALIS* J. & G.
- Gilbertina** Jordan & Starks, 811; orthotype *G. SIGALUTES* Jordan & Starks. Name preoccupied; later replaced by *GILBERTIDIA* Berg.
- Pallasina** (Cramer) Jordan & Starks, 815; orthotype *SIPHAGONUS BARBATUS* Steind.
- Stelgis** (Cramer) Jordan & Starks, 821; orthotype *AGONUS VULSUS* J. & G.
- Averruncus** Jordan & Starks, 824; orthotype *A. EMMELANE* Jordan & Starks.
- Xystes** Jordan & Starks, 824; orthotype *X. AXINOPHRYS* Jordan & Starks.
- Lethotremus** (Gilbert) Jordan & Starks, 827; orthotype *L. VINOLENTUS* Jordan & Starks.
- Ronquilus** Jordan & Starks, 838; orthotype *BATHYMASTER JORDANI* Gilbert.
- Quietula** Jordan & Evermann, 839; orthotype *GILlichthys Y-CAUDA* Jenkins & Evermann.
- Bryostemma** Jordan & Starks, 841; orthotype *BLENNIUS POLYACTOCEPHALUS* Pallas.
- Xerertes** Jordan & Gilbert, 846; orthotype *APODICHTHYS FUCORUM* J. & G.
- Xiphistes** Jordan & Starks, 847; orthotype *XIPHISTER CHIRUS* J. & G. Name preoccupied in *HEMIPTERA*; the genus itself, however, is of doubtful value.
1722. KIRKALDY (1895). *A Revision of the Genera and Species of the Branchiostomidae*. Quart. Journ. Mur. Sci., XXXVII.
J. W. KIRKALDY.
- Heteropleuron** Kirkaldy, 314; orthotype *BRANCHIOSTOMA BASSANUM* Gthr.
1723. KOENEN (1895). *Ueber einige Fischreste des norddeutschen und Böhmisches Devons*. Abh. Ges. Götting., XL, no. 2, 1-37.
ADOLF VON KOENEN.
- Platyaspis** Koenen, 21; orthotype *P. TENUIS* Koenen (fossil).
- Holopetalichthys** Koenen, 25; orthotype *H. NOVAKI* Koenen (fossil).
1724. KRAMBERGER (1895). *De Piscibus fossilibus Comeni, Mrslci, Lesinae et M. Libanonis, et appendix de Piscibus oligocenicis ad Tuffer, Sagor et Tri-fail*. Agram, 1895.
DRAGUTIN GORJANOVIC KRAMBERGER.
- Opsigonus** Kramberger, 9; orthotype *O. SQUAMOSUS* Kramberger (fossil).
- Ancylostylos** Kramberger, 42; orthotype *A. GIBBUS* Kramberger (fossil).
- Lobopterus** Kramberger, 44; orthotype *L. PECTINATUS* Kramberger (fossil).
- Acanthophoria** Kramberger, 45; orthotype *PAGELLUS LIBIANICUS* Pictet (fossil). A synonym of *ACROGASTER* Ag.
1725. OGILBY (1895). *On Two New Genera and Species of Fishes from Australia*. Proc. Linn. Soc. New South Wales (2), X, 320-324.
JAMES DOUGLAS OGILBY.
- Centropercis** Ogilby, 320; orthotype *C. NUDIVITTATUS* Ogilby.
- Tropidostethus** Ogilby, 323; orthotype *T. RHOTHOPHILUS* Ogilby. Name preoccupied; replaced by *Iso* Jordan & Starks.
1726. STARKS (1895). *Description of a New Genus and Species of Cottoid from Puget Sound*. Proc. Acad. Nat. Sci. Phila, 1895, 410-412.
EDWIN CHAPIN STARKS.
- Jordania** Starks, 410; orthotype *J. ZONOPE* Starks.

1727. STRÖMMAN (1895). *Leptocephalids in the University Zoological Museum at Uppsala*. S. B. Bohmisch. Ges., 1895, No. XXXIII, 42 pp.

H. STRÖMMAN.

Euleptocephalus Strömman, 51; logotype **LEPTOCEPHALUS SICANUS** Facciola.

1728. VINCIGUERRA (1895). *Esplorazione del Giuba a dei suoi affluenti compiuta dal Cap. V. Bottego durante gli anni 1892-93 sotto gli auspicii della Società geographia Italiana*. Pesci Ann. Mus. Genova (2), XV, 1895, 21-60.

DECIO VINCIGUERRA.

Neobola Vinciguerra, 56; orthotype N. BOTTEGOI Vinciguerra.

1729. WEBER (1895). *Fische von Ambon, Java, Thursday Island, dem Burnett-Fluss und von der Südküste von New Guinea*. Semon's Zoolog. Forschungsreisen, V, 259-276.

MAX (CARL WILHELM) WEBER (1852-).

Stiphodon Weber, 269; orthotype S. SEMONI Weber.

1730. WOODWARD (1895). *The Fossil Fishes of the Tabragar Beds (Jurassic ?)*. Mem. Geol. Surv. New S. Wales, Pal., No. 9, 1-27.

ARTHUR SMITH WOODWARD.

Aphnelepis Woodward, 9; orthotype A. AUSTRALIS Woodw. (fossil).

Ætheolepis Woodward, 12; orthotype A. MIRABILIS Woodw. (fossil).

Archæomæne Woodward, 15; orthotype A. TENUIS Woodw. (fossil).

1731. WOODWARD (1895). *Catalogue of Fossil Fishes in the British Museum, etc., III*.

ARTHUR SMITH WOODWARD.

Asthenocormus Woodward, 380; orthotype EUGNATHUS TITANIUS Wagner (fossil). Substitute for AGASSIZIA Vetter, preoccupied.

Microconodus (Traquair) Woodward, 437; orthotype M. MOLYNEUXI Traquair (fossil). In synonymy: a synonym of GONATODUS Traquair.

Ctenolepis (Agassiz) Woodward, 530; orthotype C. CYCLUS Ag. (fossil). Name only in Agassiz, Poiss. Foss., II, 1844, 180.

1732. WOOLMAN (1895). *Report on a Collection of Fishes from the Rivers of Central and Northern Mexico*. Bull. U. S. Fish Comm. for 1894 (1895).

ALBERT JEFFERSON WOOLMAN (1868-1918).

Evarra Woolman, 64; orthotype E. EIGENMANNI Woolman.

1896.

1733. ALCOCK (1896). *Natural History Notes from H. M. Indian Marine Survey Steamer "Investigator." Series II, no. 23. A Supplementary List of the Marine Fishes of India, with Descriptions of Two New Genera and Eight New Species*. Journ. Asiat. Soc. Bengal, LXV, 301-338.

ALFRED WILLIAM ALCOCK.

Boopsetta Alcock, 305; orthotype B. UMBRARUM Alcock.

Scopelarchus Alcock, 307; orthotype S. GUENTHERI Alcock.

1734. ALESSANDRI (1896). *Ricerche sui pesci fossili di Paraná (Repubblica Argentina)*. Atti. Acc. Sci. Torino, XXXI.

GULIO DE ALESSANDRI.

Protautoga Alessandri, 729; orthotype P. LONGIDENS Alessandri (fossil).

1735. BEAN & BEAN (1896). *Notes on Fishes Collected in Kamtschatka and Japan by Leonhard Stejneger and Nikolai A. Grebnitzki, with a Description of a New Blenny.* (Dec. 30, 1896.)

TARLETON HOFFMAN BEAN; BARTON APPLER BEAN.

Phoildapus Bean & Bean, 389; orthotype P. GREBNITZKII Bean & Bean.

1736. BOULENGER (1896). *Descriptions of New Fishes from the Upper Shiré River, British Central Africa, Collected by Dr. Percy Rendall, and Presented to the British Museum by Sir Harry H. Johnston.* Proc. Zool. Soc. London, 1896, 915-920.

GEORGE ALBERT BOULENGER.

Docimodus Boulenger, 917; orthotype D. JOHNSTONI Boulenger.

Corematodes Boulenger, 919; orthotype C. SHIRANUS Boulenger.

1737. COLLETT (1896). *Poissons provenant des campagnes du Yacht l'Hirondelle. Résultats des campagnes scientifiques accomplies sur son Yacht par Albert I, Prince Souverain de Monaco.* Fascicule X, Monaco, 1896, 198 pp.

ROBERT COLLETT.

Halosauropsis Collett, 143; orthotype HALOSAURUS MACROCHIR Gthr.

1738. GARMAN (1896). *Cross Fertilization and Sexual Rights and Lefts Among Vertebrates.* Amer. Naturalist, XXX, 232.

SAMUEL GARMAN.

Glaridichthys Garman, 232; orthotype GIRARDINUS UNINOTATUS Poey. Substitute for GLARIDODON Garman, preoccupied.

1739. GILL (1896). *The Differential Characters of the Syngnathid and Hippocampid Fishes.* Proc. U. S. Nat. Mus., XVI. (April 23, 1896.)

THEODORE GILL.

Phycodurus Gill, 159; orthotype PHYLLOPTERYX EQUUS Gthr.

1740. GILL (1896). *Lipophrys a substitute for Pholis.* Amer. Naturalist, XXX, 498.

THEODORE GILL.

Lipophrys Gill, 498; orthotype BLENNIS PHOLIS L. Substitute for PHOLIS Cuv. & Val., preoccupied by PHOLIS (Gronow) Scopoli.

1741. GRASSI & CALANDRUCCIO (1896). *Sullo scilluppo dei murenoidi.* Atti. Acc. Lincei Roma, V.

GIOVANNI BATTISTA GRASSI; SALVATORE CALANDRUCCIO.

Todarus Grassi & Calandrucchio, 349; orthotype NETTASTOMA BREVIROSTRE Facciola.

1742. GÜNTHER (1896). *Report on the Collection of Reptiles and Fishes Made by Messrs. Potanin & Berezowski in the Chinese Provinces Kansu and Sze-Chuen.* Ann. Ac. St. Petersburg, 1896, 199-219.

ALBERT GÜNTHER.

Onychostoma Günther, 211; orthotype O. LATICEPS Gthr.

Leucogobio Günther, 212; orthotype L. HERZENSTEINI Gthr. A synonym of GNATHOPOGON Blkr.

1743. HERZENSTEIN (1896). *Ueber einige neue und seltene Fische des Zoologischen Museums der Kaiserlichen Akademie der Wissenschaften.* Ann. Ac. St. Petersburg, 1896, 1-14.

SALOMON MARKOVICH HERZENSTEIN.

Coreoperca Herzenstein, 11; orthotype *C. HERZI* Herzenstein.

Nemalycodes Herzenstein, 14; orthotype *N. GRIGORJEWI* Herzenstein.

1744. JORDAN (1896). *Notes on Fishes Little Known or New to Science. (Contributions to Biology from the Hopkins Seaside Laboratory.)* Proc. Cal. Ac. Sci., VI, 1896 (June 19).

DAVID STARR JORDAN.

Zaprora Jordan, 202; orthotype *Z. SILENUS* Jordan.

Emmydrichthys Jordan & Rutter, 221; orthotype *E. VULCANUS* Jordan & Rutter, based on an example with a deformed dorsal fin, the last two spines bitten off and the wound healed, the coloration jet black, otherwise agreeing fairly with *SYNANCEICHTHYS VERRUCOSUS* (Bl. & Schn.). A synonym of *SPURCO* (Commerson) Cuv. & Val. or *SYNANCEICHTHYS* Blkr.

Tarandichthys Jordan & Evermann, 225; orthotype *ICELINUS FILAMENTOSUS* Gilbert.

Ulca Jordan & Evermann, 227; orthotype *HEMITRIPTERUS MARMORATUS* Gilbert.

Bryssætæres Jordan & Evermann, 230; orthotype *GOBIESOX PINNIGER* Gilbert.

Arbaciola Jordan & Evermann, 230; orthotype *GOBIESOX HUMERALIS* Gilbert.

Rimicola Jordan & Evermann, 231; orthotype *GOBIESOX MUSCARUM* Meek & Pierson.*

Starksia Jordan & Evermann, 231; orthotype *LABRISOMUS CREMNOBATES* Gilbert.

Exerpes Jordan & Evermann, 232; orthotype *AUCHENOPTERUS ASPER* Jenkins & Evermann.

1745. JORDAN & EVERMANN (1896). *A Check List of the Fishes and Fish-like Vertebrates of Northern and Middle America.* Rept. U. S. Fish Comm. for 1895 (1896) (issued December, 1896). This Catalogue was issued in 1896, soon after the publication of Part 1 of the Fishes of North and Middle America by the same authors, and in advance of parts 2 and 3 (1898) and part 4 (1900). Most of the genera described in detail in the later parts are first characterized in this Check List, from which several names later defined should date. In this and other papers by these authors several names are first presented as appellations for subgenera, a matter of no importance so far as their use in nomenclature is concerned.)

DAVID STARR JORDAN; BARTON WARREN EVERMANN.

Rhonciscus Jordan & Evermann, 387; orthotype *PRISTIPOMA CROCO* Cuv. & Val.

Rhencus Jordan & Evermann, 387; orthotype *PRISTIPOMA PANAMENSE* Steind.

Exonautes Jordan & Evermann, 332; orthotype *EXOCÆTUS EXSILIENS* Müller.

Eslopsarum Jordan & Evermann, 330; orthotype *CHIROSTOMA JORDANI* Woolman.

A section under *CHIROSTOMA* Sw.

Evapristis Jordan & Evermann, 388; orthotype *ORTHOPRISTIS LETHOPRISTIS* Jordan & Fesler.

Otrynter Jordan & Evermann, 388; orthotype *STENOTOMUS CAPRINUS* Bean.

Salema Jordan & Evermann, 390; orthotype *PERCA UNIMACULATA* Bloch. (Not *SALEIMA* Bowdich, a Portuguese variant of the Spanish name.)

Buccone Jordan & Evermann, 394; orthotype *CYNOSCION PRÆDATORIUS* J. & G.

Elattarchus Jordan & Evermann, 397; orthotype *ODONTOSCION ARCHIDIUM* J. & G.

Zonoscion Jordan & Evermann, 401; orthotype *POLYCIRRHUS RATHBUNI* Jordan & Bollman.

* Charles John Pierson.

- Zaclemus** (Gilbert) Jordan & Evermann, 401; orthotype *PARALONCHURUS GOODEI* Gilbert.
- Zalembius** Jordan & Evermann, 403; orthotype *CYMATOGASTER ROSACEUS* J. & G.
- Iridio** Jordan & Evermann, 412; orthotype *LABRUS RADIATUS* L. (1758).
- Emmeekia** Jordan & Evermann, 413; orthotype *PSEUDOJULIS VENUSTUS* Jenkins & Evermann.
- Julidio** Jordan & Evermann, 413; orthotype *PSEUDOJULIS ADUSTUS* Gilbert.
- Euscarus** Jordan & Evermann, 416; orthotype *LABRUS CRETENSIS* L.
- Loro** Jordan & Evermann, 418; orthotype *SCARUS GUACAMAIA* Cuv.
- Zenion** Jordan & Evermann, 418; orthotype *CYTUS HOLOLEPIS* G. & B.
- Angelichthys** Jordan & Evermann, 420; orthotype *CHÆTODON CILIARIS* L.
- Xesurus** Jordan & Evermann, 421; orthotype *PRIONURUS PUNCTATUS* Gill.
- Necturus* 2, = C. 519
1746. JORDAN & EVERMANN (1896). *The Fishes of North and Middle America; a Descriptive Catalogue of the Species of Fish-like Vertebrates Found in the Waters of North America, North of the Isthmus of Panama.* Part. I, Bull. U. S. Nat. Mus., No. XLVII, 1896, 1340 pp. (March 18, 1896.)
 DAVID STARR JORDAN; BARTON WARREN EVERMANN.
- Haustor** Jordan & Evermann, 137; orthotype *GADUS LACUSTRIS* Walbaum = *PIMELODUS NIGRICANS* Le Sueur.
- Rabidus** Jordan & Evermann, 146; orthotype *NOTURUS FURIOSUS* Jordan & Meek.
- Iotichthys** Jordan & Evermann, 243; orthotype *LEUCISCUS PHLEGETHONTIS* Cope.
- Opsopœa** Jordan & Evermann, 249; orthotype *OPSOPŒODUS BOLLMANI* Gilbert.
- Azteca** Jordan & Evermann, 258; orthotype *NOTROPIS AZTECUS* Woolman. Name preoccupied; later replaced by *AZTECULA* Jordan & Evermann.
- Orcella** Jordan & Evermann, 289; orthotype *NOTROPIS ORCA* Woolman.
- Yuriria** Jordan & Evermann, 321; orthotype *HYBOPSIS ALTUS* Jordan.
- Eigenmannia** Jordan & Evermann, 341; orthotype *STERNOPYGUS HUMBOLDTI* Steind. Substitute for *CRYPTOPS* Eigenmann, preoccupied.
- Verma** Jordan & Evermann, 374; orthotype *SPHAGEBRANCHUS KENDALLI* Gilbert.
- Scutica** Jordan & Evermann, 404; orthotype *GYMNOMURENA NECTURA* J. & G. A synonym of *UROPTERYGIUS* Rüppell.
- Tarpon** Jordan & Evermann, 409; orthotype *MEGALOPS ATLANTICUS* Cuv. & Val.
- Jenkinsia** Jordan & Evermann, 418; orthotype *DUSSUMIERIA STOLIFERA* J. & G.
- Lile** Jordan & Evermann, 431; orthotype *SARDINELLA STOLIFERA* J. & G.
- Anchovia** Jordan & Evermann, 449; orthotype *ENGRAULIS MACROLEPIDOTUS* K. & S.
- Mitchillina** Jordan & Evermann, 453; orthotype *ALEPOCEPHALUS BAIRDII* G. & B.
- Spirinchus** Jordan & Evermann, 522; orthotype *OSMERUS THALEICHTHYS* Ayres.
- Nansenia** Jordan & Evermann, 528; orthotype *MICROSTOMUS GRENLANDICUS* Reinh.
- Kenoza** Jordan & Evermann, 626; orthotype *ESOX AMERICANUS* Gmelin.
- Fontinus** Jordan & Evermann, 645; orthotype *FUNDULUS SEMINOLIS* Grd.
- Gambusinus** Jordan & Evermann, 649; orthotype *FUNDULUS RATHBUNI* Jordan & Meek.
- Cololabis** (Gill) Jordan & Evermann, 726; orthotype *SCOMBRESOX BREVIROSTRIS* Peters.
- Lethostole** Jordan & Evermann, 792; orthotype *CHIROSTOMA ESTOR* Jordan. A section under *CHIROSTOMA* Sw.
- Kirtlandia** Jordan & Evermann, 794; orthotype *CHIROSTOMA VAGRANS* G. & B. A synonym apparently of *MEMBRAS* Bonaparte.
- Eurystole** Jordan & Evermann, 802; orthotype *ATHERINELLA ERIARCHA* J. & G.

- Ostichthys** (Langsdorff) Jordan & Evermann, 846; orthotype *MYRIPRISTIS JAPONICUS* C. & V.
- Bipinnula** Jordan & Evermann, 878; orthotype *THYRSITOPS VIOLACEUS* Bean (Oct. 3, 1896). A synonym of *ESCOLAR* J. & E. (Aug. 23, 1896), the two names both left standing through a slip in proof-reading.
- Palometa** Jordan & Evermann, 966; orthotype *RHOMBUS PALOMETA* Jordan & Bollman.
- Swainia** Jordan & Evermann, 1040; orthotype *ETHEOSTOMA SQUAMATUM* Gilbert & Swain.
- Torrentaria** Jordan & Evermann, 1080; orthotype *ETHEOSTOMA SAGITTA* Jordan & Swain.
- Rafinesquiellus** Jordan & Evermann, 1082; orthotype *ETHEOSTOMA POTTSI* Grd.
- Nivicola** Jordan, 1082; orthotype *ETHEOSTOMA BOREALE* Jordan.
- Claricola** Jordan & Evermann, 1093; orthotype *ETHEOSTOMA JULIÆ* Meek.
- Psychromaster** Jordan & Evermann, 1099; orthotype *ETHEOSTOMA TUSCUMBIA* Gilbert & Swain.
- Copelandellus** Jordan & Evermann, 1100; orthotype *ETHEOSTOMA QUIESCENS* Jordan.
- Anneistus** Jordan & Evermann, 1147; orthotype *BODIANUS ACANTHISTIUS* Gilbert.
- Archoperca** Jordan & Evermann, 1171; orthotype *MYCTEROPERCA BOULENGERI* Jordan & Starks.
- Xystroperca** Jordan & Evermann, 1181; orthotype *MYCTEROPERCA PARDALIS* Gilbert.
- Ocyanthias** Jordan & Evermann, 1227; orthotype *HOLANTHIAS MARTINICENSIS* Guich.
- Osbeckia** Jordan & Evermann, 424; orthotype *BALISTES SCRIPTUS* Osbeck.
- Chapinus** Jordan & Evermann, 424; orthotype *OSTRACION BICAUDALIS* L.
- Rosicola** Jordan & Evermann, 429; orthotype *SEBASTOMUS PINNIGER* Gill.
- Eosebastes** Jordan & Evermann, 430; orthotype *SEBASTICHTHYS AURORA* Gilbert.
- Hispanicus** Jordan & Evermann, 431; orthotype *SEBASTICHTHYS RUBRIVINCTUS* J. & G.
- Rastrinus** Jordan & Evermann, 437; orthotype *ICELUS SCUTIGER* Bean.
- Zesticelus** Jordan & Evermann, 443; orthotype *ACANTHOCOTTUS PROFUNDORUM* Gilbert.
- Stellerina** (Cramer) Jordan & Evermann, 447; orthotype *BRACHYOPSIS XYOSTERNUS* J. & G.
- Sarritor** (Cramer) Jordan & Evermann, 448; orthotype *ODONTOPYXIS FRENATUS* Gill.
- Lyoliparis** Jordan & Evermann, 451; orthotype *LIPARIS PULCHELLUS* Ayres.
- Caremitra** Jordan & Evermann, 451; orthotype *CAREPROCTUS SIMUS* Gilbert.
- Allochir** Jordan & Evermann, 452; orthotype *CAREPROCTUS MELANURUS* Gilbert.
- Allurus** Jordan & Evermann, 452; orthotype *CAREPROCTUS ECTENES* Gilbert. Name preoccupied; replaced in 1900 by *ALLINECTES* J. & E.
- Amitrichthys** Jordan & Evermann, 453; orthotype *PARALIPARIS CEPHALUS* Gilbert.
- Sicya** Jordan & Evermann, 456; orthotype *SICYDIUM GYMNOGASTER* Ogilby-Grant.
- Lythrypnus** Jordan & Evermann, 458; orthotype *GOBIOUS DALLI* Gilbert.
- Zalypnus** Jordan & Evermann, 459; orthotype *GOBIOUS EMBLEMATICUS* J. & G.
- Ilypnus** Jordan & Evermann, 460; orthotype *LEPIDOGOBIOUS GILBERTI* Eigenmann & Eigenmann.
- Rathbunella** Jordan & Evermann, 463; orthotype *BATHYMASTER HYPOPLECTUS* Gilbert.
- Arctoscopus** Jordan & Evermann, 464; orthotype *TRICHODON JAPONICUS* Steind.
- Esloscopus** Jordan & Evermann, 465; orthotype *DACTYLOSOPUS ZELOTES* J. & E.
- Mnierpes** Jordan & Evermann, 468; orthotype *CLINUS MACROCEPHALUS* Gthr.

Scartes Jordan & Evermann, 471; orthotype *SALARIAS RUBROPUNCTATUS* Cuv. & Val. Name preoccupied; replaced in 1898 by *SCARTICHTHYS* J. & E.

Rhodymenichthys Jordan & Evermann, 474; orthotype *GUNNELLUS RUBERRIMUS* Cuv. & Val. = *BLENNIUS DOLICHOGASTER* Pallas.

Ulvaria Jordan & Evermann, 475; orthotype *PHOLIS SUBBIFURCATUS* Storer.

Furcella Jordan & Evermann, 480; orthotype *LYCODES DIAPTERUS* Gilbert. Name preoccupied; replaced by *FURCIMANUS* J. & E. (1898).

Chilara Jordan & Evermann, 482; orthotype *OPHIDIUM TAYLORI* Grd.

Rissola Jordan & Evermann, 483; orthotype *OPHIDIUM MARGINATUM* De Kay.

Bellator Jordan & Evermann, 488; orthotype *PRIONOTUS MILITARIS* G. & B.

Vulsiculus Jordan & Evermann, 489; orthotype *PERISTEDION IMBERBE* Poey.

Remorina Jordan & Evermann, 490; orthotype *ECHENEIS ALBESCENS* T. & S.

Caulistius Jordan & Evermann, 491; orthotype *GOBIESOX PAPILLIFER* Gilbert.

Embassichthys Jordan & Evermann, 506; orthotype *CYNICOGLOSSUS BATHYBIUS* Gilbert.

Nexilarius (Gilbert) Jordan & Evermann, 512; orthotype *EUSCHISTODUS CONCOLOR* Gill. Misprinted *NEXILARIUS*.

1747. OGILBY (1896). *On a New Genus and Species of Fishes from Maroubra Bay*. Proc. Linn. Soc. New S. Wales, XXI, 23-25.

JAMES DOUGLAS OGILBY.

Apogonops Ogilby, 23; orthotype *A. ANOMALUS* Ogilby. This genus also occurs in an article entitled *On a New Genus (Apogonops) and Species of Australian Fishes*. Zool. Anzeiger, XIX, 256, 1896.

1748. OGILBY (1896). *Descriptions of Two New Genera and Species of Australian Fishes*. Proc. Linn. Soc. New S. Wales, XXI, 136-142.

JAMES DOUGLAS OGILBY.

Macrurrhynchus Ogilby, 136; orthotype *M. MAROUBRÆ* Ogilby. A synonym of *ASPIDONTUS* Ehrenberg.

Dermatopsis Ogilby, 138; orthotype *D. MACRODON* Ogilby.

1749. OGILBY (1896). *Rough-Backed Herrings*. Proc. Linn. Soc. N. S. W., XXI, 504.

JAMES DOUGLAS OGILBY.

Potamalosa Ogilby, XXI, 504; orthotype *CLUPEA NOVÆ-HOLLANDIÆ* Cuv. & Val.

1750. OSTROUMOFF (1896). *Zwei neue Relicten-Gattungen im Amazonen Mcere*. Zool. Anz., XIX, 30.

ALEKSEYEV ALEKSANDROVICH OSTROUMOFF (1858-).

Asperina Ostroumoff, 30; orthotype *A. IMPROVISA* Ostroumoff, a deep-sea form of *UMBRINA CIRRHOSA* (L.). A synonym of *UMBRINA* Cuv.

1751. PHILIPPI (1896). *Peces nuevos de Chile*. Ann. Univ. Santiago de Chile, LXLIII.

RUDOLPH AMANDUS PHILIPPI.

Acmonotus Philippi, 375; orthotype *A. CHILENSIS* Philippi. Probably a synonym of *LEPTONOTUS* Kaup.

1752. RUTTER (1896). *Notes on Fresh-Water Fishes of the Pacific Slope of North America. II. The Fishes of Rio Yaqui, Sonora, with the Description of a New Genus of Siluridæ*. Proc. Cal. Ac. Sci., VI. (June 23, 1896.)

CLOUDSLEY M. RUTTER (1875-1905, about).

Villarius Rutter, 258; orthotype *V. PRICEI* Rutter. This genus is supposed to differ from *HAUSTOR* J. & E. (March 18, 1896) (fork-tailed *AMEIURUS*) in the presence of small scattered villi on the sides of the body. It is claimed that such villi exist also in several other species of *HAUSTOR*, at least in the young. *VILLARIUS* is therefore perhaps, but not certainly, a synonym of *HAUSTOR*, the latter having three months' priority.

1753. STARKS (1896). *List of Fishes Collected at Port Ludlow, Washington* Proc. Calif. Acad. Sci. (2), VI, 549-562.

EDWIN CHAPIN STARKS.

Axyrias Starks, 554; orthotype *A. HARRINGTONI* Starks. A near ally of *ARTEDIUS* Grd., perhaps a synonym.

1754. SEALE (1896). *Note on Deltistes, a New Genus of Catostomoid Fishes* Proc. Cal. Ac. Sci., V., 1896.

ALVIN SEALE (1870-).

Deltistes Seale, 269; orthotype *CHASMISTES LUXATUS* Cope.

1755. STORMS (1896). *Première note sur les poissons wemméliens (Éocène supérieur de la Belgique)*. Bull. Soc. Belg. Geol. Pal., X.

RAYMOND STORMS.

Ctenodentex Storms, 199; orthotype *DENTEX LÆKØNIENSIS* Van Beneden (fossil).

1897.

1756. BOULENGER (1897). *An Account of the Fresh-Water Fishes Collected in Celebes by Drs. P. & F. Sarasin*. Proc. Zool. Soc. London, 1897, 426-429.

GEORGE ALBERT BOULENGER.

Telmatherina Boulenger, 428; orthotype *T. CELEBENSIS* Boulenger.

1757. BOULENGER (1897). *Description of a New Ceratopterine Eagle-Ray from Jamaica*. Ann. Nat. Hist. (6), XX, 227-228.

GEORGE ALBERT BOULENGER.

Ceratobatis Boulenger, 227; orthotype *C. ROBERTSI* Boulenger.

1758. EASTMAN (1897). *Tamiobatis Vetustus, a New Form of Fossil Skate*. Amer. J. Sci. (4), 85-90.

CHARLES ROCHESTER EASTMAN (1868-1918).

Tamiobatis Eastman, 85; orthotype *T. VETUSTUS* Eastman. (Fossil cranium from Devonian or carboniferous, Kentucky.)

1759. EASTMAN (1897). *On the Occurrence of Fossil Fishes in the Devonian of Iowa*. Iowa Geol. Surv., VII, Ann. Rep. for 1896, 108-116.

CHARLES ROCHESTER EASTMAN.

Synthetodus Eastman, 111; orthotype *S. TRISULCATUS* Eastman (fossil, dental elements, perhaps *DIPNEUSTAN*, Devonian, Iowa).

1760. EIGENMANN (1897). *Steindachmeria*. Amer. Nat., 1897, XXXI, 158-159.

CARL H. EIGENMANN.

Steindachnerella Eigenmann, 159; orthotype *STEINDACHNERIA ARGENTEA* G. & B., 1888. Substitute for *STEINDACHNERIA* G. & B., a name regarded as preoccupied by *STEINDACHNERIA* Eigenmann, 1897, as no type had been mentioned with the earlier *STEINDACHNERIA* of Goode & Bean. *STEINDACHNERIA* of Goode & Bean apparently holds, and a new name, *STEINDACHNERIDION* Eigenmann, 1919, has been given to Eigenmann's genus.

1761. GILBERT & CRAMER (1897). *Report on the Fishes Dredged in Deep Water Near the Hawaiian Islands, with descriptions and figures of Twenty-three New Species*. Proc. U. S. Nat. Mus., 1896, XIX, 403-435. (Feb. 5, 1897.)

CHARLES HENRY GILBERT; FRANK CRAMER.

- Argyripnus** Gilbert & Cramer, 414; orthotype *A. EPHIPPIATUS* Gilbert & Cramer.
Cœlocephalus Gilbert & Cramer, 422; orthotype *C. ACIPENSERINUS* Gilbert & Cramer.
 Name preoccupied; replaced by *MATŒOCEPHALUS* Berg.
Pelecanichthys Gilbert & Cramer, 432; orthotype *P. CRUMENALIS* Gilbert & Cramer.

1762. GILL & TOWNSEND (1897). *Diagnosis of New Species of Fishes Found in Bering Sea*. Proc. Soc. Washington, XI, 231-234.

THEODORE GILL; CHARLES HASKINS TOWNSEND.

- Ericara** Gill & Townsend, 232; orthotype *E. SALMONEA* Gill & Townsend.

1763. GILBERT (1897). *Descriptions of Twenty-two New Species of Fishes Collected by the Steamer "Albatross," of the U. S. Fish Comm.* Proc. U. S. Nat. Mus., 1896, XIX, 437-457. (Feb. 5, 1897.)

CHARLES HENRY GILBERT.

- Emmion** (Jordan) Gilbert, 454; orthotype *E. BRISTOLÆ* Jordan.
Ulvicola Gilbert & Starks, 455; orthotype *U. SANCTÆ-ROSÆ* Gilbert & Starks.

1764. NIKOLSKII (1897). *Les Reptiles, Amphibiens, et Poissons recueillis par Mr. N. Zaroudny dans la Perse orientale* (Russian text). Ann. Mus. St. Petersb., 1897, 306-348.

ALEKSANDR MIKHAILOVICH NIKOLSKII (1858-).

- Apiostoma** Nikolskii, 345; orthotype *A. ZARUDNYI* Nikolskii. A synonym of *SCHIZOTHORAX* Heckel.
Apiorhynchus Nikolskii, 345; orthotype *APIOSTOMA ZARUDNYI* Nikolskii. Apparently a synonym of *APIOSTOMA* Nikolskii.

1765. OGILBY (1897). *New Genera and Species of Australian Fishes*. Proc. Linn. Soc. New S. Wales, 1897, XXII, 62-95.

JAMES DOUGLAS OGILBY.

- Omochætus** Ogilby, 72; orthotype *HYPERLOPHUS COPEI* Ogilby = *MELETTA VITTATA* Castelnau. Perhaps a synonym of *HYPERLOPHUS* Ogilby.
Monothrix Ogilby, 87; orthotype *M. POLYLEPIS* Ogilby.
Austrophycis Ogilby, 91; orthotype *A. MEGALOPS* Ogilby.

1766. OGILBY (1897). *Some New Genera and Species of Fishes*. Proc. Linn. Soc. New S. Wales, XXII, 245-257.

JAMES DOUGLAS OGILBY.

- Scolenchelys** Ogilby, 246; orthotype *MURÆNICHTHYS AUSTRALIS* Macleay. A synonym of *MURÆNICHTHYS* Blkr.
Myropterura Ogilby, 247; orthotype *M. LATICAUDATA* Ogilby.
Goodella Ogilby, 249; orthotype *G. HYPOZONA* Ogilby. A synonym of *TRACHINOCEPHALUS* Gill.

1767. OGILBY (1897). *On Some Australian Eleotrinæ*. Proc. Linn. Soc. New S. Wales, XII, 725-757.

JAMES DOUGLAS OGILBY.

- Carassiops** Ogilby, 732; orthotype *ELEOTRIS COMPRESSUS* Krefft.

Krefftius Ogilby, 736; orthotype *ELEOTRIS AUSTRALIS* Krefft. A synonym of *Mogurnda* Gill.

Mulgoa Ogilby, 740; orthotype *ELEOTRIS COXII* Krefft.

Ophiorrhinus Ogilby, 745; logotype *ELEOTRIS GRANDICEPS* Krefft. A synonym of *Philypnodon* Blkr.

1768. PERUGIA (1897). *Di alcuni Pesci raccolti nell' Altio Paraguay dal Cav. Guido Boggiani*. Ann. Mus. Genova (2), XVIII, 147-150.

ALBERTO PERUGIA.

Boggiana Perugia, 148; orthotype *B. OCELLATA* Perugia.

1769. PLATE (1897). *Ein neuer Cyclostom mit grossen, normal entwickelten Augen, Macrophthalmia chilensis, n. g. n. sp.* Sitzber. Ges. Naturf. Berlin, 1897, 137-141.

LUDWIG HERMANN PLATE (1862-).

Macrophthalmia Plate, 137; orthotype *M. CHILENSIS* Plate.

1770. PRIEM (1897). *Sur les dents d'élasobranches de divers gisements sénoniens. (Villedieu, Meudon, et Foix-les-Caves.)* Bull. Soc. Geol. France, XXV, 40-56.

FERNAND PRIEM (-1919).

Pseudocorax Priem, 47; orthotype *CORAX AFFINIS* Ag.

1771. VAILLANT (1897). *Siluroide nouveau de l'Afrique orientale (Chimarrhoglanis leroyi)*. Bull. Mus. Paris, 1897, 81-84.

LÉON VAILLANT.

Chimarrhoglanis Vaillant, 81; orthotype *C. LEROYI* Vaillant. A synonym of *Amphilius* Gthr.

1898.

1772. ALCOCK (1898). *Natural History Notes from H. M. Indian Marine Survey Ship "Investigator," Commander T. H. Heming, R. N., commanding. Series II, No. 25. A Note on the Deep-Sea Fishes, Including Another Probably Viviparous Ophidioid.* Ann. Mag. Nat. Hist. (7), II, 136-156.

ALFRED WILLIAM ALCOCK.

Benthobatis Alcock, 144; orthotype *B. MORESBYI* Alcock.

1773. BASSANI (1898). *Aggiunti all' ittiofauna eocenica di Monte Bolca e Postate*. Palont. Italica, III.

FRANCESCO BASSANI.

Oncolepis Bassani, 79; orthotype *O. ISSELI* Bassani (fossil).

1774. BOULENGER (1898). *Description of a New Genus of Cyprinoid Fishes from Siam*. Ann. Mag. Nat. Hist. (7), I, 450-451.

GEORGE ALBERT BOULENGER.

Catlocarpio Boulenger, 450; orthotype *C. SIAMENSIS* Boulenger.

1775. BOULENGER (1898). *Poissons nouveaux du Congo*. Ann. Mus. Congo. Zool. I, 1-20, 21-38.

GEORGE ALBERT BOULENGER.

Stomatorhinus Boulenger, 9; orthotype *MORMYRUS WALKERI* Gthr.

- Myomyrus** Boulenger, 10; orthotype *M. MACRODON* Boulenger.
Genyomyrus Boulenger, 17; orthotype *G. DONNYI* Boulenger.
Eugnathichthys Boulenger, 26; orthotype *E. EETVELDII* Boulenger.
1776. BOULENGER (1898). *On a Collection of Fishes from the Rio Jura, Brazil*.
 Trans. Zool. Soc. London, XIV, 421-428.
 GEORGE ALBERT BOULENGER.
- Steatogenys** Boulenger, 428; orthotype *RHAMPHICHTHYS ELEGANS* Steind.
1777. BOULENGER (1898). *On a New Genus of Salmonoid Fishes from Allai Mountains*.
 Ann. Mag. Nat. Hist. (7), I, 329-331.
 GEORGE ALBERT BOULENGER.
- Phyllogephyra** Boulenger, 330; orthotype *P. ALTAICA* Boulenger.
1778. BOULENGER (1898). *Descriptions of Two New Siluroid Fishes from Brazil*.
 Ann. Mag. Nat. Hist. (7), II, 477-478.
 GEORGE ALBERT BOULENGER.
- Leptodoras** Boulenger, 477; orthotype *OXYDORAS ACIPENSERINUS* Gthr.
1779. BOULENGER (1898). *A Revision of the African and Syrian Fishes of the Family Cichlidae, Part I*.
 Proc. Zool. Soc. London, 1898, 132-152.
 GEORGE ALBERT BOULENGER.
- Chromidotilapia** Boulenger, 151; orthotype *C. KINGSLEYÆ* Boulenger.
1780. BOULENGER (1898). *Report on the Collection of Fishes Made by Mr J. E. S. Moore in Lake Tanganyika . . . 1895-1896*.
 Trans. Zool. Soc., XV, 1-30.
 GEORGE ALBERT BOULENGER.
- Telmatochromis** Boulenger, 10; orthotype *T. VITTATUS* Boulenger.
Julidochromis Boulenger, 11; orthotype *J. ORNATUS* Boulenger.
Bathybates Boulenger, 15; orthotype *B. FEROX* Boulenger.
Eretmodus Boulenger, 16; orthotype *E. CYANOCINCTUS* Boulenger.
Tropheus Boulenger, 17; orthotype *T. MOORII* Boulenger.
Simochromis Boulenger, 19; orthotype *CHROMIS DIAGRAMMA* Gthr.
Petrochromis Boulenger, 20; orthotype *P. POLYODON* Boulenger.
Perissodus Boulenger, 20; orthotype *P. MICROLEPIS* Boulenger.
Plecodus Boulenger, 22; orthotype *P. PARADOXUS* Boulenger.
1781. DEAN (1898). *New Species and a New Genus of American Palæozoic Fishes, . . . from a Nearly Completed MS. by John Strong Newberry*.
 Trans. N. Y. Acad. Sci., XV. Edited by Bashford Dean.
 BASHFORD DEAN (1867-).
- Stenognathus** (Newberry) Dean, about 300; orthotype *DINICHTHYS CORRUGATUS* Terrell.
1782. EASTMAN (1898). *Dentition of Devonian Pycnodontidae*.
 Amer. Naturalist, XXXII, 473-488; 545-560.
 CHARLES ROCHESTER EASTMAN.
- Phlyctænacanthus** Eastman, 552; orthotype *P. TELLERI* Eastman (a fossil ICHTHYODORULITE from Devon, Wisconsin). A synonym of *ECZEMATOLEPIS* Miller = *ACANTHOLEPIS* Newberry.
- Belemnacanthus** Eastman, 552; orthotype *B. GIGANTEUS* Eastman (fossil spine, perhaps of an OSTRACODERM, from the Devonian of Eifel).

1783. EVERMANN & KENDALL (1898). *Descriptions of New or Little Known Genera and Species of Fishes from the United States*. Bull. U. S. Fish Commission, XVII, 125-133.

BARTON WARREN EVERMANN; WILLIAM CONVERSE KENDALL.

Signalosa Evermann & Kendall, 127; orthotype *S. ATCHAFALAYÆ* Evermann & Kendall.

Lyosphæra Evermann & Kendall, 131; orthotype *L. GLOBOSA* Evermann & Kendall.

Ogilbia (Jordan & Evermann) Evermann & Kendall, 132; orthotype *O. CAYORUM* Evermann & Kendall.

1784. GOELDI (1898). *Primeira Contribuição para o conhecimento dos peixes do valle dos Amazonas e dos Guyanas, etc.* Bol. Mus. Paraense. Hist. Nat., Para II.

EMIL AUGUST GOELDI.

Phrenatobius Goeldi, orthotype *P. CISTERNARUM* Goeldi. A little known subterranean fish.

1785. HAY (1898). *Notes on Species of Ichthyodectes, including the New Species I. cruentus, and on the Related and Herein Established Genus Gillicus*. Amer. J. Sci., (4), VI, 225-232.

OLIVER PERRY HAY.

Gillicus Hay, 230; orthotype *PORTEUS ARCUATUS* Cope. Said to be a synonym of *ICHTHYODECTES* Cope.

1786. IHERING (1898). *Description of a New Fish from Saõ Paulo*. Proc. Acad. Nat. Sci. Phila., 1898, 108-109.

HERMANN VON IHERING (1850-).

Paulicea Ihering, 109; orthotype *P. JAHU* Ihering.

1787. JAEKEL (1898). *Ueber Hybodus Agassiz*. Sitzber. Naturf. Berlin, 1898, 135-146.

OTTO (MAX JOHANNES) JAEKEL.

Orthybodus Jaekel, 138; orthotype *HYBODUS GROSSICONUS* Ag. (fossil).

Parhybodus Jaekel, 143; orthotype *HYBODUS LONGICONUS* Ag. (fossil).

1788. JAEKEL (1898). *Der verschiedenen Rochentypen*. Sitzber. Naturf. Berlin, 1898, 44-53.

OTTO (MAX JOHANNES) JAEKEL.

Lagarodus Jaekel, 50; orthotype *PSAMMODUS SPECULARIS* Romanowskii (fossil).

1789. JORDAN (1898). *Description of a Species of Fish (Mitsukurina owstoni) from Japan, the Type of a Distinct Family of Lannoid Sharks*. Proc. Calif. Acad. Sci. (3), I, 199-201.

DAVID STARR JORDAN.

Mitsukurina Jordan, 199; orthotype *M. OWSTONI* Jordan, a living homologue of the extinct genus *SCAPANORHYNCHUS* Woodw.

1790. JORDAN & EVERMANN (1898). *The Fishes of North and Middle America; a Descriptive Catalogue of the Species of Fish-like Vertebrates found in the Waters of North America, North of the Isthmus of Panama*. Pt. II. Bull. U. S. Nat. Mus. No. 47, 1241-2182. (Oct. 3, 1898.)

DAVID STARR JORDAN; BARTON WARREN EVERMANN.

Nector Jordan & Evermann, 1433; orthotype *BAIRDIELLA ARMATA* Gill.

- Zestis** Jordan & Evermann, 1439; orthotype *STELLIFER OSCITANS* J. & G.
Zestidium Jordan & Evermann, 1442; orthotype *STELLIFER ILLECEBROSUS* Gilbert.
Stellicarens Jordan & Evermann, 1445; orthotype *STELLIFER ZESTOCARUS* Gilbert.
Sigmurus (Gilbert) Jordan & Evermann, 1447; orthotype *CORVINA VERMICULARIS* Gthr.
Azurina (Jordan & McGregor) Jordan & Evermann, 1544; orthotype *A. HIRUNDO* Jordan & McGregor.
Forcipiger (Jordan & McGregor) Jordan & Evermann, 1671; orthotype *CHELMON LONGIROSTRIS* Cuv. & Val.
Emmelas Jordan & Evermann, 1773; orthotype *SEBASTODES GLAUCUS* Hilgendorf.
Alcidea Jordan & Evermann, 1886; orthotype *PARICELINUS THOBURNI* Gilbert.
Archistes (Jordan & Gilbert) Jordan & Evermann, 1900; orthotype *A. PLUMARIUS* J. & G.
Steligistrum (Jordan & Gilbert) Jordan & Evermann, 1921; orthotype *S. STEJNEGERI* J. & G.
Oxycottus Jordan & Evermann, 2015; orthotype *OLIGOCOTTUS ACUTICEPS* Gilbert.
Nautiscus Jordan & Evermann, 2019; orthotype *NAUTICHTHYS PRIBILOVIUS* J. & G.
Occa Jordan & Evermann, 2043; orthotype *BRACHYOPSIS VERRUCOSUS* Lockington.
Gurnardus Jordan & Evermann, 2148; orthotype *PRIONOTUS GYMNOTETHUS* Gilbert.
Merulinus Jordan & Evermann, 2148; orthotype *TRIGLA CAROLINA* L.
1791. JORDAN & EVERMANN (1898). *The Fishes of North and Middle America; a Descriptive Catalogue of the Species of Fish-like Vertebrates Found in the Waters of North America North of the Isthmus of Panama*. Part III. Bull. U. S. Nat. Mus., No. 47, pp. 2183-3136. (Nov., 1898.)
 DAVID STARR JORDAN; BARTON WARREN EVERMANN.
- Enypnias** Jordan & Evermann, 2232; orthotype *GOBIOUS SEMINUDUS* Gthr.
Dæctor Jordan & Evermann, 2325; orthotype *THALASSOPHYRNE DOWI* J. & G.
Bryssophilus Jordan & Evermann, 2329; orthotype *GOBIESOX PAPILLIFER* Gilbert.
Pterognathus (Girard) Jordan & Evermann, 2355; orthotype *NEOCLINUS SATIRICUS* Grd.
Corallicola Jordan & Evermann, 2369; orthotype *AUCHENOPTERUS NIGRIPINNIS* Steind.
Homesthes (Gilbert) Jordan & Evermann, 2394; orthotype *H. CAULOPUS* Gilbert.
Blenniulus Jordan & Evermann, 2386; orthotype *BLENNIUS BREVIPINNIS* Gthr.
Scartichthys Jordan & Evermann, 2395; orthotype *SALARIAS RUBROPUNCTATUS* Cuv. & Val. A substitute for *SCARTES* J. & E., 1896, preoccupied.
Enedrias Jordan & Evermann, 2414; orthotype *GUNNELLUS NEBULOSUS* T. & S.
Ernogrammus Jordan & Everman, 2441; orthotype *STICHÆUS ENNEAGRAMMUS* Kner.
Ozorthæ Jordan & Evermann, 2441; orthotype *STICHÆUS HEXAGRAMMUS* T. & S.
Embryx Jordan & Evermann, 2456; orthotype *LYCOPSIS CRASSILABRIS* Gilbert.
Lycias Jordan & Evermann, 2463; orthotype *LYCODES NEBULOSUS* Kner.
Theragra (Lucas) Jordan & Evermann, 2535; orthotype *GADUS CHALCOGRAMMUS* Pallas.
Emphycus Jordan & Evermann, 2552; orthotype *PHYCIS TENUIS* Mitchill. A substitute for *PHYCIS* Raf., which is preoccupied, but *PHYCIS* Röse (1793), its equivalent, is apparently valid.
Verasper (Jordan & Gilbert) Jordan & Evermann, 2618; orthotype *V. MOSERI* J. & G.
Ramularia Jordan & Evermann, 2663; orthotype *ANCYLOPSETTA DENDRITICA* Gilbert.
Perissias Jordan & Evermann, 2667 orthotype *PLATOPHYRYS TÆNIOPTERUS* Gilbert.

- Albatrossia** Jordan & Evermann, 2573; orthotype *MACROURUS PECTORALIS* Gilbert.
Bogoslovius Jordan & Evermann, 2574; orthotype *B. CLARKI* J. & G.
Aztecula Jordan & Evermann, 2799; orthotype *NOTROPIS AZTECUS* Woolman. A substitute for *AZTECA* J. & E., preoccupied.
Zaphotias (Goode & Bean) Jordan & Evermann, 2826; orthotype *BONAPARTIA PEDALIOTA* G. & B. Substitute for *BONAPARTIA* G. & B., preoccupied.
Rhynchias (Gill) Jordan & Evermann, 2841; orthotype *AMMODYTES SEPTIPINNIS* Pallas, a species still unrecognized.
Zalocys (Jordan & McGregor) Jordan & Evermann, 2848; orthotype *Z. STILBE* Jordan & McGregor.
Sigmistes (Rutter) Jordan & Evermann, 2863; orthotype *S. CAULIAS* Rutter.
Aspistor Jordan & Evermann, 2863; orthotype *ARIUS LUNISCUTIS* Cuv. & Val.
Crystallichthys (Jordan & Gilbert) Jordan & Evermann, 2864; orthotype *C. MIRABILIS* J. & G.
Allinectes Jordan & Evermann, 2866; orthotype *CAREPROCTUS ECTENES* Gilbert. Substitute for *ALLURUS* J. & E., preoccupied by *ALLURUS* Forster (1862), a genus of *HYMENOPTERA*; also by *ALLURUS* Eisen (1874), a genus of worms.
Prognurus (Jordan & Gilbert) Jordan & Evermann, 2866; orthotype *P. CYPSELURUS* J. & G.
Sicyosus Jordan & Evermann, 2867; orthotype *SICYDIUM GYMNOGASTER* Ogilvie-Grant. Substitute for *SICYA* Jordan & Evermann, preoccupied.
Alectrias Jordan & Evermann, 2869; orthotype *BLENNIUS ALECTROLOPHUS* Pallas.
Furcimanus Jordan & Evermann, 2869; orthotype *LYCODES DIAPTERUS* Gilbert. Substitute for *FURCELLA* J. & E., preoccupied.
Flammeo Jordan & Evermann, 2871; orthotype *HOLOCENTRUM MARIANUM* Cuv. & Val.

1792. JORDAN & MCGREGOR (1898). *List of Fishes Collected at the Revillagigedo Archipelago and Neighboring Islands*. Rept. U. S. Fish Comm., for 1898, 273-284.

DAVID STARR JORDAN; RICHARD CRITTENDEN MCGREGOR.

The contents of this paper were included in the appendix to Part III of the *Fishes of North and Middle America*, of the same date.

Zalocys Jordan & McGregor, 276; orthotype *Z. STILBE* Jordan & McGregor.

Forcipiger Jordan & McGregor, 279; orthotype *CHELMO LONGIROSTRIS* Cuv. & Val.

1793. JORDAN & GILBERT (1898). *The Fishes of Bering Sea. In Jordan, Fur Seals, and Fur-Seal Islands of the North Pacific Ocean*. Part III.

DAVID STARR JORDAN; CHARLES HENRY GILBERT.

The genera and species described in this paper were mostly included in Jordan & Evermann's *Fishes of North America*, Part III, of the same date.

Therobromus (Lucas) Jordan & Gilbert, 440; orthotype *THEROBROMUS CALLORHINI* Lucas.*

Archistes Jordan & Gilbert, 454; orthotype *A. PLUMARIUS* J. & G.

Stelgistrum Jordan & Gilbert, 456; orthotype *S. STEJNEGERI* J. & G.

Crystallichthys Jordan & Gilbert, 476; orthotype *C. MIRABILIS* J. & G.

Prognurus Jordan & Gilbert, 478; orthotype *P. CYPSELURUS* J. & G.

Albatrossia Jordan & Gilbert, 487; orthotype *MACROURUS PECTORALIS* Gilbert.

Verasper Jordan & Gilbert, 490; orthotype *V. MOSERI* J. & G.

* Frederick Augustus Lucas (1852-).

1794. NEWBERRY (1898). *New Species and New Genus of American Palæozoic Fishes, Together with Notes on the Genera Oracanthus, Dactyloodus, Polyrhizodus, Sandalodus, Deltodus*. Trans. N. Y. Acad., XVI, 1898, 282-304.

JOHN STRONG NEWBERRY.

Stenognathus Newberry, 303; orthotype *DINICHTHYS CORRUGATUS* Terrell (fossil).

1795. OGILBY (1898). *A Contribution to the Zoology of New Caledonia*. Proc. Linn. Soc. New S. Wales, XXII, 762-770.

JAMES DOUGLAS OGILBY.

Trichopharynx Ogilby, 769; orthotype *GABIUS CRASSILABRIS* Gthr. A synonym of *CHONOPHORUS* Poey (AWAOUS Steind.).

1796. OGILBY (1898). *New Genera and Species of Fishes*. Proc. Linn. Soc. New S. Wales, XXIII, 32-41, 280-299.

JAMES DOUGLAS OGILBY.

Cinetodus Ogilby, 32; orthotype *ARIUS FROGGATI* Ramsay.

Nedystoma Ogilby, 32; orthotype *HEMIPIMELODUS DAYI* Ramsay & Ogilby.

Pachyula Ogilby, 33; orthotype *HEMIPIMELODUS CRASSILABRIS* Ramsay. A synonym of *HEMIPIMELODUS*.

Thysanophrys Ogilby, 40; orthotype *PLATYCEPHALUS CIRRONASUS* Rich.

Tæniomembras Ogilby, 41; orthotype *ATHERINA MICROSTOMA* Gthr. Apparently a synonym of *HEPSETIA* Bon.

Endorrhis Ogilby, 283; orthotype *COPIDOGLANIS LONGIFILIS* Macleay. A synonym of *PARAPLOTOSUS*.

Congrellus Ogilby, 288; orthotype *MURENA BALEARICA* DeIaroché. A synonym of *ARIOSOMA* Sw., as restricted; first noted by Jordan & Evermann.

Bathycongrus Ogilby, 292; orthotype *CONGROMURENA NASICA* Alcock.

Eucentronotus Ogilby, 294; orthotype *E. ZIETZI* Ogilby. A synonym of *PERONEDYS* Steind.

Creedia Ogilby, 298; orthotype *C. CLATHRISQUAMIS* Ogilby.

1797. OGILBY (1898). *Additions to the Fauna of Lord Howe Island*. Proc. Linn. Soc. New S. Wales, 1898, XXIV, 730-745.

JAMES DOUGLAS OGILBY.

Howella Ogilby, 733; orthotype *H. BRODIEI* Ogilby.

Machærope Ogilby, 736; orthotype *M. LATISPINIS* Ogilby.

Diancistrus Ogilby, 743; orthotype *D. LONGIFILIS* Ogilby.

1798. OGILBY (1898). *On Some Australian Eleotrinæ*. Proc. Linn. Soc. New S. Wales, XXII, 783-893.

JAMES DOUGLAS OGILBY.

Caulichthys Ogilby, 784; orthotype *ELEOTRIS GUENTHERI* Blkr. A synonym of *HYPSELEOTRIS* Gill.

Austrogbio Ogilby, 788; orthotype *CARASSIOPS GALII* Ogilby.

1799. PRIEM (1898). *Sur la faune ichthyologique des Assises Montiennes du Bassin de Paris et en particulier sur Pseudolates herberti, Gervais*. Bull. Soc. Geol. France (3), XXVI, 399-412.

FERNAND PRIEM.

Pseudolates Priem, 408; orthotype *LATES HERBERTI* Gervais (fossil). Name pre-occupied by Macleay, 1877; replaced by *PROLATES* Priem.

1800. SMITT (1898). *Poissons de l'Expédition scientifique à la Terre de Feu*. Bih. Svenska Ak., XXIII-IV, no. 5, 1-80.

FREDERIK ADAM SMITT (1839-1904).

Dissostichus Smitt, 3; orthotype *D. ELEGINOIDES* Smitt.

1801. STEINDACHNER (1898). *Die Fische der Sammlung Plate. Fauna Chilensis . . . nach der Sammlung von Dr. L. Plate.* Zool. Jahrb. Suppl., IV, 281-337.

FRANZ STEINDACHNER.

Platea Steindachner, 323; orthotype *P. INSIGNIS* Steind.

1802. STORMS (1898). *Première note sur les Poissons Wemméliens (Éocène Supérieur) de la Belgique.* Mém. Soc. Belge. Geol., X, 1898, 198-240.

RAYMOND STORMS.

Ctenodentex Storms, 199; orthotype *DENTEX LÆKENIENSIS* Van Beneden (fossil).
Eomyrus Storms, 225; orthotype *E. DOLLOI* Storms (fossil).

1803. TRAQUAIR (1898). *Notes on Paleozoic Fishes, No. 2.* Ann. Mag. Nat. Hist. (7), II, 67-70.

RAMSAY HEATLEY TRAQUAIR.

Farnellia Traquair, 69; orthotype *F. TUBERCULATA* Traquair (fossil).

1804. VINCIGUERRA (1898). *I pesci dell' ultima Spedizione del Cap. Bottego.* Ann. Mus. Genova (2), XIX, 240-261.

DECIO VINCIGUERRA.

Oxyglanis Vinciguerra, 250; orthotype *O. SACCHII* Vinciguerra.

1805. WOODWARD (1898). *Notes on Some Type Specimens of Cretaceous Fishes from Mount Lebanon in the Geneva Museum.* Ann. Mag. Nat. Hist., VII, series 2.

ARTHUR SMITH WOODWARD.

Thrissopteroides Woodward, 408; orthotype *T. TENUICEPS* Woodw. = *CLUPEA ELONGATA* Davis (fossil).

1899.

1806. ABBOTT (1899). *The Marine Fishes of Peru.* Proc. Acad. Nat. Sci. Phila., 1899, 324-364.

JAMES FRANCIS ABBOTT (1875-).

Pisciregia Abbott, 342; orthotype *P. BEARDSLEEI* Abbott. A synonym of *BASILICHTHYS* Grd.

1807. ALCOCK (1899). *New Species of Fish.* Proc. Asiat. Soc. Bengal, 1899, 781.

ALFRED WILLIAM ALCOCK.

Halimochirus Alcock, 78; orthotype *H. CENTRISCOIDES* Alcock.

1808. AMEGHINO (1899). *Sinopsis geologico-paleontologica. Suplemento (Adiciones y correcciones).* La Plata, 1899, 1-13.

FLORENTINO AMEGHINO (1854-1911).

Paraikichthys Ameghino, 10; orthotype *P. ORNATISSIMUS* Ameghino (fossil).

1809. BERG (1899). *Substitucion de nombres genericos.* II Comun. Mus. Buenos Airés, I, 37-80.

CARLOS BERG.

Gilbertidia Berg, 42; orthotype *GILBERTINA SIGOLUTES* Jordan & Starks. Substitute for *GILBERTINA* Jordan & Starks, preoccupied.

Matæocephalus Berg, 43; orthotype *CÆLOCEPHALUS ACIPENSERINUS* Gilbert & Cramer. Substitute for *CÆLOCEPHALUS* Gilbert & Cramer, preoccupied.

1810. BOULENGER (1899). *Matériaux pour la faune du Congo. Poissons nouveaux du Congo. Troisième Partie: Silures, Acanthopterygiens, Mastacembles, Plectognathes*, Ann. Mus. Congo, Zool. I, 39-58. *Quatrième Partie: Polyptères, Clupes, Mormyres, Characins*, 59-96. *Cinquième Partie: Cyprins, Silures, Cyprinodontes, Acanthopterygiens*, 97-128.

GEORGE ALBERT BOULENGER.

Chrysobagrus Boulenger, 40; orthotype C. BREVIBARBIS Boulenger.
Gephyroglanis Boulenger, 42; logotype G. CONGICUS Boulenger.
Steatocranus Boulenger, 52; orthotype S. GIBBICEPS Boulenger.
Teleogramma Boulenger, 53; orthotype T. GRACILE Boulenger.
Odaxothrissa Boulenger, 64; orthotype O. LOSERA Boulenger.
Paraphago Boulenger, 76; orthotype P. ROSTRATUS Boulenger.
Neborus Boulenger, 78; orthotype N. ORNATUS Boulenger.
Micralestes Boulenger, 86; orthotype M. HUMILIS Boulenger.
Pseudoplesiops Boulenger, 90; orthotype P. NUDICEPS Boulenger. (Name preoccupied: Bleeker, 1858); replaced by NANOCHROMIS Pellégrin.
Chelæthiops Boulenger, 101; orthotype C. ELONGATUS Boulenger.
Parailia Boulenger, 105; orthotype P. CONGICA Boulenger.
Xenochromis Boulenger, 125; orthotype X. HECQUI Boulenger.

1811. BOULENGER (1899). *Second Contribution to the Ichthyology of Lake Tanganyika. On the Fishes Obtained by the Congo Free State Expedition under Lieut. Lemaire in 1898*. Trans. Zool. Soc. London, XV, 87-96.

GEORGE ALBERT BOULENGER.

Trematocara Boulenger, 89; orthotype T. MARGINATUM Boulenger.
Grammatotria Boulenger, 90; orthotype G. LEMAIRII Boulenger.
Xenotilapia Boulenger, 92; orthotype X. SIMA Boulenger.

1812. BOULENGER (1899). *Description of a New Genus of Perciform Fishes from the Cape of Good Hope*. Ann. S. African Mus., I, 379-380.

GEORGE ALBERT BOULENGER.

Atyposoma Boulenger, 379; orthotype A. GUERNEYI Boulenger.

1813. BOULENGER (1899). *Description of a New Genus of Gobioid Fishes from the Andes of Ecuador*. Ann. Mag. Nat. Hist. (7), IV, 125-126.

GEORGE ALBERT BOULENGER.

Oreogobius Boulenger, 125; orthotype O. ROSENBERGI Boulenger.

1814. BOULENGER (1899). *Descriptions of Two New Homalopterine Fishes from Borneo*. Ann. Nat. Hist. (7), IV, p. 228-229.

GEORGE ALBERT BOULENGER.

Glaniopsis Boulenger, 228; orthotype G. HANITSCHI Boulenger.

1815. EIGENMANN (1899). *A case of Convergence*. Science IX.

CARL H. EIGENMANN.

Troglichthys Eigenmann, 282; orthotype TYPHLICHTHYS ROSÆ Eigenmann (a blind fish from a cave in Missouri).

1816. EVERMANN & MARSH (1899). *Descriptions of New Genera and Species of Fishes from Puerto Rico*. Rept. U. S. Fish Comm. for 1899.

BARTON WARREN EVERMANN; MILLARD CALEB MARSH.

Gillias Evermann & Marsh, 357; orthotype G. JORDANI Evermann & Marsh.
Auchenistius Evermann & Marsh, 359; orthotype A. STAHLI Evermann & Marsh.
Coralliozetus Evermann & Marsh, 362; orthotype C. CARDONÆ Evermann & Marsh.

1817. GARMAN (1899). *Reports on an Exploration off the West Coasts of Mexico, Central and South America, and off the Galapagos Islands, in Charge of Alexander Agassiz, by the U. S. Fish Commission Steamer "Albatross" during 1891, Lieut. Commander Z. L. Tanner, U. S. N., Commanding. The Fishes.* Mem. Mus. Harvard, XXIV, 1-431.

SAMUEL GARMAN.

- Centristhmus** Garman, 47; orthotype *C. SIGNIFER* Garman.
Ectreposebastes Garman, 53; orthotype *E. IMUS* Garman.
Dolopichthys Garman, 81; orthotype *D. ALLECTOR* Garman.
Halieutopsis Garman, 89; orthotype *H. TUMIFRONS* Garman.
Dibranchopsis Garman, 96; orthotype *HALIEUTÆA SPONGIOSA* Gilbert.
Dibranchichthys Garman, 99; orthotype *D. NUDIVOMER* Garman.
Bothrocaropsis Garman, 127; orthotype *B. ALALONGA* Garman.
Leucicorus Garman, 146; orthotype *L. LUSCIOSUS* Garman.
Holcomycteronus Garman, 163; orthotype *H. DIGITATUS* Garman.
Eretmichthys Garman, 164; orthotype *E. PINNATUS* Garman.
Pseudonus Garman, 169; orthotype *P. ACUTUS* Garman.
Sciadonus Garman, 171; orthotype *S. PEDICELLARIS* Garman.
Microlepidium Garman, 180; orthotype *LEPIDION VERECUNDUM* Gilbert.
Leptophycis Garman, 182; orthotype *L. FILIFER* Garman.
Lychnopoles Garman, 224; orthotype *L. ARGENTEOLUS* Garman.
Dactylostomias Garman, 279; orthotype *D. FILIFER* Garman.
Congrosoma Garman, 308; orthotype *C. EVERMANNI* Garman.
Atopichthys Garman, 327; logotype *A. ESUNCULUS* Garman. A catchall for unplaced larval eels not known to be young CONGERS.

- 1818-1819. HAY (1899). *On Some Changes in the Names, Generic and Specific, of Certain Fossil Fishes.* Amer. Naturalist, XXXIII, 783-792.

OLIVER PERRY HAY.

- Stemmatias** Hay, 784; logotype *STEMMATODUS CHEIRIFORMIS* St. John & Worthen (fossil). Substitute for *STEMMATODUS* St. John & Worthen, preoccupied by *STEMMATODUS* Heckel.
Hybocladodus Hay, 784; orthotype *HELODUS COMPRESSUS* St. John & Worthen (fossil).
Platyxystrodus Hay, 785; orthotype *COCHLIODUS STRIATUS* Ag. (fossil). Substitute for *XYSTRODUS* (Ag.) Morris & Roberts, preoccupied by *XYSTRODUS* Plieninger (1860).
Polypsephis Hay, 788; orthotype *MICRODON ELEGANS* Ag. Substitute for *MICRODON* Ag., preoccupied in *DIPTERA* Meigen, 1803; but *PROSCINETES* Gistel (1848) is a still earlier substitute name.
Redfieldius Hay, 789; orthotype *CATOPTERUS GRACILIS* Redfield. Substitute for *CATOPTERUS* Redfield, preoccupied by *CATOPTERUS* Ag.
Grypodon Hay, 790; orthotype *ANCISTRODON TEXANUS* Dames (fossil). Substitute for *ANCISTRODON* Roemer, and *AGKISTRODON* de Koninck, regarded as preoccupied by *AGKISTRODON* Beauvais (*ANCISTRODON* of authors).
 1820. JORDAN & SNYDER (1899). *Notes on a Collection of Fishes from the Rivers of Mexico, with Descriptions of Twenty New Species.* Bull. U. S. Fish Comm. for 1899, 116-147.

DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER (1867-).

- Istlarius** Jordan & Snyder, 118; orthotype *I. BALSANUS* Jordan & Snyder.

Xystrosus Jordan & Snyder, 123; orthotype X. **POFOCHE** Jordan & Snyder.
Falcula Jordan & Snyder, 124; orthotype F. **CHAPALÆ** Jordan & Snyder.
Xenendum Jordan & Snyder, 127; orthotype X. **CALIENTE** Jordan & Snyder.

1821. KARPINSKII (1899). *Ueber die Reste von Edestiden und die neue Gattung von Helicoprion*. Mem. Acad. Sci. St. Petersburg, VIII (and in other papers).

ALEKSANDR PETROVICH KARPINSKII (1846-).

Helicoprion Karpinskii, 307; orthotype H. **BESSENOWI** Karpinskii (fossil).

1822. OGILBY (1899). *Contributions to Australian Ichthyology*. Proc. Linn. Soc. New S. Wales, 1899, XXIV, 154-186.

JAMES DOUGLAS OGILBY.

Euristhmus Ogilby, 154; logotype **PLOTOSUS ELONGATUS** Castelnau.

Ostophycephalus Ogilby, 155; orthotype O. **DURICEPS** Ogilby.

Austrocobitis Ogilby, 158; orthotype **MESITES ATTENUATUS** Jenyns. A substitute for **MESITES** Jenyns, preoccupied; a synonym of **GALAXIAS** Cuv.

Epinephelides Ogilby, 170; orthotype E. **LEAI** Ogilby.

Anagramma Ogilby, 175; orthotype **CALLANTHIAS ALLPORTI** Gthr. A synonym of **CALLANTHIAS** Gthr.

1823-1824. PRIEM (1899). *Sur des poissons fossiles éocènes d'Égypte et de Roumanie, et rectification relative à Pseudolates heberti (Gervais)*. Bull. Soc. Geol. France, 1899, 3 ser. XXVII, 241-252.

FERNAND PRIEM.

Scorpænoïdes Priem, 248; orthotype S. **POPOVICII** Priem. (fossil). (Not **SCORPÆ-NODES** Blkr.)

Prolates Priem, 252; orthotype **LATES HEBERTI** Gervais (fossil). A substitute for **PSEUDOLATES** Priem, preoccupied.

1825. SMITT (1899). *Preliminary Notes on the Arrangement of the Genus Gobius, with an Enumeration of Its European Species*. Ofv. Vet. Ak. Forh., 1899, 543-555.

FREDERIK ADAM SMITT (1839-1904).

Caffrogobius Smitt, 540; orthotype **GOBIOUS NUDICEPS** Cuv. & Val.

Lebistes Smitt, 543; orthotype L. **SCORPIOIDES** Smitt. Not **LEBISTES** Filippi, 1862.

Mugilogobius Smitt, 543; for "Indian & Japanese Species," no type named, but in a personal letter in 1903 Dr. Smitt stated to me that his type species was the one named **CTENOGOBIOUS ABEI** Jordan & Snyder. Accepting this version, **MUGILOGOBIOUS** is substantially the same as **VAIMOSA** Jordan & Seale, which name it may replace.

Mapo Smitt, 543; orthotype **GOBIOUS SOPORATOR** Cuv. & Val. A synonym of **BATHYGOBIOUS** Blkr.

✓ **Proterorhinus** Smitt, 544; orthotype **GOBIOUS MARMORATUS** Pallas.

Eichwaldia Smitt, 545; orthotype **GOBIOUS CASPIUS** Eichwald.

1826. STEWART (1899). *Leptichthys, a New Genus of Fishes from the Cretaceous of Kansas*. Amer. Geologist, XXIV.

ALBAN F. STEWART.

Leptichthys Stewart, 78; orthotype L. **AGILIS** Stewart (fossil).

1827. TRAQUAIR (1899). *Report on Fossil Fishes Collected by the Geological Survey of Scotland in the Silurian Rocks of the South of Scotland*. Trans. Roy. Soc. Edinburgh, XXXIX, 827-864.

RAMSAY HEATLEY TRAQUAIR.

- Lanarkia** Traquair, 832; logotype *L. HORRIDA* Traquair (fossil).
Ateleaspis Traquair, 834; orthotype *A. TESSELLATA* Traquair (fossil).
Birkenia Traquair, 837; orthotype *B. ELEGANS* Traquair (fossil).
Lasanius Traquair, 840; logotype *L. PROBLEMATICUS* Traquair (fossil).
1828. **VARPACHOVSKII** (1899). *Sur la faune ichthyologique de la fleuve Obi.* Ann. Mus. Acad. Imp. St. Petersb.
 NICOLAI ARCADEVICH VARPACHOVSKII.
Oreoleuciscus Varpachovskii, 263; orthotype *CHONDROSTOMA POTANINI* Kessler.
1829. **WAITE** (1899). *Scientific Results of the Trawling Expedition of H. M. C. C. S. "Thetis." Fishes.* Mem. Austr. Mus., IV, 1-132.
 EDGAR RAVENSWOOD WAITE (1866-).
Paratrachichthys Waite, 64; orthotype *TRACHICHTHYS TRAILLI* Hutton.
Pterygotrigla Waite, 108; orthotype *TRIGLA POLYOMMATA* Rich. Replaces *HOPLONOTUS* Guichenot, preoccupied, apparently same as *OTOHIME* Jordan & Starks of later date.
1830. **WILLISTON** (1899). *A New Genus of Fishes from the Niobara Cretaceous.* Kans. Univ. Quarterly, 1899, VIII, 113-115.
 SAMUEL WENDALL WILLISTON (1852-1918).
Leptecodon Williston, 113; orthotype *L. RECTUS* Williston (fossil).
1831. **WOODWARD** (1899). *Additional Notes on Some Type Specimens of Cretaceous Fishes from Mount Lebanon in the Edinburgh Museum of Science and Art.* Ann. Mag. Nat. Hist. (7), IV, 317-321.
 ARTHUR SMITH WOODWARD.
Nematonotus Woodward, 318; orthotype *CLUPEA BOTTÆ* Pictet & Humbert (fossil).
1832. **WOODWARD** (1899). *Note on Some Cretaceous Clupeoid Fishes with Pectinated Scales. (Ctenothrissa and Pseudoberyx.)* Ann. Mag. Nat. Hist. 1899, (7), III, 489-492.
 ARTHUR SMITH WOODWARD.
Ctenothrissa Woodward, 490; orthotype *BERYX VEXILLIFER* Pictet (fossil).
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- 1900.
1833. **BOULENGER** (1900). *On Some Little Known African Siluroid Fishes of the Subfamily Doradinae.* Ann. Mag. Nat. Hist. (7), VI, 520-529.
 GEORGE ALBERT BOULENGER.
Euchilichthys Boulenger, 523; logotype *ATOPOCHILUS GUENTHERI* Schilthuis.
Phractura Boulenger, 527; orthotype *PELTURA BOVEI* Perugia. Substitute for *PELTURA* Perugia, regarded as preoccupied by *PELTOURA*, 1840.
Andersonia Boulenger, 528; orthotype *A. LEFTURA* Boulenger.
1834. **BOULENGER** (1900). *Matériaux pour la faune du Congo. Poissons nouveaux du Congo. Sixième Partie.* Ann. Mus. Congo. Zool., I, 129-164.
 GEORGE ALBERT BOULENGER.
Leptocypris Boulenger, 133; orthotype *L. MODESTUS* Boulenger.
Spathodus Boulenger, 152; orthotype *S. ERYTHRODON* Boulenger.

1835. BRAUER (1900). *Aus der Tiefen des Weltmeeres* (by Prof. Carl Chun). *Schilderung von der deutschen Tiefsee-Expedition*. Jena, 1900, 549 pp.

AUGUST BRAUER.

Megalopharynx Brauer, 521; orthotype *M. LONGICAUDATUS* Brauer.

1836. DELFIN (1900). *Nota del Ictiologia. El nuevo jenero Cilus*. Act. Soc. Chili, X, 53-60.

FREDERICO TEOBALDO DELFIN.

Cilus Delfin, 56; orthotype *C. MONTII* Delfin.

1837. DOLLO (1900). *Cryodraco antarcticus, poisson abyssal nouveau, recueilli par l'expédition antractique belge*, etc. Bull. Ac. Belgique, 1900, 128-137.

LOUIS DOLLO (1857-).

Cryodraco Dollo, 129; orthotype *C. ANTARCTICUS* Dollo.

1838. DOLLO (1900). *Gerlachea australis, poisson abyssal nouveau recueilli par l'expédition antarctique belge*, etc. Bull. Ac. Belgique, 1900, 194-206.

LOUIS DOLLO.

Gerlachea Dollo, 195; orthotype *G. AUSTRALIS* Dollo.

1839. DOLLO (1900). *Racovitzia glacialis, poisson abyssal nouveau recueilli par l'expédition antarctique belge*, etc. Bull. Ac. Belgique, 1900, 316-327.

LOUIS DOLLO.

Racovitzia Dollo, 317; orthotype *R. GLACIALIS* Dollo.

1840. EIGENMANN & NORRIS (1900). *Sobre algunos peixes de S. Paulo, Brazil*. Revista Mus. Paulista, IV, 1900, 349-362.

CARL H. EIGENMANN; ALLEN A. NORRIS.

Imparfinis Eigenmann & Norris, 351; orthotype *I. PIPERATUS* Eigenmann & Norris.

Goeldiella Eigenmann & Norris, 353; orthotype *PIMELODUS EQUES* M. & T.

Iheringichthys Eigenmann & Norris, 354; orthotype *PIMELODUS LABROSUS* Kröyer.

Perugia Eigenmann & Norris, 355; orthotype *PIRINAMPUS AGASSIZI* Steind.

Bergiella Eigenmann & Norris, 355; orthotype *PIMELODUS WESTERMANNI* Reinh.

Catabasis Eigenmann & Norris, 358; orthotype *C. ACUMINATUS* Eigenmann & Norris.

1841. GILBERT (1900). *Results of the Branner-Agassiz Expedition to Brazil. III. The Fishes*. Proc. Wash. Ac., II, 161-184.

CHARLES HENRY GILBERT.

Brannerella Gilbert, 180; orthotype *B. BRASILIENSIS* Gilbert.

1842. JORDAN (1900). *Notes on Recent Fish Literature*. Amer. Naturalist, XXXIV, 897-899.

DAVID STARR JORDAN.

Dolloa Jordan, 897; orthotype *CORYPHÆNOIDES LONGIFILIS* Gthr. Substitute for *MOSELEYA* G. & B., preoccupied.

1843. JORDAN & EVERMANN (1900). *The Fishes of North & Middle America; a Descriptive Catalogue of the Species of Fish-like Vertebrates Found in the Waters of North America, North of the Isthmus of Panama*. Part IV, Bull. U. S. Nat. Mus., No. 47, 3137-3313.

DAVID STARR JORDAN; BARTON WARREN EVERMANN.

Orcula Jordan & Evermann, 3140; orthotype *NOTROPIS ORCA* Woolman. A substitute for *ORCELLA* J. & E., preoccupied in CETACEA.

Rhegma (Gilbert) Jordan & Evermann, 3169; orthotype *R. THAUMASIMUM* Gilbert.

1844. JORDAN & SNYDER (1900). *A List of Fishes Collected in Japan by Keinosuke Otaki, and by the United States Steamer "Albatross," with Descriptions of Fourteen New Species.* Proc. U. S. Nat. Mus., XXIII, 335-380. (Dec. 20, 1890.)

DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.

Otakia Jordan & Snyder, 345; orthotype *O. RASBORINA* Jordan & Snyder.

Ischikauia Jordan & Snyder, 346; orthotype *OPSARICHTHYS STEENACKERI* Sauvage.

Konosirus Jordan & Snyder, 349; orthotype *CHATOËSSUS NASUS* Bloch. A synonym of *CLUPANODON* Lac., as now properly restricted.

Bryttosus Jordan & Snyder, 354; orthotype *SERRANUS KAWAMEBARI* T. & S.

Eteliscus Jordan & Snyder, 355; orthotype *ETELIS BERYCOIDES* Hilgendorf. Equivalent to *CORUSCULUS* Jordan & Snyder. Both are synonyms of *DODERLEINIA* Steind.

Insidiator Jordan & Snyder, 368; orthotype *PLATYCEPHALUS RUDIS* Gthr. = *PLATYCEPHALUS MEERDERVOORTI* Blkr.

Trifissus Jordan & Snyder, 373; orthotype *T. IOTURUS* Jordan & Snyder. A synonym of *TRIDENTIGER* Gill.

Rhombiscus Jordan & Snyder, 379; orthotype *RHOMBUS CINNAMOMEUS* T. & S. A synonym of *PSEUDORHOMBUS* Blkr.

Kareius Jordan & Snyder, 379; orthotype *PLEURONECTES SCUTIFER* Steind.

Usinosita Jordan & Snyder, 380; orthotype *PLAGUSIA JAPONICA* T. & S., misprinted *USINOSTIA*. A synonym of *RHINOPLAGUSIA* Blkr.

Zebrias Jordan & Snyder, 380; orthotype *SOLEA ZEBRINA* T. & S.

Areliscus Jordan & Snyder, 380; orthotype *SOLEA JOYNERI* Gthr.

1845. KYLE (1900). *On a New Genus of Flat-Fishes from New Zealand.* Proc. Zool. Soc. London, 1900, 986-992.

HARRY M. KYLE.

Apsetta Kyle, 986; orthotype *A. THOMPSONI* Kyle.

1846. LOOMIS (1900). *Die Anatomie und die Verwandtschaft der Ganoid- und Knochen-Fische aus der Kreide-Formation von Kansas, U. S. A.* Palæontogr., XLVI, 213-284.

FREDERICK BREWSTER LOOMIS (1873-).

Pseudothryptodus Loomis, 225; orthotype *P. INTERMEDIUS* Loomis (fossil).

Thryptodus Loomis, 229; logotype *PLETHODUS ZITTELI* Loomis (fossil). Apparently replaces *ANOGMIUS* Cope, 1877 (*A. ARATUS*), not of 1871 (*A. CONTRACTUS*).

Syntegomodus Loomis, 252; orthotype *S. ALTUS* Loomis (fossil).

1847. NIKOLSKII (1900). *Pseudoscaphirhynchus rossikowi n. gen. et spec.* Ann. Mus. St. Petersb., IV, 257-259.

ALEKSANDR MIKHAILOVICH NIKOLSKII.

Pseudoscaphirhynchus Nikolskii, 257; orthotype *P. ROSSIKOWI* Nikolskii = *SCAPHIRHYNCHUS HERMANNI* (Sewertov) Kessler. A synonym of *KESSLERIA* Bogdanow.

1848. PELLÉGRIN (1900). *Poissons nouveaux ou rares du Congo Français.* Bull. Mus. Paris, 1900, 175-176, 348-354.

JACQUES PELLÉGRIN.

Mesoborus Pellégrin, 179; orthotype *M. CROCODILUS* Pellégrin.

Hemistichodus Pellégrin, 352; orthotype *H. VAILLANTI* Pellégrin. Replaces *MONOSTICHODUS* Vaillant, said to be "nomen nudum."

Monostichodus (Vaillant) Pellégrin, 352; orthotype (*HEMISTICHODUS VAILLANTI* Pellégrin). A "nomen nudum" quoted by Pellégrin, said to be synonymous with *HEMISTICHODUS*.

1849. PELLÉGRIN (1900). *Poisson nouveau du lac Baikal*. Bull. Mus. Paris, 1900, 354-356.

JACQUES PELLÉGRIN.

Cottocomephorus Pellégrin, 354; orthotype *C. MEGALOPS* Pellégrin.

1850. WAITE (1900). *Additions to the Fish-Fauna of Lord Howe Island*. Rec. Austr. Mus., III, 193-209.

EDGAR RAVENSWOOD WAITE.

Acanthocaulus Waite, 206; orthotype *PRIONURUS MICROLEPIDOTUS* Lac. A substitute for *PRIONURUS* Lac., 1804, wrongly supposed to be preoccupied, the date of the latter being assumed as 1830, the time of a reprint.

Euchilomycterus Waite, 208; orthotype *E. QUADRATICATUS* Waite.

1851. WILLISTON (1900). *Some Fossil Teeth from the Kansas Cretaceous*. Kansas Quart., VIII, 27-42.

SAMUEL WENDALL WILLISTON.

Leptostyrax Williston, 42; orthotype *L. BISCUSPIDATUS* Williston (fossil).

1852. WOODWARD (1900). *On a New Ostracoderm (Euphanerops longævus) from the Upper Devonian of Scaumenac Bay, Province of Quebec, Canada*. Ann. Mag. Nat. Hist. (7), V, 416-419.

ARTHUR SMITH WOODWARD.

Euphanerops Woodward, 416; orthotype *E. LONGÆVUS* Woodw. (fossil).

1853. WOODWARD (1900). *Evidence of an Extinct Eel (Urenchelys anglicus) from the Upper Devonian of Scaumenac Bay, Province of Quebec, Canada*. Ann. Mag. Nat. Hist. (7), V, 321-323.

ARTHUR SMITH WOODWARD.

Urenchelys Woodward, 322; logotype *ANGUILLA HAKELENSIS* Davis (fossil).

Pronotacanthus Woodward, 322; orthotype *ANGUILLA SAHEL-ALME* Davis (fossil).

1854. ZITTEL (1900). *Handbuch der Palæontologie, III*. Pt. XII, 1890.

KARL A. ZITTEL.

Phlyctænium Zittel, 159; orthotype *COCCOSTEUS ACADICUS* Whiteaves (fossil). A substitute for *PHLYCTÆNIUS* Traquair, preoccupied, but *PHLYCTÆNASPIS* Traquair, 1890, has priority.

1901.

1855. ABBOTT (1901). *List of Fishes Collected in the River Pei-Ho at Tien-Tsin, China, by Noah Fields Drake, with Descriptions of Seven New Species*. Proc. U. S. Nat. Mus., XXIII, 483-491. (February 25, 1901.)

JAMES FRANCIS ABBOTT (1876-).

Culticula Abbott, 485; orthotype *C. EMMELAS* Abbott.

1856. AMMON (1901). *Ueber eine Tiefbohrung durch den Buntsandstein und die Zechsteinschichten bei Meelrichstadt an der Rhön*. Geogn. Jahresb. München, XIII.

LUDWIG VON AMMON.

Ehippites Von Ammon, 59; orthotype *E. PEISSENBERGIENSIS* Ammon (fossil).

1857. BOULENGER (1901). *Third Contribution to the Ichthyology of Lake Tanganyika. Report on the Collection Made by Mr. J. E. S. Moore in Lake Tanganyika and Kivu during His Second Expedition, 1899-1900*. Trans. Zool. Soc. London, XVI, 137-178.

GEORGE ALBERT BOULENGER.

Gephyrochromis Boulenger, 156; orthotype *G. MOORII* Boulenger.

Asprotilapia Boulenger, 159; orthotype *A. LEPTURA* Boulenger.

1858. BOULENGER (1901). *Diagnosis of New Fishes Discovered by Mr. W. L. S. Loat in the Nile*. Ann. Mag. Nat. Hist. (7), VII, 444-446.

GEORGE ALBERT BOULENGER.

Cromeria Boulenger, 445; orthotype *C. NILOTICA* Boulenger.

Physailia Boulenger, 445; orthotype *P. PELLUCIDA* Boulenger.

1859. BOULENGER (1901). *Notes on the Classification of Teleostean Fishes. I. On the Trachinidae and Their Allies*. Ann. Mag. Nat. Hist. (7), VII, 261-271.

GEORGE ALBERT BOULENGER.

Rhyacichthys Boulenger, 267; orthotype *P. ASPRO* Van Hasselt. A substitute for *PLATYPTERA* (Kuhl & Van Hasselt) Cuv. & Val.; preoccupied in files, Meigen, 1803.

1860. BOULENGER (1901). *On the Fishes Collected by Dr. W. J. Ansorge in the Niger Delta*. Proc. Zool. Soc. London, 1901, 4-10.

GEORGE ALBERT BOULENGER.

Polycentropsis Boulenger, 8; orthotype *P. ABBREVIATA* Boulenger.

1861. BOULENGER (1901). *On Some Deep-Sea Fishes Collected by Mr. F. W. Townsend in the Sea of Oman*. Ann. Mag. Nat. Hist. (7), VII, 261-263.

GEORGE ALBERT BOULENGER.

Parascolopsis Boulenger, 262; orthotype *P. TOWNSENDI* Boulenger.

1862. BRAUER (1901). *Ueber einige von der Valdivia-Expedition gesammelte Tiefseefische und ihre Augen*. Sitzber. Ges. Marburg, 1901, 115-130.

AUGUST BRAUER.

Winteria Brauer, 126; orthotype *W. TELESCOPA* Brauer.

Dolichopteryx Brauer, 127; orthotype *D. LONGIPES* Brauer.

Gigantura Brauer, 128; orthotype *G. CHUNI* Brauer.

1863. COLLETT (1901). *Om fem for Norges fauna nye fiske*. Arch. Math. Naturv. Christiania, XXIII, 125.

ROBERT COLLETT.

Bathyalopex Collett, 5; orthotype *CHIMERA MIRABILIS* Collett.

- 1863A. DEAN (1901). *Further Notes on the Relationships of the Arthrognathi. Palaeontological Notes*. Mem. N. Y. Acad. Sci., II, 110 to 123.

BASHFORD DEAN (1867-).

Selenosteus Dean, 110; orthotype *S. KEPLERI* Dean (fossil).

Stenosteus Dean, 110; orthotype *S. GLABERI* Dean (fossil).

1864. EIGENMANN & NORRIS (1901). *Bergiaria*. *Comun. Mus. Buenos Aires*, 272.

CARL H. EIGENMANN; ALLEN A. NORRIS.

- Bergiaria** Eigenmann & Norris, 272; orthotype *PIMELODUS WESTERMANNI* Reinh. Substitute for *BERGIELLA* Eigenmann & Norris, preoccupied.

1865. FOWLER (1901). *Description of a New Hemiramphid*. *Proc. Acad. Nat. Sci. Phila.*, 1901, 293-294.

HENRY WEED FOWLER.

- Hemioxocætus** Fowler, 293; orthotype *H. CAUDIMACULATUS* Fowler.

1866. FOWLER (1901). *Note on the Odontostomidae*. *Proc. Acad. Nat. Sci. Phila.*, 1901, 211-212.

HENRY WEED FOWLER.

- Evermanella** Fowler, 211; orthotype *ODONTOSTOMUS HYALINUS* Cocco. Substitute for *ODONTOSTOMUS* Cocco, preoccupied in Mollusks, Beck, 1837.

1867. GARMAN (1901). *Genera and Families of Chimæroids*. *Proc. New England Zool. Club*, II, 75-77.

SAMUEL GARMAN.

- Rhinochimæra** Garman, 75; orthotype *HARRIOTTA PACIFICA* Mitsukuri.

1868. GILL & TOWNSEND (1901). *The Largest Deep-Sea Fish*. *Science* (2), XIV, 937-938.

THEODORE NICHOLAS GILL; CHARLES HASKINS TOWNSEND (1859-).

- Macrias** Gill & Townsend, 937; orthotype *M. AMISSUS* Gill & Townsend.

1869. GREELEY (1901). *Notes on the Tide-Pool Fishes of California, with a Description of Four New Species*. *Bull. U. S. Fish Comm.*, XIX, 7-20.

ARTHUR WHITE GREELEY (1875-1904).

- Rusciculus** Greeley, 13; orthotype *R. RIMENSIS* Greeley.

- Dialarchus** Greeley, 14; orthotype *D. SNYDERI* Greeley.

- Eximia** Greeley, 18; orthotype *E. RUBELLIO* Greeley. Name preoccupied: Karl Jordan, 1894; it may be replaced by the new name *GREELEYA* Jordan, in honor of the very able young naturalist, discoverer of the species.

1870. JENKINS (1901). *Descriptions of Fifteen New Species of Fishes from the Hawaiian Islands*. *Bull. U. S. Fish Comm.*, XIX, 387-407.

OLIVER PEEBLES JENKINS (1850-).

- Eumycterias** Jenkins, 399; orthotype *E. BITÆNIATUS* Jenkins. A synonym of *CANTHIGASTER* Sw.

- Scaridea** Jenkins, 468; orthotype *S. ZONARCHA* Jenkins.

1871. JORDAN & SNYDER (1901). *Descriptions of Three New Species of Fishes from Japan*. *Proc. Calif. Acad. Sci.* (3), II, 381-386.

DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.

- Ereunias** Jordan & Snyder, 377; orthotype *E. GRALLATOR* Jordan & Snyder.

- Draciscus** Jordan & Snyder, 379; orthotype *D. SACHI* Jordan & Snyder.

1872. JORDAN & SNYDER (1901). *List of Fishes Collected in 1883 and 1885 by Pierre Louis Jouy and preserved in the United States National Museum, with Descriptions of Six New Species*. *Proc. U. S. Nat. Mus.*, XXIII, 740-769. (July 21, 1901.)

DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.

- Chasmias** Jordan & Snyder, 761; orthotype *C. MISAKIUS* Jordan & Snyder. Name preoccupied, replaced by *CHASMICHTHYS* Jordan & Snyder.
- Watasea** Jordan & Snyder, 765; orthotype *W. SIVICOLA* Jordan & Snyder.
1873. JORDAN & SNYDER (1901). *A Preliminary Check-List of the Fishes of Japan*. Annot. Zool. Jap., III, 31-159.
DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
- Corusculus** Jordan & Snyder, 75; orthotype *ANTHIAS BERYCOIDES* Hilgendorf. A synonym of *DODERLEINIA* Steind., the definition being that of *ETELISCUS* duplicated by accident.
1874. JORDAN & SNYDER (1901). *Descriptions of Nine New Species of Fishes Contained in Museums of Japan*. Journ. Coll. Sci. Tokyo, XV, 301-311.
DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
- Bentenia** Jordan & Snyder, 306; orthotype *B. ÆSTICOLA* Jordan & Snyder.
- Ebisus** Jordan & Snyder, 308; orthotype *E. SAGAMIUS* Jordan & Snyder. A synonym of *ERILEPIS* Gill.
1875. JORDAN & SNYDER (1901). *Fishes of Japan*. Am. Nat., XXXV.
DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
- Chasmichthys** Jordan & Snyder, 941; orthotype *CHASMIAS MISAKIUS* Jordan & Snyder. Substitute for *CHASMIAS* Jordan & Snyder, preoccupied.
1876. JORDAN & SNYDER (1901). *A Review of the Apodal Fishes of Japan, with Descriptions of Nineteen New Species*. Proc. U. S. Nat. Mus., XXIII, 837-890. (Aug. 28, 1901.)
DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
- Chlevastus** Jordan & Snyder, 867; orthotype *OPHICHTHYS COLUBRINUS* Boddaert.
- Xyrias** Jordan & Snyder, 868; orthotype *X. REVULSUS* Jordan & Snyder.
- Æmasia** Jordan & Snyder, 883; orthotype *Æ. LICHENOSA* Jordan & Snyder.
- Scuticaria** Jordan & Snyder, 886; orthotype *ICHTHYOPHIS TIGRINUS* Lesson.
1877. JORDAN & SNYDER (1901). *A Review of the Gobioid Fishes of Japan, with Descriptions of Twenty-one New Species*. Proc. U. S. Nat. Mus., XXIV, 33-132. (Sept. 25, 1901.)
DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
- Vireosa** Jordan & Snyder, 38; orthotype *V. HANÆ* Jordan & Snyder.
- Hazeus** Jordan & Snyder, 51; orthotype *H. OTAKII* Jordan & Snyder. A synonym of *GNATHOLEPIS* Blkr.
- Chloëa** Jordan & Snyder, 78; orthotype *GOBIOUS CASTANEA* O'Shaughnessy. Not *CHLOËA* Savigny, 1817, a genus of worms. *CHLOËA* is a personal name.
- Suruga** Jordan & Snyder, 96; orthotype *S. FUNDICOLA* Jordan & Snyder.
- Sagamia** Jordan & Snyder, 100; orthotype *S. RUSSULA* Jordan & Snyder.
- Ainosus** Jordan & Snyder, 109; orthotype *GOBIOUS GENEIONEMA* Hilgendorf.
- Astrabe** Jordan & Snyder, 119; orthotype *A. LACTISELLA* Jordan & Snyder.
- Clariger** Jordan & Snyder, 120; orthotype *C. COSMURUS* Jordan & Snyder.
- Eutæniichthys** Jordan & Snyder, 122; orthotype *E. GILLI* Jordan & Snyder.
1878. JORDAN & SNYDER (1901). *A Review of the Hypostomide and Lophobranchiate Fishes of Japan*. Proc. U. S. Nat. Mus., XXIV, 1-20. (Oct. 1, 1901.)
DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
- Zalises** Jordan & Snyder, 2; orthotype *Z. UMITENGU* Jordan & Snyder. A synonym of *PEGASUS* L.

- Yozi** Jordan & Snyder, 8; orthotype *Y. WAKANOURÆ* Jordan & Snyder.
1879. JORDAN & SNYDER (1901). *A Review of the Cardinal Fishes of Japan*. Proc. U. S. Nat. Mus., XXIII, 891-913. (Oct. 12, 1901.)
DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
- Telescopias** Jordan & Snyder, 909; orthotype *T. GILBERTI* Jordan & Snyder.
1880. JORDAN & STARKS (1901). *Descriptions of Three New Species of Fishes from Japan*. Proc. Calif. Acad. Sci. (3), II, 381-386.
DAVID STARR JORDAN; EDWIN CHAPIN STARKS (1867-).
- Snyderina** Jordan & Starks, 381; orthotype *S. YAMANOKAMI* Jordan & Starks.
1881. JORDAN & STARKS (1901). *A Review of the Atherine Fishes of Japan*. Proc. U. S. Nat. Mus., XXIV, 198-206. (Oct. 4, 1901.)
DAVID STARR JORDAN; EDWIN CHAPIN STARKS.
- Atherion** Jordan & Starks, 203; orthotype *A. ELYMUS* Jordan & Starks.
- Iso** Jordan & Starks, 204; orthotype *I. FLOS-MARIS* Jordan & Starks. Replaces *TROPIDOSTHETHUS* Ogilby, preoccupied.
1882. LAUBE. (1901). *Synopsis der Wirbelthierfauna der Böhmischen Braunkohlenformation und Beschreibung neuer, oder bisher unvollständig bekannter Arten*. Prag., 1901, 80 pp.
GUSTAVE CARL LAUBE (1839-).
- Protothymallus** Laube, 23; orthotype *THAUMATURUS LUSATUS* Laube (fossil).
1883. TRAQUAIR (1901). *Notes on the Lower Carboniferous Fishes of Eastern Fifehire*. Geol. Mag. (2), Dec., IV, VIII, 110-114.
RAMSAY HEATLEY TRAQUAIR.
- Eucentrurus** Traquair, 114; orthotype *E. PARADOXUS* Traquair (fossil).
1884. WELLBURN (1901). *On the Fish Fauna of the Millstone Grits of Great Britain*. Geol. Mag. (2), Dec. IV, 216-222.
EDGAR D. WELLBURN.
- Euctenodopsis** Wellburn, 220; orthotype *E. TENUIS* Wellburn (fossil).
1885. WILLEY (1901). *Dolichorhynchus indicus, a New Acraniate*. Quart. Journ. Micr. Sci. (2), XLIV, 269-271.
ARTHUR WILLEY (1867-).
- Dolichorhynchus** Willey, 269; orthotype *D. INDICUS* Willey.
1886. WOODWARD (1901). *Catalogue of Fossil Fishes in the British Museum Natural Hist.* Part IV, etc., 636 pp.
ARTHUR SMITH WOODWARD.
- Elopides** (Agassiz) Woodward, 23; orthotype *E. COULONI* Ag. (fossil). Printed as name only in *Poissons Fossiles*, V, 1844, 139. A fossil homologue of *ELOPS L.*
- Notelops** Woodward, 27; orthotype *RHACOLEPIS BRAMA* Ag. = *CALAMOPLEURUS CYLINDRICUS* Ag. (fossil). A synonym of *CALAMOPLEURUS* Ag.
- Esocelops** Woodward, 46; orthotype *EURYGNATHUS CAVIFRONS* Ag. (fossil). A substitute for *EURYGNATHUS* Ag., preoccupied.
- Chanoides** Woodward, 63; orthotype *CLUPEA MACROPOMA* Ag. (fossil).
- Brychætus** Woodward, 76; orthotype *B. MUELLERI* Woodw. (fossil). Name only in 1845; validated in 1901.
- Histiothrissa** Woodward, 131; orthotype *SARDINIUS MACRODACTYLUS* Von der Marck (fossil).

- Halecopsis** Woodward, 133; orthotype *OSMEROIDES INSIGNIS* Delvaux & Ortlieb (fossil).
- Apateodus** Woodward, 258; orthotype *PACHYRHIZODUS GLYPHODUS* Blake (fossil).
- Pachylebias** Woodward, 294; orthotype *LEBIAS CRASSICAUDATUS* Ag. (fossil).
- Rhynchorhinus** (Agassiz) Woodward, 342; orthotype *R. BRANCHIALIS* Ag. (fossil). Name printed without explanation in 1844.
- Protaulopsis** Woodward, 371; orthotype *P. BOLCENSIS* Woodward (fossil).
- Dinopteryx** Woodward, 406; orthotype *HOPLOPTERYX SPINOSUS* Davis (fossil).
- Isurichthys** Woodward, 453; logotype *ISURUS MACRURUS* Ag. (fossil). Name a substitute for *ISURUS* Ag., preoccupied.
- Eothygnus** Woodward, 457; orthotype *CŒLOCEPHALUS SALMONEUS* Ag. (fossil). Name a substitute for *CŒLOCEPHALUS* Ag., undefined and preoccupied by Clark, 1860, in *COLEOPTERA*.
- Phalacrus** (Agassiz) Woodward, 458; orthotype *P. CYBIOIDES* Ag. (fossil). Note on type specimen. A synonym of *EOTHYNNUS* Woodward.
- Cariniceps** (Owen) Woodward, 458; orthotype *C. COMPRESSUS* Owen (fossil). Note on type specimen. A synonym of *EOTHYNNUS* Woodw.
- Rhonchus** (Agassiz) Woodward, 458; orthotype *R. CARANGOIDES* Ag. (fossil). Note on type specimen. A synonym of *EOTHYNNUS* Woodw.
- Scombrinus** (Agassiz) Woodward, 461; orthotype *S. NUCHALIS* Ag. (fossil). Validation of a nomen nudum printed in 1845.
- Eooclopoma** Woodward, 470; orthotype *E. COLEI* Woodw. (fossil).
- Scombramphodon** Woodward, 474; orthotype *AMPHODON BENEDENI* Storms (fossil). Replaces *AMPHODON* Storms, 1887, regarded as preoccupied by *AMPHODUS* Peters, 1872.
- Acestrus** (Agassiz) Woodward, 494; orthotype *A. ORNATUS* Woodw. (fossil). Nomen nudum as printed in 1845, validated in 1901; perhaps to be regarded as preoccupied by *ACESTRA* Jardine, 1831.
- Auchenilabrus** (Agassiz) Woodward, 552; orthotype *A. FRONTALIS* Ag. Name only, reprinted from Agassiz, 1845, 308, when it is also nomen nudum.
- Eocottus** Woodward, 580; orthotype *GOBIOUS VERONENSIS* Volta (fossil).

 1902.

1887. BOULENGER (1902). *Report on the Collection of Natural History Made in the Antarctic Regions during the Voyage of the "Southern Cross."* Pisces, London, 174-189.

GEORGE ALBERT BOULENGER.

- Pleuragramma** Boulenger, 187; orthotype *P. ANTARCTICUM* Boulenger. Not *PLEUROGRAMMUS* Gill.

1888. BOULENGER (1902). *Additions à la faune ichthyologique du Bassin du Congo.* Ann. Mus. Cong. Zool., II, 19-57.

GEORGE ALBERT BOULENGER.

- Microthrissa** Boulenger, 26; orthotype *M. ROYAUXI* Boulenger.
- Leptoglanis** Boulenger, 42; orthotype *L. XENOGNATHUS* Boulenger.
- Paraphractura** Boulenger, 47; orthotype *P. TENUICAUDA* Boulenger.
- Trachyglanis** Boulenger, 48; orthotype *T. MINUTUS* Boulenger.
- Belonoglanis** Boulenger, 50; orthotype *B. TENUIS* Boulenger.

1889. BOULENGER (1902). *Descriptions of New Characinid Fish Discovered by Dr. W. J. Ansorge in Southern Nigeria*. Ann. Mag. Nat. Hist. (7), IX, 144-145.

GEORGE ALBERT BOULENGER.

Citharidium Boulenger, 144; orthotype *C. ANSORGII* Boulenger.

1890. BOULENGER (1902). *Description of a New Deep-Sea Gadid Fish from South Africa*. Ann. Mag. Nat. Hist. (7), IX, 335-336.

GEORGE ALBERT BOULENGER.

Tripterophysis Boulenger, 335; orthotype *T. GILCHRISTI* Boulenger.

1891. BOULENGER (1902). *Notes on the Classification of Teleostean Fishes*. Ann. Mag. Nat. Hist. (7), IX, 197-204.

GEORGE ALBERT BOULENGER.

Geophyroberyx Boulenger, 203; orthotype *TRACHICHTHYS DARWINI* Johnston.

1892. BOULENGER (1902). *Description of a New South-African Galeid Selachian*. Ann. Mus. Nat. Hist. (7), X, 52-63.

GEORGE ALBERT BOULENGER.

Scylliogaleus Boulenger, 51; orthotype *S. QUECKETTI* Boulenger.

1893. BOULENGER (1902). *Diagnoses of New Cichlid Fishes Discovered by Mr. J. E. S. Moore in Lake Njassa*. Ann. Mag. Nat. Hist. (7), 69-71.

GEORGE ALBERT BOULENGER.

Hemitilapia Boulenger, 70; orthotype *H. OXYRHYNCHUS* Boulenger.

Cyrtocara Boulenger, 70; orthotype *C. MOORI* Boulenger.

1894. BOULENGER (1902). *On the Genus Ateleopus of Schlegel*. Ann. Mag. Nat. Hist. (7), X, 402-403.

GEORGE ALBERT BOULENGER.

Podateles Boulenger, 403; orthotype *ATELEOPUS JAPONICUS* Blkr. Substitute for *ATELEOPUS* T. & S., regarded as preoccupied by *ATELOPUS* Duméril & Bibron, a genus of reptiles.

1895. BOULENGER (1902). *Contributions to the ichthyology of the Congo*. Proc. Zool. Soc. London, 1902, 234-237.

GEORGE ALBERT BOULENGER.

Allabenchelys Boulenger, 234; orthotype *A. LONGICAUDA* Boulenger.

Chilochromis Boulenger, 236; orthotype *C. DUPONTI* Boulenger.

1896. BRAUER (1902). *Diagnosen von neuen Tiefseefischen welche von der Valdivia-Expedition gesammelt sind*. Zool. Anz., XXV, 277-298.

AUGUST BRAUER.

Dissomma Brauer, 278; orthotype *D. ANALE* Brauer.

Tripliphos Brauer, 282; orthotype *T. ELONGATUS* Brauer.

Macrostomias Brauer, 283; orthotype *M. LONGIBARBATUS* Brauer.

Melanostomias Brauer, 284; orthotype *M. VALDIVIÆ* Brauer.

Bathylynchus Brauer, 289; orthotype *B. CYNÆUS* Brauer.

Macropharynx Brauer, 290; orthotype *M. LONGICAUDATUS* Brauer. Called *MEGALOPHARYNX* by Brauer in 1900.

Cœlophrys Brauer, 291; orthotype *C. BREVICAUDATA* Brauer.

Gigantactis Brauer, 295; orthotype *G. VANHOEFFENI* Brauer.

Aceratias Brauer, 296; logotype *A. MACRORHYNCHUS* Brauer.

Stylophthalmus Brauer, 298; orthotype *S. PARADOXUS* Brauer.

1897. EASTMAN (1902). *On Campyloprion, a New Form of Edestus-like Dentition*. Geol. Mag. (8), IX, 148-152.
CHARLES ROCHESTER EASTMAN.
Campyloprion Eastman, 151; orthotype *C. ANNECTENS* Eastman (fossil). Shark, locality unknown.
1898. FRITSCH & BAYER (1902). *Nové Ryby Ceskeho útvary Krédového. Ceska Ak. Preze*, II, 1-18.
ANTON FRITSCH; EDWIN BAYER.
Schizospondylus Fritsch & Bayer, 8; orthotype *S. DUBIUS* Fritsch & Bayer.
Parelops Fritsch & Bayer, 13; orthotype *P. PARAZAKII* Fritsch & Bayer (fossil).
1899. GILCHRIST (1902). *South African Fishes*. Marine Investigations in South Africa, II, 101-113.
J. D. F. GILCHRIST.
Choridactylodes Gilchrist, 101; orthotype *C. NATALENSIS* Gilchrist.
Melanonosoma Gilchrist, 106; orthotype *M. ACUTICAUDATUM* Gilchrist.
Paralichthodes Gilchrist, 108; orthotype *P. ALGOENSIS* Gilchrist.
1900. GRACIANOV (1902). *Die Ichthyo-fauna des Baikalsees; Dnev. Zool. Otd. Obsc. Liub. Jest. Moska*, III, 18-61. (In Russian.)
VALERIAN GRACIANOV.
Procottus Gracianov (Gratzianow), 41; orthotype *COTTUS JEITTELESI* Dybowski.
1901. GÜNTHER (1902). *Third Notice of New Species of Fishes from Morocco*. Novitat, Zool. (Tring.), IX, 446-448.
ALBERT GÜNTHER.
Pterocapoeta Günther, 446; orthotype *P. MAROCCANA* Gthr.
1902. GÜNTHER (1902). *Last Account of Fishes Collected by Mr. R. B. N. Walker, on the Gold Coast*. Proc. Zool. Soc. London, 1902, II, 330-339.
ALBERT GÜNTHER.
Notoglanidium Günther, 336; orthotype *N. WALKERI* Gthr.
1903. JORDAN & EVERMANN (1902). *Notes on a Collection of Fishes from the Island of Formosa*. Proc. U. S. Nat. Mus., XXV, 315-368. (Sept. 24, 1902.)
DAVID STARR JORDAN; BARTON WARREN EVERMANN.
Zacco Jordan & Evermann, 322; orthotype *LEUCISCUS PLATYPUS* T. & S.
Evenchelys Jordan & Evermann, 327; orthotype *GYMNOTHORAX MACRURUS* Bloch. Same as *THYRSOIDEA* Kaup, as restricted by Bleeker, but by tautonomy Kaup's genus *THYRSOIDEA* must have *MURENA THYRSOIDEA* Rich., as type.
1904. JORDAN & FOWLER (1902). *A Review of the Trigger-Fishes, File-Fishes, and Trunk-Fishes of Japan*. Proc. U. S. Nat. Mus., XXV, 251-286. (Sept. 17, 1902.)
DAVID STARR JORDAN; HENRY WEED FOWLER.
Rudarius Jordan & Fowler, 270; orthotype *R. ERCODES* Jordan & Fowler.
Lactoria Jordan & Fowler, 278; orthotype *OSTRACION CORNUTUS* L.
1905. JORDAN & FOWLER (1902). *A Review of the Cling-Fishes (Gobiesocidae) of the Waters of Japan*. Proc. U. S. Nat. Mus., XXV. (Sept. 19, 1902.)
DAVID STARR JORDAN; HENRY WEED FOWLER.
Aspasma Jordan & Fowler, 414; orthotype *LEPADOGASTER MINIMUS* Döderlein.

1906. JORDAN & FOWLER (1902). *A Review of the Ophidioid Fishes of Japan*. Proc. U. S. Nat. Mus., XXV, 743-786. (Dec. 2, 1902.)
DAVID STARR JORDAN; HENRY WEED FOWLER.
- Heirichthys** Jordan & Fowler, 744; orthotype *H. ENCRYPTES* Jordan & Fowler. A synonym of *CONGROGADUS* Gthr.
1907. JORDAN & SNYDER (1903). *A Review of the Discobolous Fishes of Japan*. Proc. U. S. Nat. Mus., XXIV, 343-51. (Feb. 10, 1902.)
DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
- Crystallias** Jordan & Snyder, 349; orthotype *C. MATSUSHIMÆ* Jordan & Snyder.
1908. JORDAN & SNYDER (1902). *A Review of the Trachinoid Fishes and Their Supposed Allies found in the Waters of Japan*. Proc. U. S. Nat. Mus., XXIV, 461-497. (Mar. 28, 1902.)
DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
- Pteropsaron** Jordan & Snyder, 470; orthotype *P. EVOLANS* Jordan & Snyder.
- Ariscopus** Jordan & Snyder, 479; orthotype *A. IBURIUS* Jordan & Snyder.
- Stalix** Jordan & Snyder, 495; orthotype *S. HISTRIO* Jordan & Snyder.
1909. JORDAN & SNYDER (1902). *A Review of the Labroid Fishes and Related Forms found in the Waters of Japan*. Proc. U. S. Nat. Mus., XXV, 595-662. (May 2, 1902.)
DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
- Verreo** Jordan & Snyder, 619; orthotype *COSSYPHUS OXYCEPHALUS* Blkr.
- Ampheces** Jordan & Snyder, 628; orthotype *ANAMPSES GEOGRAPHICUS* Cuv. & Val.
1910. JORDAN & SNYDER (1902). *Description of Two New Species of Squaloid Sharks from Japan*. Proc. U. S. Nat. Mus., XXV, 79-81. (Sept. 2, 1902.)
DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
- Deania** Jordan & Snyder, 80; orthotype *D. EGLANTINA* Jordan & Snyder, regarded by Garman as a synonym of *ACANTHIDIUM* Lowe, but the logotype of that genus, as first restricted is an *ETMOPTERUS*. Not *DEANEA*, 1875, a genus of PROTOZOA, the name of the fish genus of different origin, being dedicated to Bashford Dean.
1911. JORDAN & SNYDER (1902). *A Review of the Blennioid Fishes of Japan*. Proc. U. S. Nat. Mus., XXV, 441-504. (Sept. 26, 1902.)
DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
- Zacalles** Jordan & Snyder, 448; orthotype *Z. BRYOPE* Jordan & Snyder; name pre-occupied, replaced by *CALLIBLENNIUS* Barbour.
- Azuma** Jordan & Snyder, 463; orthotype *A. EMMNION* Jordan & Snyder.
- Zoarchias** Jordan & Snyder, 480; orthotype *Z. VENEFICUS* Jordan & Snyder.
- Abyois** Jordan & Snyder, 486; orthotype *A. AZUMÆ* Jordan & Snyder.
1912. JORDAN & SNYDER (1902). *On Certain Species of Fishes Confused with *Bryostemma polyactoecephalum**. Proc. Nat. Mus., XXV. (Nov. 5, 1902.)
DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
- Bryolophus** Jordan & Snyder, 618; orthotype *B. LYSIMUS* Jordan & Snyder.
1913. JORDAN & STARKS (1902). *A Review of the Hemibranchiate Fishes of Japan*. Proc. U. S. Nat. Mus., XXVI, 57-73. (Dec. 2, 1902.)
DAVID STARR JORDAN; EDWIN CHAPIN STARKS.
- Æoliscus** Jordan & Starks, 71; orthotype *AMPHISILE STRIGATA* Gthr.

1914. LAMBE (1902). *New Genera and Species from the Belly River Series (Mid-Cretaceous)*. Contr. Canad. Pal., III, 25-81.

LAWRENCE M. LAMBE.

Diphyodus Lambe, 30; orthotype *D. LONGIROSTRIS* Lambe (fossil).

1915. MEEK (1902). *A Contribution to the Ichthyology of Mexico*. Field Mus. Zool., III, 63-128.

SETH EUGENE MEEK.

Zoogoneticus Meek, 91; logotype *Z. DIAZI* Meek.

Chapalichthys Meek, 97; orthotype *CHARACODON ENCAUSTUS* Jordan & Snyder.

Skiffia Meek, 102; orthotype *S. LERMÆ* Meek.

Melaniris Meek, 117; orthotype *M. BALSANUS* Meek. A synonym of *THYRINA* Jordan & Culver.

1916. POPTA (1902). *Notes from the Leyden Museum*.

CANNA M. L. POPTA.

Paracrossochilus Popta, 200; orthotype *P. BICORNIS* Popta = *CROSSOCHILUS VITTATUS* Boulenger.

1917. RIBEIRO (1902). *Oito especies de peixes do Rio Pomba*. Bol. Soc. Nac. Agric., Rio de Janeiro.

ALIPIO DE MIRANDA RIBEIRO.

Platycephalus Ribeiro, 7; type *SCIÆNA UNDECIMALIS* Bloch. A preoccupied name substituted for *CENTROPOMUS* Lac. "in accordance with the laws of priority."

1918. ROHON (1902).^{*} *Beiträge zur Anatomie und Histologie der Psammosteiden*. Sitzber. Böhmisch. Ges., 1901, No. XVI, 1-31.

JOSEF VICTOR ROHON.

Ganosteus Rohon, 36; logotype *G. TUBERCULATUS* Rohon.

1919. SMITH (1902). *The Smallest Known Vertebrate*. Science (2), XV, 30-31.
HUGH McCORMICK SMITH (1865-).

Mistichthys Smith, 30; orthotype *M. LUZONENSIS* Smith.

1920. SMITH (1902). *Description of a New Species of Blenny from Japan*. Bull. U. S. Fish Comm., XXI, 93-94.

HUGH McCORMICK SMITH.

Eulophias Smith, 93; orthotype *E. TANNERI* Smith.

1921. STEINDACHNER (1902). *Ueber zwei neue Fischarten aus dem Rothen Meere*. Anz. Ak. Wiss., XXXIX, 336-338.

FRANZ STEINDACHNER.

Beanea Steindachner, 337; orthotype *B. TRIVITTATA* Steind.

1922. VAILLANT (1902). *Résultats zoologiques de l'expédition scientifique Néerlandaise au Borneo central*. Notes Leyden Mus., XXIV, 1-166.

LÉON VAILLANT.

Pseudolais Vaillant, 51; orthotype *P. TETRANEMA* Vaillant.

Sosia Vaillant, 81; orthotype *S. CHAMÆLEON* Vaillant.

Gyrinochilus Vaillant, 107; orthotype *G. PUSTULOSUS* Vaillant.

Parhomaloptera Vaillant, 129; orthotype *P. OBSCURA* Vaillant.

Ellopostoma Vaillant, 145; orthotype *APERIOPTUS MEGALOMYCTER* Vaillant.

1923. WAITE (1902). *Notes on Fishes from Western Australia*. Rec.-Austral. Mus., IV, 179-194.
EDGAR RAVENSWOOD WAITE (1866-).
- Hypnarce** Waite, 180; orthotype HYPNOS SUBNIGRUM Duméril. Substitute for HYPNOS Duméril, preoccupied.
- Gilbertella** Waite, 182; orthotype SERRANUS ARMATUS Castelnau. A synonym of EPINEPHELIDES Ogilby.
1924. WEBER (1902). *Siboga Expeditie. Introduction et description de l'Expédition*. Leiden, 1902, 159 pp.
MAX (CARL WILHELM) WEBER (1852-).
- Photoblepharon** Weber, 108; orthotype SPARUS PALPEBRATUS Boddaërt.
1925. WELLBURN (1902). *On the Fish Fauna of the Pendleside Limestones*. Proc. Yorkshire Geol. and Polytechnic Soc. New Series, XIV, 465-473.
EDGAR D. WELLBURN.
- Marsdenius** Wellburn, 466; orthotype M. SUMMITI Wellburn (fossil DIPLACANTHID: Carboniferous).
- 1926-1927. WOODWARD (1902). *The Fossil Fishes of the English Chalk*. I. Palæontogr. Soc., 1902, 1-56.
ARTHUR SMITH WOODWARD.
- Trachichthyoides** Woodward, 29; orthotype T. ORNATUS Woodw. (fossil).
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- 1903.
1928. BERG (1903). *On the Taxonomy of the Cottidæ from Lake Baikal* (Russian text). Ann. Mus. Zool. St. Petersb., VIII, 99-114.
LEW SEMENOWITCH BERG.
- Baicalocottus** Berg, 100; orthotype COTTUS GREWINGKI Dybowski. A synonym of COTTOCOMEPHORUS Pellégrin.
- Batrachocottus** Berg, 109; orthotype COTTUS BAIKALENSIS Dybowski.
1929. BOULENGER (1903). *On the Fishes Collected by Mr. G. L. Bates in Southern Cameroon*. Proc. Zool. Soc. London, 1903, I, 21-29.
GEORGE ALBERT BOULENGER.
- Microsynodontis** Boulenger, 26; orthotype M. BATESII Boulenger.
1930. BOULENGER (1903). *Descriptions of Two New Deep-Sea Fishes from South Africa*. Rept. Govt. Biologist Cape of Good Hope, 66-68.
GEORGE ALBERT BOULENGER.
- Tripterophycis** Boulenger, 66; orthotype T. GILCHRISTI Boulenger.
1931. EIGENMANN (1903). *The Fresh-Water Fishes of Western Cuba*. Bull. U. S. Fish Comm. for 1902, 211+236 (1903).
CARL H. EIGENMANN.
- Toxus** Eigenmann, 226; orthotype T. RIDDLEI Eigenmann.
1932. EIGENMANN (1903). *New Genera of South American Fresh-Water Fishes and New Names for Old Genera*. Smithson. Collec. XLV, 114-148. (Dec. 19, 1903.)
CARL H. EIGENMANN.

- Lahiliella** Eigenmann, 144; orthotype ANASTOMUS NASUTUS Kner.
Anisistia Eigenmann, 144; orthotype ANODUS NOTATUS Schomburgk.
Holoshesthes Eigenmann, 144; orthotype CHIRODON PEQUIRA Steind. Later corrected to HOLESTHES, but the first spelling should apparently hold.
Moenkhausia Eigenmann, 145; orthotype TETRAGONOPTERUS XINGUENSIS Steind.
Markiana Eigenmann, 145; orthotype TETRAGONOPTERUS NIGRIPINNIS Perugia.
Othonophanes Eigenmann, 145; orthotype BRYCON LABIATUS Eigenmann. Misprinted ORTHOPHANES in the Zoological Record; also misprinted as ORTHONOPHANES.
Holopriion Eigenmann, 145; orthotype CHIRODON AGASSIZI Steind. A synonym of APHYOCHARAX Gthr.
Holopristis Eigenmann, 145; orthotype TETRAGONOPTERUS OCELLIFER Steind.
Stichonodon Eigenmann, 145; orthotype LUETKENIA INSIGNIS Steind. Substitute for LUETKENIA Steind., preoccupied.
Bryconodon Eigenmann, 146; orthotype BRYCON ORTHOTÆNIA Gthr.
Acestrorhynchus Eigenmann, 146; orthotype SALMO FALCATUS Bloch. A substitute for XIPHORHYNCHUS Ag. and XIPHORHAMPHUS M. & T., both names preoccupied.
Acestrorhamphus Eigenmann, 146; orthotype HYDROCYON HEPSETUS Cuv.
Acestrocephalus Eigenmann, 146; orthotype XIPHORHAMPHUS ANOMALUS Steind.
Evermannella Eigenmann, 146; orthotype CYNOPOTAMUS BISERIALIS Garman. Name preoccupied; replaced by EUCYNOPOTAMUS Fowler, 1904.
Gilbertella Eigenmann, 147; orthotype ANACYRTUS ALATUS Steind., preoccupied by Waite, 1902; replaced by GILBERTOLUS Eigenmann & Ogle.
Myleocollops Eigenmann, 147; orthotype METYNNIS GOELDI Eigenmann.
Acnodon Eigenmann, 147; orthotype MYLEUS OLIGACANTHUS M. & T.
Boulengerella Eigenmann, 147; orthotype XIPHOSTOMA LATERISTRIGA Boulenger.
Mylossoma Eigenmann, 148; orthotype MYLETES ALBISCOPUS Cope.
Colossoma Eigenmann, 148; orthotype MYLETES OCLUS Cope.
Orthomyleus Eigenmann, 148; orthotype MYLETES ELLIPTICUS Gthr.
Piactus Eigenmann, 148; orthotype MYLETES BRACHYPOMUS Cuv.

1933. EIGENMANN & KENNEDY (1903). *On a Collection of Fishes from Paraguay, with a Synopsis of the American Genera of Cichlids*. Proc. Acad. Nat. Sci. Phila., 1903, 497-537. (Sept. 4, 1903.)

CARL H. EIGENMANN; CLARENCE HAMILTON KENNEDY.

- Biotæcus** Eigenmann & Kennedy, 533; orthotype SARACA OPERCULARIS Steind. A substitute for SARACA Steind., said to be preoccupied.
Biotodoma Eigenmann & Kennedy, 533; orthotype B. TRIFASCIATUS Eigenmann & Kennedy.

1934. FOWLER (1903). *Descriptions of Several Fishes from Zanzibar Island, Two of Which Are New*. Proc. Acad. Sci. Phila., LV, 161-176. (June 4, 1903.)

HENRY WEED FOWLER.

- Graviceps** Fowler, 170; orthotype PETROSCIRTES ELEGANS Steind.

1935. FOWLER (1903). *New and Little Known Mugilidæ and Sphyranidæ*. Proc. Acad. Nat. Sci. Phila., 1903, 743-752. (Dec. 16, 1903.)

HENRY WEED FOWLER.

- Cedalechilus** Fowler, 748; orthotype AGONOSTOMA MONTICOLA (Griffith).
Agriosphyraena Fowler, 749; orthotype SPHYRÆNA BARRACUDA Walbaum.

Type Mugilidae - Cuvier error the

1936. FOWLER (1903). *Descriptions of New, Little Known, and Typical Atherinidae*. Proc. Acad. Nat. Sci. Phila., 1903, 727-742. (Dec. 16, 1903.)

HENRY WEED FOWLER.

Atherinomorus Fowler, 730; orthotype *ATHERINA LATICEPS* Poey. A synonym of *HEPSETIA* Bon.

Ischnomembras Fowler, 730; orthotype *I. GABUNENSIS* Fowler. A synonym of *MENIDIA* Bon.

Phoxargyrea Fowler, 732; orthotype *P. DAYI* Fowler. Apparently a synonym of *MENIDIA* Bon.

1937. GILL (1903). *Note on the Fish Genera Named Macrodon*. Proc. U. S. Mus., XXVI, 1015-1016

THEODORE NICHOLAS GILL.

Hoplías Gill, 1016; orthotype *MACRODON TAREIRA* Müller. A substitute for *MACRODON* Müller, preoccupied.

1938. GILCHRIST (1903). *Descriptions of New South African Fishes*. Marine Invest. S. Africa, II, 203-211.

J. D. F. GILCHRIST.

Cyttosoma Gilchrist, 113; orthotype *C. BOOPS* Gilchrist.

Trachichthodes Gilchrist, 203; orthotype *BERYX AFFINIS* Gthr. Replaces *AUSTROBERYX* McCulloch.

Læmonemodus Gilchrist, 208; orthotype *L. COMPRESSICAUDA* Gilchrist.

Selachophidium Gilchrist, 209; orthotype *S. GUENTHERI* Gilchrist.

1939. HAY (1903). *On a Collection of Upper Cretaceous Fishes from the Mount Lebanon, Syria, with Descriptions of Four New Genera and Nineteen New Species*. Bull. Amer. Mus., XIX, 395-452.

OLIVER PERRY HAY.

Stenopropoma Hay, 407; orthotype *S. HAMATA* Hay (fossil) (*BELONORHYNCHIDÆ*).

Eubiodectes Hay, 415; orthotype *CHIROCENTRITES LIBANICUS* Pictet & Humbert (fossil).

Anguillavus Hay, 436; orthotype *A. QUADRIPINNIS* Hay (fossil eel).

Enchelion Hay, 441; orthotype *E. MONTIUM* Hay (fossil).

1940. HELLER & SNODGRASS (1903). *Papers from the Hopkins-Stanford Galapagos Expedition, 1898-1899. XV. New Fishes*. Proc. Washington Acad., V, 189-229.

EDMUND HELLER (1875-); ROBERT EVANS SNODGRASS (1875-).

Evolantia Heller & Snodgrass, 189; orthotype *EXOCETUS MICROPTERUS* Cuv. & Val.

Galeagra Heller & Snodgrass, 193; orthotype *G. PAMMELAS* Heller & Snodgrass.

Nexilosus Heller & Snodgrass, 204; orthotype *N. ALBEMARLEUS* Heller & Snodgrass.

Petrotyx Heller & Snodgrass, 222; orthotype *P. HOPKINSI* Heller & Snodgrass.

Eutyx Heller & Snodgrass, 224; orthotype *E. DIAGRAMMUS* Heller & Snodgrass.

Allector Heller & Snodgrass, 228; orthotype *A. CHELONIÆ* Heller & Snodgrass.

1941. JAEKEL (1903). *Ueber die Epiphyse und Hypophyse*. SB. Ges. Naturf. Berlin, 1903, 27-58.

OTTO JAEKEL.

Pachyosteus Jaekel, 39; orthotype *P. BULLA* Jaekel (fossil).

1942. JAEKEL (1903). *Ueber Ramphodus . . . einen neuen devonischen Holocephalen von Wildungen*. Sitzb. Ges. Naturf. Freunde. Berlin, 383-393.

OTTO JAEKEL.

- Ramphodus** Jaekel, 383; orthotype Name preoccupied as **RHAMPHODUS**. A synonym of **RHYNCHODUS**.
1943. JENKINS (1903). *Report on the Collection of Fishes Made in the Hawaiian Islands, with Descriptions of New Species*. Bull. U. S. Fish Comm., XXII, for 1902, 415-516. (Sept. 23, 1903.)
OLIVER PEEBLES JENKINS.
- Cirrhitoides** Jenkins, 489; orthotype **C. BIMACULA** Jenkins.
- Chlamydes** Jenkins, 503; orthotype **C. LATICEPS** Jenkins.
- Eviota** Jenkins, 542; orthotype **E. EPIPHANES** Jenkins.
1944. JORDAN (1903). *Supplementary Note on Bleekeria mitsukurii and on Certain Japanese Fishes*. Proc. U. S. Nat. Mus., XXVI, 693-696. (Apr. 9, 1903.)
DAVID STARR JORDAN.
- Embolichthys** Jordan, 693; orthotype **BLEEKERIA MITSUKURII** J. & E.
- Zen** Jordan, 694; orthotype **CYTTOPSIS ITEA** Jordan & Fowler.
- Chasmichthys** Jordan, 696; orthotype **CHASMIAS MISAKIUS** Jordan & Snyder. Substitute for **SACCOSTOMA** Sauvage and for **CHASMIAS** Jordan & Snyder, both names preoccupied.
1945. JORDAN (1903). *Generic Names of Fishes* (correspondence). Amer. Nat., XXXVII, 360.
DAVID STARR JORDAN.
- Falcularius** Jordan & Snyder, 360; orthotype **FALCULA CHAPALE** Jordan & Snyder. Name a substitute for **FALCULA** Jordan & Snyder, preoccupied.
- Xeneretmus** (Gilbert) Jordan, 360; orthotype **XENOCHIRUS TRIACANTHUS** Gilbert. Name a substitute for **XENOCHIRUS** Gilbert, preoccupied.
1946. JORDAN & EVERMANN (1903). *Descriptions of New Genera and Species of Fishes from the Hawaiian Islands*. Bull. U. S. Fish Comm. for 1902, XXII, 161-208. (Apr. 11, 1903.)
DAVID STARR JORDAN; BARTON WARREN EVERMANN.
- Fowleria** Jordan & Evermann, 180; orthotype **APOGON AURITUS** Blkr.
- Bowersia** Jordan & Evermann, 182; orthotype **B. VIOLESCENS** J. & E.
- Verriculus** Jordan & Evermann, 191; orthotype **V. SANGUINEUS** J. & E.
- Quisquilius** Jordan & Evermann, 203; orthotype **Q. EUGENIUS** J. & E.
- Vitraria** Jordan & Evermann, 205; orthotype **V. CLARESCENS** J. & E.
- Osurus** Jordan & Evermann, 206; orthotype **PARAPERCIUS SCHAUINSLANDI** Steind.
1947. JORDAN & EVERMANN (1903). *Description of a New Genus and Two New Species of Fishes from the Hawaiian Islands*. Bull. U. S. Fish Comm., XXII, for 1902, 209-210. (April 11, 1903.)
DAVID STARR JORDAN; BARTON WARREN EVERMANN.
- Iracundus** Jordan & Evermann, 209; orthotype **I. SIGNIFER** J. & E.
1948. JORDAN & FOWLER (1903). *A Review of the Elasmobranchiate Fishes of Japan*. Proc. U. S. Nat. Mus., XXVI, 593-674. (March 30, 1903.)
DAVID STARR JORDAN; HENRY WEED FOWLER.
- Zameus** Jordan & Fowler, 632; orthotype **CENTROPHORUS SQUAMULOSUS** Gthr. A synonym of **SCYMNODON** Bocage & Capello.
1949. JORDAN & FOWLER (1903). *A Review of the Cobitidæ, or Loaches, of the Rivers of Japan*. Proc. U. S. Nat. Mus., XXVI, 765-774. (April 3, 1903.)
DAVID STARR JORDAN; HENRY WEED FOWLER.

- Elxis** Jordan & Fowler, 768; orthotype *E. NIKKONIS* Jordan & Fowler. A synonym of *LEFUA* Herzenstein.
- Orthrias** Jordan & Fowler, 769; orthotype *O. OREAS* Jordan & Fowler. A synonym of *OREIAS* Sauvage and probably also of *BARBATULA* Linck.
1950. JORDAN & FOWLER (1903). *A Review of the Dragonets (Callionymidae) and Related Fishes of the Waters of Japan*. Proc. U. S. Nat. Mus., XXV, 939-959. (May 3, 1903.)
DAVID STARR JORDAN; HENRY WEED FOWLER.
- Draconetta** Jordan & Fowler, 939; orthotype *D. XENICA* Jordan & Fowler.
- Calliurichthys** Jordan & Fowler, 941; orthotype *CALLIONYMUS JAPONICUS* Houuttuyn.
1951. JORDAN & FOWLER (1903). *A Review of the Cyprinoid Fishes of Japan*. Proc. U. S. Nat. Mus., XXVI, 811-862. (July 6, 1903.)
DAVID STARR JORDAN; HENRY WEED FOWLER.
- Abbottina** Jordan & Fowler, 835; orthotype *A. PSEGMA* Jordan & Fowler.
- Zezera** Jordan & Fowler, 837; orthotype *SARCOCHILICHTHYS HILGENDORFI* Ishikawa.
- Biwia** Jordan & Fowler, 838; orthotype *PSEUDOGOPIO ZEZERA* Ishikawa.
1952. JORDAN & FOWLER (1903). *A Review of the Siluroid Fishes, or Catfishes of Japan*. Proc. U. S. Nat. Mus., XXVI, 897-911. (July 7, 1903.)
DAVID STARR JORDAN; HENRY WEED FOWLER.
- Fluvidraco** Jordan & Fowler, 904; orthotype *PSEUDOBAGRUS RANSONNETI* Steind.
1953. LAHILLE (1903). *Nota sobre un genera nuevo de Escombrido*. An. Mus. Buenos Aires (3), II, 1903, 375-376.
FERNANDO LAHILLE.
- Chenogaster** Lahille, 375; orthotype *C. HOLMBERGI* Lahille.
1954. REGAN (1903). *On a Collection of Fishes Made by Dr. Goeldi at Rio Janeiro*. Proc. Zool. Soc. London, 1903, 59-68.
CHARLES TATE REGAN.
- Mylacrodon** Regan, 62; orthotype *M. GOELDII* Regan.
1955. REGAN (1903). *A Revision of the Fishes of the Family Lophiidae*. Ann. Mag. Nat. Hist., XI.
CHARLES TATE REGAN.
- Chirolophius** Regan, 279; orthotype *LOPHIUS NARESI* Gthr. A synonym of *LOPHIODES* G. & B. (1895).
1956. REGAN (1903). *On the Systematic Position and Classification of the Gadoid or Anacanthine Fishes*. Ann. Mag. Nat. Hist. (7), XI, 459-466.
CHARLES TATE REGAN.
- Gadomus** Regan, 459; orthotype *BATHYGADUS LONGIFILIS* G. & B.
- Melanobranchus** Regan, 459; orthotype *BATHYGADUS MELANOBANCHUS* Vaillant.
1957. REGAN (1903). *On the Genus Lichia of Cuvier*. Ann. Mag. Nat. Hist. (7), XII, 348-350.
CHARLES TATE REGAN.
- Campogramma** Regan, 350; orthotype *LICHIA VADIGO* Risso. A synonym of *HYPACANTHUS* Raf.
1958. REGAN (1903). *On a Collection of Fishes from the Azores*. Ann. Mag. Nat. Hist., XII.
CHARLES TATE REGAN.
- Macristium** Regan, 345; orthotype *M. CHAVESI* Regan.

1959. REGAN (1903). *Descriptions de poissons nouveaux* . . . *Musée d'histoire Naturelle de Genève*. Revue Suisse Zool. Genève.
CHARLES TATE REGAN.
Bedotia Regan, 416; orthotype *B. MADAGASCARIENSIS* Regan.
1960. RIBEIRO (1903). *Pescados do "Annie."* Bol. Soc. Nat. Agric. Rio de Janeiro.
ALÍPIO DE MIRANDA RIBEIRO.
Pseudopercis Ribeiro, 4; orthotype *P. NUMIDA* Ribeiro.
1961. SAUVAGE (1903). *Noticia sobre los Peces de la Caliza litografica de la Provincia de Lerida (Cataluña)*. Mem. Ac. Barcel. (3), IV, No. 35, 1-32.
HENRI EMILE SAUVAGE.
Vidalia Sauvage, 15; orthotype *V. CATALUNICA* Sauvage (fossil).
1962. SCHMIDT (1903). *Faune de la Mer Ochotsk et du Japon*.
PETR YULIEVICH SCHMIDT.
Cynopsetta Schmidt, 19; orthotype *C. DUBIA* Schmidt, name only; defined by Jordan & Starks, 1906.
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FRANZ STEINDACHNER.
Gymnocharacinus Steindachner, 20; orthotype *G. BERGII* Steind.
1964. TRAQUAIR (1903). *The Lower Devonian Fishes of Gemünden*. Trans. Roy. Soc. Edinb., XL, 723-739.
RAMSAY HEATLEY TRAQUAIR.
Gemundina Traquair, 734; orthotype *G. STURTZI* Traquair (fossil).
Hunsruckia Traquair, 736; orthotype *H. PROBLEMATICA* Traquair (fossil).
1965. VOLZ (1903). *Fische von Sumatra*. Zool. Anz., XXVI, 553-559.
WALTER VOLZ.
Trypauchenopsis Volz, 555; orthotype *T. INTERMEDIUS* Volz.
1966. WAITE (1903). *New Records of Recurrences of Rare Fishes from Eastern Australia*. Rec. Austr. Mus., V, 56-61.
EDGAR RAVENSWOOD WAITE.
Prosoplismus Waite, 59; orthotype *HISTIOPTERUS RECURVIROSTRIS* Rich. A synonym of *PENTACEROPSIS* Steindachner & Döderlein, noted by Waite, Ann. Mag. Nat. Hist., XII, 288.

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1967. BOULENGER (1904). *Description of New West African Fresh-Water Fishes*. Ann. Mag. Nat. Hist. (7), XIV, 16-20.
GEORGE ALBERT BOULENGER.
Procatopus Boulenger, 20; orthotype *P. NOTOLENIA* Boulenger.
1968. DEAN (1904). *Notes on Japanese Myxinoïds. A New Genus Paramyxine and a New Species Homea okinoseana*. Journ. Coll. Sci. Tokyo, XIX, No. 2, 1-23.
BASHFORD DEAN (1867-).
Paramyxine Dean, 14; orthotype *P. ATAMI* Dean.

1969. DOLLO (1904). *Résultats du voyage du S. Y. Belgica. Expédition Ant-arctique Belge.* Anvers.

LOUIS DOLLO.

- Copeichthys** Dollo, 159; orthotype *DIPLOMYSTUS DENTATUS* Cope (fossil). Substitute for *DIPLOMYSTUS* Cope (1877), regarded as preoccupied by *DIPLOMYSTES* Gthr. (1864).

1970. EASTMAN (1904). *Description of Bolca Fishes.* Bull. Mus. Comp. Zool. Harvard, XLVI, 1-36.

CHARLES ROCHESTER EASTMAN.

- Histionotopterus** Eastman, 32; orthotype *HISTIOCEPHALUS BASSANI* Zigno (fossil, Monte Bolca). A substitute for *HISTIOCEPHALUS* Zigno, preoccupied in worms.

1971. FOWLER (1904). *Description of a New Lantern Fish.* Proc. Acad. Nat. Sci. Phila. for 1903, 754-755. (Jan. 15, 1904.)

HENRY WEED FOWLER.

- Centrobranchus** Fowler, 754; orthotype *C. CHÆROCEPHALUS* Fowler.

1972. FOWLER (1904). *Note on the Characinidæ.* Proc. Ac. Nat. Sci. Phila., LIII. (Jan., 1904.)

HENRY WEED FOWLER.

- Eucynopotamus** Fowler, 119; orthotype *CYNOPOTAMUS BISERIALIS* Garman. A substitute for *EVERMANNELLA* Eigenmann, preoccupied by *EVERMANNELLA* Fowler, 1901.

1973. FOWLER (1904). *New, Little Known, and Typical Berycoid Fishes.* Proc. Acad. Nat. Sci. Phila., LV, 222-238. (Apr. 7, 1904.)

HENRY WEED FOWLER.

- Sargocentron** Fowler, 235; orthotype *HOLOCENTRUM* LEO Cuv.

1974. FOWLER (1904). *Notes on Fishes from Arkansas, Indian Territory, and Texas.* Proc. Acad. Nat. Sci. Phila., LV, 242-249.

HENRY WEED FOWLER.

- Paranotropis** Fowler, 245; orthotype *PHOTOGENIS SCABRICEPS* Cope. A substitute for *EPISEMA* Cope & Jordan, preoccupied.

1975. FOWLER (1904). *A Collection of Fishes from Sumatra.* Journ. Ac. Nat. Sci. Phila.

HENRY WEED FOWLER.

- Rastrum** Fowler, 509; orthotype *ALEPES SCITULA* Fowler.

- Boulengerina** Fowler, 512; orthotype *DULES TÆNIURUS* Cuv. & Val. Name preoccupied in snakes, Dollo, 1886; replaced by *SAFOLE* Jordan, 1912.

- Equulites** Fowler, 513; orthotype *LEIOGNATHUS VERMICULATUS* Fowler.

- Eubleekeria** Fowler, 516; orthotype *EQUULA SPLENDENS* Cuv.

- Deveximentum** Fowler, 517; orthotype *ZEUS INSIDIATOR* Bloch. A synonym of *SECUTOR* Gistel.

- Æthaloperca** Fowler, 522; orthotype *PERCA ROGAA* Forskål.

- Bennettia** Fowler, 524; orthotype *ANTHIAS JOHNI* Bloch.

- Parkia** Fowler, 525; orthotype *LUTJANUS FURVICAUDATUS* Fowler.

- Anemura** Fowler, 527; orthotype *DENTEX NOTATUS* Day.

- Odontoglyphis** Fowler, 527; orthotype *DENTEX TOLU* Fowler.

- Euthyopteroma** Fowler, 527; orthotype *DENTEX BLOCHI* Blkr. (= *SPARUS JAPONICUS* Bloch).

- Eutherapon** Fowler, 527; orthotype *THERAPON THERAPS* Cuv.
Euelaticthys Fowler, 527; orthotype *DIAGRAMMA AFFINE* Gthr.
Spiloticthys Fowler, 528; orthotype *HOLOCENTRUS RADJABAU* Lac.
Lethrinella Fowler, 529; orthotype *SPARUS MINIATUS* Fowler.
Pertica Fowler, 530; orthotype *GERRES FILAMENTOSUS* Cuv. & Val. A synonym of *GERRES* Cuv. (*XYSTÆMA* J. & E.), as restricted.
Actinicola Fowler, 533; orthotype *LUTJANUS PERCULA* Lac.
Octocynodon Fowler, 535; orthotype *JULIUS MINIATUS* Cuv. & Val.
Grammoplites Fowler, 550; orthotype *COTTUS SCABER* L.
1976. GILBERT & STARKS (1904). *The Fishes of Panama Bay*. Mem. Calif. Ac., IV, 1-304.
 CHARLES HENRY GILBERT; EDWIN CHAPIN STARKS.
Guentheridia Gilbert & Starks, 158; orthotype *TETRAODON FORMOSUS* Gthr.
1977. GILCHRIST (1904). *Descriptions of New South African Fishes*. Mar. Invest. S. Africa, III, 1-16.
 J. D. F. GILCHRIST.
Cyttosoma Gilchrist, 6; orthotype *C. BOOPS* Gilchrist.
1978. GILL (1904). *Extinct Pediculate and Other Fishes*. Science (2), XX, 845-846.
 THEODORE NICHOLAS GILL,
Bradyurus Gill, 846; orthotype *SYMPHODUS SZAJNOCHÆ* Zigno (fossil).
1979. HILGENDORF (1904). *Ein neuer Scyllium artiger Haifisch. Proscyllium habereri, . . . von Formosa*. Sitzber. Ges. Naturf. Berlin, 1904, 39-41.
 FRANZ MARTIN HILGENDORF.
Proscyllium Hilgendorf, 39; orthotype *P. HABERERI* Hilgendorf.
1980. JORDAN (1904). *Notes on Fishes Collected in the Tortugas Archipelago*. Bull. U. S. Fish. Comm., XXII, 539-544.
 DAVID STARR JORDAN.
Elacatinus Jordan, 542; orthotype *E. OCEANOPS* Jordan.
Acteis Jordan, 543; orthotype *MALOCOCTENUS MOOREI* Evermann & Marsh.
Ericteis Jordan, 543; orthotype *E. KALISHERÆ* Jordan.
1981. JORDAN & SNYDER (1904). *Notes on the Collection of Fishes from Oahu Island and Laysan Island, Hawaii, with Descriptions of Four New Species*. Proc. U. S. Nat. Mus., XXVII, 939-948. (June 2, 1904.)
 DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
Ariomma Jordan & Snyder, 942; orthotype *A. LURIDA* Jordan & Snyder.
1982. JORDAN & SNYDER (1904). *On a Collection of Fishes Made by Mr. Alan Owston in the Deep Waters of Japan*. Smithsonian Collect., I, 230-240.
 DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
Trismegistus Jordan & Snyder, 238; orthotype *T. OWSTONI* Jordan & Snyder. A giant *LIPARIS*.
1983. JORDAN & STARKS (1904). *List of Fishes Dredged by the Steamer "Albatross" off the Coast of Japan in the Summer of 1900, with Descriptions of New Species and a Review of the Japanese Macrouridæ* (by Jordan & Gilbert). Bull. U. S. Fish Comm., XXII, 577-630.
 DAVID STARR JORDAN; EDWIN CHAPIN STARKS.

- Osopsaron** Jordan & Starks, 600; orthotype *PTEROPSARON VERECUNDUM* Jordan & Snyder.
- Regania** Jordan & Gilbert, 604; orthotype *R. NIPPONICA* J. & G.
- Nezumia** Jordan & Gilbert, 620; orthotype *N. CONDYLURA* J. & G.
- Cleisthenes** Jordan & Starks, 622; orthotype *C. PINETORUM* Jordan & Starks.
- Alæops** Jordan & Starks, 623; orthotype *A. PLINTHUS* Jordan & Starks.
- Dexistes** Jordan & Starks, 624; orthotype *D. RIKUZENIUS* Jordan & Starks.
- Araias** Jordan & Starks, 624; orthotype *A. ARIOMMUS* Jordan & Starks, the young of *DEXISTES RIKUZENIUS* Jordan & Starks. A synonym of *DEXISTES* Jordan & Starks.
- Veræqua** Jordan & Starks, 625; orthotype *V. ACHNE* Jordan & Starks.
1984. JORDAN & STARKS (1904). *A Review of the Scorpenoid Fishes of Japan*. Proc. U. S. Nat. Mus., XXVII, 91-175. (Jan. 22, 1904.)
DAVID STARR JORDAN; EDWIN CHAPIN STARKS.
- Thysanichthys** Jordan & Starks, 122; orthotype *T. CROSSOTUS* Jordan & Starks.
- Sebastiscus** Jordan & Starks, 124; orthotype *SEBASTES MARMORATUS* Cuv. & Val.
- Lythrichthys** Jordan & Starks, 140; orthotype *L. EULABES* Jordan & Starks.
- Ebosia** Jordan & Starks, 145; orthotype *PTEROIS BLEEKERI* Steind.
- Decterias** Jordan & Starks, 154; orthotype *MINOUS PUSILLUS* T. & S.
- Erosa** (Swainson) Jordan & Starks, 156; orthotype *SYNANCEIA EROSA* (Langsdorf) Cuv. & Val.
- Inimicus** Jordan & Starks, 158; orthotype *PELOR JAPONICUM* Cuv. & Val. A substitute for *PELOR* Cuv., preoccupied.
- Ocosia** Jordan & Starks, 162; orthotype *O. VESPA* Jordan & Starks.
- ErispheX** Jordan & Starks, 170; orthotype *COCOTROPUS POTTII* Steind.
1985. JORDAN & STARKS (1904). *A Review of the Cottidae or Sculpins of the Waters of Japan*. Proc. U. S. Nat. Mus., XXVII, 231-335. (Jan. 28, 1904.)
DAVID STARR JORDAN; EDWIN CHAPIN STARKS.
- Stlengis** Jordan & Starks, 236; orthotype *S. OSENSIS* Jordan & Starks.
- Schmidtia** Jordan & Starks, 237; orthotype *S. MISAKIA* Jordan & Starks. Name preoccupied and changed to *SCHMIDTINA*, p. 961.
- Daruma** Jordan & Starks, 241; orthotype *D. SAGAMIA* Jordan & Starks.
- Ricuzenius** Jordan & Starks, 242; orthotype *R. PINETORUM* Jordan & Starks.
- Rheopresbe** Jordan & Starks, 270; orthotype *R. FUJIYAMÆ* Jordan & Starks.
- Ainocottus** Jordan & Starks, 283; orthotype *A. ENSIGER* Jordan & Starks.
- Crossias** Jordan & Starks, 296; orthotype *C. ALLISI* Jordan & Starks.
- Cottiusculus** (Schmidt) Jordan & Starks, 298; orthotype *C. GONEZ* Schmidt.
- Elaphichthys** Jordan & Starks, 301; orthotype *CENTRIDERMICHTHYS ELONGATUS* Steind.
- Alcichthys** Jordan & Starks, 301; orthotype *CENTRIDERMICHTHYS ALCICORNIS* Herzenstein.
- Furcina** Jordan & Starks, 303; orthotype *F. ISHIKAWÆ* Jordan & Starks.
- Ocynectes** Jordan & Starks, 306; orthotype *O. MASCHALIS* Jordan & Starks.
- Bero** Jordan & Starks, 317; orthotype *CENTRIDERMICHTHYS ELEGANS* Steind.
- Vellitor** Jordan & Starks, 318; orthotype *PODABRUS CENTROPOMUS* Rich. Substitute for *PODABRUS* Rich., preoccupied.
1986. JORDAN & STARKS (1904). *Schmidtina, a New Genus of Japanese Sculpins*. Proc. U. S. Nat. Mus. (June 27, 1904).
DAVID STARR JORDAN; EDWIN CHAPIN STARKS.

- Schmidtna** Jordan & Starks, 961; orthotype *SCHMIDTIA MISAKIA* Jordan & Starks.
Substitute for *SCHMIDTIA* Jordan & Starks, preoccupied.
1987. MEEK (1904). *The Fresh-Water Fishes of Mexico North of the Isthmus of Tehuantepec*. Field Mus. Zool., V, 1-252.
SETH EUGENE MEEK (1858-1912).
- Cynodonichthys** Meek, 101; orthotype *C. TENUIS* Meek.
- Paragambusia** Meek, 133; orthotype *GAMBUSIA NICARAGUENSIS* Gthr.
- Thorichthys** Meek, 222; orthotype *T. ELLIOTI* Meek.
1988. NIKOLSKII (1904). *Neue Fischarten aus Ostasien*. Ann. Mus. Zool. Acad. St. Petersburg, VIII.
ALEKSANDR MIKHAILOVICH NIKOLSKII.
- Ussuria** Nikolskii, 362; orthotype *U. LEPTOCEPHALA* Nikolskii. Apparently a synonym of *MISGURNUS* Lac.
1989. OGILBY (1904). *Studies in the Ichthyology of Queensland*. Proc. Roy. Soc. Queensland, XVIII, 27-30.
JAMES DOUGLAS OGILBY.
- Daia** Ogilby, 9; orthotype *CENTROPOGON INDICUS* Day. Perhaps a synonym of *HYPODYTES* Gistel (*PARACENTROPOGON* Blkr.).
- Notesthes** Ogilby, 17; orthotype *CENTROPOGON ROBUSTUS* Gthr.
- Liocranium** Ogilby, 23; orthotype *L. PRÆPOSITUM* Ogilby.
1990. PELLÉGRIN (1904). *Contribution à l'étude anatomique, biologique et taxonomique des Poissons de la famille des Cichlidés*. Mem. Soc. Zool. France, XVI, 41-402.
JACQUES PELLÉGRIN.
- Astatheros** Pellégrin, 203; orthotype *HEROS HETERODONTUS* Vaillant & Pellégrin.
- Astatoreochromis** Pellégrin, 384; orthotype *A. ALLUAUDI* Pellégrin.
- Nanochromis** Pellégrin, 273; orthotype *PSEUDOPLESIOPS NUDICEPS* Boulenger, Substitute for *PSEUDOPLESIOPS* Boulenger, preoccupied.
- Lepidolamprologus** Pellégrin, 295; orthotype *LAMPROLOGUS ELONGATUS* Boulenger.
- Astatotilapia** Pellégrin, 299; orthotype *TILAPIA DESFONTAINESI* Lac.
- Boulengerochromis** Pellégrin, 304; orthotype *TILAPIA MICROLEPIS* Boulenger.
- Ophthalmotilapia** Pellégrin, 345; orthotype *TILAPIA BOOPS* Boulenger.
1991. POPTA (1904). *Descriptions préliminaires des nouvelles espèces de Poissons recueillies au Borneo central par M. le Dr. A. W. Nieuwenhuis en 1898 et en 1900*. Notes Leyden Mus., XXIV, 179-202.
CANNA M. L. POPTA.
- Neopangasius** Popta, 180; orthotype *N. NIEUWENHUISII* Popta.
- Paracrossocheilus** Popta, 200; orthotype *P. BICORNIS* Popta.
1992. REGAN (1904). *A Monograph of the Fishes of the Family Loricariidae*. Trans. Zool. Soc. London, XVII, 191-350.
CHARLES TATE REGAN.
- Xenocara** Regan, 251; orthotype *CHÆTOSTOMUS LATIFRONS* Gthr.
1993. ROMANOVSKII (1904). *Notiz ueber den fossilen Fisch, Lyrolepis caucasicus*. Rom. Verh. Russ. Miner. Ges. St. Petersb.
GHENNADI DANILOVICH ROMANOVSKII.
- Lyrolepis** Romanovskii, 1; orthotype *L. CAUCASICUS* Romanovskii (fossil).

1994. RUTTER (1904). *Notes on Fishes of Gulf of California, with Description of a New Genus and Species*. Proc. Calif. Acad. Zool. (3), III, 251-253.

CLOUDSLEY M. RUTTER.

Pycnomma Rutter, 252; orthotype *P. SEMISQUAMATA* Rutter.

1995. SCHMIDT (1904). *Pisces marium orientalium imperii rossici*. St. Petersburg, 1904, 1-466.

PETR YULIEVICH SCHMIDT.

Cottiusculus Schmidt, 190; orthotype *C. GONEZ* Schmidt. First notice by Jordan & Starks, 1904.

Tilesina Schmidt, 134; orthotype *T. GIBBOSA* Schmidt.

Krusensterniella Schmidt, 198; orthotype *K. NOTABILIS* Schmidt.

Hadropareia Schmidt, 205; orthotype *H. MIDDENDORFFI* Schmidt.

Protopsetta Schmidt, 230; orthotype *HIPPOGLOSSOIDES HERZENSTEINI* Schmidt.

Acanthopsetta Schmidt, 237; orthotype *A. NADESHNYI* Schmidt.

1996. SIMIONESCU (1904). *Vorläufige Mitteilung über eine eligocäne Fischfauna aus den rumanischen Karpathen*. Verh. Geol. Reichsanst., 1904, 147-149.

JOAN THEODOR SIMIONESCU.

Krambergeria Simionescu, 148; orthotype *K. LANCEOLATA* Simionescu (fossil).

1997. SMITH (1904). *A New Cottoid Fish from Bering Sea*. P. Soc. Wash., XVII, 163-164.

HUGH McCORMICK SMITH.

Thecopterus Smith, 163; orthotype *T. ALEUTICUS* Smith.

1998. SNYDER (1904). *A Catalogue of the Shore Fishes Collected by the Steamer "Albatross" about the Hawaiian Islands in 1902*. Bull. U. S. Fish Comm., XXII, 513-538.

JOHN OTTERBEIN SNYDER.

Veternio Snyder, 516; orthotype *V. VERRENS* Snyder.

Collybus Snyder, 525; orthotype *C. DRACHME* Snyder.

Merinthe Snyder, 535; orthotype *SEBASTES MACROCEPHALUS* Sauvage.

1999. STROMER (1904). *Nematognathi aus dem Fajum und dem Natronthale in Aegypten*. N. Jahrb. Min., 1904, I, 1-17.

ERNST STROMER VON REICHENBACH (1871-).

Fajumia Stromer, 3; orthotype *F. SCHWEINFURTHI* Stromer (fossil).

Socnopæa Stromer, 6; orthotype *S. GRANDIS* Stromer (fossil).

2000. VAILLANT (1904). *Quelques Reptiles, Batraciens et Poissons du Haut Tonquin*. Bull. Mus. Paris, 1904, 297-301.

LÉON VAILLANT.

Luciocyprinus Vaillant, 299; orthotype *L. LANGSONI* Vaillant.

2001. WAITE (1904). *Additions to the Fish Fauna of Lord Howe Island*. No. 4. Rec. Austral. Mus., V, 135-186.

EDGAR RAVENSWOOD WAITE.

Xenogramma Waite, 157; orthotype *X. CARINATUM* Waite.

Allogobius Waite, 176; orthotype *A. VIRIDIS* Waite. A synonym of *EVIOTA* Jenkins.

Limnichthys Waite, 178; orthotype *L. FASCIATUS* Waite.

Lepadichthys Waite, 180; orthotype *L. FRENATUS* Waite.

Schizochirus Waite, 243; orthotype *S. INSOLENS* Waite.

1905.

2002. ANTIPA (1905). *A Clupeinen des Westlichen Teiles des Schwarzen Meeres und der Donaumündungen*. Denkschr. Akad. Wiss. Wien, LXVIII.

GREGOR ANTIPA.

Sardina Antipa, 54; orthotype *CLUPEA PILCHARDUS* L. A synonym of *SARDINIA* Poey, the two names equally similar to the earlier *SARDINIUS* Von der Marck, a fossil sardine-like fish. For the genus typified by *CLUPEA PILCHARDUS* the name *CLUPANODON* Lac. has been used, but according to the present rules of nomenclature that name must stand for the Asiatic genus, *KONOSIRUS*.

2003. See Additions and Corrections, page 575.

2004. EASTMAN (1905). *Les types de poissons fossiles du Monte Bolca au Museum d'Histoire Naturelle de Paris*. Mem. Soc. Geol. Paris, XIII.

CHARLES ROCHESTER EASTMAN.

Eomyrus (Agassiz) Eastman, 15; logotype *E. FORMOSISSIMUS* Ag. (Ms.).

2005. EIGENMANN & WARD (1905). *The Gymnotidae*. Proc. Wash. Ac., 1905, VII, 159-188.

CARL H. EIGENMANN; D. P. WARD.

Sternarchella Eigenmann & Ward, 163; orthotype *STERNARCHUS SCHOTTI* Steind.

Sternarchorhamphus Eigenmann & Ward, 165; logotype *STERNARCHUS MULLERI* Steind.

Sternarchogiton Eigenmann & Ward, 165; orthotype *STERNARCHUS NATTERERI* Steind.

2006. FORBES & RICHARDSON (1905). *On a New Shovelnose Sturgeon from the Mississippi River*. Bull. Illinois Lab., VII, 1905, 37-44.

STEPHEN ALFRED FORBES; ROBERT EARL RICHARDSON.

Parascaphirhynchus Forbes & Richardson, 37; orthotype *P. ALBUS* Forbes & Richardson.

2007. FOWLER (1905). *New, Rare, or Little Known Scombroids, I*. Proc. Acad. Nat. Sci. Phila., LVI, for 1904, 757-771. (Jan. 16, 1905.)

HENRY WEED FOWLER.

Sierra Fowler, 766; orthotype *CYBIUM CAVALLA* Cuv. A subgenus under *SCOMBEROMORUS* Lac.

Lepturacanthus Fowler, 770; orthotype *TRICHIURUS SAVALA* Cuv.

2008. FOWLER (1905). *New, Rare, or Little Known Scombroids, II*. Proc. Acad. Nat. Sci. Phila., LXII, 56-88. (Mar. 31, 1905.)

HENRY WEED FOWLER.

Rhaphiolepis Fowler, 59; orthotype *CHORINEMUS TOL* Cuv.

Vexillicarax Fowler, 76; orthotype *CARANX AFRICANUS* Steind.

Elaphotoxon Fowler, 76; orthotype *SCOMBER RUBER* Bloch.

2009. FOWLER (1905). *Some Fishes from Borneo*. Proc. Acad. Nat. Sci. Phila., LVII, 455-523. (Aug. 14, 1905.)

HENRY WEED FOWLER.

Pristiopsis Fowler, 459; orthotype *PRISTIS PERROTTETI* Muller & Henle (lower caudal lobe developed).

Apodoglanis Fowler, 463; orthotype *A. FURNESSI* Fowler.

Vaillantella Fowler, 474; orthotype *NEMACHEILUS EUEPIPTERUS* Vaillant.

Homalopteroides Fowler, 476; orthotype HOMALOPTERA WASSINKII Blkr.
Labidorhamphus Fowler, 493; orthotype HEMIRHAMPHUS AMBLYURUS Blkr.
Pampus (Bonaparte) Fowler, 499; orthotype STROMATEUS CINEREUS Bloch. Forgotten name revived; replaces STROMATEOIDES Blkr.
Gigantogobius Fowler, 511; orthotype G. JORDANI Fowler.

2010. GILBERT (1905). *Aquatic Resources of the Hawaiian Islands, II. The Deep-Sea Fishes.* Bull. U. S. Fish Comm. for 1903, (Aug. 5, 1905.)

CHARLES HENRY GILBERT.

Metopomycter Gilbert, 585; orthotype M. DENTICULATUS Gilbert.
Stemonidium Gilbert, 586; orthotype S. HYPOMELAS Gilbert.
Nematoprora Gilbert, 587; orthotype N. POLYGONIFERA Gilbert.
Leptostomias Gilbert, 606; orthotype L. MACRONEMA Gilbert.
Lestidium Gilbert, 607; orthotype N. NUDUM Gilbert.
Hynnodus Gilbert, 617; orthotype H. ATHERINOIDES Gilbert.
Grammatonotus Gilbert, 618; orthotype G. LAYSANUS Gilbert.
Stethopristes Gilbert, 622; orthotype S. EOS Gilbert.
Cyttomimus Gilbert, 623; orthotype C. STELGIS Gilbert.
Peloropsis Gilbert, 630; orthotype O. XENOPS Gilbert.
Plectrogenium Gilbert, 634; orthotype P. NANUM Gilbert.
Snyderidia Gilbert, 634; orthotype S. CANINA Gilbert.
Bembradium Gilbert, 637; orthotype B. ROSEUM Gilbert.
Chironema Gilbert, 645; orthotype C. CHRYSERES Gilbert.
Jordanicus Gilbert, 656; orthotype FIERASPER UMBRATILIS J. & E.
Tæniopsetta Gilbert, 680; orthotype T. RADULA Gilbert.
Samariscus Gilbert, 682; orthotype S. CORALLINUS Gilbert.
Miopsaras Gilbert, 694; orthotype M. MYOPS Gilbert.

2011. GILBERT & THOMPSON (1905). *Notes on the Fishes of Puget Sound.* Proc. U. S. Nat. Mus., XXVIII, 973-987. (Aug. 8, 1905.)

CHARLES HENRY GILBERT; JOSEPH C. THOMPSON.

Stelgidonotus Gilbert & Thompson, 977; orthotype S. LATIFRONS Gilbert & Thompson.

2012. GILL (1905). *The Scorpionoid Fish, Neosebastes entaxis, as the Type of a Distinct Genus.* Proc. U. S. Nat. Mus. (February 15, 1905.)

THEODORE NICHOLAS GILL.

Sebastosemus Gill, 219; orthotype NEOSEBASTES ENTAXIS Jordan & Snyder.

2013. GILL (1905). *Notes on the Genera of Synanceine and Pelorinc Fishes.* Proc. U. S. Nat. Mus., XXVIII, 221-225. (Feb. 23, 1905.)

THEODORE NICHOLAS GILL.

Simopias Gill, 224; orthotype PELOR FILAMENTOSUS Cuv. & Val. A substitute for PELOR Cuv., based on a section of the genus distinct from the type of INIMICUS Jordan & Starks.

Rhinopias Gill, 225; orthotype SCORPÆNA FRONDOSA Gthr.

2014. GILL (1905). *On the Generic Characters of Prionotus Stearnsi.* Proc. U. S. Nat. Mus. (February 15, 1905.)

THEODORE NICHOLAS GILL.

Colotrigla Gill, 339; orthotype PRIONOTUS STEARNSI Jordan & Swain.

Fissala Gill, 342; orthotype PRIONOTUS ALATUS G. & B.

2015. GILL (date not ascertained). *Mancopsetta*.
Mancopsetta Gill, —; orthotype LEPIDOPSETTA MACULATA Gthr.; substitute for LEPIDOPSETTA Gthr., preoccupied. (I am unable to place this genus.)
2016. GILL & SMITH (1905). *A New Family of Jugular Acanthopterygians (Caristiidae)*. Proc. Biol. Soc. Wash., XVIII.
 THEODORE GILL; HUGH McCORMICK SMITH.
Caristius Gill & Smith, 249; orthotype C. JAPONICUS Gill & Smith.
2017. HAUG (1905). *Documents scientifiques de la mission saharienne Paleontologique (Mission Foureaux Lamy)*. Paris, fasc. 3, 1905, 751-832.
 EMILE HAUG.
Platyspondylus Haug, 751; orthotype P. FOUREAUX Haug (fossil).
2018. JORDAN & EVERMANN (1905). *The Aquatic Resources of the Hawaiian Islands. I. The Shore Fishes*. Bull. U. S. Fish Comm. for 1903. (July 29, 1905.)
 DAVID STARR JORDAN; BARTON WARREN EVERMANN.
Kelloggella (Jordan & Seale) Jordan & Evermann, 488; orthotype K. CARDINALIS Jordan & Seale. More fully defined later in *Fishes of Samoa*.
Exallias Jordan & Evermann, 503; orthotype SALARIAS BREVIS Kner.
2019. JORDAN & SEALE (1905). *List of Fishes Collected by Dr. Bashford Dean on the Island of Negros, Philippines*. Proc. U. S. Nat. Mus., XXVIII, 769-803.
 DAVID STARR JORDAN; ALVIN SEALE.
Eleria Jordan & Seale, 774; orthotype E. PHILIPPINA Jordan & Seale.
Foa Jordan & Seale, 779; orthotype F. FO Jordan & Seale.
Drombus Jordan & Seale, 797; orthotype D. PALACKYI Jordan & Seale.
2020. JORDAN & STARKS (1905). *On a Collection of Fishes Made in Korea, by Pierre Louis Jouy, with Descriptions of New Species*. Proc. U. S. Nat. Mus., XXVIII, 193-211. (February 23, 1905.)
 DAVID STARR JORDAN; EDWIN CHAPIN STARKS.
Longurio Jordan & Starks, 196; orthotype L. ATHYMIUS Jordan & Starks. A synonym of SAUROGOBIO Blkr.
Fusania Jordan & Starks, 198; orthotype F. ENSARCA Jordan & Starks. A synonym of APHYOCYPRIS Gthr.
Coreius Jordan & Starks, 199; orthotype LABEO CETOPSIS Kner.
Larimichthys Jordan & Starks, 204; orthotype L. RATHBUNÆ Jordan & Starks.
2021. JORDAN & THOMPSON (1905). *The Fish Fauna of the Tortugas Archipelago*. Bull. Bur. Fish, XXIV, 231-266.
 DAVID STARR JORDAN; JOSEPH C. THOMPSON.
Etelides Jordan & Thompson, 241; orthotype ETELIS AQUILIONARIS G. & B.
Execestides Jordan & Thompson, 253; orthotype E. EGREGIUS Jordan & Thompson.
2022. KRAMBERGER (1905). *Die obertriadische Fischfauna von Hallein in Salzberg*. Beitr. Pal. Pesterr-Ung., XVIII, 193-224.
 DRAGUTIN GORJANOVIC KRAMBERGER.
Spaniolepis Kramberger, 216; orthotype S. OVALIS Kramberger (fossil).
2023. LERICHE (1905). *Les poissons éocènes de la Belgique*. Mem. Mus. Belgique Bruxelles, III, 1905, 228.
 MAURICE LERICHE.

- Cristigorina** Leriche, 80; orthotype *C. CRASSA* Leriche (fossil).
- Glyptorhynchus** Leriche, 159; orthotype *CÆLORHYNCHUS RECTUS* Ag. (fossil). Substitute for *CÆLORHYNCHUS* Ag., preoccupied. A synonym of *CYLINDRACANTHUS* Leidy, 1856.
2024. LÖNNBERG (1905). *The Fishes of the Swedish South Pole Expedition*. *Wissensch. Ergeb. Schwed. Sudpolar-Exp.*, 5, Lief. 6, 1906, 1-69.
AXEL JOHAN EINAR LÖNNBERG.
- Artedidraco** Lönnberg, 39; orthotype *A. MIRUS* Lönnberg.
2025. MCGILCHRIST (1905). *Natural History Notes from the R. I. M. S. "Investigator" Capt. R. H. Heming, R. N. (retired), Commanding. Series III, No. 8. On a New Genus of Teleostean Fish Closely Allied to Chiasmodus*. *Ann. Mag. Nat. Hist.* (7), XV, 268-270.
A. C. MCGILCHRIST.
- Dysalotus** McGilchrist, 268; orthotype *D. ALCOCKI* McGilchrist.
2026. PELLÉGRIN (1905). *Poisson nouveau de Mozambique*. *Bull. Mus. Paris*, XI, 145-146.
JACQUES PELLÉGRIN.
- Xenopomichthys** Pellégrin, 145; orthotype *X. AURICULATUS* Pellégrin.
2027. PELLÉGRIN (1905). *Mission Scientifique en Afrique Centrale*. *Mem. Soc. Zool. de France*.
JACQUES PELLÉGRIN.
- Astatochromis** Pellégrin, 183; orthotype *A. ALLAUDI* Pellégrin.
2028. POPTA (1905). *Suites des descriptions préliminaires des nouvelles espèces de poissons recueillis par M. le Dr. A. W. Nieuwenhuis en 1898 et en 1900*. *Notes Leyden Mus.*, XXV, 171-187.
CANNA M. L. POPTA.
- Neogastromyzon** Popta, 180; orthotype *N. NIEUWENHUISII* Popta.
- Parophiocephalus** Popta, 183; orthotype *P. UNIMACULATUS* Popta. A synonym of *BETTA* Blkr.
2029. REGAN (1905). *A Synopsis of the Species of the Silurid Genera Parexostoma, Chimarrichthys, and Exostoma*. *Ann. Mag. Nat. Hist.* (7), XV, 182.
CHARLES TATE REGAN.
- Parexostoma** Regan, 182; logotype *EXOSTOMA STOLICZKÆ* Day.
2030. REGAN (1905). *A Revision of the Fishes of the American Cichlid Genus Cichlasoma and of the Allied Genera*. *Ann. Mag. Nat. Hist.* (7), XV, 60-77; 225-243, 316-340.
CHARLES TATE REGAN.
- Parapetenia** Regan, 324; orthotype *ACARA ADSPERSA* Gthr.
2031. REGAN (1905). *A Revision of the Fishes of the South American Cichlid Genera Acara, Nannacara, Acaropsis, and Astronotus*. *Ann. Mag. Nat. Hist.* (7), XV, 329-427.
CHARLES TATE REGAN.
- Nannacara** Regan, 344; orthotype *N. ANOMALA* Regan.
2032. REGAN (1905). (*Gymnapogon*). *Ann. Mag. Nat. Hist.*, XV.
CHARLES TATE REGAN.
- Gymnapogon** Regan, 19; orthotype *G. JAPONICUS* Regan.

2033. SAUTER (1905). *Notes from the Owston Collection*. Annot. Zool. Japan, V, 233-238.

HANS SAUTER.

Ijimaia Sauter, 233; orthotype I. DOFLEINI Sauter.

2034. STROMER (1905). *Die Fischreste des mittleren und oberen Eocens von Aegypten*. Beitr. Pal. Oesterr-Ung., XVIII, 37-58.

ERNST STROMER VON REICHENBACH.

Eopristis Stromer, 52; orthotype P. REINACHI Stromer.

2035. TOULA (1905). *Ueber einem dem Thunfische verwandten Raub-fish der Congerienschichten der Wiener Bucht*. . . . Jahrb. Geol. Reichsanst. Wien., LV.

FRANZ TOULA (1845-).

Pelamycybium Toulou, 51; orthotype P. SINUS-VINDOBONENSIS Toulou (fossil).

2036. WAITE (1905). *Notes on Fishes from Western Australia, III*. Rec. Austral. Mus., VI, 1905, 55-82.

EDGAR RAVENSWOOD WAITE.

Neatypus Waite, 64; orthotype N. OBLIQUUS Waite.

Bramichthys Waite, 72; orthotype B. WOODWARDI Waite.

Dipulus Waite, 77; orthotype D. CÆCUS Waite.

1906.

2037. ABEL (1906). *Fossile Flugfische*. Verh. Deutsche. Zool. Ges., XV, 47-48.

OTHENIO ABEL.

Dollopterus Abel, 47; orthotype DOLICHOPTERUS VOLITANS Compter (fossil).

Gigantopterus Abel, 48; orthotype G. TELLERI Abel (fossil).

2038. AMEGHINO (1906). *Les formations sedimentaires du crétacé supérieur et du Tertiaire de Patagonie, etc.* Ann. Mus. Nat. Buenos Aires, XV.

FLORENTINO AMEGHINO.

Pseudacrodus Ameghino, 176; orthotype P. PATAGONIENSIS Ameghino (fossil).

Carcharioides Ameghino, 183; orthotype C. TOTUSERRATUS Ameghino (fossil).

2039. BERG (1906). *Uebersicht der Marsipobranchii des russischen Reiches*. St. Petersburg, Bull. Ac. Ser. 5, XXIV, 169-183.

LEW SEMENOWITCH BERG.

Caspiomyzon Berg, 177; orthotype PETROMYZON WAGNERI Kessler.

2040. BERG (1906). *Uebersicht der Cataphracti (Fam. Cottidæ, Cottocomphoridæ und Comephoridæ) des Baikalsees*. Zool. Anz., XXX, 1906, 906-911.

LEW SEMENOWITCH BERG.

Asprocottus Berg, 907; orthotype A. HERZENSTEINI Berg.

Abyssocottus Berg, 908; orthotype A. KOROTNEFFI Berg.

Limnocottus Berg, 909; orthotype COTTUS GODLEWSKII Dybowski.

2041. BOULENGER (1906). *Fourth Contribution to the Ichthyology of Lake Tanganyika. Report on the Collection of Fishes Made by Dr. W. A. Cunningham during the Third Tanganyika Expedition, 1904-1905*. Trans. Zool. Soc. London, XVII, 1906, 537-576.

GEORGE ALBERT BOULENGER.

Dinotopterus Boulenger, 550; orthotype D. CUNNINGTONI Boulenger.

Phyllonemus Boulenger, 552; orthotype *P. TYPUS* Boulenger.

Haplotaxodon Boulenger, 566; orthotype *H. MICROLEPIS* Boulenger.

Cunningtonia Boulenger, 573; orthotype *C. LONGIVENTRALIS* Boulenger.

2042. BOULENGER (1906). *Descriptions of New Fishes Discovered by Mr. E Degen in Lake Victoria*. Ann. Mag. Nat. Hist., XVII, 433-452.

GEORGE ALBERT BOULENGER.

Platyæniodus Boulenger, 451; orthotype *P. DEGENI* Boulenger.

2043. BRAUER (1906). *Die Tiefsee-Fische. I. Syst. Theil. (Wissenschaftl. Ergebnisse der deutschen Tiefsee-Expedition)*. Jena, 1906, 1-432.

AUGUST BRAUER.

Stylophthalmus Brauer, 70; orthotype *S. PARADOXUS* Brauer.

Oxyodon Brauer, 287; orthotype *O. MACROPS* Brauer.

Bassobythites Brauer, 307; orthotype *B. BRUNSWIGI* Brauer.

2044. EASTMAN (1906). *Structure and Relations of Mylostoma*. Bull. Mus. Comp. Zool., L, 1-29. (May, 1906.)

CHARLES ROCHESTER EASTMAN.

Dinomylostoma Eastman, 23; orthotype *D. BEECHERI* Eastman (fossil, teeth and body plates): (mentioned earlier, February, 1906, in a paper on ARTHRODIREs. Amer. Journ. Sci., XXI, 137). ARTHRODIRA, Devonian.

2045. EVERMANN & KENDALL (1906). *Notes on a Collection of Fishes from Argentina, South America, with Descriptions of Three New Species*. Proc. U. S. Nat. Mus., XXXI, 67-108. (July 25, 1906.)

BARTON WARREN EVERMANN; WILLIAM CONVERSE KENDALL.

Odontesthes Evermann & Kendall, 94; orthotype *O. PERUGLÆ* Evermann & Kendall.

2046. FOWLER (1905). *Some Cold-Blooded Vertebrates from the Florida Keys*. Proc. Acad. Nat. Sci. Phila., LVIII, 77-113. (May 29, 1906.)

HENRY WEED FOWLER.

Congrammus Fowler, 105; orthotype *C. MOOREI* Fowler.

2047. FOWLER (1906). *New, Rare, or Little Known Scombroids, III*. Proc. Acad. Nat. Sci. Phila., LVIII, 114-122. (June 20, 1906.)

HENRY WEED FOWLER.

Glaucus (Klein) Fowler, 116; orthotype *SCOMBER AMIA* L. Revived as reprinted by Walbaum, *Artedi Piscium*, III, 585, 1792, to replace *HYPODIS* Raf., *HYPACANTHA* Raf., *LICHIA* Cuv., and *PORTHMEUS* Cuv. & Val. This choice of type antedates that of Jordan & Hubbs, 1915. *SCOMBER GLAUCUS* L., replacing *CÆSIMORUS* Lac., the law of tautonymy would apply here, and the names of Klein, however reprinted, are not yet declared eligible.

Pampanoa Fowler, 116; orthotype *CHÆTODON GLAUCUS* Bloch.

Pterorhombus Fowler, 118; orthotype *FIATOLA FASCIATA* Risso.

Priacanthopsis Fowler, 122; orthotype *PEMPHERIS MULLERI* Poey.

2048. FOWLER (1906). *Further Knowledge of Some Heterognathous Fishes*. Proc. Acad. Nat. Sci. Phila., LVIII, I, 293-351. (Sept. 25, 1906.)

HENRY WEED FOWLER.

The numerous genera indicated in this paper have been critically reviewed by Dr. Carl H. Eigenmann, Amer. Nat. Dec., 1907. From this paper I draw the comments on the different genera proposed.

- Ophiocephalops** Fowler, 293; orthotype *ERYTHRINUS UNITÆNIATUS* Ag. A synonym of *HOPLERYTHRINUS* Gill.
- Copeina** Fowler, 294; orthotype *PYRRHULINA ARGYROPS* Fowler. A substitute for *HOLOTAXIS* of Eigenmann, not of Cope.
- Cyphocharax** Fowler, 297; orthotype *CURIMATUS SPILURUS* Gthr.
- Steindachnerina** Fowler, 298; orthotype *CURIMATUS TRACHYSTETHUS* Cope. Probably a synonym of *CURIMATA* Walbaum (*CURIMATUS* Cuv.).
- Peltapleura** Fowler, 300; orthotype *SALMO CYPRINOIDES* L. A synonym of *CURIMATA* Walbaum.
- Eigenmannina** Fowler, 307; orthotype *ANODUS MELANOPOGON* Cope.
- Chilomyzon** Fowler, 309; orthotype *PROCHILODUS STEINDACHNERI* Fowler. A synonym of *PROCHILODUS*.
- Hemiodopsis** Fowler, 318; orthotype *HEMIODUS MICROLEPIS* Kner.
- Pithecocharax** Fowler, 319; orthotype *SALMO ANOSTOMUS* L. A substitute for *ANOSTOMUS* Cuv., regarded as preoccupied by *ANOSTOMUS* Bonnaterre, 1788. But *ANOSTOMUS* dates from Gronow (1763), revived by Scopoli (1777).
- Pæcilosomatops** Fowler, 323; orthotype *CHARACIDIUM ETHEOSTOMA* Cope. A synonym of *NANOGNATHUS* Boulenger, a section of *CHARACIDIUM*.
- Garmanina** Fowler, 326; orthotype *RHYTODUS ARGENTEOFUSCUS* Kner.
- Abramites** Fowler, 331; orthotype *LEPORINUS HYPSELONOTUS* Gthr. A synonym of *LEPORINUS* Cuv. & Val.
2049. GARMAN (1906). *New Plagiostomia*. Bull. Mus. Comp. Zool., Harvard Coll., XLVI, 201-208.

SAMUEL GARMAN.

- Parmaturus** Garman, 201; orthotype *P. PILOSUS* Garman.
2050. GILCHRIST (1903). *Descriptions of Fifteen New South African Fishes, with Notes on Other Species*. Cape Town, Marine Investiga., IV, 1906, 143-171.
- J. D. F. GILCHRIST.
- Pseudocyttus** Gilchrist, 152; orthotype *P. MACULATUS* Gilchrist.
- Neostomias** Gilchrist, 168; orthotype *N. FILIFERUM* Gilchrist.

2051. GRACIANOV (1906). *Ueber eine besondere Gruppe der Rochen*. Zool. Anz., XXX, 399-406. (Dec., 1906.)

VALERIAN GRACIANOV (OR GRATZIANOW).

- Brachioptera** Gratzianow, 402; orthotype *B. RHINOCEROS* Gratzianow.
- Planerocephalus** Gracianov, 403; orthotype *P. ELLIOTI* Gracianov.
2052. GRACIANOV (1906). *Die Neunaugen des Russischen Reiches*. Text in Russian. Moskv. Dnevn. zool. otd. obsc. liub. jest., 3, 7-8, 1907, 18.
- VALERIAN GRACIANOV.
- Agnathomyzon** Gracianov, 18; orthotype *PETROMYZON WAGNERI* Kessler. A synonym of *CASPIOMYZON* Berg (September, 1906).
- Haploglossa** Gracianov, 18; orthotype *A. CASPICUS* Wagner = *PETROMYZON WAGNERI* Kessler. A synonym of *CASPIOMYZON* Berg.

2053. JORDAN & SEALE (1906). *Descriptions of Six New Species of Fishes from Japan*. Proc. U. S. Nat. Mus., XXX, 143-148.

DAVID STARR JORDAN; ALVIN SEALE.

- Sayonara** Jordan & Seale, 145; orthotype *S. SATSUMÆ* Jordan & Seale.

2054. JORDAN & SEALE (1906). *The Fishes of Samoa. Descriptions of Species Found in the Archipelago, with a Provisional Check-List of the Fishes of Oceania.* Bull. Bur. Fish., XXV, 173-455. (Dec. 15, 1906.)

DAVID STARR JORDAN; ALVIN SEALE.

Anarchias Jordan & Seale, 204; orthotype *A. ALLARDICEI* Jordan & Seale.

Psettias (Jordan) Jordan & Seale, 237; orthotype *PSETTUS SEBÆ* Cuv. & Val.

Rooseveltia (Jordan & Evermann) Jordan & Seale, 265; orthotype *SERRANUS BRIGHAMI* Seale.

Oceanops Jordan & Seale, 277; orthotype *LABRUS LATOVITTATA* Lac.

Lo Seale, 360; orthotype *AMPHACANTHUS VULPINUS* Schlegel & Müller.

Abalistes Jordan & Seale, 364; orthotype *BALISTES STELLARIS* Bl. & Sch. Substitute for *LEIURUS* Sw., preoccupied.

Trimma Jordan & Seale, 391; orthotype *T. CÆSIURA* Jordan & Seale.

Vitreola Jordan & Seale, 393; orthotype *V. SAGITTA* Jordan & Seale.

Vaimosa Jordan & Seale, 395; orthotype *V. FONTINALIS* Jordan & Seale. A synonym of *MUGILOGOBIUS* Smitt, 1899.

Vailima Jordan & Seale, 398; orthotype *V. STEVENSONI* Jordan & Seale.

Exyrias Jordan & Seale, 405; orthotype *GOBIOUS PUNTAGOIDES* Blkr.

Pselaphias Jordan & Seale, 406; orthotype *GOBIOUS OPTHALMONEMUS* Blkr.

Waitea Jordan & Seale, 407; orthotype *GOBIOUS MYSTACINUS* Cuv. & Val.

Mars Jordan & Seale, 408; orthotype *M. STRIGILLICEPS* Jordan & Seale.

Kelloggella Jordan & Seale, 409; orthotype *K. CARDINALIS* Jordan & Seale. (First noticed by Jordan & Evermann, *Fishes of Hawaii*, 1905.)

Sauvagea Jordan & Seale, 420; orthotype *LEPIDOBLENNIUS CALEDONICUS* Sauvage. Substitute for *LEPIDOBLENNIUS* Sauvage, preoccupied.

2055. JORDAN & SNYDER (1906). *A Review of the Pæciliidæ or Killifishes of Japan.* Proc. U. S. Nat. Mus., XXXI, 287-290. (Sept. 10, 1906.)

DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.

Oryzias Jordan & Snyder, 289; orthotype *PÆCILIA LATIPES* T. & S.

2056. JORDAN & STARKS (1906). *Notes on a Collection of Fishes from Port Arthur, Manchuria, Obtained by James Francis Abbott.* Proc. U. S. Nat. Mus., XXXI, 515-526. (Sept. 10, 1906.)

DAVID STARR JORDAN; EDWIN CHAPIN STARKS.

Ranulina Jordan & Starks, 523; orthotype *R. FIMBRIIDENS* Jordan & Starks.

2057. JORDAN & STARKS (1906). *A Review of the Flounders and Soles of Japan.* Proc. U. S. Nat. Mus., XXXI, 161-246.

DAVID STARR JORDAN; EDWIN CHAPIN STARKS.

Cynopsetta (Schmidt) Jordan & Starks, 188; orthotype *C. DUBIA* Schmidt.

Limandella Jordan & Starks, 204; orthotype *PLEURONECTES YOKOHAMÆ* Gthr.

Amate Jordan & Starks, 228; orthotype *ACHIRUS JAPONICUS* T. & S.

2058. LERICHE (1908). *Note préliminaire sur les poissons nouveaux de l'Oligocène Belge.* Bull. Soc. Belge Geol., XXII.

MAURICE LERICHE.

Neocybium Leriche, 379; orthotype *N. ROSTRATUM* Leriche (fossil).

2059. OGILBY (1906). (*A New Genus of Sharks.*) Proc. Roy. Soc. Queensland, XX.

JAMES DOUGLAS OGILBY.

Brachælorus Ogilby, 27; orthotype *CHILOSCYLLIUM MODESTUM* Gthr.

2060. OSORIO (1906). *Description d'un poisson des profondeurs appartenant à un genre nouveau et trouvé sur les côtes du Portugal*. Lisboa, J. Sci., VII, 1906, 172-174.

BALTHAZAR OSORIO.

Lophocephalus Osorio, 173; orthotype *L. ANTHRAX* Osorio.

2061. PAPPENHEIM (1906). *Neue und ungenügend bekannte elektrische Fische (Mormyridæ) aus den deutsch-afrikanischen Schutzgebieten*. Sitzber. Ges. Naturf. Berlin, 1906, 260-264.

PAUL PAPPENHEIM.

Hippopotamyrus Pappenheim, 260; orthotype *H. CASTOR* Pappenheim.

2062. REGAN (1906). *A Revision of the South American Cichlid Genera Retroculus, Geophagus, Heterogramma, and Biotacus*. Ann. Mag. Nat. Hist., XVII, 49-66.

CHARLES TATE REGAN.

Heterogramma Regan, 63; orthotype *H. BORELLI* Regan = *H. RITENSE* Haseman. Name preoccupied; replaced by *APISTOGRAMMA* Regan, 1913.

2063. REGAN (1906). *Notes on Some Loricariid Fishes, with Descriptions of Two New Species*. Ann. Mag. Nat. Hist. (7), XVII, 94-98.

CHARLES TATE REGAN.

Thysanocara Regan, 96; orthotype *XENOCARA CIRRHOSA* Regan.

2064. REGAN (1906). *Descriptions of New or Little Known Fishes from the Coast of Natal*. Ann. Natal Govt. Mus., I, pt. 1, 1-6.

CHARLES TATE REGAN.

Pliotrema Regan, 1; orthotype *P. WARRENI* Regan.

2065. SEALE (1906). *Fishes of the South Pacific. Honolulu, H. I.* Occ. Papers Bernice Bishop Mus., 4, 1906, 1-89.

ALVIN SEALE.

Deleastes Seale, 80; orthotype *D. DÆCTOR* Seale.

2066. SMITH & POPE (1906). *List of Fishes Collected in Japan in 1903, with Descriptions of New Genera and Species*. Proc. U. S. Nat. Mus., XXXI, 459-499. (Sept. 24, 1906.)

HUGH McCORMICK SMITH; THOMAS E. B. POPE.

Tosana Smith & Pope, 470; orthotype *T. NIWÆ* Smith & Pope.

Satsuma Smith & Pope, 472; orthotype *S. MACROPS* Smith & Pope. A synonym of *MALAKICHTHYS* Döderlein.

Lysodermus Smith & Pope, 483; orthotype *L. SATSUMÆ* Smith & Pope.

Lambdopsetta Smith & Pope, 496; orthotype *L. KITAHARÆ* Smith & Pope.

2067. SMITH & SEALE (1906). *Notes on a Collection of Fishes from the Island of Mindanao, Philippine Archipelago, with Descriptions of New Genera and Species*. Proc. Biol. Soc. Wash., XIX, 73-82.

HUGH McCORMICK SMITH; ALVIN SEALE.

Illana Smith & Seale, 73; orthotype *I. CACABET* Smith & Seale.

Caragobius Smith & Seale, 81; orthotype *C. TYPHLOPS* Smith & Seale.

2068. STEINDACHNER (1906). *Ueber eine neue Gattung und Art aus der Familie der Murænidæ, Nettastomops barbatula*. Anz. Ak. Wiss., 1906, 299-300.

FRANZ STEINDACHNER.

- Nettastomops** Steindachner, 299; orthotype *N. BARBATULA* Steind.
2069. STEINDACHNER (1906). *Zur Fischfauna der Samoa-Inseln*. Sb. Ak. Wiss. Wien., CXV, July, 1906.
FRANZ STEINDACHNER.
- Kræmeria** Steindachner, 1409 (41); orthotype *K. SAMOENSIS* Steind. (*TRICHONOTIDÆ*).
2070. WERNER (1906). *Beiträge zur Kenntnis der Fischfauna des Nils*. Ans Ak. Wiss. Wien., 1906, 325–327.
FRANZ WERNER.
- Slatinia** Werner, 326; orthotype *S. MONGALLENSIS* Werner.

 1907.

2071. BERG (1907). *Die Cataphracti des Baikal-Sees. (Fam. Cottidæ, Cotto- comephoridaæ und Comephoridaæ.) Beiträge zur Osteologie und Systematik*. St. Petersburg und Berlin, 1907, 1–75.
LEW SEMENOWITCH BERG.
- Cottinella** Berg, 45; orthotype *ABYSSOCOTTUS BOULENGERI* Berg.
2072. BERG (1907). *Description of a New Cyprinoid Fish, Paraleucogobio notacanthus, from North China*. Ann. Mag. Nat. Hist., XIX, 1907, 163–164.
LEW SEMENOWITCH BERG.
- Paraleucogobio** Berg, 163; orthotype *P. NOTACANTHUS* Berg.
2073. BERG (1907). *Verzeichniss der Fische von Russisch-Turkestan*. St. Petersburg, Ann. Mus. Zool. Ac. Sc., X, 1905 (1907), 316–332.
LEW SEMENOWITCH BERG.
- Aspiolucius** Berg, 12; orthotype *ASPIUS ESOCINUS* Kessler.
2074. BERG (1907). *Description of a New Cyprinoid Fish, Acheilognathus signifer, from Korea, with a Synopsis of All the Known Rhodeinæ*. Ann. Mag. Nat. Hist., XIX, 159–163.
LEW SEMENOWITCH BERG.
- Pararhodeus** Berg, 160; orthotype *RHODEUS SYRIACUS* Lortet.
2075. BERG (1907). *Beschreibungē einiger neuer Fische aus dem Stromgebiet des Amur*. St. Petersburg, Ann. Mus. Zool. Ac. Sc., XII, 1907, 418–423.
LEW SEMENOVITCH BERG.
- Plagiognathops** Berg, 419; orthotype *PLAGIOGNATHUS JELSKII* Dybowski = *XENOCYPRIS MICROLEPIS* Blkr. A substitute for *PLAGIOGNATHUS* Berg, preoccupied in *HEMIPTERA*.
2076. EASTMAN (1907). *Devonic Fishes of the New York Formations*. Mem. N. Y. State Mus., X, 1907.
CHARLES ROCHESTER EASTMAN.
- Protitanichthys** Eastman, 144; orthotype *P. FOSSATUS* Eastman (fossil; front half of a cranium of an *ARTHRODIRE*). A synonym of *COCCOSTEUS* Ag. (See Hussakof. Science, XXVIII, 311, 1909.)

2077. EIGENMANN (1907). *The Pæciliid Fishes of Rio Grande do Sul and the La Plata Basin*. Proc. U. S. Nat. Mus., XXXII, 1907, 425-433 (May 23, 1907).
 CARL H. EIGENMANN.
Acanthophacelus Eigenmann, 425; orthotype *PÆCILIA RETICULATA* Peters. A synonym of *LEBISTES* Philippi, 1861, according to Henn.
Ilyodon Eigenmann, 427; orthotype *I. PARAGUAYENSE* Eigenmann.
Phalloptychus Eigenmann, 430; orthotype *GIRARDINUS JANUARIUS* Hensel.
Phalloceros Eigenmann, 431; orthotype *GIRARDINUS CAUDOMACULATUS* Hensel.
2078. EIGENMANN (1907). *Fowler's "Heterognathus Fishes," with a note on the Stethaprioninae*. Amer. Naturalist, XLI, No. 492, 1907, 767-772.
 CARL H. EIGENMANN.
Phenacogaster Eigenmann, 769; orthotype *ASTYANAX PECTINATUS* Cope.
Astyacinus Eigenmann, 769; orthotype *ASTYANAX MOORI* Boulenger.
Fowlerina Eigenmann, 771; orthotype *TETRAGONOPTERUS COMPRESSUS* Gthr. Name preoccupied; replaced by *EPHIPPICHARAX* Fowler.
2079. EIGENMANN & BEAN (1907). *An Account of Amazon River Fishes Collected by J. B. Steere, with a Note on Pimelodus clarias*. Proc. U. S. Nat. Mus., XXXI, 659-668. (Jan. 16, 1907.)
 CARL H. EIGENMANN; BARTON APPLER BEAN.
Tænionema Eigenmann & Bean, 662; orthotype *BRACHYPLATYSTOMA STEEREI* Eigenmann & Bean.
Paracetopsis Eigenmann & Bean, 665; orthotype *CETOPSIS OCCIDENTALIS*.
2080. EIGENMANN & OGLE (1907). *An Annotated List of Characine Fishes in the United States Nat. Mus. and the Mus. of Ind. Univ., with Descriptions of New Species*. Proc. U. S. Nat. Mus., XXXIII, 1-36. (Sept. 10, 1907.)
 CARL H. EIGENMANN; FLETCHER OGLE.
Gilbertolus Eigenmann, 2; orthotype *ANACYRTUS ALATUS* Steind. Substitute for *GILBERTELLA* Eigenmann, preoccupied.
Evermannolus Eigenmann, 2; orthotype *CYNOPOTAMUS BISERIALIS* Garman. Substitute for *EVERMANNELLA* Eigenmann, preoccupied.
Phenacogrammus Eigenmann, 30; orthotype *MICRALESTES INTERRUPTUS* Boulenger.
2081. EIGENMANN, McATEE & WARD (1907). *On Further Collections of Fishes from Paraguay*. Ann. Carnegie Mus., 4, 1907, 110-157.
 CARL H. EIGENMANN; W. J. McATEE; D. P. WARD.
Homodiætus Eigenmann & Ward, 117; orthotype *H. ANISTISTI* Eigenmann & Ward.
Henonemus Eigenmann & Ward, 118; orthotype *STEGOPHILUS INTERMEDIUS* Eigenmann & Eigenmann.
Bryconamericus Eigenmann, 139; orthotype *B. EXODON* Eigenmann.
Deuterodon Eigenmann, 140; orthotype *D. IGUAPE* Eigenmann.
Chætobranchopsis Eigenmann & Ward, 144; orthotype *C. AUSTRALIS* Eigenmann & Ward.
2082. EVERMANN & SEALE (1907). *Fishes of the Philippine Islands*. Bull. Bur. of Fish., XXVI (1906), 1907, 49-110.
 BARTON WARREN EVERMANN; ALVIN SEALE.
Nesogrammus Evermann & Seale, 61; orthotype *N. PIERSONI* Evermann & Seale.
Hypomacrus Evermann & Seale, 101; orthotype *H. ALBIENSIS* Evermann & Seale.

2083. FOWLER (1907). *Further Knowledge of Some Heterognathous Fishes, II.* Proc. Ac. Nat. Sci. Phila., LVIII, 431-483. (Jan. 7 and Jan. 16, 1907.)

HENRY WEED FOWLER.

Pellegrinina Fowler, 442; orthotype *P. HETEROLEPIS* Fowler.

Coscinoxyron Fowler, 450; orthotype *CHALCINUS CULTER* Cope.

Thoracocharax Fowler, 452; orthotype *GASTROPELECUS STELLATUS* Kner.

Cyrtocharax Fowler, 454; orthotype *ANACYRTUS LIMÆSQUAMIS* Cope. A synonym of *CYNOPOTAMUS*.

Cynocharax Fowler, 457; orthotype *ANACYRTUS AFFINIS* Gthr.

Sphyrænocharax Fowler, 460; orthotype *XIPHORHAMPHUS ABBREVIATUS* Cope. A synonym of *ACESTORRHAMPHUS* Eigenmann.

Beloncharax Fowler, 464; orthotype *B. BEANI* Fowler. A synonym of *LUCIOCHARAX* Steind., and of the imperfectly described *CTENOLUCIUS* Gill.

Waiteina Fowler, 473; orthotype *MYLETES NIGRIPINNIS* Cope. Probably a synonym of *COLOSSOMA* Eigenmann.

Reganina Fowler, 475; orthotype *MYLESTES BIDENS* Ag. Probably a synonym of *COLOSSOMA*.

Starksina Fowler, 476; orthotype *MYLESTES HARNIARIUS* Cope. Probably a synonym of *MYLOSOMA*.

Sealeina Fowler, 478; orthotype *MYLESTES LIPPINCOTTIANUS* Cope.

2084. FOWLER (1907). *Some New and Little Known Percoid Fishes.* Proc. Acad. Nat. Sci. Phila., LVIII, 510-528. (Feb. 14, 1907.)

HENRY WEED FOWLER.

Boulengerina Fowler, 512; orthotype *DULES MATO* Lesson. Name preoccupied; replaced by *SAFOLE* Jordan.

Astrapogon Fowler, 527; orthotype *APOGONICHTHYS STELLATUS* Cope.

2085. FOWLER (1907). *Notes on Serranidæ.* Proc. Acad. Nat. Sci. Phila., LIX, 249-269. (Aug. 16, 1907.)

HENRY WEED FOWLER.

Chrysoperca Fowler, 250; orthotype *MORONE INTERRUPTA* Gill.

Eudulus Fowler, 264; orthotype *DULES AURIGA* Cuv. Substitute for *DULES* Cuv., regarded as preoccupied by *DULUS*, a genus of birds.

Callidulus Fowler, 265; orthotype *CENTROPRISTIS SUBLIGARIUS* Cope.

2086. FOWLER (1907). *A Collection of Fishes from Victoria, Australia.* Proc. Acad. Nat. Sci. Phila., LIX, 419-444.

HENRY WEED FOWLER.

Psychichthys Fowler, 419; orthotype *HYDROLAGUS WAITEI* Fowler.

Limiculina Fowler, 425; orthotype *CENTRISCUS HUMEROSUS* Rich. A synonym of *CENTRISCOPS* Gill.

Macleayina Fowler, 426; orthotype *HIPPOCAMPUS BLEEKERI* Fowler.

Castelnauia Fowler, 426; orthotype *SOLENOGNATHUS SPINOSISSIMUS* Gthr.

Lesueurina Fowler, 440; orthotype *L. PLATYCEPHALA* Fowler. (Written also *LESUEURIELLA*, a slip of proof-reading.)

2087. GRACIANOV (1907). *Versuch einer Uebersicht der Fische des Russischen Reiches in systematischer und geographischer Hinsicht.* (Text in Russian.) Trd. Otd. Ichtiol. Obsc. Akklimat. Moskva., 4, 1907, 1-567.

VALERIAN GRACIANOV.

Malacobatis Gracianov, 39; orthotype *RAJA MUCOSA* Pallas.

- Hexagrammoides** Gracianov, 289; orthotype *H. nudigenis* Gracianov, which is probably *HEXAGRAMMOS LAGOCEPHALUS* (Pallas) or perhaps *H. superciliosus* (Pallas). A synonym of *HEXAGRAMMOS* Steller. It is very briefly described from a specimen from Bering Island. "Division of the dorsal fin not complete; in the first dorsal about 20 rays." The name "*NUDIGENIS*" indicates scaleless cheeks, but *H. stelleri*, with the cheeks more fully naked, has more than 20 dorsal spines.
- Taurulus** Gracianov, 296; orthotype *COTTUS BUBALIS* Euphrasen.
- Trigrammus** Gracianov, 418; orthotype *ERNOGRAMMUS STROSHI* Schmidt.
- Pseudophidium** Gracianov, 420; orthotype *OPHIDIUM GIGANTEUM* Kittlitz.
2088. GRACIANOV (1907). *Uebersicht de Süswassercottiden des russischen Reiches*. Zool. Anz., XXXI, 1907, 654-660.
VALERIAN GRACIANOV.
- Cephalocottus** Gracianov, 659; orthotype *COTTUS AMBLYSTOMOPSIS* Schmidt.
- Mesocottus** Gracianov, 660; orthotype *COTTUS HAITEI* Dybowski.
2089. HAY (1907). *A New Genus and Species of Fossil Shark Related to Edestus Leidy*. Science (new ser.), XXVI, 1907, 22-24.
OLIVER PERRY HAY.
- Lissoprion** Hay, 22; orthotype *L. ferrieri* Hay (fossil).
2090. IHERING (1907). *Diverses especies novas de peixes nemathognathes de Brazil, notas preliminares*. Revista Mus. Paulista, n. s. I, 13-39.
RUDOLF VON IHERING.
- Rhamdioglanis** Ihering, 16; orthotype *R. frenatus* Ihering. A synonym of *IMPARFINIS* Eigenmann & Norris.
- Aspidoras** Ihering, 30; orthotype *A. rochei* Ihering.
- 2090A. IHERING (1907). *Notas Preliminares, fasciculo I*. Revista Mus. Paulista, I, 13-39.
RUDOLF VON IHERING.
- Rhamdioglanis** Ihering, 16; orthotype *R. frenatus* Ihering.
2091. JAEKEL (1907). *Ueber Pholidosteus die Mundung und die Körperform der Placodermen*. Sitzber. Ges. Naturf. Freunde, 1907, 170-186.
OTTO JAEKEL.
- Pholidosteus** Jaekel, 171; orthotype *P. friedelii* Jaekel.
2092. JORDAN (1907). *A Review of the Fishes of the Family Histiopteridae Found in the Waters of Japan, with a Note on Tephritis Günther*. Proc. U. S. Nat. Mus., XXXII, 235-239. (Mar. 12, 1907.)
DAVID STARR JORDAN.
- Gilchristia** Jordan, 236; orthotype *HISTIOPTERUS RICHARDSONI* Gilchrist. A synonym of *PSEUDOPENTACEROS* Blkr.
- Quadrarius** Jordan, 236; orthotype *PENTACEROS DECACANTHUS* Gthr.
- Quinquarius** Jordan, 236; orthotype *PENTACEROS JAPONICUS* Döderlein. To replace *PENTACEROS* Cuv. & Val., regarded as preoccupied, a question not yet decided.
- Zanclistius** Jordan, 236; orthotype *HISTIOPTERUS ELEVATUS* Ramsay & Ogilby.
- Evistias** Jordan, 237; orthotype *HISTIOPTERUS ACUTIROSTRIS* T. & S. (not *EVISTIUS* Gill).
- Velifracta** Jordan, 239; orthotype *PLEURONECTES SINENSIS* Lac. Substitute for *TEPHRITIS* Gthr., preoccupied in flies (Fabricius, 1799). A synonym of the earlier substitute, *TEPHRINECTES* Gthr.

2093. JORDAN (1907). *The Fossil Fishes of California, with Supplementary Notes on Other Species of Extinct Fishes*. Univ. Cal. Publ. Geol., V, 1907, 95-144.

DAVID STARR JORDAN.

- Xenesthes** Jordan, 120; orthotype *X. VELOX* Jordan (fossil).
Etringus Jordan, 121; orthotype *E. SCINTILLANS* Jordan (fossil).
Rogenio Jordan, 128; orthotype *R. SOLITUDINIS* Jordan (fossil).
Merriamella Jordan, 131; orthotype *M. DORYSSA* Jordan (a fossil stickleback). A synonym of *GASTEROSTEUS* L.
 136 **Knightia** Jordan, 131; orthotype *CLUPEA HUMILIS* Leidy (fossil); the name *HUMILIS* preoccupied; replaced by *KNIGHTIA EOCENA* Jordan.
Eobrycon Jordan, 140; orthotype *TETRAGONOPTERUS AVUS* Boulenger (fossil).

2094. JORDAN & HERRE (1907). *A Review of the Cirrhitoid Fishes of Japan* Proc. U. S. Nat. Mus., XXXIII, 157-167. (Oct. 23, 1907.)

DAVID STARR JORDAN; ALBERT CHRISTIAN HERRE (1868-).

- Isobuna** Jordan, 158; orthotype *PARACIRRHITES JAPONICA* Steind. A substitute for *PARACIRRHITES* Steind., preoccupied.

2095. JORDAN & SEALE (1907). *Fishes of the Islands of Luzon and Panay*. Bull. Bur. Fish., XXIV (1906), 1907, 1-48.

DAVID STARR JORDAN; ALVIN SEALE.

- Gennadius** Jordan & Seale, 37; orthotype *SEBASTES STOLICZKÆ* Day. A synonym of *CENTROGENYS* Rich., a Serranoid fish which resembles a Scorpaenoid.
Elates Jordan & Seale, 39; orthotype *E. THOMPSONI* Jordan & Seale.
Creisson Jordan & Seale, 43; orthotype *C. VALIDUS* Jordan & Seale.

2096. JORDAN & STARKS (1907). *Note on Otohime, a New Genus of Gurnards*. Proc. U. S. Nat. Mus., XXXII, 131-133.

DAVID STARR JORDAN; EDWIN CHAPIN STARKS.

- Otohime** Jordan & Starks, 131; orthotype *TRIGLA HEMISTICTA* T. & S. A near relative of *PTERYGOTRIGLA* Waite; perhaps a synonym.

2097. MATTHEW (1907). *A New Genus and a New Species of Silurian Fish*. Proc. and Trans. Roy. Soc. Canada, Series I, Sec. 4, pp. 7-9.

GEORGE FREDERICK MATTHEW.

- Ctenopleuron** Matthew, 7; orthotype *C. NEREPISENSE* Matthew (fossil OSTRACOPHORE, New Brunswick).

2098. MAWSON AND WOODWARD (1907). *On the Cretaceous Formation of Bahia (Brazil) and on Vertebrate Fossils Collected Therein*. Quart. Journ. Geol. Soc., 63, 1907, 128-138.

JOSEPH MAWSON; ARTHUR SMITH WOODWARD.

- Mawsonia** Woodward, 134; orthotype *M. GIGAS* Woodw. (fossil).

2099. MEEK (1907). *Synopsis of the Fishes of the Great Lakes of Nicaragua*. Field Columb. Mus. Pub. Zool., Ser. 7, 1907, 97-132.

SETH EUGENE MEEK.

- Erythrichthys** Meek, 114; orthotype *HEROS CITRINELLUS* Gthr. Name twice preoccupied.

2100. OGILBY (1907). *Symbranchiate and Apodal Fishes New to Australia*. Proc. Roy. Soc. Queensland, XX, 1906, 1-15.

JAMES DOUGLAS OGILBY.

- Rhabdura** Ogilby, 13; orthotype *MURÆNA MACRURA* Blkr. A synonym of *EMEN-
CHELYS* J. & E.
2101. OGILBY (1907). *Some New Pediculate Fishes*. Proc. Roy. Soc. Queens-
land, XX, 1906, 17-25.
JAMES DOUGLAS OGILBY.
- Rhycherus** Ogilby, 17; orthotype *R. WILDII* Ogilby.
- Tathicarpus** Ogilby, 19; logotype *T. BUTLERI* Ogilby.
- Æschynichthys** Ogilby, 25; orthotype *DICERATIAS BISPINOSUS* Gthr. Substitute for
DICERATIAS Gthr., regarded as preoccupied by a genus (*DICERATIA*) of
Mollusks.
2102. PELLÉGRIN (1907). *Sur un Poisson acanthopterygien éocène (Parapy-
gæus polyacanthus n. g. n. sp.)*. Bull. Soc. Philom. Paris, ser. 9, 171-179.
JACQUES PELLÉGRIN.
- Parapygæus** Pellégrin, 172; orthotype *P. POLYACANTHUS* Pellégrin (fossil).
2103. PELLÉGRIN (1907). *Siluride nouveau du Fouta-Djalou*. Bull. Museum
Paris, 1907, 25-27.
JACQUES PELLÉGRIN.
- Paramphilius** Pellégrin, 23; orthotype *P. TRICHOMYCTEROIDES* Pellégrin.
2104. REGAN (1907). *Pisces*. Biol. Centr. Amer., 1907, 33-168.
CHARLES TATE REGAN.
- Xenatherina** Regan, 64; orthotype *MENIDIA LISA* Meek.
- Pogonopoma** Regan, 205; orthotype *PLECOSTOMUS WERTHHEIMERI* Steind.
2105. REGAN (1907). *Descriptions of Two New Characinid Fishes from Argen-
tina*. Ann. Mag. Nat. Hist., 1907 (7), XIX, 261-2.
CHARLES TATE REGAN.
- Pogonocharax** Regan, 261; orthotype *P. REHI* Regan.
- Phoxinopsis** Regan, 262; orthotype *P. TYPICUS* Regan.
2106. REGAN (1907). *Descriptions of Two New Characinid Fishes from South
America*. Ann. Mag. Nat. Hist., XX, 1907, 402-403.
CHARLES TATE REGAN.
- Mimagoniates** Regan, 402; orthotype *M. BARBERI* Regan.
- Ctenocharax** Regan, 403; orthotype *C. BOGOTENSIS* Regan. Probably a synonym of
GRUNDULUS BOGOTENSIS Humboldt.
2107. RIBEIRO (1907). *Una novidade ichthyologica; Kosmos, Rio de Janeiro, IV*.
ALÍPIO DE MIRANDA RIBEIRO.
- Typhlobagrus** Ribeiro, 21; orthotype *T. KRONEI* Ribeiro.
2108. SAUVAGE (1907). *Sur les poissons de la famille des Cichlidæ trouvés dans
le terrain de Guelma*. Comptes Rendus, Acad. Sci., 145, 1907, 360-361.
HENRI ÉMILE SAUVAGE.
- Palæochromis** Sauvage, 361; logotype *P. DARESTI* Sauvage (fossil).
2109. WAITE (1907). *The Generic Name Crepidogaster*. Rec. Austr. Mus., VI,
1907.
EDGAR RAVENSWOOD WAITE.
- Aspasmagaster** Waite, 315; orthotype *CREPIDOGASTER TASMANIENSIS* Gthr. Substi-
tute for *CREPIDOGASTER* Gthr., preoccupied.

2110. WEBER (1907). *Süßwasserfische von Neu-Guinea; ein Beitrag zur Frage nach dem früheren Zusammenhang von Neu-Guinea und Australien. In Nova Guinea, V. Zoologie, Leiden, 1907, 529.*

MAX WEBER.

Glossolepis Weber, 241; orthotype *G. INCISUS* Weber.

2111. WOODWARD (1907). *The Fossil Fishes of the English Chalk. Pt. III. Monogr. Palæont. Soc., 61, 1907, 97-128.*

ARTHUR SMITH WOODWARD.

Dinelops Woodward, 121; orthotype *D. ORNATUS* Woodw. (fossil).

1908.

2112. BARBOUR (1908). *Notes on Rhinomuræna. Proc. Biol. Soc. Washington, XXI, 39-41.*

THOMAS BARBOUR (1884-).

Rhinechidna Barbour, 41; orthotype *RHINOMURÆNA ERITIMA* Jordan & Seale.

2113. BERG (1908). *Vorläufige Bemerkungen über die europäischasiatischen Salmonen, insbesondere die Gattung Thymallus. Ann. Mus. Zool. St. Petersburg, XII, 1908, 500-514.*

LEW SEMENOVICH BERG.

Salmothymus Berg, 502; orthotype *SALMO OBTUSIROSTRIS* Heckel.

Thymalloides Berg, 503; logotype *SALMO ARCTICUS* Pallas.

2114. BOULENGER (1908). *Diagnoses of New Fishes Discovered by Capt. E. L. Rhoades in Lake Nyassa. Ann. Mag. Nat. Hist., II, 1908, 238-243.*

GEORGE ALBERT BOULENGER.

Chilotilapia Boulenger, 243; orthotype *C. RHOADESII* Boulenger.

2115. DOLLO (1908). *Notolepis coatsi. Poisson pélagique nouveau recueilli par l'Expédition Antarctique Nationale Écossaise. Edinburgh, Proc. Roy. Soc., XXVIII, 58-65.*

LOUIS DOLLO.

Notolepis Dollo, 58; orthotype *N. COATSI* Dollo.

2116. EASTMAN (1908). *Devonian Fishes of Iowa. (With Special Description of the Auditory Organ and Other Soft Parts of Rhadinichthys deani Eastman . . . G. H. Parker.) Iowa Geol. Surv. Rept., XVIII (1907), 1908, 29-360.*

CHARLES ROCHESTER EASTMAN.

Palæophichthys Eastman, 253; orthotype *P. PARVULUS* Eastman (fossil). (CROSOPTERYGIAN from Illinois coal measures.)

2117. EIGENMANN (1908). *Preliminary Descriptions of New Genera and Species of Tetragonopterid Characins. (Zoological Results of the Thayer Brazilian Expedition.) Bull. Mus. Comp. Zool. Harvard Coll., LII, 1908, 191-106.*

CARL H. EIGENMANN.

Gymnocorymbus Eigenmann, 93; orthotype *G. THAYERI* Eigenmann.

Ctenobrycon Eigenmann, 94; orthotype *TETRAGONOPTERUS HAUXWELLIANUS* Cope.

Thayeria Eigenmann, 94; orthotype *T. OBLIQUA* Eigenmann.

- Psellogrammus** Eigenmann, 96; orthotype HEMIGRAMMUS KENNEDYI Eigenmann.
Poptella Eigenmann, 99; orthotype TETRAGONOPTERUS LONGIPINNIS Eigenmann.
Pristella Eigenmann, 99; orthotype HOLOPRISTES RIDDEII Meek.
Hyphessobrycon Eigenmann, 100; orthotype HEMIGRAMMUS COMPRESSUS Meek.
Brycochandus Eigenmann, 106; orthotype B. DURBINI Eigenmann.
2118. FOWLER (1908). *Notes on Lancelets and Lampreys*. Proc. Acad. Nat. Sci. Phila., LIX, 1908, 461-466. (Jan. 27, 1908.)
 HENRY WEED FOWLER.
Oceanomyzon Fowler, 461; orthotype O. WILSONI Fowler.
2119. GARMAN (1908). *New Plagiostomia and Chismopnea*. Bull. Mus. Comp. Zool. Harvard Coll., LI, 249-256.
 SAMUEL GARMAN.
Aëtomylæus Garman, 252; orthotype MYLIOBATIS MACULATUS Gray.
2120. JORDAN & BRANNER (1908). *The Cretaceous Fishes of Ceará, Brazil*. Smithsonian. Inst. Misc. Collect., LII, 1908, 1-29.
 DAVID STARR JORDAN; JOHN CASPER BRANNER (1850-).
Tharrhias Jordan & Branner, 13; orthotype T. ARARIPIS Jordan & Branner (fossil).
Enneles Jordan & Branner, 23; orthotype E. AUDAX Jordan & Branner (fossil).
Cearana Jordan & Branner, 27; orthotype C. ROCHÆ Jordan & Branner (fossil).
2121. JORDAN & RICHARDSON (1908). *A Review of the Flat-Heads, Gurnards, and Other Mail-Cheeked Fishes of the Waters of Japan*. Proc. U. S. Nat. Mus., XXXIII, 629-670.
 DAVID STARR JORDAN; ROBERT EARL RICHARDSON (1878-).
Rogadius Jordan & Richardson, 630; orthotype PLATYCEPHALUS ASPER Cuv. & Val.
Bambradon Jordan & Richardson, 643; orthotype BEMBRAS LÆVIS Nyström.
Ebisinus Jordan & Richardson, 665; orthotype DACTYLOPTERUS CHIROPHTHALMUS Blkr.
Dactyloptena Jordan & Richardson, 665; orthotype DACTYLOPTERUS ORIENTALIS Cuv. & Val.
Daicocus Jordan & Richardson, 667; orthotype DACTYLOPTERUS PETERSENI Nyström.
2122. JORDAN & RICHARDSON (1908). *Fishes from the Islands of the Philippine Archipelago*. Bull. Bur. Fish, XXVII (1907), 1908, 233-287.
 DAVID STARR JORDAN; ROBERT EARL RICHARDSON. C. V. G.
Aparrius Jordan & Richardson, 278; orthotype A. ACUTIPINNIS Jordan & Richardson.
2123. JORDAN & SNYDER (1908). *Descriptions of Three New Species of Carangoid Fishes from Formosa*. Mem. Carneg. Mus., IV, 37-40.
 DAVID STARR JORDAN; JOHN OTTERBEIN SNYDER.
Ulua Jordan & Snyder, 39; orthotype U. RICHARDSONI Jordan & Snyder.
2124. JORDAN & STARKS (1908). *On a Collection of Fishes from Fiji, with Notes on Certain Hawaiian Fishes*. Proc. U. S. Nat. Mus., XXXIV. (Sept. 14, 1908.)
 DAVID STARR JORDAN; EDWIN CHAPIN STARKS.
Rastrelliger Jordan & Starks, 607; orthotype SCOMBER BRACHYSOMUS Blkr.
2125. OGILBY (1908). *New or Little Known Fishes in the Queensland Museum*. Ann. Queensland Mus., IX, Pt. 1, 1908, 1-41.
 JAMES DOUGLAS OGILBY.

Cirriscyllium Ogilby, 4; orthotype *CHILOSCYLLIUM MODESTUM* Gthr. A synonym (due to oversight) of *BRACHÆLURUS* Ogilby.

Nemapteryx Ogilby, 10; orthotype *ARIUS STIRLINGI* Ogilby.

Anyperistius Ogilby, 11; orthotype *A. PERUGLE* Ogilby = *EUMEDA ELONGATA* Perugia, not of Castelnau, which is the young of *NEOSILURUS HYRTLII* Steind. A synonym of *TANDANUS* Mitchell.

Jenynsella Ogilby, 15; orthotype *J. WEATHERILLI* Ogilby. A synonym of *RETROPINNA* Gill.

Squalomugil Ogilby, 28; orthotype *MUGIL NASUTUS* De Vis. A synonym of *RHINO-MUGIL* Gill.

2126. OGILBY (1908). *Revision of the Batrachoididæ of Queensland*. Ann. Queensland Mus., IX, pt. 2, 43-57. (These genera of Toad-fishes had been indicated, not described, by Ogilby in the Ann. Rept. Amateur Fishermen's Association, Queensland, 1907.)

JAMES DOUGLAS OGILBY.

Batrachomœus Ogilby, 46; orthotype *B. BROADBENTI* Ogilby. Perhaps a synonym of *PSEUDOBATRACHUS* Castelnau, imperfectly described.

Halobatrachus Ogilby, 46; orthotype *BATRACHUS DIDACTYLUS* Bl. & Schn.

Coryzichthys Ogilby, 51; orthotype *BATRACHUS DIEMENSIS* Ogilby.

2127. OGILBY (1908). *Descriptions of New Queensland Fishes*. Proc. Roy. Soc. Queensland, XXI, 1908, 87-98.

JAMES DOUGLAS OGILBY.

Eurycaulus Ogilby, 91; orthotype *BELONE PLATYURA* Cuv. & Val. (gill rakers present; tail keeled). Name preoccupied; replaced by *TROPIDOCAULUS* Ogilby.

Stenocaulus Ogilby, 91; orthotype *BELONE KREFFTI* Gthr.

Pseudomycterus Ogilby, 94; orthotype *M. MACCULLOCHI* Ogilby. A synonym or section of *SCIÆNA* L.

2128. OGILBY (1908). *On New Genera and Species of Fishes*. Proc. Roy. Soc. Queensland, XXI, 1-26.

JAMES DOUGLAS OGILBY.

Ptenonotus Ogilby, 13; orthotype *EXOCÆTUS CIRRIGER* Peters.

Merogymnus Ogilby, 18; orthotype *M. EXIMIUS* Ogilby.

2129. PASCOE (1908). *Marine Fossils in the Yenangyaung Oil-Field, Upper Burma*. Records Geol. Surv. India, XXXVI, 135-142.

E. H. PASCOE.

Twingonia Pascoe, 138, pl. 18; (no specific name proposed) (fossil, Miocene). Described as a foraminifer, but later shown by E. W. Vredenburg to be a fish otolith or ear bone (*vide* Hussakof).

2130. PELLÉGRIN (1908). *Characinides Américains nouveaux de la Collection du Muséum d'Histoire Naturelle*. Bull. Mus. d'Hist. Nat. Paris, VII, 342-347.

JACQUES PELLÉGRIN.

Anostomoides Pellégrin, 346; orthotype *A. ANALIS* Pellégrin.

2131. REGAN (1908). *Report on the Marine Fishes Collected by Mr. J. Stanley Gardiner in the Indian Ocean*. Trans. Linn. Soc. London, XII, 1908, 217-225.

CHARLES TATE REGAN.

Borostomias Regan, 217; orthotype *B. BRAUERI* Regan.

Xenanthias Regan, 223; orthotype *X. GARDINERI* Regan.

Pogonoscorpis Regan, 236; orthotype *P. SEYCHELLENSIS* Regan.

Psammichthys Regan, 246; orthotype *P. NUDUS* Regan.

Sladenia Regan, 250; orthotype *S. GARDINERI* Regan.

2132. REGAN (1908). *Descriptions of New Fishes from Lake Candidius, Formosa, Collected by Dr. A. Moltrecht.* Ann. Mag. Nat. Hist., II, 1908, 358-360.

CHARLES TATE REGAN.

Parasbora Regan, 360; orthotype *P. MOLTRECHTI* Regan.

2133. REGAN (1908). *A Synopsis of the Fishes of the Subfamily Salanginae.* Ann. Mag. Nat. Hist. (8), II, 444-446.

CHARLES TATE REGAN.

Hemisanlx Regan, 444; orthotype *H. PROGNATHUS* Regan.

Parasalanx Regan, 444; logotype *P. GRACILLIMUS* Regan.

2134. REGAN (1908). *A New Generic Name for An Orectolobid Shark.* Ann. Mag. Nat. Hist., II, 1908, 454-455.

CHARLES TATE REGAN.

Heteroscyllium Regan, 455; orthotype *BRACHÆLURUS COLCLOUGHI* Ogilby.

2135. REGAN (1908). *A Collection of Fresh-Water Fishes Made by Mr. C. F. Underwood in Costa Rica.* Ann. Mag. Nat. Hist., II, 1908, 455-464.

CHARLES TATE REGAN.

Petalosoma Regan, 458; orthotype *P. CULTRATUM* Regan.

Xenorhynchichthys Regan, 461; orthotype *JOTURUS STIPES* J. & G.

Tomocichla Regan, 463; orthotype *T. UNDERWOODI* Regan.

2136. REGAN (1908). *A Revision of the Sharks of the Family Orectolobidae.* Proc. Zool. Soc. London, 1908, 347-364.

CHARLES TATE REGAN.

Eucrossorhinus Regan, 357; orthotype *CROSSORHINUS DASYPOGON* Blkr.

2137. RIBEIRO (1908). *Peixes da Ribeiro, resultados de excursao do Senhor Ricardo Krone . . .* Kosmos, Rio de Janeiro, V, 1-5.

ALIPIO DE MIRANDA RIBEIRO.

Cælorichthys Ribeiro, 2; orthotype *C. IPORANGÆ* Ribeiro.

2137A. RIBEIRO (1908). *Peixes, da Ribeiro, resultados de excursão do Sr. Ricardo Krone, membro correspondente do Museu Nacional do Rio de Janeiro,* V, 1-5.

ALIPIO DE MIRANDA RIBEIRO.

Kronichthys Ribeiro, 1; orthotype *K. SUBTERES* Ribeiro; a synonym of *HEMIPSILICHTHYS* Eigenmann.

2138. SEALE & BEAN (1908). *On a Collection of Fishes from the Philippine Islands, Made by Maj. Edgar A. Mearns, Surgeon, U. S. Army, with Descriptions of Seven New Species.* Proc. U. S. Nat. Mus., XXXII, 1908, 229-248.

ALVIN SEALE; BARTON APPLER BEAN.

Mearnsella Seale & Bean, 229; orthotype *M. ALESTES* Seale & Bean.

2139. SNYDER (1908). *Descriptions of Eighteen New Species and Two New Genera of Fishes from Japan and the Riu Kiu Islands.* Proc. U. S. Nat. Mus., XXXV, 93-111. (Oct. 30, 1908).

JOHN OTTERBEIN SNYDER.

Doryptena Snyder, 102; orthotype D. OKINAWÆ Snyder.

Xenisthmus Snyder, 105; orthotype X. PRORIGER Snyder.

2140. STARKS (1908). *On a Communication Between the Air-Bladder and the Ear in Certain Spiny-Rayed Fishes.* Science, XXVIII, 1908, 613-614.

EDWIN CHAPIN STARKS.

Adioryx Starks, 614; orthotype HOLOCENTRUM SUBORBITALE Gill.

2141. STEINDACHNER (1908). *Ueber eine im Rio Juraguà bei Joinville, im Staate S. Catharina, Brasilien . . . eine neue Characinengattung.* Anz. Ak. Wiss. Wien., LXV.

FRANZ STEINDACHNER.

Zungaropsis Steindachner, 7; orthotype Z. MULTIMACULATUS Steind.

Joinvillea Steindachner, 30; orthotype J. ROSÆ Steind. A synonym of DEUTERODON Eigenmann.

2142. TANAKA (1908). *Notes on Some Rare Fishes of Japan, with Descriptions of Two New Genera and Six New Species.* Journ. Coll. Sci. Tokyo, XXIII, Art. 13, 1-24.

SHIGEHO TANAKA.

Tetronarcine Tanaka, 2; orthotype T. TOKIONIS Tanaka.

Gymnosimenchelys Tanaka, 2; orthotype G. LEPTOSOMUS Tanaka.

Paraceratias Tanaka, 18; orthotype CERATIUS MITSUKURII Tanaka.

Owstonia Tanaka, 46; orthotype O. TOTOMIENSIS Tanaka.

2143. WOODWARD (1908). *The Fossil Fishes of the Hawkesbury Series at St. Petersburg.* Mem. Geol. Surv. New South Wales, Palæontology, X, pp. vi, 31.

ARTHUR SMITH WOODWARD.

Elpisopholis Woodward, 17; orthotype E. DUNSTANI Woodw. (fossil) (PALÆONISCIDÆ).

1909.

2144. ANNANDALE (1909). *Report on the Fishes Taken by the Bengal Fisheries Steamer "Golden Crown." Part I, Batoidei.* Mem. Ind. Mus. Calcutta, 2, no. 1, 1909, 1-58.

NELSON ANNANDALE.

Bengalichthys Annandale, 47; orthotype B. IMPENNIS Annandale.

2145. BEAN & WEED (1909). *Description of a New Skate (Dactylobatus armatus) from Deep Water off the Southern Atlantic Coast of the United States.* Proc. U. S. Nat. Mus., XXXVI, 1909, 459-561. (May 27, 1909.)

BARTON APPLER BEAN; ALFRED C. WEED.

Dactylobatus Bean & Weed, 459; orthotype D. ARMATUS Bean & Weed.

2146. BOULENGER (1909). *Descriptions of New Fresh-Water Fishes Discovered by Mr. G. L. Bates in South Cameroon.* Ann. Mag. Nat. Hist., IV, 1909, 186-188.

GEORGE ALBERT BOULENGER.

Champsoborus Boulenger, 187; orthotype C. PELLEGRINI Boulenger.

2147. BROOM (1909). *The Fossil Fishes of the Upper Karoo Beds of South Africa*. Ann. S. Afr. Mus., VII, 251-268.

ROBERT BROOM.

- Helichthys** Broom, 254; orthotype H. BROWNI Broom (fossil). (PALÆONISCID.)
Hydropessum, 266; orthotype H. TANNEMEYERI Broom (fossil). (Imperfect Fish, GANOID.)

2148. CLIGNY (1909). *Sur un nouveau genre de Zéïdes*. Comptes Rendus. Acad. Sci. Paris, 148, 1909, 873-874.

ADOLPHE CLIGNY.

- Parazenopsis** Cligny, 874; orthotype P. ARGENTEUS Cligny.

2149. COCKERELL (1909). *The Nomenclature of the American Fishes Usually Called Leuciscus and Rutilus*. Proc. Biol. Soc. Wash., XXII, 1909, 215-217.

THEODORE DRU ALISON COCKERELL.

- Temeculina** Cockerell, 216; orthotype LEUCISCUS ORCUTTI Eigenmann & Eigenmann.
Margariscus Cockerell, 217; orthotype CLINOSTOMUS MARGARITA Cope.

2150. COCKERELL & ALLISTON (1909). *The Scales of Some American Cypini-dæ*. Proc. Biol. Soc. Wash., XXII, 1909, 157-163.

THEODORE DRU ALISON COCKERELL; EDITH M. ALLISTON.

- Macrhybopsis** Cockerell & Alliston, 162; orthotype GOBIO GELIDUS Grd.

2151. COCKERELL & CALLAWAY (1909). *Observations on the Fishes of the Genus Notropis*. Proc. Biol. Soc. Wash., XXII, 1909, 189-196.

THEODORE DRU ALISON COCKERELL; OTIS CALLAWAY.

- Coccozenia** Cockerell & Callaway, 190; orthotype HYPSSILEPIS COCCOZENIS Cope. A synonym of COCCOTIS Jordan.

2152. DOLLO (1909). *Cynomacrurus piriei, poisson abyssal nouveau recueilli par l'Expédition Antarctique Nationale Écossaise*. Proc. Roy. Soc. Edinb., XXIX, 1909, 316-326.

LOUIS DOLLO.

- Cynomacrurus** Dollo, 316; orthotype C. PIRIEI Dollo.

2153. DURBIN (1909). *A New Genus and Twelve New Species of Tetragonopterid Characins*. (Reports on the Expedition to British Guiana of the Indiana University and the Carnegie Museum, 1908, No. 2.) Ann. Carneg. Mus., VI, 1909, 55-72.

MARION LEE DURBIN.

- Dermatocheir** Durbin, 55; orthotype D. CATABLEPTA Durbin.

2154. EIGENMANN (1909). *Some New Genera and Species of Fishes from British Guiana*. (Reports on the Expedition to British Guiana of the Indiana University and the Carnegie Museum, 1908, No. 1.) Ann. Carnegie Mus., VI, 1909, 4-54.

CARL H. EIGENMANN.

- Corymbophanes** Eigenmann, 5; orthotype C. ANDERSONI Eigenmann.
Lithogenes Eigenmann, 6; orthotype L. VILLOSUS Eigenmann.
Pterodiscus Eigenmann, 12; orthotype P. LEVIS Eigenmann.
Carnegiella Eigenmann, 13; orthotype GASTROPELECUS STRIGATUS Gthr.
Holobrycon Eigenmann, 33; orthotype BRYCON PESU M. & T.
Triurobrycon Eigenmann, 33; orthotype BRYCON LUNDII Lütken.

- Pœcilocharax** Eigenmann, 34; orthotype *P. BOVALII* Eigenmann.
Pœcilibrycon Eigenmann, 43; orthotype *P. HARRISONI* Eigenmann.
Archicheir Eigenmann, 46; orthotype *A. MINUTUS* Eigenmann.
Acanthophaelus Eigenmann, 52; orthotype *A. MELANZONUS* Eigenmann.
Tomeurus Eigenmann, 53; orthotype *T. GRACILIS* Eigenmann.
Microcharax Eigenmann, 55; orthotype *NANNOSTOMUS LATERALIS* Boulenger.
2155. EIGENMANN (1909). *The Fresh-Water Fishes of Patagonia, and An Examination of the Archiplata-Archihelenis Theory*. Princeton Univ., 3, (Zoology), 1909, 225-374.
 CARL H. EIGENMANN.
- Hatcheria** Eigenmann, 250; orthotype *H. PATAGONIENSIS* Eigenmann.
2156. GILCHRIST & THOMPSON (1909). *Descriptions of Fishes from the Coast of Natal, Pt. 2*. Ann. S. African Mus., VI, 1909, 213-276.
 J. D. F. GILCHRIST; WARDLAW THOMPSON.
- Chæropsodes** Gilchrist & Thompson, 260; orthotype *C. PICTUS* Gilchrist & Thompson.
2157. HUSSAKOF (1909). *The Systematic Relations of Certain American Arthrodiras*. Bull. Amer. Mus. Nat. Hist., XXVI, 263-272.
 LOUIS HUSSAKOF.
- Brachygnathus** Hussakof, 263; orthotype *DINICHTHYS MINOR* Newberry (fossil). Based on mandible and dorsomedian. Preoccupied; name replaced by *HUSSAKOFIA* Cossman.
- Dinognathus** Hussakof, 268; orthotype *D. FEROX* Hussakof (fossil). Dental element (fossil: Upper Devonian, Ohio).
2158. JAEKEL (1909). *Fischreste aus den Mamfe-Schiefern*. (In *Beiträge zur Geologie vom Kammerun, bearb., V. C. Guillemain.*) Abh. Geol. Landes Anst. (N. F.), H. 62, 1909 (1910), 392-398.
 OTTO JAEKEL.
- Proportheus** Jaekel, 396; orthotype *P. KAMERUNI* Jaekel (fossil).
2159. JORDAN & RICHARDSON (1909). *A Catalogue of the Fishes of the Island of Formosa or Taiwan, Based on the Collection of Dr. Hans Sauter*. Mem. Carneg. Mus., IV, No. 4, 1909, 159-204.
 DAVID STARR JORDAN; ROBERT EARL RICHARDSON.
- Candidia** Jordan & Richardson, 169; orthotype *OPSARIICHTHYS BARBATUS* Regan.
2160. PELLÉGRIN (1909). *Characinidés du Brésil, rapportés par M. Jobert*. Bull. Museum Paris, 1909, 147-153.
 JACQUES PELLÉGRIN.
- Curimatella** Pellégrin, 150; orthotype *CURIMATUS ALBURNUS* M. & T.
- Jobertina** Pellégrin, 151; orthotype *CHARICIDIUM INTERRUPTUM* Pellégrin.
2161. PELLÉGRIN (1909). *Characinidés américains nouveaux de la collection du Museum d'histoire naturelle*. Bull. Mus. Paris, 1908, 342-347.
 JACQUES PELLÉGRIN.
- Anostomoides** Pellégrin, 346; orthotype *A. ATRIANALIS* Pellégrin.
2162. SEALE (1909). *New Species of Philippine Fishes*. Philip. Journ. Sci., IV, 1909, 49-543.
 ALVIN SEALE.
- Biat** Seale, 532; orthotype *B. LUZONICA* Seale.
- Macgregorella** Seale, 533; orthotype *M. MOROANA* Seale.

2163. SNYDER (1909). *Descriptions of New Genera and Species of Fishes from Japan and the Riu Kiu Islands*. Proc. U. S. Nat. Mus., XXXVI, 1909, 597-610. (June 18, 1909.)

JOHN OTTERBEIN SNYDER.

Expedio Snyder, 606; orthotype *E. PARVULUS* Snyder.

Inu Snyder, 607; orthotype *I. KOMA* Snyder.

2164. STECHE (1909). *Die Leuchtorgane von . . . zwei Oberflächenfischen aus dem Malaischen Archipel*. Zeit. Wiss. Zool. XCIII.

OTTO STECHE.

Protoblepharon Steche, about 400; orthotype *P. PALPEBRATUS*.

2165. TANAKA (1909). *Descriptions of One New Genus and Ten New Species of Japanese Fishes*. Journ. Coll. Sci. Tokyo, XXVII, 1-27.

SHIGEHO TANAKA.

Anteliochimæra Tanaka, 1; orthotype *A. CHÆTIRHAMPUS* Tanaka.

2166. TOULD (1909). *Eine jungstäre Fauna von Gatun am Panama-kanal*. Wien. Jahrb. Geol. Rechs. Anst., LVIII, 1908 (1909), 673-760.

FRANZ TOULD.

Scaroides Toul, 687; orthotype *S. GATUNENSIS* Tould.

2167. WAITE (1909). *Scientific Results of the New Zealand Government Trawling Expedition*. Rec. Canterbury Mus., I. (July, 1909.)

EDGAR RAVENSWOOD WAITE.

Typhlonarke Waite, 16; orthotype *ASTRAPE AYSONI* Hamilton.

Arhynchobatis Waite, 20; orthotype *A. ASPERRIMUS* Waite.

2168. WEBER (1909). *Diagnosen neuer Fische der Siboga-Expedition*. Leiden; Notes Mus. Jentink, XXXI, 1909, 143-169.

MAX WEBER.

Rhabdamia Weber, 165; orthotype *R. CLUPEIFORMIS* Weber.

Siphamia Weber, 168; orthotype *S. TUBIFER* Weber.

1910.

2169. BOULENGER (1910). *On a Large Collection of Fishes Made by Dr. W. J. Ansorge in the Quanza and Bengo Rivers, Angola*. Ann. Mag. Nat. Hist., VI, 1910, 537-561.

GEORGE ALBERT BOULENGER.

Xenopomaticthys Boulenger, 542; orthotype *X. ANSORGHII* Boulenger.

Nematogobius Boulenger, 560; orthotype *N. ANSORGHII* Boulenger.

2170. CHAPMAN (1910). *A Study of the Batesford Limestone*. Proc. Roy. Soc. Vict. Melbourne, XX, 307.

FREDERICK REVANS CHAPMAN.

Metaceratodus Chapman, 25; orthotype *CERATODUS WOLLASTONI* Chapman (fossil).

2171. COCKERELL (1910). *The Scales of the African Cyprinid Fishes, with a Discussion of Related Asiatic and European Species*. Proc. Biol. Soc. Wash., XXIII, 141-152.

THEODORE DRU ALISON COCKERELL.

Acapoëta Cockerell, 149; orthotype *VARICORHINUS TANGANICÆ* Boulenger.

2172. COSSMAN (1910). *Rectifications de Nomenclature*. Revue Critique Paléozoologie, XIV, 74.

MAURICE COSSMAN.

Hussakofia Cossman, 74; orthotype *DINICHTHYS MINOR* Newberry (fossil). (ARTHRODIRE; Devonian, Ohio.) Substitute for *BRACHYGNATHUS* Hussakof, twice preoccupied.

2173. EIGENMANN (1910). *Catalogue and Bibliography of the Fresh-Water Fishes of Temperate and South Temperate America*. (Rept. Princeton Univ. Expedition to Patagonia, 1896, 1899, III, Pt. 2) Zoology, 375-511.

CARL H. EIGENMANN.

Megalonema Eigenmann, 383; orthotype *M. PLATYCEPHALUM* Eigenmann.

Hollandichthys Eigenmann, about 400; orthotype *H. MULTIFASCIATUS* Eigenmann & Norris.

2174. FOWLER (1910). *Notes on Batoid Fishes*. Proc. Acad. Nat. Sci. Phila., LXII, 1910, 468-475. (Aug. 17, 1910.)

HENRY WEED FOWLER.

Discotrygon Fowler, 468; orthotype *DISCOBATIS MARGINIPINNIS* Macleay & Macleay = *RAIA LYMMA* Forskål. A synonym of *TÆNIURA* M. & H. Name a substitute for *DISCOBATIS* Macleay & Macleay, regarded as preoccupied by *DISCOBATUS*.

Eunarce Fowler, 472; orthotype *TORPEDO NARKE* Risso.

Pteroplatytrygon Fowler, 474; orthotype *TRYGON VIOLACEUM* Bon.

2175. FOWLER (1910). *Descriptions of Four New Cyprinoids (Rhodeinæ)*. Proc. Acad. Nat. Sci. Phila., LXII, 1910, 476-486. (Aug. 17, 1910.)

HENRY WEED FOWLER.

Rhodeops Fowler, 479; orthotype *ACHEILOGNATHUS BREVIANALIS* Fowler.

Hemigrammocypripis Fowler, 483; orthotype *H. RASBORELLA* Fowler.

2176. FRAAS (1910). *Chimäridenreste aus dem oberen Lias von Holzmaden*. Stuttgart, Jahreshefte Ver. Natk., LXVI, 1910, 55-63.

OSCAR FRIEDRICH FRAAS.

Acanthorhina Fraas, 55; orthotype *A. JAEKELI* Fraas (fossil) (not *ACANTHORHINUS* Blainv.).

2177. FRANZ (1910). *Die Japanischen Knochfische der Sammlungen Haberer und Döflein*. (Beiträge zur Naturgeschichte Ostasiens.) München Abh. Ak. Wiss. Math.-Phys. Kl. Suppl.-Bd., IV, 1910 (1911), Abh. 1, 1-135.

VIKTOR FRANZ.

Parabarbatus Franz, 8; orthotype *P. HABILIS* Franz.

Cryptophthalmus Franz, 15; orthotype *C. ROBUSTUS* Franz. Name preoccupied; replaced by *UNAGIUS* Jordan, 1919.

Osteochromis Franz, 43; orthotype *O. LARVATUS* Franz.

Plagiopsetta Franz, 64; orthotype *P. GLOSSA* Franz.

Trypauchenophrys Franz, 68; orthotype *T. ANOTUS* Franz.

2178. GILBERT (1910) *Evesthes jordani, a Primitive Flounder from the Miocene of California*. Cal. Univ. Publ. Bull. Dept. Geol., V, 1910, 405-411.

JAMES ZACCHEUS GILBERT.

- Evesthes** J. Z. Gilbert, 407; orthotype *E. JORDANI* Gilbert (fossil).
2179. HAY (1910). *On Edestus and Related Genera*. Proc. U. S. Nat. Mus., XXXVII, 43-61.
OLIVER PERRY HAY.
- Toxoprion** Hay, 56; orthotype *EDESTEUS LECONTEI* Dean (fossil). (ELASMOBRANCH from Nevada.)
2180. HOLT & BYRNE (1910). *Preliminary Diagnosis of a New Stomioid Fish from Southwest of Ireland*. Ann. Mag. Nat. Hist., VI.
E. W. L. HOLT; L. W. BYRNE.
- Grammatistomias** Holt & Byrne, 295; orthotype *G. FLAGELLIBARBA* Holt & Byrne.
2181. JORDAN (1910). *Description of a Collection of Fossil Fishes from the Bituminous Shales at Riacho Doce, State of Alagoas, Brazil*. Ann. Carneg. Mus., VII, 1910, 23-34.
DAVID STARR JORDAN.
- Ellipes** Jordan, 24; orthotype *E. BRANNERI* Jordan (fossil). Name preoccupied; replaced by *ELLIMMA* Jordan, 1913.
- Dastilbe** Jordan, 29; orthotype *D. CRANDALLI* Jordan (fossil).
2182. JORDAN & RICHARDSON (1910). *A Review of the Serranida or Sea Bass of Japan*. Proc. U. S. Nat. Mus., XXXVII, 1910, 421-474.
DAVID STARR JORDAN; ROBERT EARL RICHARDSON.
- Zalanthias** Jordan & Richardson, 460; orthotype *PSEUDANTHIAS KELLOGGI* Jordan & Richardson.
- Sacura** Jordan & Richardson, 468; orthotype *ANTHIAS MARGARITACEUS* Hilgendorf.
2183. OGILBY (1910). *On New or Insufficiently Described Fishes*. Proc. Roy. Soc. Queensland, XXIII, 1910, 1-55.
JAMES DOUGLAS OGILBY.
- Xystodus** Ogilby, 5; orthotype *X. BANFIELDI* Ogilby.
- Chilias** Ogilby, 40; orthotype *PERCA STRICTICEPS* De Vis. A synonym of *PARAPERCS* Blkr.
- Cyneichthys** Ogilby, 55; orthotype *BLENNECHIS ANOLIUS* Cuv. & Val.
- Runulops** Ogilby, 55; orthotype *BLENNECHIS FASCIATUS* Jenyns ("two South American species described by Jenyns," *B. FASCIATUS* and *B. ORNATUS* from Chile).
2184. OGILBY (1910). *On Some New Fishes from the Queensland Coast. Endeavour Series, I*. Proc. Roy. Soc. Queensland, XXIII, 1910, 85-139. (On account of a misunderstanding which does not concern the present work, this paper was suppressed by the Royal Society of Queensland, only a few separates being sent out. The new species have been elsewhere described by McCulloch.)
JAMES DOUGLAS OGILBY.
- Hyalorhynchus** Ogilby, 118; orthotype *H. PELLUCIDUS* Ogilby = *ELATES THOMPSONI* Jordan & Richardson. A synonym of *ELATES* Jordan & Richardson.
2185. PAVLENKO (1910). *Fishes of Peter the Great Bay*. (Text in Russian.) Trd. Obsc. Jest, Kazani, 42, 1910, 2, 1-5.
M. N. PAVLENKO.

Agonocottus Pavlenko, 23; orthotype *A. CATAPHRACTUS* Pavlenko.

Askoldia Pavlenko, 50; orthotype *A. VARIEGATA* Pavlenko.

2186. PREOBRAZHENSKII (1910). *Ueber einige Vertreter der Familie der Psammosteida* Ag. S. B. Naturf. Ges. Univ. Jurjew. (Dorpat) IX, 21-36. (Text in Russian.)

J. A. PREOBRAZHENSKII.

Pycnosteus Preobrazhenskii, 34; orthotype *P. PALÆFORMIS* Preobrazhenskii (fossil). An imperfect dorsal plate of a Devonian OSTRACOPHORE. Probably a synonym of *PSAMMOSTEUS* Ag.

Dyptychosteus Preobrazhenskii, 35; orthotype *D. TESSELLATUS* Preobrazhenskii (fossil) (not *PSAMMOSTEUS TESSELLATUS* Traquair). Probably same as *PSAMMOSTEUS PARADOXUS*. Dorsal plate of a Devonian OSTRACOPHORE. A synonym of *PSAMMOSTEUS* Ag.

2187. SAUVAGE (1910). *Bull. Carte Geol. Algérie, 1910.*

HENRI ÉMILE SAUVAGE.

Palæochromis Sauvage, 308; orthotype *P. DORESTII* Sauvage.

2188. STOLLEY (1910). *Ueber mesozoischen Fischotolithen aus Norddeutschland.* Jahresbericht des Niedersächsischen Geol. Vereins, III, 246-257. (Reprinted with separate pagination in Hannover, 1912.)

ERNST STOLLEY.

Archæotolithus Stolley, 248; orthotype *OTOLITHUS BORNHOLMIENSIS* Malling & Grönwall, 1909 (fossil). Otolith from Lias of Denmark.

2189. WAITE (1911). *Additions to the Fish Fauna of New Zealand.* Proc. New Zealand Inst., 1910, 25-26.

EDGAR RAVENSWOOD WAITE.

Maccullochia Waite, 25; orthotype *HISTIOPTERUS LABIOSUS* Gthr. A substitute for *RICHARDSONIA* Castelnau, preoccupied. A synonym of *PARISTIOPTERUS* Blkr., 1876.

2190. WAITE (1910). *Notes on New Zealand Fishes.* Trans. N. Zeal. Inst., XLII, 1910, 384-391.

EDGAR RAVENSWOOD WAITE.

Triareus Waite, 387; orthotype *MAUROLICUS AUSTRALIS* Hector.

2191. WEYMOUTH (1910). *Notes on a Collection of Fishes from Cameron, Louisiana.* Proc. U. S. Nat. Mus., XXXVIII.

FRANK WALTER WEYMOUTH.

Leptocerdale Weymouth, 142; orthotype *L. LONGIPINNIS* Weymouth.

2192. WOODWARD (1910). *On Some Permo-Carboniferous Fishes from Madagascar.* Ann. Mag. Nat. Hist., V, 1910, 1-6.

ARTHUR SMITH WOODWARD.

Ecrinesomus Woodward, 2; orthotype *E. DIXONI* Woodw. (fossil).

2193. WOODWARD (1910). *On a Fossil Sole and a Fossil Eel from the Eocene of Egypt.* Geol. Mag. London, VII, 1910, 402-405.

ARTHUR SMITH WOODWARD.

Mylomyrus Woodward, 404; orthotype *M. FRANGENS* Woodw. (fossil).

1911.

2194. BOULENGER (1911). *Descriptions of New African Cyprinodont Fishes*. Ann. Mag. Nat. Hist. (8), VIII, 260-268.
 GEORGE ALBERT BOULENGER.
Mohanga Boulenger, 261; orthotype HAPLOCHILUS TANGANICANUS Boulenger. Same as LAMPRICHTHYS Regan, a little later in the same year.
2195. BOULENGER (1911). *Catalogue of the Fresh-Water Fishes of Africa in the British Museum*. London, 1911, 1-529.
 GEORGE ALBERT BOULENGER.
Parauchenoglanis Boulenger, 364; orthotype PIMELODUS GUTTATUS Lönnberg. The name GUTTATUS is preoccupied in PIMELODUS.
2196. BOULENGER (1911). *On a Third Collection of Fishes Made by Dr. E. Bayon in Uganda, 1909-1910*. Genova Annal. Museo Civico. Ser. 3a, V, 1911, 64-78.
 GEORGE ALBERT BOULENGER.
Bayonia Boulenger, 70; orthotype B. XENODONTA Boulenger.
2197. DEECKE (1911). *Paleontologische Betrachtungen*. IV. Ueber Fische. Neues. Jahrb. Mineral., II.
 JOHANNES ERNEST WILHELM DEECKE (1862-).
Perleidus Deecke, 70; orthotype P. ALTOLEPIS Deecke (fossil).
2198. EIGENMANN (1911). *New Characins in the Collection of the Carnegie Museum*. Ann. Carnegie Mus., VIII, 1911, 164-181.
 CARL H. EIGENMANN.
Probolodus Eigenmann, 164; orthotype P. HETEROSTOMUS Eigenmann.
Psalidodon Eigenmann, 165; orthotype P. GYMNODONTUS Eigenmann.
Spintherobolus Eigenmann, 167; orthotype S. PAPILLIFERUS Eigenmann.
Glandulocauda Eigenmann, 168; logotype G. MELANOGENYS Eigenmann.
Hysteronotus Eigenmann, 171; orthotype H. MEGALOSTOMUS Eigenmann.
Vesicatrux Eigenmann, 174; orthotype V. TEGATUS Eigenmann.
2199. EIGENMANN (1911). *Descriptions of Two New Tetragonopterid Fishes in the British Museum*. Ann. Mag. Nat. Hist. (8), VII, 1911, 215-216.
 CARL H. EIGENMANN.
Nematobrycon Eigenmann, 215; orthotype N. PALMERI Eigenmann.
Knodus Eigenmann, 216; orthotype K. MERIDÆ Eigenmann.
2200. ELLIS (1911). *On the Species of Hasemania, Hyphessobrycon, and Hemigrammus Collected by J. D. Haseman for the Carnegie Museum*. Ann. Carnegie Mus., VIII, 1911, 148-164.
 MARIAN LEE ELLIS.
Hasemania Ellis, 148; orthotype H. MAXILLARIS Ellis.
2201. FOWLER (1911). *A New Albuloid Fish from Santo Domingo*. Proc. Acad. Nat. Sci. Phila., LXII, 1911, 651-654 (Jan. 27, 1911).
 HENRY WEED FOWLER.
Dixonina Fowler, 651; orthotype D. NEMOPTERA Fowler.
2202. FOWLER (1911). *Notes on Clupeoid Fishes*. Proc. Acad. Nat. Sci. Phila., LXIII, 1911, 204-211. (Apr. 6, 1911.)
 HENRY WEED FOWLER.

- Heringia** Fowler, 207; orthotype *CLUPEA AMAZONICA* Steind.
Gudusia Fowler, 207; orthotype *CLUPANODON CHAPRA* Ham.
Anchoviella Fowler, 211; orthotype *ENGRAULIS PERFASCIATUS* Poey. A synonym of *STOLEPHORUS* Lac., as restricted by Blkr.
2203. FOWLER (1911). *Some Fishes from Venezuela*. Proc. Acad. Nat. Sci. Phila., LXIII, 1911, 419-437. (July 27, 1911.)
 HENRY WEED FOWLER.
Apodastyanax Fowler, 422; orthotype *A. STEWARDSONI* Fowler.
2204. FOWLER (1911). *New Fresh-Water Fishes from Western Equador*. Proc. Acad. Nat. Sci. Phila., LXVIII, 1911, 493-520.
 HENRY WEED FOWLER.
Rhoadsia Fowler, 497; orthotype *R. ALTIPINNA* Fowler.
2205. HASEMAN (1911). *Descriptions of Some New Species of Fishes, and Miscellaneous Notes on Others Obtained during the Expedition of the Carnegie Museum to Central South America*. Ann. Carneg. Mus., VII, 315-328.
 JOHN D. HASEMAN.
Cephalosilurus Haseman, 317; orthotype *C. FOWLERI* Haseman.
Acestridium Haseman, 319; orthotype *A. DISCUS* Haseman.
Platysilurus Haseman, 320; orthotype *P. BARBATUS* Haseman.
2206. HASEMAN (1911). *Some New Species of Fishes from the Rio Iguassu*. Ann. Carnegie Mus., VII, 374-387.
 JOHN D. HASEMAN.
Rhamdiopsis Haseman, 375; orthotype *R. MOREIRAI* Haseman.
2207. JORDAN & EVERMANN (1911). *A Review of the Salmonoid Fishes of the Great Lakes, with Notes on the White-Fishes of Other Regions*. Bull. U. S. Bureau of Fisheries for 1909 (1911), 1-41.
 DAVID STARR JORDAN; BARTON WARREN EVERMANN.
Cisco Jordan & Evermann, 3; orthotype *ARGYROSOMUS NIGRIPINNIS* Gill.
Thrissomimus (Gill) Jordan & Evermann, 4; orthotype *COREGONUS ARTEDI* Le Sueur. Substitute for *ARGYROSOMUS* Ag., preoccupied.
- 2207A. JORDAN & THOMPSON (1911). *A Review of the Scienoid Fishes of Japan*. Proc. U. S. Nat. Mus. for 1911 (Jan. 30), 241-261.
 DAVID STARR JORDAN; WILLIAM FRANCIS THOMPSON.
Nibeia Jordan & Thompson, 246; orthotype *SCIENA MITSUKURII* Jordan & Snyder.
Othonias Jordan & Thompson, 246; orthotype *SCIENA MANCHURICA* Jordan & Thompson.
2208. JORDAN & THOMPSON (1911). *A Review of the Families Lobotidæ and Lutianidæ Found in the Waters of Japan*. Proc. U. S. Nat. Mus., XXXIX, 435-471. (Jan. 30, 1911.)
 DAVID STARR JORDAN; WILLIAM FRANCIS THOMPSON (1888-).
Etelinus Jordan & Thompson, 465; orthotype *ETELIS MARSHI* Jenkins.
2209. KENDALL & GOLDSBOROUGH (1911). *The Shore Fishes. (Reports on the Scientific Results of the Expedition to the Tropical Pacific in Charge of Alexander Agassiz, by the U. S. Fish Comm. Steamer "Albatross," from August, 1899, to March, 1900, Commander Jefferson F. Moser, U. S. N., Commanding, 13.)* Mem. Mus. Comp. Zool. Harvard Coll., XXVI, 1911, 239-344.
 WILLIAM CONVERSE KENDALL; EDMUND LEE GOLDSBOROUGH.

Paragobioides Kendall & Goldsborough, 324; orthotype *P. GRANDOCULIS* Kendall & Goldsborough.

2210. KREYENBERG (1911). *Eine neue Cobitinen-Gattung aus China*. Zool. Anz., XXXVIII, 417-419.

M. KREYENBERG.

Gobiobotia Kreyenberg, 417; orthotype *G. PAPPENHEIMI* Kreyenberg.

2211. McCULLOCH (1911). *Report on the Fishes Obtained by the F. I. S. "Endeavour" on the Coast of New South Wales, Victoria, South Australia, and Tasmania. Part I. Zoological Results of the Fishing Experiments carried Out by the F. I. S. "Endeavour," 1909-1910, I, 1911, 1-87.*

ALLEN RIVERSTON McCULLOCH.

Austroberyx McCulloch, 39; orthotype *BERYX AFFINIS* Gthr. A synonym of *TRACHICHTHODES* Gilchrist.

2212. OGILBY (1911). *Description of New or Insufficiently Described Fishes from Queensland Waters*. Ann. Queensland Mus., X, 1911, 36-58.

JAMES DOUGLAS OGILBY.

Apistops Ogilby, 54; orthotype *APISTUS CALOUNDRA* De Vis.

Paratrigla Ogilby, 56; orthotype *TRIGLA PLEURACANTHICA* Ogilby.

2213. REGAN (1911). *The Anatomy and Classification of the Teleostean Fishes of the Orders Berycomorphi and Xenoberyces*. Ann. Mag. Nat. Hist. (8), VII, 1-9.

CHARLES TATE REGAN.

Caproberyx Regan, 8; orthotype *BERYCOPSIS MAJOR* Woodw. (fossil).

2214. REGAN (1911). *The Anatomy and Classification of the Teleostean Fishes of the Order Iniomi*. Ann. Mag. Nat. Hist. (8), VII, 120-133.

CHARLES TATE REGAN.

Hemipterois Regan, 126; orthotype *BATHYPTEROIS GUENTHERI* Alcock.

Bathysauropsis Regan, 126; orthotype *CHLOROPHTHALMUS GRACILIS* Gthr.

Parasudis Regan, 127; orthotype *CHLOROPHTHALMUS TRUCULENTUS* G. & B.

2215. REGAN (1911). *A Synopsis of the Marsipobranchs of the Order Hypoartii*. Ann. Mag. Nat. Hist. (8), VII, 193-204.

CHARLES TATE REGAN.

Eudontomyzon Regan, 200; orthotype *E. DANFORDI* Regan.

2216. REGAN (1911). *The Classification of the Teleostean Fishes of the Order Synentognathi*. Ann. Mag. Nat. Hist. (8), VII, 327-335.

CHARLES TATE REGAN.

Lamprichthys Regan, 325; orthotype *HAPLOCHILUS TANGANICANUS* Boulenger. A synonym of *MOHANGA* Boulenger of a little earlier date.

Xenentodon Regan, 332; orthotype *BELONE CANCELA* Buchanan.

Xenopœcilus Regan, 374; orthotype *HAPLOCHILUS SARASINORUM* Popta.

2217. REGAN (1911). *The Classification of the Teleostean Fishes of the Order Ostariophysii. I. Cyprinoidea*. Ann. Mag. Nat. Hist. (8), VIII, 1911, 13-32.

CHARLES TATE REGAN.

Lepturichthys Regan, 31; orthotype *HOMALOPTERA FIMBRIATA* Gthr.

Hemimyzon Regan, 32; orthotype *HOMALOPTERA FORMOSANA* Boulenger.

2218. ROULE (1911). (*Certaines larves tiluriennes.*)
LOUIS ROULE (1861-).
Tiluropsis Roule, 329; orthotype a larval eel.
Tilurella Roule, 329; orthotype larval eel, not named in the Zoological Record.
2219. SNYDER (1911). *Descriptions of New Genera and Species of Fishes from Japan and the Riu Kiu Islands.* Proc. U. S. Nat. Mus., XL, 1911, 525-549. (May 26, 1911.)
JOHN OTTERBEIN SNYDER.
Jordanidia Snyder, 527; orthotype *J. RAPTORIA* Snyder.
Catalufa Snyder, 528; orthotype *C. UMBRA* Snyder.
Draculo Snyder, 545; orthotype *D. MIRABILIS* Snyder.
2220. STARKS & MANN (1911). *New and Rare Fishes from Southern California.* Univ. Calif. Pub. Zool., VIII, 9-19.
EDWIN CHAPIN STARKS; WILLIAM M. MANN.
Rusulus Starks & Mann, 14; orthotype *R. SABURRÆ* Starks & Mann.
Orthopnias Starks & Mann, 16; orthotype *O. TRIACIS* Starks & Mann.
2221. WAITE (1911). *Additions to the Fish Fauna of New Zealand, No. 2.* Proc. New Zealand Inst., 1910, 49-51. (June 24, 1911.)
EDGAR RAVENSWOOD WAITE.
Rexea Waite, 49; orthotype *R. FURCIFERA* Waite = *GEMPYLUS SOLANDRI* Cuv. & Val. A synonym of *JORDANIDIA* Snyder of slightly earlier date (May 26, 1911).
Pelotretis Waite, 50; orthotype *P. FLAVILATUS* Waite.
2222. ZUGMAYER (1911). *Poissons provenant des campagnes du yacht Princesse Alice.* Rés. Camp. Sci. Monaco, Fasc. 35, 1911, 1-159.
ERICH ZUGMAYER (1879-).
Asquamiceps Zugmayer, 10; orthotype *A. VELARIS* Zugmayer.
Nematostomias Zugmayer, 76; orthotype *N. GLADIATOR* Zugmayer.
Trichostomias Zugmayer, 78; orthotype *T. VAILLANTI* Zugmayer.
Poromitrella Zugmayer, 100; orthotype *P. NIGRICEPS* Zugmayer.
Platyberyx Zugmayer, 101; orthotype *P. OPALESCENS* Zugmayer.
Scopeloberyx Zugmayer, 103; orthotype *S. OPERCULARIS* Zugmayer.
Pachycara Zugmayer, 129; orthotype *P. PLAGIOPHTHALMUS* Zugmayer.
Barathrites Zugmayer, 132; orthotype *B. IRIS* Zugmayer.
Anotopterus Zugmayer, 138; orthotype *A. PHARAO* Zugmayer.
Benthalbella Zugmayer, 140; orthotype *B. INFANS* Zugmayer.

 1912.

2223. BARBOUR (1912). *Two Preoccupied Names.* Proc. Biol. Soc. Washington, XXV, 1912, 121-126.
THOMAS BARBOUR.
Calliblennius Barbour, 187; orthotype *ZACALLES BRYOPE* Jordan & Snyder. Substitute for *ZACALLES* Jordan & Snyder, preoccupied.
2224. BEAN (1912). *Descriptions of New Fishes of Bermuda.* Proc. Biol. Soc. Washington, XXV, 1912, 121-126.
TARLETON HOFFMAN BEAN.
Eucrotus Bean, 123; orthotype *E. VENTRALIS* Bean.

Parasphyrænops Bean, 124; orthotype *P. ATRIMANUS* Bean.

2225. BEAUFORT (1912). *On Some New Gobiidæ from Ceram and Waigeu*. Zool. Anz., XXXIX, 1912, 136-143.

LIEVEN FERDINAND DE BEAUFORT.

Schismatogobius Beaufort, 139; orthotype *S. BRUYNISI* Beaufort.

Stiphodon (Weber), Beaufort, 143; orthotype *SICYDIUM ELEGANS* Steind.

2226. BERG (1912). *Faune de la Russie et des pays limitrophes. Poissons (Marsipobranchii et Pisces)*. Vol. III. Pt. 1, 1-336, St. Petersburg.

LEW SEMENOWITCH BERG.

Pararutilus Berg, 43; orthotype *LEUCISCUS FRISIO* Nordman.

Acanthorutilus Berg, 42, 80; orthotype *OREOLEUCISCUS DSAPCHYNENSIS* Warpachowsky.

Hemiscaphirhynchus Berg, 309; orthotype *PSEUDOSCAPHIRHYNCHUS KAUFMANNI* Bogdanov.

2227. BOULENGER (1912). *Poissons recueillis dans la Région du Bas Congo par M. le Dr. W. J. Ansorge*. Ann. Mus. Congo, Bruxelles Zool., ser. 1, 2 fasc. 3, 1-25.

GEORGE ALBERT BOULENGER.

Ansorgia Boulenger, 17; orthotype *A. VITTATA* Boulenger.

2228. BURKE (1912). *A New Genus and Six New Species of the Family Cyclogasteridæ*. Proc. U. S. Nat. Mus., XLIII, 1912, 567-574.

CHARLES VICTOR BURKE.

Polypera Burke, 567; orthotype *P. GREENI* Burke.

2229. DUNCKER (1912). *Die Gattungen der Syngnathidæ*. Mett. Nat. Hist. Museum Hamburg, XXIX.

GEORG DUNCKER.

Acanthognathus Duncker, 228; orthotype *SYNGNATHUS DACTYLOPHORUS* Blkr.

Micrognathus Duncker, 235; orthotype *SYNGNATHUS BREVIROSTRIS* Rüppell.

2230. EIGENMANN (1912). *The Fresh-Water Fishes of British Guiana, including a Study of the Ecological Grouping of Species, and the Relation of the Fauna of the Plateau to that of the Lowlands*. Mem. Carnegie Mus., V, 1-578.

CARL H. EIGENMANN.

Chamaigenes Eigenmann, 120; orthotype *ASPREDO FILAMENTOSUS* Cuv. & Val.

Agmus Eigenmann, 128; orthotype *A. LYRIFORMIS* Eigenmann.

Megalonema Eigenmann, 150; orthotype *M. PLATYCEPHALUM* Eigenmann.

Microglanis Eigenmann, 155; orthotype *M. PECILUS* Eigenmann.

Brachyglanis Eigenmann, 156; orthotype *B. FRENATA* Eigenmann.

Leptoglanis Eigenmann, 158; orthotype *L. ESSEQUIBENSIS* Eigenmann.

Myoglanis Eigenmann, 159; orthotype *M. PATAROËNSIS* Eigenmann.

Chasmocranus Eigenmann, 160; orthotype *C. LONGIOR* Eigenmann.

Tympanopleura Eigenmann, 203; orthotype *T. PIPERATA* Eigenmann.

Ochmacanthus Eigenmann, 213; orthotype *O. FLABELLIFER* Eigenmann.

Lithoxus Eigenmann, 242; orthotype *L. LITHOIDES* Eigenmann.

Bivibranchia Eigenmann, 258; orthotype *B. PROTRACTILA* Eigenmann.

Tylobranchus Eigenmann, 271; orthotype *T. MACULOSUS* Eigenmann.

Aphyodite Eigenmann, 314; orthotype *A. GRAMMICA* Eigenmann.

- Acanthocharax** Eigenmann, 405; orthotype *A. MICROLEPIS* Eigenmann.
Heterocharax Eigenmann, 406; orthotype *H. MACROLEPIS* Eigenmann.
Gymnorhamphichthys Eigenmann, 436; orthotype *G. HYPOSOMUS* Eigenmann.
Porotergus Eigenmann, 441; orthotype *P. GYMNOTUS* Eigenmann.
Rhinosardinia Eigenmann, 445; orthotype *R. SERRATA* Eigenmann = *CLUPEA AMAZONICA* Steind. A synonym of *HERINGIA* Fowler, 1911.
Acarichthys Eigenmann, 500; orthotype *ACARA HECKELII* M. & T.
Soleonasus Eigenmann, 528; orthotype *S. FINIS* Eigenmann.
2231. EIGENMANN (1912). *Some Results of An Ichthyological Reconnaissance of Colombia, South America*. Indiana Univ. Studies, 1912, No. 8, 1-27.
 CARL H. EIGENMANN.
- Xiliphius** Eigenmann, 10; orthotype *X. MAGDALENÆ* Eigenmann.
Parastremma Eigenmann, 20; orthotype *P. SADINA* Eigenmann.
Genycharax Eigenmann, 22; orthotype *G. TARFON* Eigenmann.
Gephyrocharax Eigenmann, 24; orthotype *G. CHOCOËNSIS* Eigenmann.
2232. FOWLER (1912). *Descriptions of Nine New Eels, with Notes on Other Species*. Proc. Acad. Nat. Sci. Phila., LXIV, 1912, 8-33.
 HENRY WEED FOWLER.
- Microconger** Fowler, 9; orthotype *LEPTOCEPHALUS CAUDALIS* Fowler.
Ahynnodontophis Fowler, 25; orthotype *GYMNOTHORAX STIGMANOTUS* Fowler.
2233. GARMAN (1912). *Some Chinese Vertebrates. Pisces*. Mem. Comp. Zool. Harvard Coll., XL, 111-123.
 SAMUEL GARMAN.
- Ageneiogarra** Garman, 114; orthotype *GARRA IMBERBA* Garman.
Myloleuciscus Garman, 116; orthotype *M. ATRIPINNIS* Garman.
Coripareius Garman, 120; orthotype *C. CETOPSIS* Garman.
2234. GILBERT & BURKE (1912). *Fishes from the Bering Sea and Kamchatka*. Bull. Bur. Fish., XXX (1910), 1912, 31-96.
 CHARLES HENRY GILBERT; CHARLES VICTOR BURKE (1882-).
- Archaulus** Gilbert & Burke, 36; orthotype *ARCHAULUS BISERIATUS* Gilbert & Burke.
Thyriscus Gilbert & Burke, 43; orthotype *T. ANOPLUS* Gilbert & Burke.
Eurymen Gilbert & Burke, 64; orthotype *E. GYRINUS* Gilbert & Burke.
Elassodiscus Gilbert & Burke, 81; orthotype *E. TREMEBUNDUS* Gilbert & Burke.
Nectoliparis Gilbert & Burke, 82; orthotype *N. PELAGICUS* Gilbert & Burke.
Acantholiparis Gilbert & Burke, 83; orthotype *A. OPERCULARIS* Gilbert & Burke.
Gymnoclinus Gilbert & Burke, 86; orthotype *G. CRISTULATUS* Gilbert & Burke.
Alectridium Gilbert & Burke, 88; orthotype *A. AURANTIACUM* Gilbert & Burke.
2235. GILBERT & BURKE (1912). *New Cyclogasterid Fishes from Japan*. Proc. U. S. Nat. Mus., XLII, 1912, 351-380.
 CHARLES HENRY GILBERT; CHARLES VICTOR BURKE.
- Ateleobranchium** Gilbert & Burke, 97; orthotype *A. PTEROTUM* Gilbert & Burke.
2236. JORDAN (1912). *Note on the Generic Name Safole, replacing Boulengerina for a Genus of Kuhliid Fishes*. Proc. U. S. Nat. Mus., XLII, 1912, 655. (August 29, 1912.)
 DAVID STARR JORDAN.
- Safole** Jordan, 655; orthotype *DULES TÆNIURUS* Cuv. & Val. Substitute for *BOULENGERINA* Fowler, preoccupied.

2237. JORDAN & THOMPSON (1912). *A Review of the Sparidae and Related Families of Perch-like Fishes Found in the Waters of Japan*. Proc. U. S. Nat. Mus., XLI. (Jan. 22, 1912.)

DAVID STARR JORDAN; WILLIAM FRANCIS THOMPSON.

Lethrinichthys Jordan & Thompson, 558; orthotype **LETHRINUS NEMATACANTHUS** Blkr.

Taius Jordan & Thompson, 570; orthotype **CHRYSOPHRYS TUMIFRONS** T. & S.

Ewynnis Jordan & Thompson, 573; orthotype **SPARUS CARDINALIS** Lac.

2238. McCULLOCH (1912). *Notes on Some Australian Atherinidæ*. Proc. Roy. Soc. Queensland, XXIV, 1912, 47-53.

ALLAN RIVERSTON McCULLOCH.

Craterocephalus McCulloch, 48; orthotype **C. FLUVIATILIS** McCulloch.

2239. McCULLOCH (1912). *Notes on Some Western Australian Fishes*. Rec. W. Austral. Mus., Perth 1, 1912, 78-97.

ALLAN RIVERSTON McCULLOCH.

Mucogobius McCulloch, 93; orthotype **GOBIOUS MUCOSUS** Gthr. A synonym of **CALLOGOBIUS** Blkr.

2240. MEEK (1912). *New Species of Fishes from Costa Rica*. Pub. Field Col. Mus., X.

SETH EUGENE MEEK.

Alfaro Meek, 72; orthotype **A. ACUTIVENTRALIS** Meek. A substitute for **PETALOSOMA** Regan, preoccupied.

2241. PELLÉGRIN (1912). *Poissons des côtes de l'Angola; Mission de M. Gruvel*. Bull. Soc. Zool. France, XXXVII.

JACQUES PELLÉGRIN.

Diagrammella Pellégrin, 295; orthotype **DIAGRAMMA MACROPS** Pellégrin.

2242. RADCLIFFE (1912). *Descriptions of Fifteen New Fishes of the Family Cheilodipteridæ, from the Philippine Islands and Contiguous Waters*. Proc. U. S. Nat. Mus., XLI, 431-446. (Jan. 31, 1912.)

LEWIS RADCLIFFE.

Amioides Smith & Radcliffe, 440; orthotype **AMIA GROSSIDENS** Smith & Radcliffe.

Neamia Smith & Radcliffe, 441; orthotype **N. OCTOSPINA** Smith & Radcliffe.

2243. RADCLIFFE (1912). *New Pediculate Fishes from the Philippine Islands and Contiguous Waters*. Proc. U. S. Nat. Mus., XLII, 199-214. (April 30, 1912.)

LEWIS RADCLIFFE.

Dermatias Radcliffe, 206; orthotype **D. PLATYNOGASTER** Radcliffe.

2244. RADCLIFFE (1912). *Description of a New Family, Two New Genera and Twenty-nine New Species of Anacanthine Fishes from the Philippine Islands and Contiguous Waters*. Proc. U. S. Nat. Mus., XLIII, 105-140. (Sept. 27, 1912.)

LEWIS RADCLIFFE.

Parateleopus Smith & Radcliffe, 139; orthotype **P. MICROSTOMUS** Smith & Radcliffe.

Macrouroides Smith & Radcliffe, 139; orthotype **M. INFLATICEPS** Smith & Radcliffe.

2245. REGAN (1912). *New Fishes from Aldabra and Assumption, Collected by Mr. J. C. F. Fryer*. Trans. Linn. Soc. London, XV, 1912, 301-302.

CHARLES TATE REGAN.

Xenoconger Regan, 301; orthotype X. FRYERI Regan.

Parioglossus Regan, 302; orthotype P. TÆNIATUS Regan.

2246. REGAN (1912). *The Classification of the Blennioid Fishes*. Ann. Mag. Nat. Hist. (8), X, 265-280.

CHARLES TATE REGAN.

Acanthoplesiops Regan, 266; orthotype ACANTHOCLINUS INDICUS Day.

2247. REGAN (1912). *The Classification of the Teleostean Fishes of the Order Pediculati*. Ann. Mag. Nat. Hist. (8), IX, 1912, 277-289.

CHARLES TATE REGAN.

Haplophryne Regan, 289; orthotype ACERATIAS MOLLIS Brauer.

2248. REGAN (1912). *The Anatomy and Classification of the Symbranchoid Ecls*. Ann. Mag. Nat. Hist. (8), IX, 387-390.

CHARLES TATE REGAN.

Macrotrema Regan, 390; orthotype SYMBRANCHUS CALIGANS Cantor.

2249. REGAN (1912). *Description of Two New Ecls from West Africa, Belonging to a New Genus and Family*. Ann. Mag. Nat. Hist., X.

CHARLES TATE REGAN.

Heterenchelys Regan, 323; orthotype H. MICROPHthalmus Regan.

2250. REGAN (1912). *A Revision of the Pæciliid Fishes of the Genera Rivulus, Pterolebias and Cynolebias*. Ann. Mag. Nat. Hist. (8), X, 1912, 494-508.

CHARLES TATE REGAN.

Petalurichthys Regan, 494; orthotype PETALOSOMA CULTRATUS Regan. Substitute for PETALOSOMA Regan, preoccupied in COLEOPTERA; a synonym of ALFARO Meek.

2251. REGAN (1912). *Sexual Differences in the Pæciliid Fishes of the Genus Cynolebias*. Ann. Mag. Nat. Hist. (8), X, 641-652.

CHARLES TATE REGAN.

Cynopœcilus Regan, 642; orthotype CYNOLEBIAS MELANOTÆNIA Regan.

2252. RIBEIRO (1912). *Fauna Brasiliense. Peixes 4 (A)*. Arch. Mus. Rio de Janeiro, XVI, 1912, 1-504.

ALIPIO DE MIRANDA RIBEIRO.

Parasturisoma Ribeiro, 109; orthotype LORICARIA BREVIROSTRIS Eigenmann.

Mormyrostoma Ribeiro, 192; orthotype SILURUS CARINATUS L.

Tatia Ribeiro, 360; orthotype CENTROMOCHLUS INTERMEDIUS Steind.

2253. RIBEIRO (1912). *Loricariidæ, Callichthyidæ, Doradidæ e Trichomycteridæ. Comissão de Linhas Telegráficas Estrategicas de Matto-Grosso ao Amazonas*. Anexo No. 5, Rio Janeiro, 1912, 1-31.

ALIPIO DE MIRANDA RIBEIRO.

Gyrinurus Ribeiro, 27; orthotype G. BATRACHOSTOMA Ribeiro (Sept., 1912). A synonym of OCHMACANTHUS Eigenmann, June, 1912.

Paravandellia Ribeiro, 28; orthotype P. QXYPTERA Ribeiro.

2254. SMITH (1912). *Description of a New Notidanoid Shark from the Philippine Islands, Representing a New Family*. Proc. U. S. Nat. Mus., XLI, 489-491. (February 8, 1912.)

HUGH McCORMICK SMITH.

Pentanchus Smith, 489; orthotype *P. PROFUNDICOLUS* Smith.

2255. SMITH (1912). *The Squaloid Sharks of the Philippine Archipelago, with Descriptions of New Genera and Species*. Proc. U. S. Nat. Mus., XLI, 677-685. (February 9, 1912.)

HUGH McCORMICK SMITH.

Nasisqualus Smith, 681; orthotype *N. PROFUNDORUM* Smith.

Squaliolus Smith, 684; orthotype *S. LATICAUDUS* Smith.

2256. SMITH & RADCLIFFE (1912). *Description of a New Family of Pediculate Fishes from Celebes*. Proc. U. S. Nat. Mus., XLII, 579-582. (Aug. 30, 1912.)

HUGH McCORMICK SMITH; LEWIS RADCLIFFE.

Thaumatichthys Smith & Radcliffe, 579; orthotype *T. PAGIDOSTOMUS* Smith & Radcliffe.

2257. SNYDER (1912). *The Fishes of the Streams Tributary to Monterey Bay*. Bull. U. S. Bur. Fish., XXXII, 47-72.

JOHN OTTERBEIN SNYDER.

Hesperoleucus Snyder, 63; orthotype *POGONICHTHYS SYMMETRICUS* Grd.

2258. TANAKA (1912). *Figures and Descriptions of Fishes of Japan*. Tokyo, V-X, 71-186.

SHIGEHO TANAKA.

Cyclolumpus Tanaka, 86; orthotype *C. ASPERRIMUS* Tanaka.

Heteroscymnus Tanaka, 102; orthotype *H. LONGUS* Tanaka.

Cirrhigaleus Tanaka, 151; orthotype *C. BARBIFER* Tanaka.

Calliscyllium Tanaka, 171; orthotype *C. VENUSTUM* Tanaka.

2259. ZUGMAYER (1912). *On a New Genus of Cyprinoid Fishes from High Asia*. Ann. Mag. Nat. Hist. (8), IX, 1912, 682.

ERICH ZUGMAYER.

Aspiopsis Zugmayer, 682; orthotype *A. MERZBACHERI* Zugmayer.

1913.

2260. BERG (1913). *A Review of the Clupeoid Fishes of the Caspian Sea, etc*. Ann. Mag. Nat. Hist., XI, 472-480.

LEO SEMENOWITCH BERG.

Clupeonella Berg, 472; orthotype *C. CASPIA* Berg. Not *CLUPEONELLA* Kessler; replaced by *CASPIALOSA* Berg.

2261. BROOM (1913). *On Some Fishes from Lower and Middle Karroo, South Africa*. Ann. S. Afr. Mus. Cape Town, XII, 1913, 1-5.

ROBERT BROOM.

Caruichthys Broom, 4; orthotype *C. ORNATUS* Broom (fossil).

2262. BROOM (1913). *On Some Fossil Fishes from the Diamond-Bearing Pipes of Kimberley*. Trans. Roy. Soc., S. Afr. III, 1913, 399-402.

ROBERT BROOM.

Disichthys Broom, 400; orthotype *D. KIMBERLEYENSIS* Broom (fossil). (PALÆONISCID.)

Pelichthys Broom, 401; orthotype *P. KIMBERLEYENSIS* Broom (fossil). (PALÆONISCID, S. Africa.)

2263. CHAPMAN (1913). *Note on the Occurrence of the Cainozoic Shark, Carcharoides, in Victoria*. Victoria Naturalist, XXX, 142-193.

FREDERICK REVANS CHAPMAN.

Carcharoides Chapman, 142; orthotype a fossil shark.

2264. CHAUDHURI (1913). *Zoological Results of the Abor Expedition, 1911-12*. XVIII. Fish Rec. Ind. Mus. Calcutta, VIII, 1913, 243-257.

BONAWARI LAL CHAUDHURI.

Aborichthys Chaudhuri, 245; orthotype *A. KEMPI* Chaudhuri.

2265. COCKERELL (1913). *Observations on Fish Scales*. Bull. Bureau of Fisheries, XXII (for 1912), Oct. 13, 1913.

THEODORE DRU ALLISON COCKERELL.

Myloleucops Cockerell, 136 (foot note); type *LEUCISCUS ÆTHIOPS* Basilewsky. A substitute for *MYLOLEUCUS* Gthr., preoccupied.

2266. EIGENMANN (1913). *Some Results from an Ichthyological Reconnaissance of Colombia, South America*. Pt. II, Indiana Univ. Studies, 1913, No. 18, 1-32.

CARL H. EIGENMANN.

Pterobrycon Eigenmann, 3; orthotype *P. LANDONI* Eigenmann.

Argopleura Eigenmann, 10; orthotype *BRYCONAMERICUS MAGDALENÆ* Eigenmann.

Zyrogaster Eigenmann, 22; orthotype *Z. FILIFER* Eigenmann.

Microgenys Eigenmann, 22; orthotype *M. MINUTUS* Eigenmann.

2267. ELLIS (1913). *The Gymnotid Eels of Tropical America*. Mem. Carneg. Mus. VI, 1913, 109-195.

MAX MAPES ELLIS.

Orthosternarchus Ellis, 144; orthotype *STERNARCHUS TEMANDUA* Boulenger.

Odontosternarchus Ellis, 155; orthotype *STERNARCHUS SACHSI* Peters.

2268. ELLIS (1913). *The Plated Nematognaths*. Mem. Carneg. Mus., VIII, 1913, 384-413.

MARIAN LEE ELLIS.

Cascadura Ellis, 387; orthotype *C. MACULOCEPHALA* Ellis.

2269. FOWLER (1913). *Curimatus spilurus Cope, a wrongly identified Characin*. Proc. Acad. Nat. Sci. Phila., LXV, 1913, 673-675.

HENRY WEED FOWLER.

Xyrocharax Fowler, 673; orthotype *CURIMATUS STIGMATURUS* Fowler.

2270. FOWLER (1913). *Notes on Catostomoid Fishes*. Proc. Acad. Nat. Sci. Phila., LXV, 1913, 45-60.

HENRY WEED FOWLER.

Megastomatobus Fowler, 45; orthotype *SCLEROGNATHUS CYPRINELLA* Cuv. & Val. A synonym of *SCLEROGNATHUS* as restricted by Günther & Jordan. The first species named under *SCLEROGNATHUS*, however, was a *CARPIODES*.

- Notolepidomyzon** Fowler, 47; orthotype *PANTOSTEUS ARIZONÆ* (Gilbert).
Scartomyzon Fowler, 59; orthotype *PTYCHOSTOMUS CERVINUS* Cope.
Pithecomyzon Fowler, 54; orthotype *CHASMISTES CUJUS* Cope.
2271. FOWLER (1913). *Fishes from the Madeira River, Brazil*. Proc. Acad. Nat. Sci. Phila., LXV., 1913, 517-579.
 HENRY WEED FOWLER.
Prionobrama Fowler, 553; orthotype *P. MADEIRÆ* Fowler.
Gnathocharax Fowler, 561; orthotype *G. STEINDACHNERI* Fowler.
Tytocharax Fowler, 564; orthotype *T. MADEIRÆ* Fowler.
2272. FOWLER (1913). *Fowlerina Eigenmann, a Preoccupied Generic Name*. Science, XXXVIII, 1913, 51.
 HENRY WEED FOWLER.
Ephippicharax Fowler, 51; orthotype *TETRAGONOPTERUS COMPRESSUS* Gthr. A substitute for *FOWLERINA* Eigenmann, preoccupied.
2273. GARMAN (1913). *The Plagiostomia (Sharks, Skates, and Rays)*. Mem. Mus. Comp. Zool. Harvard Coll., XXXVI, 1913, 1-528.
 SAMUEL GARMAN.
Vulpecula (Valmont) Garman, 31; orthotype *VULPECULA MARINA* (Valmont) Garman = *SQUALUS VULPINUS* Bonnaterre = *SQUALUS VULPES* Gmelin. Same as *ALOPIAS* Raf. and of earlier date, but Valmont's names are of doubtful validity.
Catulus (Valmont) Garman, 71; orthotype *CATULUS VULGARIS* Valmont = *SQUALUS CATULUS* L. Name preoccupied by *CATULUS* Kniphof, 1759, a genus of *HEMIPTERA*. Same as *SCYLLIORHINUS* Blainv.
- Apristurus** Garman, 96; orthotype *SCYLLIORHINUS INDICUS* Brauer.
Atelomycterus Garman, 100; orthotype *SCYLLIUM MARMORATUM* Bennett.
Haploblepharus Garman, 101; orthotype *SCYLLIUM EDWARDSII* (Cuv.) Voigt.
Zanobatus Garman, 291; orthotype *PLATYRHINA SCHÖENLEINI* M. & H.
Urobatis Garman, 401; orthotype *LEIOBATUS SLOANI* Blainv.
Pteromyxus Garman, 437; logotype *MYLIOBATUS ASPERRIMUS* J. & E.
2274. HOLT & BYRNE (1913). *Sixth Report on the Fishes of the Irish Atlantic Slope. The Families Stomiidae, Sternoptychidae, and Salmonidae*. Dublin Fish Ireland Sci. Invest., 1913, 1-27.
 ERNEST W. L. HOLT; L. W. BYRNE.
Lamprotoxus Holt & Bryne, 2; orthotype *L. FLAGELLIBARBA* Holt & Byrne.
2275. JORDAN (1913). *Ellimma, a Genus of Fossil Herrings*. Proc. Biol. Soc. Washington, XXVI, 1913, 79.
 DAVID STARR JORDAN.
Ellimma Jordan, 79; orthotype *ELLIPES BRANNERI* Jordan (fossil). Substitute for *ELLIPES* Jordan, preoccupied.
2276. JORDAN & METZ (1913). *A Catalogue of the Fishes Known from the Waters of Korca*. Mem. Carnegie Mus., VI, 1913, 1-65.
 DAVID STARR JORDAN; CHARLES WILLIAM METZ (1889-).
Zunasia Jordan & Metz, 7; orthotype *PRISTIGASTER CHINENSIS*, Basilewsky, the young of *ILISHA ELONGATA* Gray. A synonym of *ILISHA* Gray.
2277. JORDAN & THOMPSON (1913). *Notes on a Collection of Fishes from the Island of Shikoku in Japan, with a Description of a New Species, Gnathypops iyonis*. Proc. U. S. Nat. Mus., XLVI, 65-72.
 DAVID STARR JORDAN; WILLIAM FRANCIS THOMPSON.

- Onigocia** Jordan & Thompson, 70; orthotype *PLATYCEPHALUS MACROLEPIS* Blkr.
Inegocia Jordan & Thompson, 70; orthotype *PLATYCEPHALUS JAPONICUS* Krusenstern.
2278. LAHILLE (1913). *Nota sobre siete peces de las costas argentinas*. An. Mus. Nac. Buenos Aires, XXIV, 1913, 1-24.
 FERNANDO LAHILLE.
Besnardia Lahille, 1; orthotype *B. GYRINOPS* Lahille.
2279. LANGER (1913). *Beiträge zur Morphologie der viviparen Cyprinodontiden*. Morph. Jahrb. Leipzig, XLVII, 1913, 193-307.
 W. F. LANGER.
Gulapinnus Langer, 207; orthotype *CNESTERODON DECEMMACULATUS* Garman.
- 2279A. LERICHE (1913). *Les poissons paléocènes de Landana (Congo)*. Ann. du Musée du Congo Belge. Geol. Paleont. Mineral., ser. 3, I, 69-80.
 MAURICE LERICHE.
Hypolophites Leriche; orthotype *H. MAYOMBENSIS* Leriche (fossil shark).
2280. OGILBY (1913). *Edible Fishes of Queensland: I. Pempheridæ; II. Gadopisiform Percoids*. Mem. Queensland Mus. (Dec. 10, 1913).
 JAMES DOUGLAS OGILBY.
Liopempheris Ogilby, 61; orthotype *PEMPHERIS MULTIRADIATA* Klunzinger; near *CATALUFA* Snyder, 1911; perhaps a synonym.
2281. PELLÉGRIN (1913). *Poisson des côtes de Mauritanie. Mission de M. Gruvel*. Paris Bull. Soc. Zool., XXXVIII, 1913, 116-118.
 JACQUES PELLÉGRIN.
Panturichthys Pellégrin, 118; orthotype *P. MAURITANICUS* Pellégrin.
2282. PELLÉGRIN (1913). *Poissons nouveaux de Guinée Française recueillis par M. Pobéguin*. Bull. Soc. Zool. Paris, XXXVIII, 1913, 236-241.
 JACQUES PELLÉGRIN.
Diagrammella Pellégrin, 295; orthotype *DIAGRAMMA MACROPS* Pellégrin.
2283. PELLÉGRIN (1913). *Sur un nouveau genre de Centrarchidés du Gabon*. Comptes Rendus Acad. Roy. 26, 1913, 1488-1489.
 JACQUES PELLÉGRIN.
Parakuhlia Pellégrin, 1489; orthotype *P. BOULENGERI* Pellégrin.
2284. RADCLIFFE (1913). *Descriptions of Seven New Genera and Thirty-one New Species of Fishes of the Families Brotulidæ and Carapidæ from the Philippine Islands and the Dutch East Indies*. Proc. U. S. Nat. Mus., XLIV, 135-176.
 LEWIS RADCLIFFE.
Homostolus Radcliffe, 147; orthotype *H. ACER* Radcliffe.
Enchelybrotula Radcliffe, 154; orthotype *E. PAUCIDENS* Radcliffe.
Mastigopterus Radcliffe, 159; orthotype *M. IMPERATOR* Radcliffe.
Hypopleuron Radcliffe, 164; orthotype *H. CANINUM* Radcliffe.
Lucibrotula Radcliffe, 170; orthotype *L. BARTSCHI* Radcliffe.
Xenobythites Radcliffe, 173; orthotype *X. ARMIGER* Radcliffe.
Pyramodon Radcliffe, 175; orthotype *P. VENTRALIS* Radcliffe.

2285. REGAN (1913). *The Antarctic Fishes of the Scottish National Antarctic Expedition*. Edinburgh Trans. Roy. Soc. 49, 1913, 229-292.
CHARLES TATE REGAN.
Eugnathosaurus Regan, 234; orthotype *E. VORAX* Regan.
Ophthalmolycus Regan, 243; orthotype *LYCODES MACROPS* Gthr.
Austrolycichthys Regan, 244; orthotype *LYCODES BRACHYCEPHALUS* Pappenheim.
Austrolycus Regan, 245; orthotype *A. DEPRESSICEPS* Regan.
Crossolycus Regan, 247; orthotype *LYCODES FIMBRIATUS* Steind.
Pagetopsis Regan, 286; orthotype *CHAMPSOCEPHALUS MACROPTERUS* Boulenger.
Chænocephalus Regan, 287; orthotype *C. ACERATUS* Regan.
2286. REGAN (1913). *The Classification of the Percoid Fishes*. Ann. Mag. Nat. Hist., XII, 1913, 111-115.
CHARLES TATE REGAN.
Centrodraco Regan, 145; orthotype *DRACONETTA ACANTHOPOMA* Regan.
2287. REGAN (1913). *Fishes from the River Ucayali, Peru, Collected by W. Mounsey*. Ann. Mag. Nat. Hist., XII, 1913, 281-283.
CHARLES TATE REGAN.
Apistogramma Regan, 282; orthotype *HETEROGRAMMA BORELLI* Regan. A substitute for *HETEROGRAMMA* Regan, preoccupied.
2288. REGAN (1913). *The Fishes of the San Juan River, Colombia*. Ann. Mag. Nat. Hist., XII, 1913, 462-473.
CHARLES TATE REGAN.
Xenurocharax Regan, 463; orthotype *X. SPURRELLI* Regan.
Nannorhamdia Regan, 467; orthotype *N. SPURRELLI* Regan.
2289. REGAN (1913). *Phallostethus dunckeri, a Remarkable New Cyprinodont Fish from Johore*. Ann. Mag. Nat. Hist. XII, 1913, 548-555.
CHARLES TATE REGAN.
Phallostethus Regan, 548; orthotype *P. DUNCKERI* Regan.
2290. REGAN (1913). *A Collection of Fishes Made by Professor Francisco Fuentes at Easter Island*. Proc. Zool. Soc. London, 1913, 368-374.
CHARLES TATE REGAN.
Girellops Regan, 369; orthotype *GIRELLA NEBULOSA* Kendall & Radcliffe.
2291. REGAN (1913). *A Revision of the Cyprinodont Fishes of the Sub-Family Pæciliinæ*. Proc. Zool. Soc. London, 1913, 977-1018.
CHARLES TATE REGAN.
Priapichthys Regan, 991; orthotype *GAMBUSIA ANNECTENS* Regan.
Priapella Regan, 992; orthotype *GAMBUSIA BONITA* Meek.
Pseudopæcilia Regan, 995; orthotype *PÆCILIA FESTÆ* Boulenger.
Pæcilopsis Regan, 997; orthotype *P. ISTHMENSIS* Regan.
Brachyrhaphis Regan, 997; orthotype *GAMBUSIA RHABDOPHORA* Regan.
Leptorhaphis Regan, 998; orthotype *GAMBUSIA INFANS* Woolman.
Pamphoria Regan, 1003; orthotype *CNESTERODON SCALPRIDENS* Garman.
Pamphorichthys Regan, 1003; orthotype *HETERANDRIA MINOR* Garman.
2292. RIBEIRO (1913). *Fauna Brasiliense. Peixes. V (part). Serranidæ (39 pp.), Hamulidæ (30 pp.), and Sciænidæ (46 pp.)*. Arch. Mus. Rio de Janeiro, XVII, 1913.

ALÍPIO DE MIRANDA RIBEIRO.

Symphysoglyphus Ribeiro, 43; orthotype OTOLITHUS BAIRDI Steind.

2293. ROULE (1913). *Deuxième Expédition Antarctique Française*. Poissons, 1913, 1-25.

LOUIS ROULE.

Dolloidraco Roule, 15; orthotype D. LONGIDORSALIS Roule.

2294. ROULE (1913). *Étude sur les formes larvaires Tiluriennes de poissons apodes*. Ann. Inst. Ocean. Monaco, VI, f. 2, 1913, 1-23.

LOUIS ROULE.

Grimaldichthys Roule, 2; orthotype G. PROFUNDISSIMUS Roule.

2295. SMITH (1913). *The Hemiscylliid Sharks of the Philippine Archipelago, with Description of a New Genus from the China Sea. (Scientific Results of the Philippine Cruise of the Fisheries Steamer "Albatross," 1907-1910. No. 28.)* Proc. U. S. Nat. Mus., XLV, 567-569.

HUGH McCORMICK SMITH.

Cirrhoscyllium Smith, 568; orthotype C. EXPOLITUM Smith.

2296-2297. SMITH (1913). *Description of a New Carcharioid Shark from the Sulu Archipelago*. Proc. U. S. Nat. Mus., XLV, 1913, 599-601.

HUGH McCORMICK SMITH.

Eridacnis Smith, 599; orthotype E. RADCLIFFEI Smith.

2298. STARKS (1913). *The Fishes of the Stanford Expedition to Brazil*. Stanford Univ. Publ., University Series, 1913, 1-77.

EDWIN CHAPIN STARKS.

Platypogon Starks, 29; orthotype P. CÆRULIROSTRIS Starks.

2299. WEBER (1913). *Résultats de l'expédition scientifique néerlandaise à la Nouvelle-Guinée*. Nova Guinea, IX, 513-613.

MAX WEBER.

Oloplotosus Weber, 521; orthotype O. MARLÆ Weber.

Porochilus Weber, 523; orthotype P. OBBESI Weber.

Doiichthys Weber, 532; orthotype D. NOVÆ-GUINÆE Weber.

Tetranesodon Weber, 545; orthotype T. CONORHYNCHUS Weber.

2300. WEBER (1913). *Siboga-Expeditie. Die Fische der Siboga-Expedition*. Leiden, 1-710.

MAX WEBER.

Ceromitus Weber, 54; orthotype C. FLAGELLIFER Weber.

Promacheon Weber, 84; orthotype P. SIBOGÆ Weber.

Apterygocampus Weber, 116; orthotype A. EPINNULATUS Weber.

Odontonema Weber, 148; orthotype O. KERBERTI Weber.

Leiogaster Weber, 179; orthotype L. MELANOPUS Weber.

Pteranthias Weber, 209; orthotype P. LONGIMANUS Weber.

Sphenanthias Weber, 210; orthotype S. SIBOGÆ Weber.

Nematochromis Weber, 265; orthotype N. ANNÆ Weber.

Cheiloprion Weber, 342; orthotype POMACENTRUS LABIATUS Day.

Cyttula Weber, 411; orthotype C. MACROPS Weber.

Lepidoblepharon Weber, 421; orthotype L. OPHTHALMOLEPIS Weber.

Liopteryx Weber, 423; orthotype BRACHYPLEURA XANTHOSTICTA Alcock.

Pleurosicya Weber, 456; orthotype P. BOLDINGHI Weber.

Tydemania Weber, 570; orthotype T. NAVIGATORIS Weber.

2301. WEBER (1913). *Neue Beiträge zur Kenntniss der Süßwasserfische von Celebes.** Amster. Bijdr. Dierk., 1913, 197-213.

MAX WEBER.

Adrianichthys Weber, 204; orthotype A. KRUYTI Weber.

2302. ZUGMAYER (1913). *Diagnoses des Stomiatiidés provenant des campagnes du Yacht "Hirondelle II," 1911-1912.* Bull. Institut. Océanographique. Monaco, 1913.

ERICH ZUGMAYER.

Aristostomias Zugmayer, 1; orthotype A. GRIMALDII Zugmayer.

1914.

2303. BERG (1914). *Faune de la Russie et des Pays limitropes.* Bull. Acad. Imp. Sci. Petrograd. *Poissons, Marsipobranchii et Pisces.* Tome III, Ostariophys, Livraison 2, 1914.

LEO SEMENOVICH BERG.

Chilogobio Berg, 488; orthotype C. SOLDATOVI Berg.

Pseudogobiops Berg, 500; orthotype GOBIO RIVULARIS Basilewsky.

Leucalburnus Berg, 5, 521; orthotype L. SATURNINI Berg.

2304. BOGOLIUBOV (1914). *Étude sur le Paracymatodus Traut.* Ann Géol. Univérs. Novo Aleksandrija, XVI, 197-199.

H. H. BOGOLIUBOV.

Paracymatodus Bogoliubov, 197; orthotype CYMATODUS RECLINATUS Trautschold.

2305. BOULENGER (1914). *Mission Stappers au Tanganika-Moero. Diagnoses de poissons nouveaux. I. Acanthopterygiens, Opisthomes, Cyprinodontes.* Rev. Zool. Afr. Bruxelles, III, 1914, 442-447.

GEORGE ALBERT BOULENGER.

Luciolates Boulenger, 443; orthotype L. STAPPERSII Boulenger.

Stappersia Boulenger, 445; orthotype S. SINGULARIS Boulenger.

2306. BOULENGER (1914). *Cichlidæ.* Wissensch. Ergebniss. Deutsch. Zentral. Afrika-Exped., 1907-1908, V, Zool. III, 1914, 253-259.

GEORGE ALBERT BOULENGER.

Schubotzia Boulenger, 258; orthotype S. EDUARDINA Boulenger.

2307. BRANSON (1914). *The Devonian Fishes of Missouri.* Bull. Univ. Missouri. Science, II, 59-74.

EDWIN BAYER BRANSON.

Eoörodus Branson, 68; orthotype E. TYPUS Branson (fossil: shark-tooth).

2308. EASTMAN (1914). *Catalog of the Fossil Fishes in the Carnegie Museum.* Pt. II. Supplement to the *Catalog of Fishes from the Upper Eocene of Monte Bolca.* Mem. Carneg. Mus., VI, No. 5, 315-348.

CHARLES ROCHESTER EASTMAN.

Eobothus Eastman, 328; orthotype RHOMBUS MINIMUS Ag. (fossil flounder).

Eolabroides Eastman, 336; orthotype CRENILABRUS SZANOCHÆ Zigno (fossil labroid).

Gillidia Eastman, 345; orthotype TOXOTES ANTIQUUS Ag. (fossil).

* Reise von E. C. Abendanon.

2309. EASTMAN (1914). *Catalogue of the Fossil Fishes in the Carnegie Museum, IV*. Descriptive catalogue of the fossil fishes from the Lithographic Stone of Solenhofen, Bavaria. Mem. Carneg. Mus., VI, 1914, 389-449.

CHARLES ROCHESTER EASTMAN.

Parathrissops Eastman, 417; orthotype *P. FURCATUS* Eastman (fossil LEPTOLEPIDÆ, Jurassic, Solenhofen).

2310. EIGENMANN (1914). *Some Results from Studies of South American Fishes*. Indiana Univ. Bull., XII, 1914, 20-48.

CARL H. EIGENMANN.

Bleptonema Eigenmann, 44; orthotype *B. PARAGUAYENSIS* Eigenmann. A synonym of *PRIONOBAMA* Eigenmann.

Parecbasis Eigenmann, 45; orthotype *P. CYCLOLEPIS* Eigenmann.

2311. EIGENMANN, HENN, AND WILSON. (1914). *New Fishes from Western Colombia, Ecuador and Peru*. Indiana Univ. Studies, XIX, 1914, 1-15.

CARL H. EIGENMANN; ARTHUR WILBUR HENN; CHARLES WILSON.

Landonia Eigenmann & Henn, 1; orthotype *L. LATIDENS* Eigenmann & Henn.

Phanagoniates Eigenmann & Henn, 2; orthotype *P. WILSONI* Eigenmann & Henn. Misprinted elsewhere as PHENAGONIATES.

Microbrycon Eigenmann, Henn & Wilson, 3; orthotype *M. MINUTUS* Eigenmann Henn & Wilson.

Ceratobranchia Eigenmann, Henn & Wilson, 4; orthotype *C. OBTUSIROSTRIS* Eigenmann, Henn & Wilson.

2312. FACCIOLÀ (1914). *Su di un nuovo tipo del Nettastomidi*. Roma, Bull. Soc. Zool. Ital. (3), III, 1914, 39-47.

LUIGI FACCIOLÀ.

Nettastomella Facciola, 47; orthotype *N. PHYSONEMA* Facciola.

2313. FOWLER (1914). *Fishes from the Rupununi River, British Guiana*. Proc. Acad. Nat. Sci. Phila., LXVI, 229-284.

HENRY WEED FOWLER.

Myocharax Fowler, 239; orthotype *LEPORINUS DESMOTES* Fowler.

Xiphocharax Fowler, 251; orthotype *X. OGILVIEI* Fowler.

Cobitiglanis Fowler, 268; orthotype *OCHMACANTHUS TAXISTIGMA* Fowler. A synonym of *HENONEMUS* Eigenmann & Ward.

Stoniella Fowler, 271; orthotype *S. LEOPARDUS* Fowler.

2314. JORDAN & THOMPSON (1914). *Record of the Fishes Obtained in Japan in 1911*. Mem. Carneg. Mus. VI, 1914, 205-313.

DAVID STARR JORDAN; WILLIAM FRANCIS THOMPSON.

Tanakia Jordan & Thompson, 230; orthotype *RHODEUS ORYZÆ* Jordan & Thompson.

Ectenias Jordan & Thompson, 241; orthotype *E. BRUNNEUS* Jordan & Thompson.

Icticus Jordan & Thompson, 242; orthotype *I. ISCHANUS* Jordan & Thompson.

Franzia Jordan & Thompson, 251; orthotype *ANTHIAS NOBILIS* Franz.

Calymmichthys Jordan & Thompson, 296; orthotype *C. XENICUS* Jordan & Thompson.

Spectrunculus Jordan & Thompson, 301; orthotype *S. RADCLIFFEI* Jordan & Thompson.

Tarphops Jordan & Thompson, 307; orthotype *PSEUDORHOMBUS OLIGOLEPIS* Blkr.

2315. McCULLOCH (1914). *Notes on Some Australian Pipe-Fishes*. Australian Zoologist, I, pt. 1, 1914, 29-31.

ALLAN RIVERSTON McCULLOCH.

Histiogamphelus McCulloch, 30; orthotype *H. BRIGGSI* McCulloch.

2316. McCULLOCH (1914). *Report on Some Fishes Obtained by the F. I. S. "Endeavour" on the Coast of Queensland, New South Wales, Victoria, Tasmania, South and South Western Australia.* Part II. Biol. Res. "Endeavour," II, Pt. 3, 77-165.

ALLAN RIVERSTON McCULLOCH.

Vinculum McCulloch, 110; orthotype *CHÆTODON SEXFASCIATUS* Rich.
Alloctytus McCulloch, 114; orthotype *CYTOSOMA VERRUCOSUM* Gilchrist.

2317. MEEK (1914). *An Annotated List of Fishes Known To Occur in the Fresh Waters of Costa Rica.* Field Museum, Nat. Hist. Pub. Zool., Ser. X, 1914, 101-134.

SETH EUGENE MEEK.

Carlia Meek, 108; orthotype *CHEIRODON EIGENMANNI* Meek.

2318. OGILBY (1914). (*Ptenonotus*.) Ann. Queensland Museum, XXII.

JAMES DOUGLAS OGILBY.

Ptenonotus Ogilby, 13; orthotype *EXOCETUS CIRRIGER* Peters.

2319. PAPPENHEIM (1914). *Die Tiefseefische.* Südpol-Expedition. 1901-1903, XV, Zoologie, VI, 1914, 163-200.

KARL PAPPENHEIM.

Gnathostomias Pappenheim, 172; orthotype *G. LONGIFILIS* Pappenheim.

Neoceratias Pappenheim, 198; orthotype *N. SPINIFER* Pappenheim.

2320. REGAN (1914). *Diagnoses of New Marine Fishes Collected by the British Antarctic ("Terra Nova") Expedition.* Ann. Mag. Nat. Hist. XIII, 1914, 11-17.

CHARLES TATE REGAN.

Prinodraco Regan, 10; orthotype *P. EVANSI* Regan.

Pogonophryne Regan, 13; orthotype *P. SCOTTI* Regan.

Chænoraco Regan, 14; orthotype *C. WILSONI* Regan.

Serranops Regan, 15; orthotype *S. MACULICAUDA* Regan.

Cynophidium Regan, 16; orthotype *C. PUNCTATUM* Regan.

Lepidoperca Regan, 17; orthotype *L. INORNATA* Regan.

2321. REGAN (1914). *Note on *Aristeus goldiei* Macleay, and on Some Other Fishes from New Guinea.* Proc. Zool. Soc. London, 1914, 339-340.

CHARLES TATE REGAN.

Rhombosoma Regan, 339; orthotype *NEMATOCENTRIS NOVÆ-GUINÆ* Weber = *ARISTEUS GOLDIEI* Macleay.

2322. REGAN (1914). *Report on the Fresh-Water Fishes Collected by the British Ornithologists' Union Expedition in Dutch New Guinea.* Trans. Zool. Soc. London, 1914, XX, 275-286.

CHARLES TATE REGAN.

Rhadinocentrus Regan, 280; orthotype *R. ORNATUS* Regan.

Anisocentrus Regan, 281; orthotype *NEMATOCENTRIS RUBROSTRIATUS* Weber.

Chilatherina Regan, 282; orthotype *RHOMBATRACTUS FASCIATUS* Weber.

2323. REGAN (1914). *Two New Cyprinid Fishes from Waziristan, Collected by Major G. E. Bruce.* Ann. Mag. Nat. Hist. XIII, 1914, 261-263.

CHARLES TATE REGAN.

Schizocypris Regan, 262; orthotype *S. BRUCEI* Regan.

2324. REGAN (1914). *Descriptions of Two New Cyprinodont Fishes from Mexico, Presented to the British Museum by Herr A. Rachow*. Ann. Mag. Nat. Hist., XIV, 1914, 65-67.

CHARLES TATE REGAN.

Heterophallus Regan, 66; orthotype H. RACHOVII Regan.

2325. REGAN (1914). *A Synopsis of the Fishes of the Family Macrorhamphosidæ*. Ann. Mag. Nat. Hist., XIII, 1914, 17-21.

CHARLES TATE REGAN.

Notopogon Regan, 14; logotype N. SCHOTELI Regan.

Scolopacichthys Regan, 21; orthotype CENTRISCUS ARMATUS Sauvage.

2326. REGAN (1914). *British Antarctic ("Terra Nova") Expedition*. Zoology, I, Fishes, 1914, 1-54.

CHARLES TATE REGAN.

Histiodraco Regan, 9; orthotype DOLLOIDRACO VELIFER Regan.

Pyramodon Regan, 20; orthotype CYNOPHIDIUM PUNCTATUM Regan.

2327. ZUGMAYER (1914.) *Diagnoses de quelques poissons nouveaux provenant des campagnes du yacht Hirondelle II (1911-1913)*. Bull. Inst. Ocean. Monaco. 1914, No. 2888, 1-4.

ERICH ZUGMAYER.

Cetostoma Zugmayer, 3; orthotype C. REGANI Zugmayer.

Zoarcites Zugmayer, 3; orthotype Z. PARDALIS Zugmayer.

1915.

2328. BAMBER (1915). *Reports on the Marine Biology of the Sudanese Red Sea, from Collections Made by Cyril Crossland, etc.* XXII. *The Fishes*. Journ. Linn. Soc. London, XXXI, 1915, 477-485.

R. C. BAMBER.

Neenchelys Bamber, 479; orthotype N. MICROTRETUS Bamber.

2329. BERG (1915). *Compte-Rendu préliminaire sur les harénges collectionnés dans la mer Caspienne par l'Expédition Caspienne de l'Année, 1913*. Mat. Pozn. Russk. Rybolav, IV, No. 6, pp. 1-8.

LEW SEMENOVICH BERG.

Caspialosa Berg, 12; orthotype CLUPEONELLA CASPIA Berg. A substitute for CLUPEONELLA Berg; not of Kessler.

2330. BERG (1915). *Faune de la Russie*. Poissons, III, Pt. 2, 337-704.

LEW SEMENOVITCH BERG.

Chilogobio Berg, 490; orthotype C. CZERSKII Berg.

2331. EIGENMANN (1915). *The Cheilodontinae, a Subfamily of Minute Characid Fishes of South America*. Mem. Carneg. Mus., VII, No. 1, 1-99.

CARL H. EIGENMANN.

Leptobrycon Eigenmann, 46; orthotype L. JUTUARANÆ Eigenmann.

Macropsobrycon Eigenmann, 48; orthotype M. URUGUAYANÆ Eigenmann.

Megalamphodus Eigenmann, 49; orthotype M. MEGALOPTERUS Eigenmann.

Microschemobrycon Eigenmann, 56; orthotype M. GUAPORENSIS Eigenmann.

Oligobrycon Eigenmann, 57; orthotype O. MICROSTOMUS Eigenmann.

Aphyocheirodon Eigenmann, 58; orthotype *A. HEMIGRAMMUS* Eigenmann.
Compsura Eigenmann, 60; orthotype *C. HETERURA* Eigenmann.
Mixobrycon Eigenmann, 62; orthotype *CHEIRODON RIBEIROI* Eigenmann.

2332. EIGENMANN (1915). *The Serrasalminæ and Mylinae*. Ann. Carneg. Mus., IX, 1915, 226-272.

CARL H. EIGENMANN.

Gastropristis Eigenmann, 238; orthotype *SERRASALMO TERNETZI* Steind.
Rooseveltiella Eigenmann, 240; orthotype *SERRASALMO NATTERERI* Kner.
Pristobrycon Eigenmann, 245; orthotype *SERRASALMO CALMONI* Steind.

2333. FOWLER (1915). *Notes on Nematognathous Fishes*. Proc. Acad. Nat. Sci. Phila., LXVII, 223-243.

HENRY WEED FOWLER.

Cataphractops Fowler, 231; orthotype *CALLICHTHYS MELAMPTERUS* Cope.
Diapaletoplites Fowler, 237; orthotype *HYPOTOPOMA GULARE* Cope.

2334. GILBERT (1915). *Fishes Collected by the United States Steamer "Albatross" in Southern California in 1904*. Proc. U. S. Nat. Mus., XLVIII, 305-380.

CHARLES HENRY GILBERT.

Xenognathus Gilbert, 311; orthotype *X. PROFUNDORUM* Gilbert.
Zastomias Gilbert, 322; orthotype *Z. SCINTILLANS* Gilbert.
Asterotheca Gilbert, 343; orthotype *XENOCHIRUS PENTACANTHUS* Gilbert.
Liparisiscus Gilbert, 358; orthotype *L. NANUS* Gilbert.
Lycogramma Gilbert, 364; orthotype *MAYNEA BRUNNEA* Bean.
Monoceratias Gilbert, 379; orthotype *M. ACANTHIAS* Gilbert.

2335. HUBBS (1915). *Flounders and Soles from Japan Collected by the United States Bureau of Fisheries Steamer "Albatross" in 1906*. Proc. U. S. Nat. Mus., XLVIII, 449-496.

CARL L. HUBBS (1894-).

Citharoides Hubbs, 453; orthotype *C. MACROLEPIDOTUS* Hubbs.
Psettina Hubbs, 456; orthotype *ENGYPROSOPON IJIMÆ* Jordan & Starks.
Læoptichthys Hubbs, 460; orthotype *L. FRAGILIS* Hubbs.
Gareus Hubbs, 486; orthotype *PLEURONECTES OBSCURUS* Herzenstein.

2336. McCULLOCH (1915). *Notes on and Descriptions of Australian Fishes*. Proc. Linn. Soc. New S. Wales, XL, 259-277.

ALLAN RIVERSTON McCULLOCH.

Lovettia McCulloch, 259; orthotype *HAPLOCHITON SEALII* Johnston.

2337. McCULLOCH (1915). *Notes and Illustrations of Queensland Fishes*. Mem. Queensland Mus., III, 1915, 47-56.

ALLAN RIVERSTON McCULLOCH.

Belonepterygion McCulloch, 51; orthotype *ACANTHOCLINUS FASCIOLATUS* Ogilby.

2338. McCULLOCH (1915). *Report on Some Fishes Obtained by the F. I. S. "Endeavour" on the Coast of Queensland, New South Wales, Victoria, Tasmania, South and South Western Australia*, Part III. Biol. Res. "Endeavour" 3, Pt. III, 97-170.

ALLAN RIVERSTON McCULLOCH.

Acanthopegasus McCulloch, 106; orthotype *PEGASUS LANCIFER* Kaup.

2339. McCULLOCH & WAITE (1915). *A Revision of the Genus Aracana and Its Allies*. Trans. Roy. Soc. Austral., XXXIX, 1915, 477-493.
ALLAN RIVERSTON McCULLOCH; EDGAR RAVENSWOOD WAITE.
- Caprichthys** McCulloch & Waite, 482; orthotype *C. GYMNUMA McCulloch & Waite.
2340. OGILBY (1915). *On Some New or Little Known Australian Fishes*. Mem. Queensland Mus., III, 1915, 117-129.
JAMES DOUGLAS OGILBY.
- Reganichthys** Ogilby, 123; orthotype R. MAGNIFICUS Ogilby. A synonym of GLAUCOSOMA T. & S.
- Rhizoprion** Ogilby, 132; orthotype CARCHARIAS CRENIDENS Klunzinger.
2341. PELLÉGRIN (1915). *Les poissons du bassin de l'Ogoué*. Comptes Rend. Ass. France. Adv. Science, XLIII, 500-505.
JACQUES PELLÉGRIN.
- Hemistichodus** Pellégrin, 500; orthotype H. VAILLANTI Pellégrin.
2342. RIBEIRO (1915). *Fauna Brasiliense, Peixes (Eleutherobranchios aspirophoros)*. Archivos do Museo Nacional do Rio Janeiro, XVII, 1915. (In this large volume each family has a separate pagination.)
ALÍPIO DE MIRANDA RIBEIRO.
- Kronia** Ribeiro (ATHERINIDÆ), 9; orthotype K. IGUAPENSIS Ribeiro.
- Pseudothyrina** Ribeiro (ATHERINIDÆ), 11; orthotype P. JHERINGI Ribeiro.
- Toledia** Ribeiro (STROMATEIDÆ), 5; orthotype T. MACROPHTHALMA Ribeiro.
- Davidia** Ribeiro (BALISTIDÆ), 9; orthotype ALUTERA PUNCTATA Ag. Not DAVIDIUS Selys, 1878, in NEUROPTERA, being named for a different person, David Starr Jordan.
- Pseudomulloidis** Ribeiro (MULLIDÆ), 4; orthotype P. CARMINEUS Ribeiro.
- Marcgravichthys** Ribeiro (BATRACHOIDIDÆ), 3; orthotype BATRACHUS CRYPTOCENTRUS Cuv. & Val. Substitute for MARCGRAVIA Jordan, 1886, for the inadequate reason of the use of the name in botany. But both are synonyms of AMPHICHTHYS Sw., 1839.
- Parablennius** Ribeiro (BLENNIDÆ), 3; orthotype BLENNIUS PILICORNIS Cuv. & Val.
- 2343-2344. ROULE (1915). *Sur un nouveau genre de poissons apodes et sur quelques particularités de la biologie de ces êtres*. C. R. Acad. Sci., 160, 1915, 283-284.
LOUIS ROULE.
- Pseudopichthys** Roule, 283; orthotype P. LATIDORSALIS Roule.
2345. SILVESTER (1915). *Fishes New to the Fauna of Porto Rico*. Washington, Carnegie Inst. Year Book, 14, 1915, 214-217.
CHARLES F. SILVESTER.
- Mayerina** Silvester, 214; orthotype M. MAYERI Silvester.
2346. SOLDATOV & PAVLENKO (1915). *Two New Genera of Cottidæ from Tartar Strait and Okhotsk Sea*. Ann. Mus. Zool. Ac. Sci. Petrograd, XX, 1915.
V. K. SOLDATOV; M. N. PAVLENKO.
- Taurocottus** Soldatov & Pavlenko, 149; orthotype T. BERGI Soldatov & Pavlenko.
- Trichocottus** Soldatov & Pavlenko, 151; orthotype T. BRASHNIKOWI Soldatov & Pavlenko.
2347. STEINDACHNER (1915). *Beiträge zur Kenntniss der Flussfische Sudamienkas*. Denks. Kais. Ak. Wiss. Wien, V, 1915.
FRANZ STEINDACHNER.

Æquidens Steindachner, 34; orthotype *TETRAGONOPTERUS FASSLII* Steind. Name preoccupied by *ÆQUIDENS* Eigenmann & Bray.

Pseudepterus Steindachner, 82; orthotype *AUCHENIPTERUS HASEMANI* Steind.

2348. TANAKA (1915). *Ten New Species of Japanese Fishes*. (Text in Japanese). Tokyo Zool. Mag. XXVII, 1915, 556-568.

SHIGEHO TANAKA.

Kanekonia Tanaka, 556; orthotype *K. FLORIDA* Tanaka. (In Japanese, Nov. 15, 1915; English version Nov. 28, 1918).

Asterorhombus Tanaka, 567; orthotype *A. STELLIFER* Tanaka.

Scidorhombus Tanaka, 567; orthotype *S. PALLIDUS* Tanaka.

Lubricogobius Tanaka, 567; orthotype *L. EXIGUUS* Tanaka.

Henicichthys Tanaka, 568; orthotype *H. FORAMINOSUS* Tanaka.

Leptoscolopsis Tanaka, XIX; orthotype *L. NAGASAKIENSIS* Tanaka.

2349. WOODWARD (1915). *The Fossil Fishes of the English Wealden and Purbeck Formations*, I, 1-48. London Mon. Palaeont. Soc.

ARTHUR SMITH WOODWARD.

Hylæobatis Woodward, 19; orthotype *H. PROBLEMATICA* Woodw. (fossil) (*MYLIOBATIDÆ*).

1916.

2350. BERG (1916). *Les poissons des eaux douces de la Russie*. Moscow. (In Russian.) 1-563.

LEW SEMENOVICH BERG.

Leucalburnus Berg, 292; orthotype *PHOXINUS SATUNINI* Berg.

Acanthalburnus Berg, 299; orthotype *ALBURNUS PUNCTULATUS* Kessler.

Capoëtobrama Berg, 316; orthotype *ACANTHOBrama KUSCHAKEWITSCHI* Kessler.

2351. BOGOLIUBOV (1916). (Russian Title.) *Sur l'ichthyodorulite du Polyrhizus concavus Trd. de Miatchkovo*. Gouv. de Moscou Ann. Geol. Miner. Novo Alexandrija, XVI.

N. N. BOGOLIUBOV.

Paracymatodus Bogoliubov, 197; orthotype *CYMATODUS RECLINATUS* Trautschold (fossil) (*PETALODONTIDÆ*). Substitute for *CYMATODUS* Trautschold (not of Newberry), preoccupied.

2352. BOULENGER (1916). *Catalogue of the Fresh-water Fishes of East Africa*.

GEORGE ALBERT BOULENGER.

Otoperca Boulenger, 130; orthotype *LARIMUS AURITUS* Cuv. & Val. A synonym of *BRACHYDEUTERUS* Gill.

Lobochilotes Boulenger, 280; orthotype *TILAPIA LABIATA* Boulenger.

Liauchenoglanis Boulenger, 314; orthotype *L. MACULATUS* Boulenger.

Champsochromis Boulenger, 433; orthotype *C. CÆRULEA* Boulenger.

2353. EIGENMANN (1916). *New and Rare Fishes from South American Rivers*. Ann. Carnegie Mus., X.

CARL H. EIGENMANN.

Cetopsorhamdia Eigenmann, 83; orthotype *C. NASUS* Eigenmann.

2354. EIGENMANN (1916). *On Apareiodon, a New Genus of Characid Fishes*. Ann. Carnegie Museum, X.

CARL H. EIGENMANN.

Apareiodon Eigenmann, 71; orthotype **PARODON PIRACICABÆ** Eigenmann.

2355. FOWLER (1916). *Notes on Fishes of the Orders Haplomi and Microcyprini*. Proc. Ac. Nat. Sci. Phila., LXVIII.

HENRY WEED FOWLER.

Galasaccus Fowler, 417; orthotype **HYDRARGYRA SIMILIS** Baird & Grd. A substitute for **HYDRARGYRA** as commonly used, **HYDRARGYRA SWAMPINA** Lac. being a true **FUNDULUS**.

Chriopeops Fowler, 425; orthotype **LUCANIA GOODEI** Jordan.

Oxzygonectes Fowler, 425; orthotype **HAPLOCHILUS DOWI** Gthr.

2356. GILBERT & HUBBS (1916). *Report on the Japanese Macruroid Fishes Collected by the United States Fisheries Steamer "Albatross" in 1901, with a Synopsis of the Genera*. Proc. U. S. Nat. Mus., LI, 135-214.

CHARLES HENRY GILBERT; CARL LEAVITT HUBBS.

Squalogadus Gilbert & Hubbs, 156; orthotype **S. MODIFICATUS** Gilbert & Hubbs.

2357. HENN (1916). *On Various South American Pœcilid Fishes*. Ann. Carnegie Mus., X, pp. 93-142.

ARTHUR WILBUR HENN.

Diphyacantha Henn, 113; orthotype **D. CHOCOËNSIS** Henn.

Neoheterandria Henn, 117; orthotype **N. ELEGANS** Henn.

Phalloptychus Henn, 121; orthotype **P. EIGENMANNI** Henn.

Phallatorhynus Henn, 126; orthotype **P. FASCIOLATUS** Henn.

2358. HUBBS (1916). *Notes on the Marine Fishes of California*. Univ. of California Pub. in Zoology, XVI, 1916, 153-169.

CARL LEAVITT HUBBS.

Lestidiops Hubbs, 154; orthotype **L. SPHYRÆNOPSIS** Hubbs.

2359. JORDAN (1916). *The Nomenclature of American Fishes as Affected by the Opinions of the International Commission on Zoological Nomenclature*. Copeia (April 12, 1916).

DAVID STARR JORDAN.

Sufflamen Jordan, 27; orthotype **BALISTES CAPISTRATUS** Shaw. Substitute for **PACHYNATHUS** Sw., preoccupied in Spiders as **PACHYGNATHUS**.

2360. McCULLOCH (1916). *Ichythyological Items*. Mem. Queensland Mus., V (July 10, 1916).

ALLAN RIVERSTON McCULLOCH.

Phyllichthys McCulloch, 67; orthotype **P. PUNCTATUS** McCulloch.

2361. MEEK & HILDEBRAND (1916). *The Fishes of the Fresh Waters of Panama*. Field Museum of Natural History, No. 191; X, Dec. 28, 1916.

SETH EUGENE MEEK; SAMUEL F. HILDEBRAND.

Leptoancistrus Meek & Hildebrand, 254; orthotype **ACANTHICUS CANENSIS** Meek & Hildebrand.

Pseudocheirodon Meek & Hildebrand, 275; orthotype **P. AFFINIS** Meek & Hildebrand.

Leptohilypnus Meek & Hildebrand, 361; orthotype **L. FLUVIATILIS** Meek & Hildebrand.

Microleotris Meek & Hildebrand, 362; orthotype **M. AFFINIS** Meek and Hildebrand.

- Hemieleotris** Meek & Hildebrand, 364; orthotype *ELEOTRIS LATIFASCIATUS* Meek & Hildebrand.
2362. OGILBY (1916). *Check List of the Cephalochordates, Selachians and Fishes of Queensland*, Part 1. Mem. Queensl. Mus., 1916.
JAMES DOUGLAS OGILBY.
- Dasybatus** (Klein; Walbaum) Ogilby, 87; orthotype *RAJAPASTINACA* L. Same as *DASYATIS* Raf. The names reproduced by Walbaum from Klein are rejected by the International Commission.
- Cestracion** (Walbaum after Klein) Ogilby, 81; orthotype *SQUALUS ZYGÆNA* L. The generic names quoted by Walbaum in 1792 from Klein are rejected by the International Commission.
2363. OGILBY (1916). (*Læpichthys*.) Mem. Queensland Mus., V.
JAMES DOUGLAS OGILBY.
- Læpichthys** Ogilby, 173; orthotype *ACANTHURUS ROSTRATUS* Gthr.
2364. REGAN (1916). *A Revision of the Clupeoid Fishes of the Genera Pomolobus, Brevoortia and Dorosoma and Their Allies*. Ann. Mag. Nat. Hist., 1916, 297 et seq.
CHARLES TATE REGAN.
- Paralosa** Regan, 167; orthotype *ALOSA KANAGURTA* Blkr. Name said to be preoccupied (*PARALOSA* Blkr.), replaced by *HILSA* Regan, 1916. But I do not find a *PARALOSA* in Bleeker's writings.
- Ethmalosa** Regan, 302; orthotype *ALAUSA DORSALIS* Cuv. & Val.
- Hilsa** Regan, 303; logotype *ALOSA KANAGURTA* Blkr. Substitute for *PARALOSA* Regan, said to be preoccupied.
- Nematalosa** Regan, 312; orthotype *CLUPEA NASUS* Bloch.
- Gonialosa** Regan, 315; orthotype *CHATOËSSUS MODESTUS* Day.
2365. REGAN (1916). *The Morphology of the Cyprinodont fishes of the subfamily Phallostethinæ*, etc. Proc. Zool. Soc. London.
CHARLES TATE REGAN.
- Neostethus** Regan, 14; logotype *N. LANKESTERI* Regan.
2366. RIBEIRO (1916). *Fauna Brasiliensis, Peixes, V*. Archiv. Museu Nacional, XVII. Mullidæ.
ALÍPIO DE MIRANDA RIBEIRO.
- Pseudomulloidés** Ribeiro, 3; orthotype *P. CARMINEUS* Ribeiro.
2367. ROULE (1916). *Notice préliminaire sur quelques espèces nouvelles provenant des croisières de S. A. S. le Prince de Monaco*. Bull. Inst. Océanographique Monaco.
LOUIS ROULE.
- Belonopteris** Roule, 13; orthotype *B. VIRIDENSIS* Roule.
- Barathrites** Roule, 17; orthotype *B. ABYSSORUM* Roule.
- Echinomacrurus** Roule, 22; orthotype *E. MOLLIS* Roule.
- Bathysolea** Roule, 28; orthotype *B. ALBIDA* Roule.
2368. TANAKA (1916). *Nihon san gyorui no san shinshu (Three New Species of Japanese Fish)*. Dobuts. Z. Tokyo, XXVII.
SHIGEHO TANAKA.
- Paragyrops** Tanaka, 141; orthotype *P. EDITA* Tanaka.
- Pluviopsetta** Tanaka, 141; orthotype *P. TANIGUCHI* Tanaka.

2369. TANAKA (1916). *Nihon san gyorui no shi shinshu (Two New Species of Japanese Fishes)*. Dobuts. Z. Tokyo, XXVIII.

SHIGEHO TANAKA.

Brevigobio Tanaka, 102; orthotype B. KAWABATÆ Tanaka.

2370. THOMPSON (1916). *Fishes Collected by the United States Bureau of Fisheries Steamer "Albatross" during 1888, between Montevideo, Uruguay, and Tome, Chile, on the Voyage Through the Straits of Magellan*. Proc. U. S. Nat. Mus. L. (May 20, 1916).

WILLIAM FRANCIS THOMPSON.

Ethmidium Thompson, 458; orthotype CLUPEA NOTACANTHOIDES Steind. = ALAUSA MACULATA Cuv. & Val.

2371. WAITE (1916). *Fishes, Australasian Antarctic Expedition*. Sci. Rep.

EDGAR RAVENSWOOD WAITE.

Aconichthys Waite, 30; orthotype A. HARRISSONI Waite.

Cygnodraco Waite, 32; orthotype C. MAWSONI Waite.

Dacodraco Waite, 35; type D. HUNTERI Waite.

Notosudis Waite, 56; orthotype N. HAMILTONI Waite.

Aurion Waite, 63; orthotype A. EFFULGENS Waite.

2372. WATSON & DAY (1916). *Notes on Some Palæozoic Fishes*. Mem. Lit. Phil. Doc. Manchester, LX.

DAVID MEREDITH SEARES WATSON; HENRY DAY.

Pentlandia Watson & Day, 34; orthotype DIPTERUS MACROPTERUS Traquair (fossil).

2373. WEBER & BEAUFORT (1916). *The Fishes of the Indo-Australian Archipelago, III, Ostariophysii, Apodes, Synbranchi*.

MAX WEBER; LIEVEN FERDINAND DE BEAUFORT.

Brachydanio Weber & Beaufort, 85; orthotype DANIO ALBOLINEATA Blyth.

Lissochilus Weber & Beaufort, 167; logotype L. SUMATRANUS Weber & Beaufort.

Hemerorhinus Weber & Beaufort, 281; orthotype SPHAGEBRANCHUS HEYNINGI Weber.

Cheiloprion Weber, 342; orthotype POMACENTRUS LABIATUS Day.

2374. WOODWARD (1916). *The Fossil Fishes of the English Wealden and Purbeck Formations, II*. Paleontological Society, LXIX, October, 1916.

ARTHUR SMITH WOODWARD.

Hylæobatis Woodward, 19; orthotype H. PROBLEMATICA Woodw. (fossil).

1917.

2375. EASTMAN (1917). *Fossil Fishes in the United States National Museum*. Proc. U. S. Nat. Mus., 1917. LII.

CHARLES ROCHESTER EASTMAN.

Parafundulus Eastman, 291; orthotype P. NEVADENSIS Eastman (Pleistocene of Nevada fossil).

2376. EIGENMANN (1917). *The American Characidae*. Mem. Mus. Comp. Zool., XLIII, pt. 1, 1917.

CARL H. EIGENMANN.

Entomolepis Eigenmann, 63; orthotype TETRAGONOPTERUS STEINDACHNERI Eigenmann.

2377. EIGENMANN (1917). *New and Rare Species of South American Silurida in the Carnegie Museum*. Ann. Carneg. Mus., XI, 1917.
CARL H. EIGENMANN.
Cheirocerus Eigenmann, 398; orthotype *C. EQUUS* Eigenmann.
Entomocorus Eigenmann, 403; orthotype *E. BENJAMINI* Eigenmann.
2378. EVERMANN & RADCLIFFE (1917). *Fishes of the West Coast of Peru and the Titicaca Basin*. Bull. U. S. Nat. Mus., XCV, 1917.
BARTON WARREN EVERMANN; LEWIS RADCLIFFE.
Epelytes Evermann & Radcliffe, 71; orthotype *E. PUNCTATUS* Evermann & Radcliffe.
Xenoscarus Evermann & Radcliffe, 129; orthotype *X. DENTICULATUS* Evermann & Radcliffe.
2379. JORDAN (1917). *Notes on Glossamia and Related Genera of Cardinal Fishes*. Copeia, May 24, 1917, pp. 46, 47.
DAVID STARR JORDAN.
Nectamia Jordan, 46; orthotype *APOGON FUSCUS* Quoy & Gaimard.
Xystramia Jordan, 46; orthotype *GLOSSAMIA PANDIONIS* G. & B.
Zoramia Jordan, 46; orthotype *APOGON GRAEFFEI* Gthr.
2380. JORDAN (1917). *The Genera of Fishes, etc.* Stanford Univ. Publ., University Series, June 1, 1917.
DAVID STARR JORDAN.
Thrissocles Jordan, 151; orthotype *CLUPEA SETIROSTRIS* Broussonet. Substitute for *THRYSSEA* Cuv., preoccupied by *THRISSEA* Raf.
2381. JORDAN (1917). *Changes in names of American Fishes*. Copeia, Oct. 4, 1917.
DAVID STARR JORDAN.
Stenesthes Jordan, 87; orthotype *SPARUS CHRYSOPS* L. = *S. ARGYROPS* L. Replaces *STENOTOMUS* Gill, regarded as preoccupied by *STENOTOMA*.
Xantocles Jordan, 88 (Oct. 4, 1917); orthotype *ZANIOLEPIS FRENATUS* Eigenmann.
Thoburnia Jordan & Snyder, 88 (Oct. 4, 1917); orthotype *CATOSTOMUS RHOTHÆCUS* Thoburn.
2382. JORDAN & HUBBS (1917). *Notes on a Collection of Fishes from Port Said, Egypt*. Ann. Carneg. Mus., XI, 461-468.
DAVID STARR JORDAN; CARL LEAVITT HUBBS.
Glaucus (Klein) Jordan & Hubbs, 463; orthotype *SCOMBER GLAUCUS* L. Same as *CÆSIOMORUS* Lac. and *HYPODIS* Raf.
Dacymba Jordan & Hubbs, 464; orthotype *PRISTIPOMA BENNETTI* Lowe.
2383. NICHOLS & GRISCOM (1917). *Fresh-Water Fishes of the Congo Basin, obtained by the American Congo Expedition, 1909-1915*. Bull. Am. Mus. Nat. Hist., XXXVII.
JOHN TREADWELL NICHOLS; LUDLOW GRISCOM.
Microstomatichthyoborus Nichols & Griscom, 685; orthotype *M. BASHFORDDEANI* Nichols & Griscom. It is to be hoped that no one will attempt to break this record as to length of generic name.
Amarginops Nichols & Griscom, 713; orthotype *A. PLATUS* Nichols & Griscom.
Acanthocleithron Nichols & Griscom, 720; orthotype *A. CHAPINI* Nichols & Griscom.
Gnathobagrus Nichols & Griscom, 711; orthotype *G. DEPRESSUS* Nichols & Griscom.

2384. REGAN (1917). *A Revision of the Clupeoid Fishes of the Genus Pellonula and of Related Genera in the Rivers of Africa*. Ann. Mag. Nat. Hist., 1917, 198-207.

CHARLES TATE REGAN.

- Pæciliothrissa** Regan, 201; orthotype *P. CONGICA* Regan.
Potamothrissa Regan, 203; orthotype *PELLONULA OBTUSIROSTRIS* Boulenger.
Cynothrissa Regan, 203; orthotype *C. MENTO* Regan.
Stolothrissa Regan, 206; orthotype *S. TANGANICÆ* Regan.
Limnothrissa Regan, 207; orthotype *PELLONULA MICRODON* Boulenger.

2385. SEALE (1917). *New Species of Apodal Fishes*. Bull. Mus. Comp. Zool., LXI.
 ALVIN SEALE.

- Garmannichthys** Seale, 80; orthotype *G. DENTATUS* Seale.

2386. SNYDER (1917). *The Fishes of the Lahontan System of Nevada and North-eastern California*. Bull. Bur. Fisheries Washington, XXXV (Sept. 28, 1917).
 JOHN OTTERBEIN SNYDER.

- Leucidius** Snyder, 64; orthotype *L. PECTINIFER* Snyder.

- 2387-2388. TANAKA (1917). *Figures and Descriptions of the Fishes of Japan, including Riukiu Islands, Bonin Islands, Formosa, Kurile Islands, and Southern Sakhalin*. (Issued in many parts, 1915 to 1918.)

SHIGEHO TANAKA.

- Rosanthias** Tanaka, 198; orthotype *R. AMGENUS* Tanaka. (In Japanese, July 15, 1917; English version, p. 503, Sept. 28, 1918.)
Cyprinocirrhites Tanaka, 368; orthotype *C. UI* Tanaka (Japanese, Sept. 15, 1917; English version, p. 507, Sept. 28, 1918).

1918.

2389. ANNANDALE (1918). *Fish and Fisheries of the Inlé Lake*. Rec. Ind. Mus., XIV, 33-64.

NELSON ANNANDALE.

- Chaudhuria** Annandale, 33-64; orthotype *C. CAUDATA* Annandale. (A *MASTACEMBELUS* without spines, *vide* Regan, note on *CHAUDHURIA*. Ann. Mag. Nat. Hist., 198, Feb., 1919.)

2390. EIGENMANN (1918). (*South American Fishes*). Proc. Am. Philos. Soc., LVI, Jan., 1918.

CARL H. EIGENMANN.

- Scleronema** Eigenmann, 691; orthotype *S. OPERCULATUM* Eigenmann.
Branchoica Eigenmann, 702; orthotype *B. BERTONII* Eigenmann.

2391. EIGENMANN (1918). *The Pygidüda, a Family of South American Cat-fishes*. Ann. Carneg. Mus., VII, Sept., 1918, 259-369.

CARL H. EIGENMANN.

- Urinophilus** Eigenmann, 359; logotype (indicated in Science, 1920, 441) *VANDELLIA SANGUINEA* Eigenmann.

2392. HUBBS (1918). *A Revision of the Viviparous Perches*. Proc. Biol. Soc. Washington, May 16, 1918.

CARL LEAVITT HUBBS.

Tocichthys Hubbs, 12; orthotype *HYPERPROSOPON AGASSIZI* Gill.

Amphigonopterus Hubbs, 13; orthotype *ABEONA AURORA* J. & G.

2393. HUBBS (1918). *Colpichthys, Thyrinops, and Austromeniida, New Genera of Atherinoid Fishes from the New World*. Proc. Ac. Nat. Sci. Phila. for 1917 (1918).

CARL LEAVITT HUBBS.

Colpichthys Hubbs, 305; orthotype *ATHERINOPS REGIS* Jenkins & Evermann.

Thyrinops Hubbs, 306; orthotype *ATHERINICHTHYS PACHYLEPIS* Gthr.

Austromeniida Hubbs, 307; orthotype *BASILICHTHYS REGILLUS* Abbott. Replaces *BASILICHTHYS* of Abbott, not of Girard.

2394. HUBBS (1918). *Supplementary Notes on Flounders from Japan, with Remarks on the Species of Hippoglossoides*. Ann. Zool Japonensis; IX, pt. 4, 1918, pp. 369-376.

CARL LEAVITT HUBBS.

Tanakius Hubbs, 370; orthotype *MICROSTOMUS KITAHARÆ* Jordan & Starks. (Not *TANAKIA* Jordan & Metz.)

2395. McCULLOCH & WAITE (1918). *Records of the South Australian Museum*. ALLAN RIVERSTON McCULLOCH; EDGAR RAVENSWOOD WAITE.

Helcogramma McCulloch & Waite, 51; orthotype *H. DECURRENS* McCulloch & Waite.

Trianectes McCulloch & Waite, 53; orthotype *T. BUCEPHALUS* McCulloch & Waite.

Echinophryne McCulloch & Waite, 86; orthotype *E. CRASSISPINA* McCulloch & Waite.

Trichophryne McCulloch & Waite, 68; orthotype *ANTENNARIUS MITCHELLI* Morton.

2396. OGILBY (1918). Ann. Queensland Mus., VI.

JAMES DOUGLAS OGILBY.

Acanthagonia Ogilby, 45; orthotype *A. POWERI* Ogilby.

2397. RIBEIRO (1918). *Historia Natural. Zoologia: Cichlida*. Comm. Linhas Teleg. de Matto Grosso ao Amazonas.

ALIPIO DE MIRANDA RIBEIRO.

Nannacara Ribeiro, 14; orthotype *ACARA DORSIGERA* Heckel.

Pseudopercis Ribeiro, 184; orthotype *P. NUMIDA* Ribeiro.

2398. RIBEIRO (1918). *Dezesetes especies de peixes Brasileiros*. Museu Paulista.

ALIPIO DE MIRANDA RIBEIRO.

Pleurophysus Ribeiro, 8; orthotype *P. HYDROSTATICUS* Ribeiro.

Tannayia Ribeiro, 14; orthotype *T. MARGINATA* Ribeiro.

Ceratocheilus Ribeiro, 16; orthotype *C. OSTEOMYSTAX* Ribeiro.

2399. RIBEIRO (1918). *Commerc. Geogr. Geol. Soc. Saõ Paulo*.

ALIPIO DE MIRANDA RIBEIRO.

Typhlobagrus Ribeiro, 3; orthotype *T. KRONEI* Ribeiro.

2400. RIBEIRO (1918). *Lista dos peixes Brasileiros do Museu Paulista*.

ALIPIO DE MIRANDA RIBEIRO.

Paragonus Ribeiro, 3; orthotype *P. SERTORII* Ribeiro. Name twice preoccupied: Gill, Guichenot; replaced by *RIBEIROA* Jordan, new name, given in honor of the excellent Brazilian naturalist who made this form known.

Gymnogeophagus Ribeiro, 6; orthotype *G. CYANOPTERUS* Ribeiro.

Decapogon Ribeiro; orthotype *D. UROSTRIATUM* Ribeiro.

2401. RIBEIRO (1918). *Dous generos e tres especies novas de peixes Brasileiros*, . . . Museu Paulista.

ALÍPIO DE MIRANDA RIBEIRO.

Homodietus (Ihering) Ribeiro, 23; orthotype *H. PAULENSIS* Rudolph. Same as *PSEUDOSTEGOPHILUS* Ihering, on page 22 of the same paper.

Scleromystax Ribeiro; orthotype *S. KRONEI* Ribeiro, not of Ogilby.

2402. TANAKA (1918). *Nihon San Gyorui—No Juisshu Shin (Eleven New Species of Japanese Fishes)*. Journ. Zool. Studies, Imperial University, Tokyo, XXXIX, No. 13. (In Japanese only.)

SHIGEHO TANAKA.

Vegetichthys Tanaka, 7; orthotype *V. TUMIDUS* Tanaka. (*LUTIANIDÆ*.)

Sebasteella Tanaka, 10; orthotype *S. LITTORALIS* Tanaka (*SCORPÆNIDÆ*.)

2403. TANAKA (1918). *Nihon San Gyorui—No Roku Shin (Six New Species of Japanese Fishes)*. Journ. Zool. Studies, Imperial University, Tokyo, XXIX, No. 345. (In Japanese only.)

SHIGEHO TANAKA.

Mustelichthys Tanaka, 301; orthotype *M. UI* Tanaka (*SERRANIDÆ*.)

2404. TANAKA (1918). *Figures and Descriptions of the Fishes of Japan, including Riukiu Islands, Bonin Islands, Formosa, Kurile Islands, Korea and Southern Sakhalin*. (In English as well as in Japanese.)

SHIGEHO TANAKA.

Selenanthias Tanaka, 516; orthotype *S. ANALIS* Tanaka (Dec. 28, 1918).

Leptanthias Tanaka, 525; orthotype *L. KASHIWÆ* Tanaka (Dec. 28, 1918).

2405. WOODWARD (1918). *The Fossil Fishes of the English Wealden and Purbeck Formations, Part 2*. Paleontological Society, February, 1918.

ARTHUR SMITH WOODWARD.

Eomesodon Woodward, 56; orthotype *MESODON BARNESI* Woodw. (fossil).

Enchelyolepis Woodward, 80; orthotype *MACROSEMIUS ANDREWSI* Woodw. (Fossil).

2406. WOODWARD (1918). *On Two New Elasmobranchs . . . from the Upper Jurassic Lithographic Stone of Bavaria*. Proc. Zool. Soc. London, 231-235, June 11, 1918.

ARTHUR SMITH WOODWARD.

Protospinax Woodward, 233; orthotype *P. ANNECTANS* Woodw.

1919.

2407. COCKERELL (1919). *Some American Cretaceous Fish Scales, with Notes on the Classification and Distribution of Cretaceous Fishes*. Bull. U. S. Geol. Surv. for 1918. *Prof. Paper 120*

THEODORE DRU ALLISON COCKERELL.

Helmintholepis Cockerell, 176; orthotype *H. VERMICULATUS* Cockerell (fossil *ELOPIDÆ*).

Chicolepis Cockerell, 176; orthotype *C. PUNCTATUS* Cockerell (fossil *PTEROTHRISIDÆ*).

- Leucichthyops** Cockerell, 180; orthotype *L. VAGANS* Cockerell (fossil SALMONIDÆ).
Erythrinolepis Cockerell, 182; orthotype *E. MOWRIENSIS* Cockerell (fossil ERYTHRINOLEPIDÆ).
Halecodon Cockerell, 183; orthotype *H. DENTICULATUS* Cockerell (fossil ENCHODONTIDÆ).
Gonorrhynchops Cockerell, 183; orthotype *G. WOODWARDI* Cockerell (fossil GONORHYNCHIDÆ: English Chalk).
Centrarchites Cockerell, 188; orthotype *C. COLORADENSIS* Cockerell (fossil EUCENTRARCHIDÆ: basal Eocene).
Benthosphyræna Cockerell, 172; orthotype *ALEPOCEPHALUS MACROPTERUS* Vaillant. This name, noted in passing by Cockerell, was found by him on specimens in the United States National Museum. It was doubtless a manuscript name of Goode & Bean, never published by them, or possibly of Gill. As the genus seems to be valid, the name is accepted by Cockerell and may date from his reference to it, which reads as follows: "BENTHOSPHYRÆNA MACROPTERA, also referred to the ALEPOCEPHALIDÆ, has small round scales wholly unlike those of ALEPOCEPHALUS." That BENTHOSPHYRÆNA was an unpublished name was not known to Cockerell when he examined the scales of its type species.
2408. EIGENMANN (1919). *Trogloglanis pattersoni*, a New Blind Fish from San Antonio, Texas. Proc. Am. Philos. Soc., LVIII, 397-400.
 CARL H. EIGENMANN.
Trogloglanis Eigenmann, 397; orthotype *T. PATTERSONI* Eigenmann (a blind cave representative of the genus RABIDA).
2409. EIGENMANN & EIGENMANN (1919). *Steindachneridion*. Science, November, 1919.
 CARL H. EIGENMANN; ROSA SMITH EIGENMANN.
Steindachneridion Eigenmann & Eigenmann; logotype STEINDACHNERIA AMBYLURA Eigenmann & Eigenmann (SILURIDÆ). Substitute for STEINDACHNERIA Eigenmann & Eigenmann, 1888, preoccupied in MACROURIDÆ.
2410. HUSSAKOF & BRYANT (1919). *Catalog of the Fossil Fishes in the Museum of the Buffalo Society of Natural Sciences*. Bull. Buffalo Soc. Nat. Sci., Vol. XII.
 LOUIS HUSSAKOF; WILLIAM L. BRYANT.
Perissognathus Hussakof & Bryant, 81; orthotype *P. ADUNCUS* (based on a mandible) (fossil ARTHRODIRA, Upper Devonian, New York).
Machærognathus Hussakof & Bryant, 83; orthotype *M. WOODWARDI* (fossil mandible ARTHRODIRA, Upper Devonian, New York).
Copanognathus Hussakof & Bryant, 84; orthotype *C. CRASSUS* (fossil mandible ARTHRODIRA, Upper Devonian, New York).
Deinodus Hussakof & Bryant, 123; orthotype *D. BENNETTI* (fossil dental plate PTYCTODONTIDÆ, Upper Devonian, New York).
Acmoniodus Hussakof & Bryant, 151; orthotype *A. CLARKEI* (fossil dental plate ELASMOBRANCHI, Upper Devonian, New York).
Atopacanthus Hussakof & Bryant, 157; orthotype *A. DENTATUS* (fossil spine ICHTHYODORULITES, Upper Devonian, New York).
2411. JORDAN (1919). *On Certain Genera of Atherine Fishes*. Proc. U. S. Nat. Mus., LV, 309-311.
 DAVID STARR JORDAN.
Hubbesia Jordan, 310; orthotype *MENIDIA GILBERTI* Jordan & Bollman.

2412. JORDAN (1919). *Note on Gistel's Genera of Fishes*. Proc. Ac. Nat. Sci. Phila., April 10, 1919, pp. 335-340.

DAVID STARR JORDAN.

Urocles Jordan, 338, 343; orthotype *M. LEPIDOTUS* Ag. (fossil). Substitute for *MEGALURUS* Ag. and *SYNERGUS* Gistel, both names being preoccupied.

2413. JORDAN (1919). *New Genera of Fishes*. Proc. Ac. Nat. Sci. Phila., April 10, 1919, pp. 341-344.

DAVID STARR JORDAN.

Aoria Jordan, 341; orthotype *BAGRUS LAMARII* Cuv. & Val. Substitute for *MACRONES* Duméril, preoccupied (Newman, 1841, a genus of Beetles).

Azurella Jordan, 341; orthotype *POMACENTRUS BAIRDI* Gill.

Cotylichthys Jordan, 341; orthotype *COTYLIS FIMBRIATA* M. & T. Same as *COTYLIS* Gthr., not of Müller & Troschel, whose original type is a species of *GOBIESOX* Lac.

Extrarius Jordan, 341; orthotype *HYBOPSIS TETRANEMUS* Gilbert.

Eperlanio Jordan, 341; orthotype *OSMERUS ALBATROSSIS* J. & G.

Erythrocles Jordan, 341; orthotype *ERYTHRICHTHYS SCHLEGELI* Blkr. Substitute for *ERYTHRICHTHYS* T. & S., preoccupied by *ERYTHRICHTHYS* Bon.

Nautopædium Jordan, 342; orthotype *PORICHTHYS PLECTRODON* J. & G. = *BATRACHUS POROSISSIMUS* Cuv. & Val.

Irillion* Jordan, 342; orthotype *COREGONUS OREGONIUS* Jordan & Snyder.

Oshimia Jordan, 342; orthotype *MICRACANTHUS MARCHEI* Sauvage. Name a substitute for *MICRACANTHUS* Sauvage, 1878, preoccupied by *MICRACANTHUS* Sw. Named for Masamitsu Oshima, of the Bureau of Scientific Research of Formosa.

Rheocles Jordan & Hubbs, 343; orthotype *ELEOTRIS SIKORÆ* Sauvage.

Syletor Jordan, 343; orthotype *PISODONOPHIS CRUENTIFER* G. & B.

Unagius Jordan, 343; orthotype *CRYPTOPHTHALMUS ROBUSTUS* Franz. Substitute for *CRYPTOPHTHALMUS* Franz, preoccupied.

Verater Jordan, 343; orthotype *OLIGOPUS ATER* Risso. Substitute for *PTERIDIUM* Filippi & Verany, preoccupied by *PTERIDIUM* Scopoli.

Pnictes Jordan, 343; orthotype *ACHIOPSIS ASPHYXIATUS* Jordan & Goss. This genus differs from all other soles in having the gill opening on the right side completely closed.

Errex Jordan, 343; orthotype *GLYPTOCEPHALUS ZACHIRUS* Lockington.

Ainia Jordan, 344; orthotype *CALLOPTERUS AGASSIZI* Thiollière (fossil). Name a substitute for *CALLOPTERUS*, preoccupied in beetles; name from the locality Ain, in France.

Raiamas Jordan; orthotype *CYPRINUS BOLA* Ham. "Rajah Mas" of the anglers in India. Replaces *BOLA* Gthr., preoccupied.

Tarsistes Jordan, 344; orthotype *RHYNCHOBATIS* Philippi, 1858. No specific name. Generic name preoccupied as *RHYNCHOBATUS*. Species named *TARSISTES PHILIPPII* Jordan.

Vigil Jordan, 344; orthotype *PLEUROLEPIS PELLUCIDUS* Ag. A substitute for *PLEUROLEPIS* Ag., preoccupied in fossil fishes.

Orqueta Jordan, 344; orthotype *MICROPTERYX (MICROPUS) POLYCENTRUS* Kner. A substitute for *MICROPUS* Kner, four times preoccupied.

* "The merry wild Irillion rejoicing from fields of snow" (Dunsaney).

2414. JORDAN (1919). *Fossil Fishes of Southern California, I. Fossil Fishes of the Soledad Deposits* . . . pp. 1-12. Leland Stanford Junior University Publications, University Series, September 18, 1919.
DAVID STARR JORDAN.
- Ganolytes** Jordan, 6; orthotype *G. CAMEO* Jordan (fossil).
Rogenites Jordan, 8; orthotype *ROGENIO BOWERSI* Jordan (fossil).
Rhomurus Jordan, 9; orthotype *R. FULCRATUS* Jordan (fossil).
Auxides Jordan, 10; orthotype *THYNNUS PROPTERYGIUS* Ag. (fossil).
Bulbiceps Jordan, 12; orthotype *B. RANINUS* Jordan (fossil).
Eoperca Jordan, 12; orthotype *MIOPLONUS MULTIDENTATUS* Cope (fossil). An Eocene ally of *PERCA*, differing from *MIOPLONUS* in the presence of 12 dorsal spines and in the stronger and more numerous retrorse serrations of the preopercle.
2415. JORDAN (1919). *Description of a New Fossil Fish from Japan*. Proc. Cal. Ac. Sci., IX, 271-272. October 22, 1919.
DAVID STARR JORDAN.
- Iquius** Jordan, 271; orthotype *I. NIPPONICUS* Jordan (fossil CLUPEID).
2416. JORDAN (1919). *The Genera of Fishes, Part III*. Leland Stanford Junior University Publications, University Series, October 25, 1919.
DAVID STARR JORDAN.
- Laides** Jordan, 293; orthotype *PANGASIVS HEXANEMA* Blkr. Substitute for *LAIS* Blkr., 1860, preoccupied by *LAIS* Gistel, VIII, 1849, a tunicate, this being a substitute name for *CYNTHIA*, preoccupied.
2417. JORDAN (1919). *On Elephenor, a New Genus of Fishes from Japan*. Ann. Carneg. Museum, XII, December 16, 1919, pp. 329-343.
DAVID STARR JORDAN.
- Elephenor** Jordan, 328; orthotype *PTERACLIS MACROPUS* Bellotti.
2418. JORDAN & GILBERT (J. Z.) (1919). *Fossil Fishes of Southern California, II. Fossil Fishes of the (Miocene) Monterey Formations of Southern California*. Leland Stanford Junior University Publications, University Series, September 18, 1919, pp. 13-60.
DAVID STARR JORDAN; JAMES ZACCHEUS GILBERT.
- Xyne** Jordan & Gilbert (J. Z.), 25; orthotype *X. GREX* J. & G. (fossil CLUPEIDÆ).
Ellimmichthys Jordan, 27; orthotype *DIPLOMYSTES LONGICOSTATUS* Cope (fossil CLUPEID, Eocene, Brazil).
Alisea Jordan & Gilbert (J. Z.), 26; orthotype *A. GRANDIS* J. & G. (fossil CLUPEID).
Smithites Jordan & Gilbert (J. Z.), 30; orthotype *S. ELEGANS* J. & G. (fossil DUS-SUMIERIID).
Quæsita Jordan & Gilbert (J. Z.), 30; orthotype *Q. QUISQUILIA* J. & G. (fossil DUS-SUMIERIID).
Azalois Jordan & Gilbert (J. Z.), 32; orthotype *A. ANGELENSIS* J. & G. (fossil DUS-SUMIERIID).
Lygisma Jordan & Gilbert (J. Z.), 33; orthotype *L. TENAX* J. & G. (fossil DUS-SUMIERIID).
Forfex Jordan, 36; orthotype *F. HYPURALIS* Jordan (fossil SCOMBERESOCID).
Zanteclites Jordan & Gilbert (J. Z.), 39; orthotype *Z. HUBBSI* J. & G. (fossil ATHERINID).

- Eritima** Jordan & Gilbert (J. Z.), 40; orthotype E. EVIDES J. & G. (fossil APOGONID).
- Tunita** Jordan & Gilbert (J. Z.), 42; orthotype T. OCTAVIA J. & G. (fossil mackerel).
- Ozymandias** Jordan, 43; orthotype O. GILBERTI Jordan (fossil of unknown family, probably SCOMBRID).
- Lophar** Jordan & Gilbert (J. Z.), 44; orthotype L. MIOCÆNUS J. & G. (fossil POMATOMID).
- Eclipses** Jordan & Gilbert (J. Z.), 47; orthotype E. VETERNUS J. & G. (fossil MERLUCIID). Same as MERRIAMINA Jordan & J. Z. Gilbert.
- Lompoquia** Jordan & Gilbert (J. Z.), 49; orthotype L. RETROPES J. & G. (fossil SCIÆNOID).
- Xyrinius** Jordan & Gilbert (J. Z.), 50; orthotype X. HOUSHI J. & G. (fossil CLUPEID, mistaken for a LABROID).
- Sebasto** Jordan & Gilbert (J. Z.), 50; orthotype S. VERTEBRALIS J. & G. (fossil SCORPÆNOID).
- Rhomarchus** Jordan & Gilbert (J. Z.), 51; orthotype R. ENSIGER J. & G. (fossil SCORPÆNOID).
- Eoscorpius** Jordan & Gilbert (J. Z.), 53; orthotype E. PRIMÆVUS J. & G. (fossil of uncertain relation, probably COTTOID).
- Hayia** Jordan & Gilbert (J. Z.), 55; orthotype H. DAULICA J. & G. (fossil of uncertain relations, probably COTTOID).
- Merriamina** Jordan & Gilbert (J. Z.), 56; orthotype M. ECTENES J. & G. (fossil MERLUCIID). A synonym of ECLIPES Jordan & J. Z. Gilbert.
- Diatomœca** Jordan & Gilbert (J. Z.), 58; orthotype D. ZATIMA Jordan & Gilbert (fossil closely allied to LAMPRIIS).
- Emmachære** Jordan & Gilbert (J. Z.), 59; orthotype E. RHACHITES J. & G. (fossil SERRANID).
2419. JORDAN & GILBERT (J. Z.), (1919). *Fossil Fishes of Southern California, III. Fossil Fishes of the Pliocene Formations* . . . Leland Stanford Junior University Publ., University Series, Sept. 18, 1919, pp. 61-64.
DAVID STARR JORDAN; JAMES ZACCHEUS GILBERT.
- Ectasis** Jordan & Gilbert (J. Z.), 62; orthotype E. PRORIGER J. & G. (fossil, perhaps ELOPID).
- Arnoldina** Jordan & Gilbert (J. Z.), 63; orthotype A. INIISTIA J. & G. (fossil GADOID).
2420. JORDAN & HUBBS (1919). *Studies in Ichthyology: A Monographic Review of the Family of Atherinidæ or Silversides*. Leland Stanford Junior University Publications, Dec. 18, 1919.
DAVID STARR JORDAN; CARL LEAVITT HUBBS.
- Archomenidia** Jordan & Hubbs, 54; type ATHERINICHTHYS SALLEI Regan.
2421. OGILBY (1919). (*Tropidocaulus*).
JAMES DOUGLAS OGILBY.
- Tropidocaulus** Ogilby; orthotype BELONE PLATYURA Cuv. & Val. Substitute for EURYCAULUS Ogilby, preoccupied.
2422. NICHOLS (1919). *Um novo genero do Cascudos do familia Loricariidæ (with English translation)*. Revista do Mus. Paulista, XI.
JOHN TREADWELL NICHOLS.
- Pseudotocinclus** Nichols, 9; orthotype P. INTERMEDIUS Nichols.

2423. OSHIMA (1919). *Contributions to the Study of the Fresh-Water Fishes of the Island of Formosa*. Ann. Carneg. Museum, Pittsburgh, XII, Dec. 16, 1919, pp. 169-328.

MASAMITSU OSHIMA (1884-).

- Formosania** Oshima, 194; orthotype F. GILBERTI Oshima.
Acrossochilus Oshima, 206; orthotype GYMNOSTOMUS FORMOSANUS Regan.
Scaphesthes Oshima, 208; orthotype S. TAMUSIUENSIS Oshima.
Spinibarbus Oshima, 217; orthotype S. HOLLANDI Oshima.
Phoxiscus Oshima, 225; orthotype P. KIKUCHII Oshima.
Aristichthys Oshima, 246; orthotype LEUCISCUS NOBILIS (Gray), Richardson.
Cultricus Oshima, 252; orthotype CULTER LEUCISCULUS Kner, not Richardson; = HEMICULTER KNERI Kreyenberg.

2424. TANAKA (1919). *Figures and Descriptions of the Fishes of Japan, including Riukiu Islands, Bonin Islands, Formosa, Kurile Islands, Korea and Southern Sakhalin*. XXIX.

SHIGEHO TANAKA.

- Selenanthias** Tanaka, 516; orthotype S. ANALIS Tanaka.
Leptanthias Tanaka, 525; orthotype L. KASHIWA Tanaka.

1920.

2425. COCKERELL (1920). (*Characilepis*). Proc. U. S. Nat. Mus., 1920 (in press).

THEODORE DRU ALLISON COCKERELL.

- Characilepis** Cockerell; orthotype C. TRIPARTITUS Cockerell (fossil scales, Miocene of Peru).

2426. GILBERT & HUBBS (1920). *The Macrouroid Fishes of the Philippine Islands and the East Indies*. Bull. U. S. Bureau of Fisheries, 1919 (in press; not yet published).

CHARLES HENRY GILBERT; CARL LEAVITT HUBBS.

- Quincuncia** Gilbert & Hubbs; orthotype CÆLORHYNCHUS ARGENTATUS Smith & Radcliffe.

- Oxygadus** Gilbert & Hubbs; orthotype MACRURUS PARALLELUS Gthr.

- Hymenogadus** Gilbert & Hubbs; orthotype HYMENOCEPHALUS GRACILIS Hubbs.

- Papyrocephalus** Gilbert & Hubbs; orthotype HYMENOCEPHALUS ATERRIMUS Gilbert.

- Ventrifossa** Gilbert & Hubbs; orthotype CORYPHÆNOIDES GARMANI J. & G. (Japan).

- Atherodon** Gilbert & Hubbs; orthotype OPTONURUS ATHERODON Gilbert & Cramer.

- Lucigadella** Gilbert & Hubbs; orthotype MACROURUS NIGROMARGINATUS Smith & Radcliffe.

- Lucigadus** Gilbert & Hubbs; orthotype MACROURUS LUCIFER Smith & Radcliffe.

- Hyostomus** Gilbert & Hubbs; orthotype MACROURUS HYOSTOMUS Smith & Radcliffe.

2427. JORDAN (1920). *New Genera of Fossil Fishes from Brazil*. Proc. Acad. Nat. Sci. Phila. for 1919 (March 11, 1920), pp. 208-210.

DAVID STARR JORDAN.

- Ennelichthys** Jordan, 208; orthotype E. DERBYI Jordan (fossil).

- Brannerion** Jordan, 209; orthotype CALAMOPLEURUS VESTITUS Jordan & Branner (fossil),

- Vinctifer** Jordan, 210; orthotype BELONOSTOMUS COMPTONI Ag. (fossil).

2428. JORDAN (1920). *The Genera of Fishes, part IV.*

DAVID STARR JORDAN.

Greeleya Jordan, 493; orthotype EXIMIA RUBELLIO Greeley. Substitute for EXIMIA Greeley, preoccupied.

Ribeiroa Jordan, 564; orthotype PARAGONUS SERTORII Ribeiro; substitute for PARAGONUS Ribeiro, preoccupied.

Quisque Jordan, 571; orthotype Q. GILBERTI Jordan (a small herring from the Miocene of Elmodena, California, with very strong serræ on the belly, and the back also armed; body compressed; vertebræ, 32).

Ganoëssus Jordan, 571; orthotype GANOLYTES CLEPSYDRA J. & G. (fossil). A large herring, with enameled scales and hour-glass shaped vertebræ, differing from GANOLYTES in the much thinner scales. Vertebræ, 42.

Scomberessus Jordan, 571; orthotype SCOMBERESOX ACUTILLUS J. & G. (fossil). Differs from the living genus SCOMBERESOX in the much larger dorsal, of 16 rays.

Aristoscion Jordan, 571; orthotype A. EMPREPES Jordan. (A robust fossil SCLÆNOID, from the Miocene at Lompoc, allied to CYNOSCION, but the anal rays more numerous, 1.15 in number, the dorsal rays about XII — 1.20, and the caudal fin very large. Vertebræ 14 + 10 or 11.)

Beltion Jordan, 571; orthotype B. PERONIDES Jordan (fossil). (BELONIDÆ, distinguished from BELONE by needle-like jaws, moderate, even teeth, and larger scales; Miocene, Lompoc, California.)

Sebastoëssus Jordan, 571; orthotype S. APOSTATES Jordan (fossil). SCORPÆNIDÆ, near SEBASTODES, but the interneurals all slender and not dilated; fin spines moderate, the second anal spine not enlarged; vertebræ, 24; Miocene, Lompoc, California.

Sebastinus Jordan, 571; orthotype RIXATOR INEZLÆ J. & G. (fossil). Miocene SCORPÆNIDÆ; allied to SEBASTODES Gill, but with undilated interneural spines, and the second anal spine very elongate.

2429. JORDAN & GILBERT (1920). *The Fossil Fishes of the Diatom Beds of Lompoc, California.* Leland Stanford Junior University Publications, February, 1920.

DAVID STARR JORDAN; JAMES ZACCHEUS GILBERT.

Turio Jordan & Gilbert, 15; orthotype T. WILBURI J. & G. (fossil SCOMBRID).

Thyrsocles Jordan & Gilbert, 14, 19; orthotype THYRSITES KRIEGERI J. & G. (fossil SCOMBRID).

ThyrSION Jordan, 17; orthotype T. VELOX Jordan (fossil SCOMBRID). A synonym of THYRSOCLES J. & G.

Zaphleges Jordan, 23; orthotype Z. LONGURIO Jordan (fossil SCOMBRID).

Ocystias Jordan, 18; orthotype O. SAGITTA Jordan (fossil SCOMBRID).

Zelosis Jordan & Gilbert, 24; orthotype CLUPEA HADLEYI J. & G. (fossil, perhaps ALEPOCEPHALID).

Aræosteus Jordan & Gilbert, 25; orthotype A. ROTHI J. & G. (fossil, apparently ZAPRORID).

Rhythmias Jordan & Gilbert, 27; orthotype R. STARRII J. & G. (fossil SPARID).

Plectrites Jordan, 28; orthotype P. CLASSENI Jordan (fossil SPARID).

Lompochites Jordan, 29; orthotype L. HOPKINSI Jordan (fossil, apparently CARANGOID).

Rixator Jordan & Gilbert, 31; orthotype R. PORTEOUSI J. & G. (fossil SCORPÆNID).

Zororhombus Jordan, 39; orthotype Z. VELIGER Jordan (fossil PLEURONECTID).

Atkinsonella Jordan, 41; orthotype *A. STRIGILIS* Jordan (fossil of uncertain relationship, apparently SPARID).

2431. OSHIMA (1920). *Notes on Fresh-Water Fishes of Formosa, with Descriptions of New Genera and Species*. Proc. Ac. Nat. Sci. Phila., 1920 (July 6).

MASAMITSU OSHIMA.

Lissocheilichthys Oshima, 124; orthotype *L. MATSUDAI* Oshima.

Scaphiodontella Oshima, 125; orthotype *S. ALTICORPUS* Oshima.

Leucisculus Oshima, 128; orthotype *L. FUSCUS* Oshima.

Rasborinus Oshima, 130; orthotype *R. TAKAKAI* Oshima.

2432. REGAN (1920). *The Classification of the Fishes of the Family Cichlidae, I. The Tanganyika Genera*. Ann. Mag. Nat. Hist., V, January 1920.

CHARLES TATE REGAN.

Tylochromis Regan, 37; orthotype *PELMATOCHROMIS JENTINKI* Steind.

Heterotilapia Regan, 38; orthotype *TILAPIA BUETTIKOFERI* Boulenger.

Neotilapia Regan, 38; orthotype *CHROMIS TANGANICÆ* Gthr.

Otopharynx Regan, 38; orthotype *TILAPIA AUROMARGINATA* Boulenger.

Limnotilapia Regan, 39; orthotype *TILAPIA DARDENNII* Boulenger.

Cyathopharynx Regan, 42; orthotype *TILAPIA GRANDOCULIS* Boulenger.

Limnochromis Regan, 43; orthotype *PELMATOCHROMIS AURITUS* Boulenger.

Cyphotilapia Regan, 43; orthotype *PELMATOCHROMIS FRONTOSUS* Boulenger.

Lipochromis Regan, 45; orthotype *PELMATOCHROMIS OBESUS* Boulenger.

Neochromis Regan, 45; orthotype *TILAPIA SIMOTES* Boulenger.

Cnestrostoma Regan, 45; orthotype *PARATILAPIA POLYODON* Boulenger.

Mylochromis Regan, 45; orthotype *TILAPIA LATERISTRIGA* Gthr.

Sargochromis Regan, 45; orthotype *PARATILAPIA CODRINGTONI* Boulenger.

Labrochromis Regan, 45; orthotype *TILAPIA PALLIDA* Boulenger.

Serranochromis Regan, 45; orthotype *CHROMYS THUNBERGI* Castelnau.

Clinodon Regan, 45; orthotype *HEMITILAPIA BAYONI* Boulenger.

Callochromis Regan, 46; orthotype *PELMATOCHROMIS MACROPS* Boulenger.

Leptochromis Regan, 47; orthotype *PARATILAPIA CALLIURA* Boulenger.

Aulonocranus Regan, 47; orthotype *PARATILAPIA DEWINDTI* Boulenger.

Hemibates Regan, 49; orthotype *PARATILAPIA STENOSOMA* Boulenger.

2433. NICHOLS (1920). *A Contribution to the Ichthyology of Bermuda*. Proc. Biol. Soc. Wash., XXXIII, July 24, 1920, 59-64.

JOHN TREADWELL NICHOLS.

Bermudichthys Nichols, 62; orthotype *B. SUBFURCATUS* Nichols.

ADDITIONS AND CORRECTIONS

1817.

91. CUVIER (1817). *Règne Animal*. Ed. 1.

Myliobatis (Duméril) Cuvier, 137; logotype **RAJA AQUILA** L. As originally proposed MYLIOBATUS Duméril contained the same species as AËTOBATUS of Blainville (1916). A different type was assigned to the two by Müller & Henle (1838), who adopted both names, assigning an unwonted type to Blainville's genus. In strictness, MYLIOBATUS should be regarded as a synonym of AËTOBATUS and with **RAJA AQUILA** as the type of both, while **RAJA NARINARI** should stand as **STOASODON** Cantor.

1819.

103. RAFINESQUE (1819). *Prodrome*, etc.

Lepomis. The names **LEPIDOPOMUS** and **LEPIOPOMUS** have been produced by puristic emendations of this word. Other revisions of Rafinesque's "telescoped" Greek terms were proposed in 1878, as **MYXOSTOMA** for **MOXOSTOMA**, **HOPLADELUS** for **OPLADELUS**, **ICHTHÆLURUS** for **ICTALURUS**, **ICHTHYOBUS** for **ICTIOBUS**, **PELODICHTHYS** for **PILODICTIS**, etc.

1829.

136B. BANCROFT (1829). *Sea Devil*, etc.

Manta Bancroft, 444; orthotype **M. AMERICANA** Bancroft = **RAIA BIROSTRIS** Walbaum.

1831.

146A. CUVIER & VALENCIENNES (1831). *Histoire Naturelle des Poissons*, VIII.

Pelamys Cuvier & Valenciennes, 149; orthotype **SCOMBER SARDA** L. A synonym of **SARDA** Cuv.

Scorpis Cuvier & Valenciennes, 503; orthotype **S. GEORGIANUS** Cuv. & Val.

1837.

217A. MÜLLER & HENLE (1837). *Ueber die Gattungen der Plagiostomen*. Arch. Naturg., III.

JOHANNES MÜLLER; FREDERICH GUSTAV JAKOB HENLE.

Mr. A. R. McCulloch calls my attention to this paper, overlooked by me, in which the names **GALEOCERDO**, **RHYNCHOBATUS**, **PRISTIOPHORUS**, **STEGOSTOMA** appear.

The name **TRYGONORRHINA** was first used by Müller & Henle (*Mag. Nat. Hist.* 2, II, 90) and spelled with the double "r" as above.

Galeocerdo Müller & Henle, 308; orthotype **G. ARCTICUS** M. & H., not **G. TIGRINUS** as later given. See p. 192, *Genera of Fishes*, II.

Page 190, No. 217. The name **GYMNURA** appears not in the paper quoted, the date of which should be 1838, but in 217A, p. 400.

1838.

217A. MÜLLER & HENLE (1838). Mr. McCulloch informs me that a second article by Müller & Henle, dated Dec. 12, 1837, printed January, 1838, bearing the same title as No. 217 of our series, contains three additional genera:

Pristiurus Müller & Henle, 34; orthotype **GALEUS MELASTOMUS** Raf. This antedates Bonaparte's use of the same term (1841).

Leptocharias Müller & Henle, 36; orthotype **TRÆNODON SMITHI** Gray.

Carcharodon Müller & Henle, 37; orthotype *C. RONDELETI* M. & H. = *SQUALUS CARCHARIAS* L. According to McCulloch, the name *CARCHARODON* is not used by Smith. The earliest reference to *CARCHARODON* is apparently that of Müller & Henle (*Mag. Nat. Hist.* 2, II, 1838, 37, January). Those authors saw Smith's specimens (*vide* p. 33) and perhaps heard his paper read at the Zoological Society in September, 1837. They therefore quoted the name as of Smith. But Smith's paper was not published until February 13, 1838, he having read Müller & Henle's paper "about a month previously, in which *CARCHARODON* appeared, and he evidently withdrew it with names he refers to in his paper" (McCulloch, *in lit.*, June 28, 1920).

1844.

316. McCLELLAND (1844). *Apodal Fishes.*

Strophidon McClelland, 187; logotype *MURÆNA SATHETE* Ham.

1846.

349A. COCCO (1846). *Phanerobranchus*. *Georn. Gab. Lett. Messina Ann.*, V, VIII, 63-64.

ANASTASIO COCCO.

Phanerobranchus Cocco, 63; orthotype *P. KROHNII* Cocco, an undetermined larva; name preoccupied.

1849.

417. SMITH (1849). *Zoology of South Africa.*

Tilapia Smith, pl. 5; haplotype *T. SPARRMANNI* Smith. (Not *CHROMIS NILOTICA* as stated by error on page 244.) The last-named species is referred by Regan to *SAROTHERODON*.

1854.

No. 495, p. 256, should read:

495. BRANDT & LOWE (1854). *Description d'un nouveau genre de poisson de la famille des Murénoides*. *Mém. Sav. Étrang. St. Petersburg*, VII, 169-176.

JOHANN FRIEDRICH BRANDT; RICHARD THOMAS LOWE.

Belonopsis Brandt & Lowe, 174, etc.

1855.

533. COSTA ("1855") should be omitted and transferred to 850 (1864), the proper title being as follows:

533A. COSTA (1855). (*Cyrtorhynchus*.) *Cos. Rendic. dell Accad. Pontaniana*, 1855.

ORONZIO GABRIELE COSTA.

Cyrtorhynchus Costa; orthotype *C. LEOPOLDI* Costa, said to be a *MYCTOPHID*, of uncertain relations; figured by Costa, *Fauna del regno di Napoli*.

1858.

607-612. COSTA (1858). (*Uraleptus*.) This reference should be canceled, according to Mr. Henn. The genus *URALEPTUS* Costa should appear under No. 350, *Fauna del regno di Napoli* (1846, p. 30). GADELLA Lowe (1843) is still earlier.

612. COSTA (1858). *Luspia Casotti, nuovo genere di pesci fossili della calcarea tenera leccese, Napoli*.

ORONZIO GABRIELE COSTA.

Luspia Costa; orthotype *L. CASOTTI* Costa (fossil). An ally of *SERRANUS* Cuv.

1861.

740. GÜNTHER (1861). *Catalogue of Fishes, III.*
Cyttus Günther, 396; orthotype *CAPROS AUSTRALIS* Rich.

1862.

782. GILL (1862). The genera *LEPIDOPSETTA* and *HYP SOPSETTA* date from this paper, page 330, not from 1864.
788. GÜNTHER (1862). *Catalogue, IV.*
Atypichthys, 510; orthotype *ATYPUS STRIGATUS* Gthr.; substitute for *ATYPUS* Gthr., preoccupied.
792. *ESTHERIA* Jones (1862) should be omitted, as *ESTHERIA MIDDENDORFI* is not a fish but an Entomostracan, according to A. W. Henn. The name is twice preoccupied.

1863.

- 830A. JOHNSON (1863). *Description of Five New Species of Fish Obtained at Madeira.* Proc. Zool. Soc. London, 36-44.
 JAMES YATES JOHNSON
Neoscopelus Johnson, 44; orthotype *N. MACROLEPIDOTUS* Johnson.

1864.

850. COSTA (1864). *Paleontologia del regno di Napoli, III.* Atti. Accad. Pontan. Napoli, VIII.
 ORONZIO GABRIELE COSTA.
Cæus Costa, 65; orthotype *C. LEOPOLDI* Costa (fossil: indeterminate *ELOPIDÆ*). Misprinted *CACUS* by authors.

1865.

892. COSTA (1865), page 336. The name *HETEROLEPIS* Costa occurs in the volume quoted, but in a different paper, *Nuove osservazioni i terreni ad ittioliti delle provincie Napolitane*, etc.

1872.

1060. CASTELNAU (1872). *Ichthyology of Australia.*
Cæsioperca Castelnau, 49; orthotype *SERRANUS RASOR* Rich.
Pseudaphritis Castelnau, 92; orthotype *P. BASSI* Castelnau.

1878.

1234. CLARKE (1878). Read:
Ægeonichthys Clarke, 245; orthotype *A. APPELII* Clarke.
1243. JORDAN (1878). *Manual of Vertebrates, 2d ed.*
Cristivomer Gill & Jordan, 80; type *SALMO NAMAYCUSH* Walbaum. Here first defined; in No. 1244, the word occurs on page 89 as name only.

1880.

1310. KLUNZINGER (1880). *Müllersche Sammlung.*
Colpognathus Klunzinger, 339; orthotype *PLECTROPOMA DENTEX* Cuv. & Val.

1884.

- 1423A. GIGLIOLI & ISSEL (1884). *Pelagòs, Saggi sulla vita e sui prodotti del mare, Genova.*
 ENRICO HILLYER GIGLIOLI; RAFFAELE ISSEL.
Hymenocephalus Giglioli, 228; orthotype *H. ITALICUS* Giglioli.

1888.

1543. VAILLANT, p. 444.

Neostoma and **Eustomias** should be omitted. Both genera are of Filhol, 1884.

1894.

1689. BEAN, p. 463. Omit **CYCLOPSETTA**, a genus of Gill, of 1888.

1895.

1720. JORDAN (1895), p. 469. Add:

Garmannia Jordan, 495; orthotype **GobiUS PARADOXUS** Gthr.

1896.

Omit 1755, p. 476; duplicated.

1898

1780. BOULENGER (1898). *Lake Tanganyika*, etc. Add:**Ectodus** Boulenger, 21; logotype **E. DESCAMPSI** Boulenger.**Clariallabes** Boulenger (1900); orthotype **C. MELAS** Boulenger. This generic name, omitted in the Zoological Record, I have failed to locate.

1900.

1848, etc. The name of Jacques Pellegrin should be spelled without the acute accent.

1901.

1883. TRAQUAIR (1901). *Notes*, etc.**Cœlacanthopsis** Traquair, 113; orthotype **C. CURTA** Traquair (fossil).

1903.

1938. GILCHRIST. **CYTOSOMA** should be omitted (see No. 1977).

1904.

1975. FOWLER.

Boulengerina, inserted here by error, should be omitted. Its type is **DULES MATO** Lesson. That of **SAFOLE** (No. 2084) is **DULES TÆNIURUS**.

Omit 1993, p. 510; duplicated.

1905.

2003. BLAKE (1905). *Monograph of the Fauna of the Cornbrash, Pisces*. Pal. Soc. Mon., LIX, 1-100.

J. F. BLAKE.

Macromesodon Blake, 32; orthotype **GYRODUS MACROPTERUS** Ag. Substitute for **MESODON** Wagner, preoccupied. A synonym of **TYPODUS** Quenstedt.2018. JORDAN & EVERMANN (1905). *Aquatic Resources*, etc. Add:**Jenkinsiella** Jordan & Evermann, 83; orthotype **MICRODONOPHIS MACGREGORI** Evermann.

1913.

Omit 2282, p. 549; duplicated.

1915.

2330. BERG (1915) should be omitted. **CHILOGOBIO** is based on both **C. CZERSKII** and **C. SOLDATOVI**.

1916.

2367. ROULE.

Barathrites should be omitted. The genus is of Zugmayer (see No. 2222).

1918.

2401. IHERING.

Homodietus Ihering should be canceled. The genus **HOMODIÆTUS** is of Eigenmann & Ward (see page 522).

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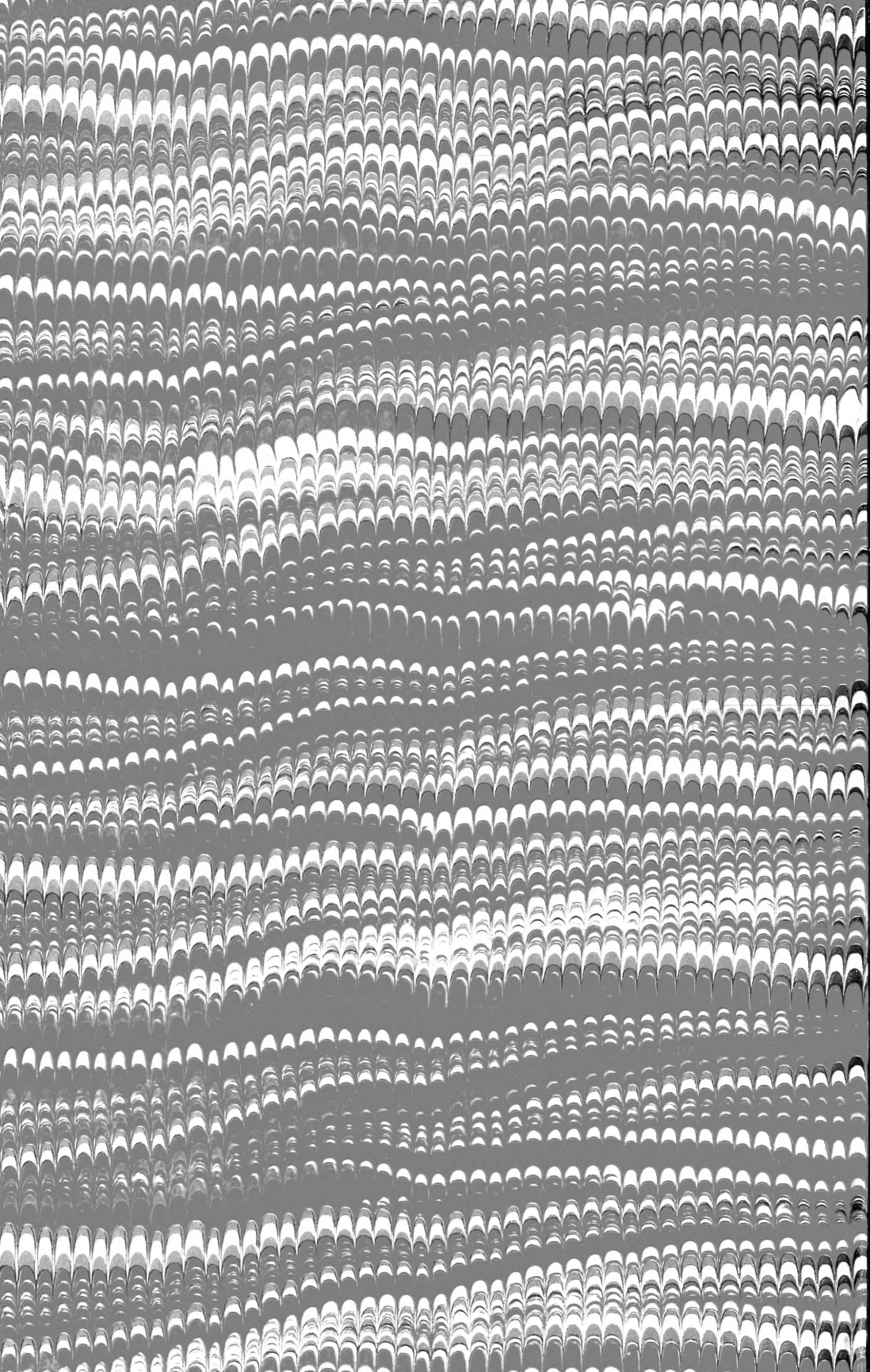
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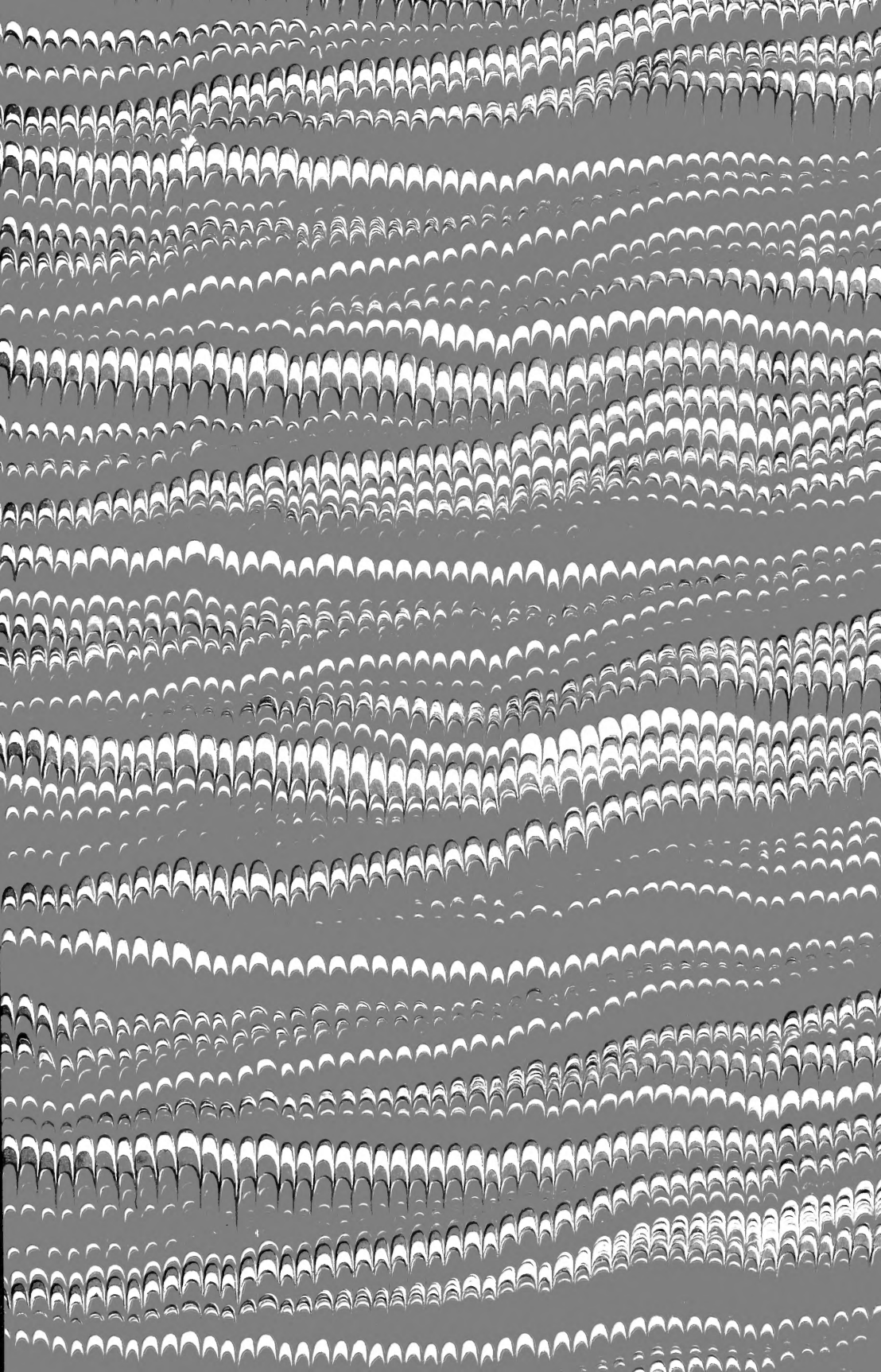
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