

CONVENTION ON INTERNATIONAL TRADE IN ENDANGERED SPECIES
OF WILD FAUNA AND FLORA



Thirty-third meeting of the Animals Committee
Geneva (Switzerland), 12 – 19 July 2024

Species specific matters

Maintenance of the Appendices

Nomenclature matters

REPORT OF THE SPECIALIST ON ZOOLOGICAL NOMENCLATURE

1. This document has been prepared by the Nomenclature Specialist of the Animals Committee, with support and input from the Secretariat and the members of the intersessional working group on Nomenclature.

Nomenclatural tasks referred to the Animals Committee at the 19th meeting of the Conference of the Parties (CoP19; Panama City, 2022)

Decisions 18.309, 18.310 (Rev. CoP19), 18.311 and 18.312 (Rev. CoP19) on the *Use of time-specific versions of online-databases as standard nomenclature references*

2. At the 19th meeting of the Conference of the Parties (CoP19; Panama City, 2022), the Parties renewed Decisions 18.309 and 18.311 directed to the Secretariat, and revised Decisions 18.310 and 18.312 directed to the Animals Committee, as follows:

Directed to the Secretariat

18.309 *The Secretariat shall:*

- a) *continue to engage copyright-holders of relevant online-databases that might serve as standard nomenclature references and explore the possible use of time-specific versions for CITES services; for example, relevant databases include but are not limited to WoRMS, Fish Base, ESCHMEYER & FRICKE's Catalog of Fishes, Amphibian Species of the World, and Corals of the World as standard references;*
- b) *report the results of its consultations to the Animals Committee.*

Directed to the Animals Committee

18.310 (Rev. CoP19) *The Animals Committee shall:*

- a) *evaluate the results of the Secretariat's consultation;*
- b) *develop recommendations on the use of time-specific online-databases as standard nomenclature references for decision by the Conference of the Parties at its 20th meeting.*

Directed to the Secretariat

18.311 *The Secretariat shall:*

- a) *seek, if possible, a time-specific version of the WoRMS database; and*
- b) *report on progress to the Animals Committee.*

Directed to the Animals Committee

18.312 (Rev. CoP19) *The Animals Committee shall:*

- a) *consider the report of the Secretariat and proceed towards recommending for adoption of a standard nomenclature reference for CITES-listed corals;*
- b) *update its list of coral taxa for which identification to genus level is acceptable, but which should be identified to species level where feasible, once a new standard nomenclature reference for CITES-listed coral species has been identified and provide the updated list to the Secretariat for dissemination; and*
- c) *report with recommendations to the 20th meeting of the Conference of the Parties.*

3. Progress towards implementation of these Decisions was reported in documents [AC31 Doc. 37](#) paragraphs 5-8, [AC31 Doc. 37 Addendum](#) paragraph 10, [AC31 SR, items 37-38](#), [SC74 Doc. 6](#) paragraphs 6-7, [CoP19 Doc. 84.1](#) paragraphs 22-28, and [AC32 Doc. 46](#) paragraphs 3-5.
4. The in-session working group on nomenclature that was established at the 32nd meeting of the Animals Committee (Geneva, June 2023) considered the matter and encouraged the Secretariat to continue its work on the use of online databases as standard nomenclature references and report back to AC33 (see summary record [AC32 SR](#)). At the time of writing, the Secretariat has not reported any progress since AC32 but will report on this matter to the 20th meeting of the Conference of Parties to CITES.

Decision 19.276 on Taxonomy and nomenclature of African elephants (*Loxodonta spp.*)

5. At CoP19, the Parties adopted Decision 19.276 directed to the Animals Committee, as follows:

Directed to the Animals Committee

19.276 *The Animals Committee shall:*

- a) *in consultation with the IUCN African Elephant Specialist Group, review the taxonomic-nomenclatural history of African elephant *Loxodonta africana* in CITES and the nomenclature that reflects accepted use in biology, at its 32nd meeting; and*
- b) *if appropriate, make a recommendation on adopting a new standard nomenclature reference for African elephants, for decision at the 20th meeting of the Conference of the Parties.*

6. An overview of the progressive taxonomic and nomenclatural considerations of African elephants was presented in document [AC32 Doc. 46](#), paragraphs 6 to 12. Traditionally, African elephants were considered to represent a single species, *Loxodonta africana* (Blumenbach 1797), and were included in the CITES Appendices as such. While originally proposed as a separate species by Matschie in 1900, the taxon *cyclotis* was either considered a synonym or a subspecies of *Loxodonta africana* until relatively recently. Only when new and better information on the morphology, genetics, behaviour and distribution of forest elephants became available did the balance of evidence strengthen in favour of recognizing African forest elephants at species rank, *Loxodonta cyclotis* (Matschie 1900).
7. An in-session working group on nomenclature was established at the 32nd meeting of the Animals Committee (Geneva, June 2023) to *inter alia* consider the scientific merit of CITES recognition of two species of African elephants, and, as appropriate, recommend the retention or an appropriate replacement nomenclature standard reference for these animals. The Animals Committee agreed the conclusions of the working group (see in-session document [AC32 Com. 2](#)). The Animals Committee acknowledged the scientific merit of recognizing the two species of African elephants, recognizing that hybrids and mixed-species groupings do occur infrequently, and noted that a relevant nomenclature standard reference for African elephants be further deliberated intersessionally, with the outcomes of deliberations reported back to AC33.

8. The Animals Committee further requested the Secretariat to include in the Notification called for in Decision 19.275, paragraph a), a request for suggested publications that could serve as nomenclatural standard reference for African elephants.
9. [Notification to the Parties No. 2023/078](#) issued on 11 July 2023 sought the perspectives of Parties and other stakeholders on the potential effects of recognizing the African forest elephant as a separate species to African savannah elephant, and invited views and suggestions on publications that could serve as nomenclatural standard reference.
10. The responses to Notification to the Parties No. 2023/078 were presented to the Standing Committee in document [SC77 Doc. 74](#). In paragraph 34, it was noted that there is a scientific consensus and agreement among respondents to the Notification that there are two distinct species of African elephants on the African continent: the forest elephant (*L. cyclotis*) and the savannah elephant (*L. africana*) and that it is time for CITES to recognize that the current listing of *Loxodonta africana* represents two distinct species.
11. In paragraph 35 of document SC77 Doc. 74 the Secretariat observed that the taxonomic change to recognize the new species of African elephant can be implemented by either recognizing *Loxodonta cyclotis* as a separate species in Appendix I in addition to *Loxodonta africana*, or by changing *Loxodonta africana* to *Loxodonta* spp. in Appendix I, i.e., by recognizing the higher taxon in Appendix I rather than the two separate species. The Secretariat was of the view that neither of the two options would have any impact on the four populations of *L. africana* in Appendix II subject to annotation A10. The Secretariat recalled that some responses to the Notification expressed a preference for listing the genus *Loxodonta* spp. in Appendix I whereas others did not express any views on this possibility. In paragraphs 40 and 42, the Secretariat notes that a genus listing in Appendix I, with the placement of the four national populations of *Loxodonta africana* in Appendix II, is a possibility that would be in compliance with the recommendation of Annex 3, section 'Higher taxa', of Resolution Conf. 9.24 (Rev. CoP17). The Secretariat noted in paragraph 39 that an amendment proposal is not required because the taxonomic change does not cause the inclusion of additional species in the Appendices, while acknowledging that this approach is only possible because the science is unambiguous (SC77 Doc. 74, paragraph 42).
12. Separately, at the 32nd meeting of the Animals Committee and the 26th meeting of the Plants Committees a [joint intersessional working group](#) was established with a mandate to, among others, consider the listing of higher taxa in the Appendices. The Party and observer members of this working group expressed views and perspectives that, on balance, demonstrated a conviction that the conversion of one or more species listings to a higher taxon listing represents a substantive change, by containing the same known species but potentially also including as-yet undiscovered species. The joint intersessional working group therefore expressed a tentative preference for nomenclatural amendments to the Appendices to be limited to splits and mergers of taxa at the same rank (see document [PC27 Doc. 40.2 / AC33 Doc. 47.2](#) on *Higher taxon listings in the Appendices*). In the case of the African elephants, that would mean the recognition of *Loxodonta cyclotis* in Appendix I as a split-out from *Loxodonta africana* as included in Appendix I (and excluding the populations placed in Appendix II), rather than including *Loxodonta* spp. in Appendix I while listing four national populations of *Loxodonta africana* in Appendix II.
13. Regarding a proposed nomenclatural standard reference, responses to Notification to the Parties No. 2023/078 identified three possible references, all of which had also been noted by the Animals Committee:
 - a) Wilson DE & Reeder DM (Eds.) 2005. *Mammals of the World. A Taxonomic and Geographic Reference*. Volume I, Third Edition. John Hopkins University Press [current standard reference for mammals].
 - b) Wilson DE & Mittermeier RA (Eds.). 2011. *Handbook of the Mammals of the World*, Volume 2. Hoofed Mammals. [pages 76-78]. Lynx Editions, Barcelona. ISBN 978-84-96553-77-4.
 - c) Mondol *et al.*, 2015. *New evidence for hybrid zones of forest and savanna elephants in Central and West Africa*. *Molecular Ecology*, 24(24): 6134-6147.

The respondents generally agreed that all three publications are outdated to some degree as regards geographical distribution, and none describes or shows the present-day distribution of savannah elephants, forest elephants, and the infrequent occurrence of hybrid African elephants, with the precision that is desired by the respondents.

14. There have been efforts made by the taxonomic community to prepare and publish an up-to-date, comprehensive review of taxonomy, nomenclature and distribution of African elephants, but this had not been published by the time of writing. Notwithstanding the imperfections for CITES purposes of the above three publications, it is evident that any of them would be a significant improvement over the present situation, where the adopted nomenclatural standard reference¹ for African elephants dates from 1993 and recognizes only a single elephant species in Africa.
15. In conclusion, taking into account the various perspectives expressed and procedural possibilities, the following recommendations for consideration by the 20th meeting of the Conference of the Parties (CoP20) seem sensible from the nomenclatural perspective:
 - a) Propose to recognize the two-species taxonomy for African elephants by deleting the current nomenclatural standard reference (Wilson & Reeder 1993) listed in the Annex to Resolution Conf. 12.11 (Rev. CoP19) on *Standard nomenclature*, and therefore including African elephants as part of the adopted nomenclatural standard reference (Wilson & Reeder 2005) for nearly all CITES-listed mammals. This publication recognizes *Loxodonta africana* and *Loxodonta cyclotis* as distinct at the species level and contains a comprehensive list of synonyms and references to original descriptions, but is unfortunately coarse-grained with regard to describing geographical distribution.
 - b) Propose to adopt a second, supplemental standard reference to refine the description of the distribution of *Loxodonta africana* and *Loxodonta cyclotis*. At the time of writing, the best available publication describing and mapping the occurrence of savannah elephants and forest elephants is Mondol *et al.* 2015, and this would be the 'default' recommendation to CoP20. However, if more precise, comprehensive publications detailing the distribution of *L. africana* and *L. cyclotis* become available before the document submission date for CoP20, it would be beneficial to consider proposing such an updated publication for adoption.

Decision 19.278 on Nomenclature for bird family and order names

16. At CoP19, the Parties adopted Decision 19.278 directed to the Animals Committee, as follows:

Directed to the Animals Committee

19.278 *The Animals Committee shall:*

- a) *evaluate the implications of adopting the HBW/BI Illustrated Checklist of the Birds of the World as the new standard nomenclature reference for birds at the species, family and order levels, including the production of a listing of supplementary nomenclatural standard references that may be needed; and*
 - b) *develop a recommendation for decision at the 20th meeting of the Conference of the Parties.*
17. Progress towards implementation of this Decision was presented in document [AC32 Doc. 46](#), paragraphs 14 to 16, noting the earlier recommendation by the Animals Committee to adopt the HBW/BI *Illustrated Checklist of the Birds of the World* as the new standard nomenclature reference for birds at the species, family and order levels, and the need for an updated detailed evaluation of the possible implications of this adoption to the listings of birds in the Appendices, and the names to be used on permits and in trade reporting.
 18. An in-session working group on nomenclature was established at AC32 to consider, *inter alia*, progress on bird checklist renewal. The Committee recommended that the review of the implications of adopting the *HBW/BI Illustrated Checklist of the Birds of the World* be continued and that a report be submitted for consideration by the Committee at AC33.
 19. Ongoing conversations by the nomenclature specialist of the Animals Committee with observers from Birdlife International and with Councillors of the Convention on Migratory Species noted that work is ongoing by the Working Group on Avian Checklists to produce a single agreed consolidated checklist of the birds of the world. The first draft of this consolidated checklist of birds is expected to be launched early in 2025, and will

¹ WILSON, D. E. & REEDER, D. M. (1993): *Mammal Species of the World: a Taxonomic and Geographic Reference*. Second edition. xviii + 1207 pp., Washington (Smithsonian Institution Press).

predictably represent a set of agreed compromises between the current divergences in the global bird checklists being used at present.

20. Under these circumstances, it appears prudent for CITES to await the preparation of this consolidated global bird checklist and evaluate and likely adopt this list. It is expected that the Convention on Migratory Species will likewise evaluate and adopt this consolidated checklist once completed, which would achieve harmonization of the taxonomy and nomenclature used by the two Conventions. Suspending possible adoption of the HBW/BI *Illustrated Checklist of the Birds of the World* at CITES CoP20 would avoid imposing the burden of adjusting bird nomenclature in national legislation of Parties, and in trade reporting databases, when it is likely that additional changes would need to be made soon afterwards as a result of adopting the consolidated bird checklist, and some of those changes may well be reversals of earlier changes.
21. Taking note of the preceding information, the Animals Committee may recommend to the 20th meeting of the Conference of the Parties to suspend work on consideration of the HBW/BI *Illustrated Checklist of the Birds of the World* as the new standard nomenclature reference for birds at the species, family and order levels, and await the availability of the consolidated checklist of birds of the world currently being prepared.

Corrections to the Appendices resulting from adopted nomenclature

The Channel-billed Toucan, *Ramphastos (vitellinus) citreolaemus*.

22. Document [AC32 Doc. 46](#), paragraph 25, describes the case whether the toucan taxon with the name *citreolaemus* is included in CITES Appendix II. The in-session working group on nomenclature that was established at the 32nd meeting of the Animals Committee (Geneva, June 2023) was mandated, *inter alia*, to consider the deletion of *Ramphastos vitellinus citreolaemus* from Appendix II, by reducing the scope of the listing of *Ramphastos vitellinus* in Appendix II to *Ramphastos vitellinus vitellinus* only. Based on the conclusions of the working group and as presented in the summary record [AC32 SR](#), the Committee agreed and proposed to include *Ramphastos vitellinus citreolaemus* in the Periodic Review, and invited the representatives for Central and South America and the Caribbean to reach out to seek a volunteer from their region for the review. The Committee further noted the offer made by the United States of America to provide technical support for the review. This matter is also included in document [PC27 Doc. 33.1 / AC33 Doc. 45.1](#), paragraph 10, on the *Overview of species under review* and will be discussed under that agenda item.

Updates to Standard nomenclature under Resolution 12.11 (Rev. CoP19) following the 19th meeting of the Conference of Parties

Preparation of Checklists

23. Document [AC32 Doc. 46](#), paragraph 18, presented some considerations for the preparation and adoption of future checklists for CITES-listed animal species. These concerned the scope of taxa to be included in a document to be used as a nomenclatural standard reference for CITES (only species listed in CITES at the time of list preparation, or also include closely-related species or higher taxa?), how much detail should be included for each listed and non-listed taxon, and the degree of editing and formatting that may be desired. The Committee recommended that in terms of the preparation of future checklists based on time-bound extracts from online databases, the essential elements to include are the valid species name, taxonomic synonyms, taxonomic hierarchy, and countries of distribution. Desirable but not essential are a distribution map and illustrations for each species. The intersessional working group was also asked further consider this matter, including options to prepare simplified checklists, with the outcomes of deliberations reported back to AC33. Due to lack of time, this topic was regrettably not discussed in the intersessional working group on animal nomenclature, but the recommendations from the working group at AC32 have been kept in mind in the preparation of nomenclatural standard references presented at this meeting.

Reptilia: Sauria

24. Document [AC32 Doc. 46](#), paragraph 20, noted the proposed update to the nomenclatural standard references for lizards of the family Iguanidae, by adopting with the 2016 Checklist² by the Iguana Taxonomy

² Iguana Taxonomy Working Group. 2016. A checklist of the iguanas of the world (Iguanidae; Iguaninae). Pp. 4–46 In *Iguanas: Biology, Systematics, and Conservation*. Iverson, J.B., T.D. Grant, C.R. Knapp, and S.A. Pasachnik (Eds.). *Herpetological Conservation and Biology* 11 (Monograph 6). http://www.herpconbio.org/Volume_11/Monograph_6/2-Iguana_Taxonomy_Working_Group_2016.pdf

Working Group together with its the 2019 Supplement³ and the 2022 Supplement⁴. The Animals Committee recommended that these three documents be proposed to CoP20 for adoption, superseding the currently-adopted standard references for Iguanidae.

25. Document [AC32 Doc. 46](#), paragraph 21, noted a draft nomenclatural standard reference, provided as Annex 1, for the horned lizard genus *Phrynosoma* (Family Phrynosomatidae). While the in-session working group on nomenclature recommended ([AC32 Com. 2](#)) that this document be proposed to CoP20 for adoption, the working group members in their deliberations noted that the document was considered too long and complicated; with this observation in mind, the nomenclature specialist will look into options to prepare and present a simplified version of this proposed nomenclatural standard reference to CoP20.

Reptilia: Testudines

26. In document [AC32 Doc. 46](#), paragraph 22, it was noted that an updated version (10th Edition) of the 2021 *Turtles of the World – Annotated Checklist and Atlas of Taxonomy, Synonymy, Distribution, and Conservation Status (9th Ed.)*⁵ publication by the Turtle Taxonomy Working Group was expected to be published in late 2023, in time for evaluation at AC33. However, publication of the 10th edition has suffered some delays and is not yet available. It is therefore recommended that the Animals Committee consider the adoption of the 9th edition of *Turtles of the World – Annotated Checklist and Atlas of Taxonomy, Synonymy, Distribution, and Conservation Status* to update and complete the nomenclature standard references for turtles and tortoises, including the species listed at CoP19 for which no standard references have been adopted yet (several of the proposals at CoP19 referred to this 9th Edition of *Turtles of the World* as their taxonomic and nomenclatural standard). It would be appropriate to restrict adoption of this publication for nomenclature standard purposes to only the classification and checklist of living species (pages 28 to 341), which would clearly exclude the listed alternative (Phylocode) classification, and exclude the checklist of extinct Holocene turtles and tortoises. The implications of the adoption of the document, thus restricted, for the listing of taxa in the Appendices and other implications for the implementation of the Convention are included in Annex 3. This single nomenclatural standard reference would replace the 16 currently adopted nomenclature standard references for turtles and tortoises as listed in the Annex to Resolution Conf. 12.11 (Rev. CoP19).

Cartilaginous and Bony Fishes

27. Considering that the adopted nomenclatural standard references for cartilaginous and bony fishes are a complicated mixture of publications dealing with one or more species, an updated and consolidated checklist of fishes listed in the CITES Appendices, as well as unlisted species currently placed in the same genus as a CITES-listed species, seems warranted. A draft such checklist was prepared by extracting information from *Eschmeyer's Catalog of Fishes: Genera, Species, References*. (<http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>). This draft was reviewed by the members of the intersessional working group on nomenclature. While the draft checklist was generally welcomed, a number of Parties and observers expressed concern about the 'fine-resolution' species boundaries presented in *Eschmeyer's Catalog* for two sturgeon taxa, and recommended retention of a more conservative nomenclature and species recognition. Concerns were also expressed about possible complications that might arise with regard to freshwater stingray (Potamotrygonidae) taxa listed in Appendix III, for which updates may need to be suspended (by retaining the presently-adopted standard reference) until these listings can be amended by their proponent Parties (as recommended in document [PC27 Doc. 40.1 / AC33 Doc. 47.1](#) on *Nomenclature of Appendix III listings*). A revised version was prepared of this draft fish standard reference, which retains the traditional species concepts for the two sturgeon taxa for CITES purposes, clearly indicating such cases. This revised version is attached as Annex 1 to the present document, and the Committee's views are invited on the merits of this proposed updated Checklist of Fishes relevant for CITES.
28. The preparation of this updated checklist of fishes relevant for CITES also brought attention to the case of the three species of the bony fish genus *Probarbus*. The species *Probarbus julienni* was included in Appendix I in 1975 and occurs in Cambodia, the Lao People's Democratic Republic, Malaysia, Thailand and Viet Nam. At the time of its inclusion in CITES, *Probarbus julienni* was the only species in the distinctive genus *Probarbus*. In 1992, two further species were described from within the distribution range of *P. julienni*:

³ http://www.iucn-isg.org/wp-content/uploads/2019/05/ITWG_Checklist_2019_Supplement.pdf

⁴ https://www.iucn-isg.org/wp-content/uploads/2022/05/ITWG_Checklist_2022_Supplement.pdf

⁵ TTWG (Turtle Taxonomy Working Group). 2021. Checklist - Modern Turtle and Tortoise Taxa Extant since 1500 CE. Pp. 28-341 in *Turtles of the World – Annotated Checklist and Atlas of Taxonomy, Synonymy, Distribution, and Conservation Status (9th Ed.)*. Chelonian Research Foundation and Turtle Conservancy. doi:10.3854/crm.8.checklist.atlas.v9.2021. Accessible at https://iucn-tftsg.org/wp-content/uploads/crm.8.checklist.atlas_v9.2021.e3.pdf

Probarbus labeamajor and *P. labeaminor*, both from the middle Mekong sections of Cambodia, the Lao People's Democratic Republic and Thailand. These two taxa are morphologically very close to *Probarbus julienni* and are best considered split-out taxa from *julienni*. However, they have not been proposed as either synonyms of *julienni* for CITES purposes, or as split-out taxa from a listed species that qualify for listing as such. The ideal approach would be for a range state Party, perhaps supported by other Parties, to conduct a Periodic Review of the three *Probarbus* taxa.

Sea cucumbers

29. The inclusion in Appendix II of three species of the sea cucumber genus *Holothuria* at CoP18 ([CoP18 Prop.45 \(Rev.1\)](#)) and the genus *Thelonota* at CoP19 ([CoP19 Prop. 42 \(Rev.1\)](#)) has necessitated the preparation of a simple Checklist for these species. An extract was prepared from the World Register of Marine Species (WoRMS) for this purpose and is provided as Annex 2 to this document. This draft Checklist proposes no taxonomic or nomenclatural novelties that might affect the taxa listed in the Appendices at present.
30. In consideration of the provisional conclusions in document [PC27 Doc. 40.1 / AC33 Doc. 47.1](#) on *Nomenclature of Appendix III listings*, the species *Isostichopus fuscus* is not included in this CITES Sea Cucumber checklist, as the designation of a nomenclatural standard reference for taxa listed in Appendix III is more appropriately done by the Party that listed the taxon in Appendix III – in this case, Ecuador. The nomenclature specialist intends to work with the Secretariat and Ecuador to prepare a revised version of this sea cucumber checklist that includes *Isostichopus fuscus* with Ecuador's support in time for CoP20.

General nomenclature updates

31. Annex 3 presents a list of miscellaneous taxonomic and nomenclatural changes concerning CITES-listed taxa that have found general support in the scientific community. Unfortunately, the intersessional working group on animal nomenclature was not able to review these proposed updates. There may be opportunities for evaluation during AC33. Annex 3 includes the changes that would result from the adoption of the proposed updated turtle checklist described in paragraph 26 and the proposed updated fish checklist described in paragraph 27 and attached as Annex 1.

Reflections

32. At its 18th meeting, the Conference of the Parties adopted [Resolution 18.2](#) on the *Establishment of Committees*. The terms of reference of the Animals and Plants Committees are presented in Annex 2, in which paragraph 6 provides for the election of an alternate member to the specialists on botanical and zoological nomenclature. To date, these alternate positions have remained vacant on both the Plants and Animals Committees. With the ever-increasing tasks assigned by the Conference of Parties to the nomenclature specialists, the frequency of consultations by the Parties, and the increasing complexity and acceleration of taxonomic and nomenclatural analyses and developments in the scientific community, the necessity to fill these alternate nomenclature specialist positions cannot be overemphasized. The members of the Animals Committee are therefore asked to urge the Parties in their respective regions to consider nominating suitable candidates for the vacant alternate nomenclature specialist position.
33. Finally, the specialist on zoological nomenclature wishes to express his heartfelt thanks to the Secretariat staff, the Chair and fellow Members of the Animals Committee, numerous Party and observer contacts, and in particular the Nomenclature Specialist of the Plants Committee, for their support, assistance and understanding, enabling the Nomenclature Specialist of the Animals Committee to contribute to the effective maintenance and functioning of CITES.

Recommendations:

34. The Animals Committee is invited to establish an in-session working group to consider the following recommendations:
 - a) encourage the Secretariat to continue its work on the use of online databases as standard nomenclature references and report to the 20th meeting of the Conference of the Parties;
 - b) suggest the inclusion of *Loxodonta cyclotis* in Appendix I as a split-out from the populations of *Loxodonta africana* currently listed in Appendix I, and recommend that the nomenclatural standard references concerning African elephants be updated by

- i) deleting Wilson & Reeder 1993 as the specific reference for *Loxodonta africana* in the Annex of Resolution Conf. 12.11 (Rev. CoP19) on *Standard nomenclature*; and
 - ii) adopting Mondol *et al.* 2015, or a more up-to-date publication if that becomes available soon, as a supplementary standard reference to clarify the distribution of *Loxodonta africana*, *L. cyclotis*, and their hybrids;
- c) agree to suspend work on consideration of the HBW/BI *Illustrated Checklist of the Birds of the World* as the new standard nomenclature reference for birds at the species, family and order levels, and await the availability of the consolidated checklist of birds of the world currently being prepared before proceeding further with updating bird nomenclature used in CITES; and thus propose Decision 19.278 for deletion to the 20th meeting of the Conference of the Parties;
- d) note progress in the preparation and evaluation of updated checklists for *Phrynosoma* and Iguanid lizards, Turtles, CITES-listed and closely related fishes (Annex 1), and sea cucumbers (Annex 2);
- e) consider the merit of including the three taxa of the bony fish genus *Probarbus* in the Periodic Review of species included in the Appendices;
- f) further consider the merit of adopting additional or updated nomenclatural standard references as listed in the sixth column of Annex 3, which would result in non-substantive amendments to the Appendices as listed in the seventh column, and other changes as listed in the eighth column; and
- g) encourage Parties to consider nominating candidates for the vacant alternate position for the specialist on zoological nomenclature.

Taxonomic Checklist of selected Fish taxa
relevant for CITES following CoP19
(Excluding *Hippocampus* spp.)

Species information extracted from
Eschmeyer, W.N., R. Fricke, and R. van der Laan (eds.) 2024.
ESCHMEYER'S CATALOG OF FISHES: GENERA, SPECIES, REFERENCES.
(<http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>).

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Edited for compactness and with additional comments included by the
Nomenclature Specialist of the CITES Animals Committee

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Introduction

This Checklist of Fishes (Classes Elasmobranchii, Actinopteri, Coelacanthi, and Dipneusti) of relevance to the CITES Appendices is an edited extract of the species and genus accounts in Eschmeyer's Catalog of Fishes. It was prepared for the 33rd meeting of the CITES Animals Committee by the Nomenclature Specialist for Fauna. The species and genus accounts were downloaded on 27 March 2024, and then edited for compactness and rearranged. The genus *Hippocampus* was excluded from this Checklist as the adopted Standard References for seahorses (Lourie, Pollom & Foster, 2016, plus supplementary references) remain adequate.

The general arrangement of taxa is by phylogenetic arrangement (see pages xx-xx), with alphabetical arrangement of valid genera under each family, and of valid species under each genus. Synonyms are listed under the valid genus or species but are arranged in chronological order (and generally alphabetical by author, then species name, within a single year).

It must be understood that *inclusion of a genus or species in this checklist does not imply a listing in the CITES Appendices*; by including accounts for CITES-listed species and higher taxa as well as closely-related non-CITES-listed taxa, the species content of higher taxa, and the species boundaries of CITES-listed taxa, may be more easily determined in cases where taxonomic uncertainties such as genus assignment or species validity exist.

Contents and outline classification used in this checklist:

- Class **Elasmobranchii**
 - Order **Carcharhiniformes**
 - Suborder **Carcharhinoidei**
 - Family **Carcharhinidae** Jordan & Evermann 1896 (requiem sharks)
 - Genus *Carcharhinus*
 - Genus *Glyphis*
 - Genus *Lamiopsis*
 - Genus *Loxodon*
 - Genus *Nasolamia*
 - Genus *Negaprion*
 - Genus *Prionace*
 - Genus *Rhizoprionodon*
 - Genus *Scoliodon*
 - Genus *Triaeodon*
 - Family **Sphyrnidae** Bonaparte 1840 (hammerhead sharks)
 - Genus *Eusphyrna*
 - Genus *Sphyrna*
 - Order **Lamniformes**
 - Family **Alopiidae** Bonaparte 1835 (thresher sharks)
 - Genus *Alopias*
 - Family **Cetorhinidae** Gill 1861 (basking sharks)
 - Genus *Cetorhinus*
 - Family **Lamnidae** Bonaparte 1835 (mackerel sharks)
 - Genus *Carcharodon*
 - Genus *Isurus*
 - Genus *Lamna*
 - Order **Myliobatiformes**
 - Family **Mobulidae** Gill 1893 (mantas or devil rays)
 - Genus *Mobula*
 - Family **Potamotrygonidae** Garman 1877 (neotropical stingrays)
 - Genus *Elipesurus*
 - Genus *Heliotrygon*
 - Genus *Paratrygon*
 - Genus *Plesiotrygon*
 - Genus *Potamotrygon*
 - Order **Orectolobiformes**
 - Family **Rhincodontidae** Müller & Henle 1841 (whale sharks)
 - Genus *Rhincodon*
 - Order **Rhinopristiformes**
 - Family **Glaucostegidae** Last, Séret & Naylor 2016 (giant guitarfishes)
 - Genus *Glaucostegus*
 - Family **Pristidae** Bonaparte 1835 (sawfishes)
 - Genus *Anoxypristis*
 - Genus *Pristis*
 - Family **Rhinidae** Müller & Henle 1841 (bowmouth guitarfishes or wedgefishes)
 - Genus *Rhina*
 - Genus *Rhynchobatus*
 - Genus *Rhynchorhina*
 - Family **Rhinobatidae** Bonaparte 1835 (guitarfishes)
 - Genus *Acrotheriobatus*
 - Genus *Pseudobatos*
 - Genus *Rhinobatos*
 - Genus *Tarsistes*

- Class **Actinopteri**
 - Order **Acipenseriformes**
 - Family **Acipenseridae** Bonaparte 1831 (sturgeons)
 - Genus *Acipenser*
 - Genus *Huso*
 - Genus *Pseudoscaphirhynchus*
 - Genus *Scaphirhynchus*
 - Family **Polyodontidae** Bonaparte 1835 (paddlefishes)
 - Genus *Polyodon*
 - Genus *Psephurus*
 - Order **Acanthuriformes**
 - Family **Sciaenidae** Cuvier 1829 (croakers and drums)
 - Genus *Totoaba*
 - Family **Pomacanthidae** Jordan & Evermann 1898 (angelfishes)
 - Genus *Holacanthus*
 - Order **Anguilliformes**
 - Family **Anguillidae** Rafinesque 1810 (freshwater eels)
 - Genus *Anguilla*
 - Order **Cypriniformes**
 - Suborder **Catostomoidei**
 - Family **Catostomidae** Agassiz 1850 (suckers)
 - Genus *Chasmistes*
 - Suborder **Cyprinoidei**
 - Family **Cyprinidae** Rafinesque 1815 (carps)
 - Genus *Caecobarbus*
 - Genus *Probarbus*
 - Order **Osteoglossiformes**
 - Family **Arapaimidae** Bonaparte 1846 (arapaimas)
 - Genus *Arapaima*
 - Family **Osteoglossidae** Bonaparte 1845 (bonytongues)
 - Genus *Scleropagus*
 - Order **Perciformes**
 - Suborder **Labroidei**
 - Family **Labridae** Cuvier 1816 (wrasses)
 - Genus *Cheilinus*
 - Order **Siluriformes**
 - Suborder **Loricarioidei**
 - Family **Loricariidae** Rafinesque 1815 (suckermouth armored catfishes)
 - Genus *Hypancistrus*
 - Suborder **Siluroidei**
 - Family **Pangasiidae** Bleeker 1858 (pangasid catfishes)
 - Genus *Pangasianodon*
- Class **Coelacanthi**
 - Order **Coelacanthiformes**
 - Family **Latimeriidae** Berg 1940 (coelacanth)
 - Genus *Latimeria*
- Class **Dipneusti**
 - Order **Ceratodontiformes**
 - Family **Neoceratodontidae** Schultz 1948 (Australian lungfishes)
 - Genus *Neoceratodus*

- Class **Elasmobranchii**
 - Order **Carcharhiniformes**
 - Suborder **Carcharhinoidei**
 - Family **Carcharhinidae** Jordan & Evermann 1896 (requiem sharks) (10 genera and 59 species)
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Genus **Carcharhinus** (subgenus of *Squalus*) Blainville [H. de] 1816:121 [Bulletin des Sciences, par la Société Philomathique de Paris v. 8; ref. [306](#)] Masc. *Carcharias melanopterus* Quoy & Gaimard 1824. Genus placed on Official List (Opinion 723). *Carcharorhinus* Agassiz 1846:65 [ref. [64](#)], and *Carcharhinus* Cloquet 1817:7 [ref. [852](#)] placed on the Official Index. Type confirmed by the ICZN. **Current status:** Valid as *Carcharhinus* Blainville 1816. Carcharhinidae.

Aprion (subgenus of *Carcharias*) Müller [J.] & Henle [F. G. J.] 1839:31 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Masc. *Carcharias (Aprion) isodon* Valenciennes 1839. Type by subsequent designation. Earliest type designation not researched; three included species in 1839:31. Objectively invalid; preoccupied by *Aprion* Valenciennes 1830 in fishes. 1°Homonym. **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Aprionodon Gill [T. N.] 1861:59 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 13 (Suppl.); ref. [1766](#)] Masc. *Squalus punctatus* Mitchill 1815. Type by monotypy. Also in Gill 1862:411 [ref. [4910](#)]. **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Bogimba (subgenus of *Galeolamna*) Whitley [G. P.] 1943:125 [Proceedings of the Linnean Society of New South Wales v. 68 (pts 3-4) (nos. 307-308); ref. [4702](#)] Neut. *Galeolamna (Bogimba) bogimba* Whitley 1943. Type by monotypy (also by absolute tautonymy). **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Eulamia Gill [T. N.] 1862:399, 401 [Annals of the Lyceum of Natural History of New York v. 7 (art. 32); ref. [1783](#)] Fem. *Carcharias (Prionodon) milberti* Valenciennes 1839. Type by monotypy. Type (p. 401) as "*Eulamia lamia* Gill" which might refer to *C. lamia* Blainville but as given is a nomen nudum; Gill 1962:409 [ref. [4910](#)] includes only *milberti*. **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Galeolamna Owen [R.] 1853:96 [Descriptive catalogue of the osteological series; ref. [4988](#)] Fem. *Galeolamna greyi* Owen 1853. Type by original designation. **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Galeolamnoides Whitley [G. P.] 1934:191 [Memoirs of the Queensland Museum v. 10 (pt 4); ref. [4949](#)] Masc. *Carcharias macrurus* Ramsay & Ogilby 1887. Type by original designation. **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Gillisqualus Whitley [G. P.] 1934:189 [Memoirs of the Queensland Museum v. 10 (pt 4); ref. [4949](#)] Masc. *Gillisqualus amblyrhynchoides* Whitley 1934. Type by original designation (also monotypic). **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Gymnorhinus Ehrenberg [C. G.] in Hemprich & Ehrenberg 1899:8 [Symbolae physicae; ref. [4977](#)] Masc. *Gymnorhinus pharaonis* Hemprich & Ehrenberg 1899. Objectively invalid; preoccupied by *Gymnorhinus* Maxillian 1840 or 1841 in Aves. Also apparently as *Gymnorhinus* on Pl. 7. Original not examined; see Compagno 1988:307 [ref. [13488](#)] and Fowler 1968:425 [ref. [9319](#)]. 1°Homonym. **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Hypoprion (subgenus of *Carcharias*) Müller [J.] & Henle [F. G. J.] 1838:34 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Masc. *Carcharias (Hypoprion) macloti* Müller & Henle 1839. Type by subsequent designation. Type designated by Gill 1862:401 [ref. [1783](#)]. **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Hypoprionodon Gill [T. N.] 1862:400, 401 [Annals of the Lyceum of Natural History of New York v. 7 (art. 32); ref. [1783](#)] Masc. *Carcharias (Hypoprion) hemiodon* Valenciennes 1839. Type by

original designation (also monotypic). Also in Gill 1862:409 [ref. [4910](#)]. **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Isogomphodon Gill [T. N.] 1862:400, 401 [Annals of the Lyceum of Natural History of New York v. 7 (art. 32); ref. [1783](#)] Masc. *Carcharias (Prionodon) oxyrhynchus* Valenciennes 1839. Type by original designation (also monotypic). Also in Gill 1862:410 [ref. [4910](#)]. **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Isoplagiodon Gill [T. N.] 1862:400, 401 [Annals of the Lyceum of Natural History of New York v. 7 (art. 32); ref. [1783](#)] Masc. *Carcharias (Prionodon) sorrah* Valenciennes 1839. Type by original designation (also monotypic). Also in Gill 1862:410 [ref. [4910](#)]. **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Lamnarius (subgenus of *Galeolamna*) Whitley [G. P.] 1943:119 [Proceedings of the Linnean Society of New South Wales v. 68 (pts 3-4) (nos. 307-308); ref. [4702](#)] Masc. *Carcharias spenceri* Ogilby 1910. Type by original designation (also monotypic). **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Longmania Whitley [G. P.] 1939:231 [Australian Zoologist v. 9 (pt 3); ref. [4695](#)] Fem. *Carcharias (Aprion) brevipinna* Valenciennes 1839. Type by original designation (also monotypic). **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Mapolamia Whitley [G. P.] 1934:188 [Memoirs of the Queensland Museum v. 10 (pt 4); ref. [4949](#)] Fem. *Carcharias melanopterus* Quoy & Gaimard 1824. Type by original designation. **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Ogilamia (subgenus of *Galeolamna*) Whitley [G. P.] 1939:231 [Australian Zoologist v. 9 (pt 3); ref. [4695](#)] Fem. *Carcharias stevensi* Ogilby 1911. Type by monotypy. Correct spelling for genus of type species is *Carcharhinus*. **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Platypodon Gill [T. N.] 1862:401 [Annals of the Lyceum of Natural History of New York v. 7 (art. 32); ref. [1783](#)] Masc. *Carcharias (Prionodon) menisorrah* Valenciennes 1839. Type by original designation (also monotypic). **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Pterolamiops Springer [S.] 1951:244 [Copeia 1951 (no. 3); ref. [4173](#)] Masc. *Squalus (Carcharias) longimanus* Poey 1861. Type by being a replacement name. Replacement for *Pterolamia* Springer 1950, preoccupied by *Pterolamia* Breuning 1942 in Coleoptera. On Official List (Opinion 723). •Valid as *Pterolamiops* Springer 1951 -- (Cappetta 1987:125 [ref. [6348](#)]). **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Uranga Whitley [G. P.] 1943:115 [Proceedings of the Linnean Society of New South Wales v. 68 (pts 3-4) (nos. 307-308); ref. [4702](#)] Fem. *Uranga nasuta* Whitley 1943. Type by original designation (also monotypic). **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

Uranganops (subgenus of *Galeolamna*) Whitley [G. P.] 1943:117 [Proceedings of the Linnean Society of New South Wales v. 68 (pts 3-4) (nos. 307-308); ref. [4702](#)] Masc. *Galeolamna (Uranganops) fitzroyensis* Whitley 1943. Type by original designation (also monotypic). **Current status:** Synonym of *Carcharhinus* Blainville 1816. Carcharhinidae.

***Carcharhinus acarenatus* Moreno & Hoyos 1983**

Carcharhinus acarenatus Moreno [J. A.] & Hoyos [A.] 1983:57, Figs. 1-5 [Cybium 3e série. Bulletin de la Société Française d'Ichtyologie v. 7 (no. 1); ref. [8301](#)] Casablanca-Rabat, Morocco, 33°49'N, 7°28'W, depth 270-360 meters. Holotype: VBCM 816. Paratypes: VBCM 817 to 820 (1, 1, 1, 1).

Current status: Valid as *Carcharhinus acarenatus* Moreno & Hoyos 1983. Carcharhinidae.

Distribution: Mediterranean Sea; eastern Atlantic: Spain and Portugal south to Morocco. Habitat: brackish, marine.

Carcharhinus acronotus (Poey 1860)

Squalus acronotus Poey [F.] 1860:335, Pl. 19 (figs. 3-4) [Memorias sobre la historia natural de la Isla de Cuba v. 2; ref. [3499](#)] Cuba. Holotype (unique): lost. Type catalog: Gutiérrez de los Reyes et al. 2015:45 [ref. [36079](#)]. Dates to text in July 1860; as *Prionodon acronotus* on plate [plate published in 1861]. **Current status:** Valid as *Carcharhinus acronotus* (Poey 1860). Carcharhinidae. **Distribution:** Western Atlantic: North Carolina (U.S.A.) south to Rio Grande do Sul (Brazil), including Gulf of Mexico and Caribbean Sea. Habitat: marine.

Prionodon cucuri Castelnau [F. L.] (ex Marcgrave) 1855:99 [Animaux nouveaux or rares v. 2; ref. [766](#)] Bahia, Brazil. Based on Marcgrave 1648:164 [ref. [19651](#)]. Current status: Uncertain synonym of *Carcharhinus acronotus* (Poey 1860). Carcharhinidae. Habitat: marine.

Carcharias (Prionodon) remotus Duméril [A. H. A.] (ex Valenciennes) 1865:374 [Histoire naturelle des poissons ou ichthyologie générale v. 1; ref. [1150](#)] Antilles, West Indies. Holotype (unique): MNHN A-9661 (mounted). Type catalog: Bertin 1939:73 [ref. [20739](#)]. Author often seen as Valenciennes. •Synonym of *Carcharhinus brachyurus* (Günther 1870) -- (Compagno & Niem 1998:1331 [ref. [23787](#)], Compagno 2003:477 [ref. [26984](#)]). Current status: Synonym of *Carcharhinus acronotus* (Poey 1860). Carcharhinidae. Habitat: brackish, marine.

Carcharhinus albimarginatus (Rüppell 1837)

Carcharias albimarginatus Rüppell [W. P. E. S.] 1837:64, Pl. 18 (fig. 1) [Neue Wirbelthiere zu der Fauna von Abyssinien gehörig. Fische des Rothen Meeres; ref. [3844](#)] Ras Muhammad, Sinai, Egypt, Red Sea. Lectotype: SMF 3582 (dry and mounted). Lectotype selected by Rosenblatt & Baldwin 1958:151 [ref. [21289](#)], confirmed by Klausewitz 1960:293 [ref. [21330](#)]. **Current status:** Valid as *Carcharhinus albimarginatus* (Rüppell 1837). Carcharhinidae. **Distribution:** Red Sea; Indo-Pacific: KwaZulu-Natal (South Africa), East Africa, Seychelles, Comoros, Madagascar and Mascarenes east to Hawaiian Islands (U.S.A.), north to southern Japan and Ogasawara Islands, south to northern Australia, New Caledonia and Tuamotu Archipelago; eastern Pacific: Pacific coast of southern Baja California Sur (Mexico) south to Ecuador, including Gulf of California (Mexico), Clipperton Island (France), Cocos Island (Costa Rica), Malpelo Island (Colombia) and Galapagos Islands (Ecuador). Habitat: marine.

Eulamia (Platypodon) platyrhynchus Gilbert [C. H.] 1892:543 [Proceedings of the United States National Museum v. 14 (no. 880); ref. [1626](#)] Socorro Island, Revillagigedo Islands, off western Mexico. Lectotype: USNM 46847. Paralectotypes: CAS-SU 11556 (missing); USNM 46846 (1, lost), 46850 (1). Type catalog: Böhlke 1953:9 [ref. [12291](#)]. Lectotype selected by Rosenblatt & Baldwin 1958:151 [ref. [28219](#)]. Current status: Synonym of *Carcharhinus albimarginatus* (Rüppell 1837). Carcharhinidae. Habitat: marine.

Carcharhinus altimus (Springer 1950)

Eulamia altima Springer [S.] 1950:9 [American Museum Novitates No. 1451; ref. [4172](#)] Off Cosgrove Reef, Key West, Florida, U.S.A., depth 95 fathoms. Holotype: USNM 133828. Paratypes: (26, probably discarded). Type catalog: Howe & Springer 1993:3 [ref. [21812](#)]. **Current status:** Valid as *Carcharhinus altimus* (Springer 1950). Carcharhinidae. **Distribution:** Circumglobal in tropical and warm temperate seas (including Gulf of Mexico, Caribbean Sea, Mediterranean Sea, Red Sea, Gulf of California/Mexico). Habitat: marine.

Carcharhinus radamae Fourmanoir [P.] 1961:24, Figs. 14-17; Pls. 6-7 [Mémoires de l'Institut Scientifique de Madagascar. Série F. Océanographie v. 4; ref. [9345](#)] Off northwest coast of Madagascar, southwestern Indian Ocean. Syntypes: IRSMNB (4) probably lost. Current status: Synonym of *Carcharhinus altimus* (Springer 1950). Carcharhinidae. Habitat: marine.

Carcharhinus amblyrhynchoides (Whitley 1934)

Gillisqualus amblyrhynchoides Whitley [G. P.] 1934:189, Fig. 4 [Memoirs of the Queensland Museum v. 10 (pt 4); ref. [4949](#)] Cape Bowling Green, Queensland, Australia. Holotype (unique): QM I.2003. **Current status:** Valid as *Carcharhinus amblyrhynchoides* (Whitley 1934). Carcharhinidae.

Distribution: Indo-West Pacific: Gulf of Aden and Persian Gulf east to Philippines and Papua New Guinea, north to Taiwan, south to northern Australia. Habitat: marine.

Carcharhinus amblyrhynchos (Bleeker 1856)

Carcharias (Prionodon) amblyrhynchos Bleeker [P.] 1856:467 [Natuurkundig Tijdschrift voor Nederlandsch Indië v. 10; ref. [16854](#)] Java Sea near Solombo Island, Indonesia. Holotype (unique): RMNH 7377 (head and skin). **Current status:** Valid as *Carcharhinus amblyrhynchos* (Bleeker 1856). Carcharhinidae. **Distribution:** Red Sea; Indo-West Pacific: South Africa, East Africa, Seychelles, Madagascar, western Mascarenes and Persian Pacific: Gulf east to Marquesas Islands and Easter Island, north to South China Sea and Hawaiian Islands, south to New Caledonia; Galápagos Islands. Not Lord Howe Island to Norfolk Island, which is *C. galapagensis*. Habitat: marine.

Carcharias nesiotus Snyder [J. O.] 1904:514, Pl. 1 (fig. 2) [Bulletin of the U. S. Fish Commission v. 22 [1902]; ref. [4149](#)] French Frigate Shoals, Hawaiian Islands, Albatross station 2631. Holotype: USNM 50860 [= USNM 62474]. Paratypes: CAS-SU 12790 (1), 32027 (1). Type catalog: Böhlke 1953:9 [ref. [12291](#)], Howe & Springer 1993:9-10 [ref. [21812](#)]. Current status: Synonym of *Carcharhinus amblyrhynchos* (Bleeker 1856). Carcharhinidae. Habitat: marine.

Galeolamna fowleri Whitley [G. P.] 1944:255, Figs. 2-2a [Australian Zoologist v. 10 (pt 3); ref. [4705](#)] South Muiron Island, off Exmouth Gulf, Western Australia. Lectotype: WAM P.2503-001 (jaws only). Paralectotypes: (2) WAM. Type catalog: Hutchins & Smith 1991:6 [ref. [19335](#)], Moore et al. 2008:4 [ref. [30117](#)]. Based on more than one species and two holotypes were named originally (one supported by photograph and the other now represented by jaws); lectotype (jaws) selected by Garrick 1982:43 [ref. [5454](#)]. Photograph represents a specimen which is *Carcharhinus brevipinna* (Müller & Henle 1839) -- (Garrick 1982:43 [ref. [5454](#)]). Current status: Synonym of *Carcharhinus amblyrhynchos* (Bleeker 1856). Carcharhinidae. Habitat: marine.

Galeolamna tufiensis Whitley [G. P.] 1949:24 [Proceedings of the Royal Zoological Society of New South Wales (for 1947-48); ref. [19150](#)] Off Tufi Harbor, northeastern Papua New Guinea. Holotype: AMS IB.2334 (teeth). Paratypes: (4) CSIRO C 1677 (1), C 1918 (1, dissected). Species is later illustrated and described in more detail in Whitley 1951:389, Fig. 1 [ref. [4715](#)]. Current status: Synonym of *Carcharhinus amblyrhynchos* (Bleeker 1856). Carcharhinidae. Habitat: marine.

Galeolamna coongoola Whitley [G. P.] 1964:154, Fig. 1 [Records of the Australian Museum v. 26 (no. 5); ref. [3772](#)] Gillett Cay, Swain Reefs, Queensland, Australia. Holotype: AMS IB.6006 (teeth and skin). Paratypes: AMS IB.6009 (1, teeth and skin). Current status: Synonym of *Carcharhinus amblyrhynchos* (Bleeker 1856). Carcharhinidae. Habitat: marine.

Carcharhinus amboinensis (Müller & Henle 1839)

Carcharias (Prionodon) amboinensis Müller [J.] & Henle [F. G. J.] 1839:40, [Pl. 19 (teeth)] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Amboin Island, Molucca Islands, Indonesia. Holotype (unique): RMNH D2582 (skin). **Current status:** Valid as *Carcharhinus amboinensis* (Müller & Henle 1839). Carcharhinidae. **Distribution:** Circumglobal in tropical and warm temperate seas (including Red Sea, Persian Gulf), but not eastern Pacific. Record from Mediterranean Sea needs verification. Habitat: brackish, marine.

Carcharias (Prionodon) henlei Bleeker [P.] 1853:507 [Natuurkundig Tijdschrift voor Nederlandsch Indië v. 4 (no. 3); ref. [336](#)] Jakarta, Java, Indonesia. Holotype (unique): whereabouts unknown. Objectively invalid; preoccupied by *Carcharias (Prionodon) henlei* Müller & Henle 1839. 1°Homonym. Current status: Synonym of *Carcharhinus amboinensis* (Müller & Henle 1839). Carcharhinidae. Habitat: brackish, marine.

Carcharias (Prionodon) brachyrhynchos Bleeker [P.] 1859:206 [Acta Societatis Regiae Scientiarum Indo-Neerlandicae v. 6 (art. 3); ref. [371](#)] Java, Indonesia. Holotype (unique): RMNH 7380. Appeared without description in Bleeker 1858:10 [ref. [364](#)]. Based on *Carcharias*

(*Prionodon*) *henlei* of Bleeker, not of Valenciennes. Current status: Synonym of *Carcharhinus amboinensis* (Müller & Henle 1839). Carcharhinidae. Habitat: brackish, marine.

Triaenodon obtusus Day [F.] 1878:720, Pl. 189 (fig. 3) [The fishes of India Part 4; ref. [4887](#)] Karachi, Pakistan. Holotype (unique): ZSI 2277 (dry). Type catalog: Whitehead & Talwar 1976:154 [ref. [23762](#)]. Current status: Synonym of *Carcharhinus amboinensis* (Müller & Henle 1839). Carcharhinidae. Habitat: brackish, marine.

Carcharhinus borneensis (Bleeker 1858)

Carcharias (Prionodon) borneensis Bleeker [P.] 1858:8 [Acta Societatis Regiae Scientiarum Indo-Neêrlandicae v. 5 (art. 7); ref. [364](#)] Off Singkawang, West Kalimantan, Borneo, Indonesia. Holotype (unique): RMNH 7386. **Current status:** Valid as *Carcharhinus borneensis* (Bleeker 1858). Carcharhinidae. **Distribution:** Indo-West Pacific: Sarawak, Borneo; doubtful southern China and around Java, possibly Philippines. Habitat: marine.

Carcharhinus brachyurus (Günther 1870)

Carcharias brachyurus Günther [A.] 1870:369 [Catalogue of the fishes in the British Museum v. 8; ref. [1995](#)] Off Wanganui, New Zealand. Neotype: NMNZ P.2262. Syntypes: (4) BMNH 1846.9.11.118 (1, stuffed), 1953.5.10.6 (1, 304-mm spec.). Type catalog: Hardy 1990:6 [ref. [18942](#)]. Neotype designated by Garrick 1982:174 [ref. [5454](#)], but syntypes may be available. **Current status:** Valid as *Carcharhinus brachyurus* (Günther 1870). Carcharhinidae. **Distribution:** Circumglobal in tropical and warm temperate seas (including Caribbean Sea, western Mediterranean Sea, Sea of Japan, Gulf of California/Mexico). Habitat: brackish, marine.

Carcharias lamiella Jordan [D. S.] & Gilbert [C. H.] 1882:110 [Proceedings of the United States National Museum v. 5 (no. 269); ref. [18880](#)] San Diego Bay, California, U.S.A. Syntypes: USNM 27366 (1), plus jaws from second specimen (not at USNM). Type catalog: Howe & Springer 1993:8 [ref. [21812](#)] wrongly with a holotype. Current status: Synonym of *Carcharhinus brachyurus* (Günther 1870). Carcharhinidae. Habitat: brackish, marine.

Eulamia ahenea Stead [D. G.] 1938:102 [Australian Naturalist v. 10 (no. 3); ref. [18873](#)] Off Sydney, New South Wales, Australia. Syntypes: (3 adult males) AMS IB.501 (1, jaws, heart); USNM 114946 (1, skin from lower jaw). Type catalog: Howe & Springer 1993:3 [ref. [21812](#)] with a lectotype [but Whitley's use of holotype does not establish a lectotype]. Current status: Synonym of *Carcharhinus brachyurus* (Günther 1870). Carcharhinidae. Habitat: brackish, marine.

Carcharhinus improvisus Smith [J. L. B.] 1952:761, Fig. 1 [Annals and Magazine of Natural History (Series 12) v. 5 (no. 56) (art. 78); ref. [12804](#)] Algoa Bay, South Africa, western Indian Ocean. Holotype (unique): SAIAB [formerly RUSI] (not found in 1996). Original genus should have been *Carcharhinus*. Current status: Synonym of *Carcharhinus brachyurus* (Günther 1870). Carcharhinidae. Habitat: brackish, marine.

Carcharhinus rochensis Abella [A.] 1972:102, Fig. [Boletín de la Sociedad Zoológica del Uruguay, Montevideo v. 2; ref. [7600](#)] Anaconda, 5 kilometers west of La Paloma, Rocha, Uruguay. Holotype: DZVU AA(E) 5. Paratypes: DZVU AA(E) 12 (1), AA(E) 13 (1); ZVC (lost). Type catalog: Loureiro et al. 2016:414 [ref. [35150](#)]. Current status: Synonym of *Carcharhinus brachyurus* (Günther 1870). Carcharhinidae. Habitat: brackish, marine.

Carcharhinus remotoides Deng [S.-M.], Xiong [G.-Q.] & Zhan [H.-X.] 1981:218 [English p. 220], Figs. 7-9 [Acta Zootaxonomica Sinica v. 6 (no. 2); ref. [8612](#)] Zhoushan Islands, East China Sea, Zhejiang, China. Holotype: ECSFI SH 75-0556. Paratypes: ECSFI SH75-0085 (1), SH75-0538 (1). Current status: Synonym of *Carcharhinus brachyurus* (Günther 1870). Carcharhinidae. Habitat: brackish, marine.

Carcharhinus brevipinna (Valenciennes 1839)

Carcharias (Aprion) brevipinna Valenciennes [A.] in Müller & Henle 1839:31, [Pl. 9] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Java, Indonesia. Holotype (unique): RMNH D2525

(mounted skin). **Current status:** Valid as *Carcharhinus brevipinna* (Valenciennes 1839).
Carcharhinidae. **Distribution:** Circumglobal in tropical through warm temperate seas (including Caribbean Sea, Mediterranean Sea, Red Sea, Persian Gulf, Sea of Japan), but not in the eastern Pacific. Habitat: marine.

Isogomphodon maculipinnis Poey [F.] 1865:191, Pl. 4 (figs. 2-3) [Repertorio Fisico-Natural de la Isla de Cuba v. 1; ref. [13954](#)] Cuba. No types known. Current status: Synonym of *Carcharhinus brevipinna* (Valenciennes 1839). Carcharhinidae. Habitat: marine.

Uranga nasuta Whitley [G. P.] 1943:115, Fig. 1 [Proceedings of the Linnean Society of New South Wales v. 68 (pts 3-4) (nos. 307-308); ref. [4702](#)] Urangan jetty, Hervey Bay, Queensland, Australia. Holotype (unique): AMS IB.1222 (teeth and skin). Current status: Synonym of *Carcharhinus brevipinna* (Valenciennes 1839). Carcharhinidae. Habitat: marine.

Longmania calamaria Whitley [G. P.] 1944:257, Fig. 4 [Australian Zoologist v. 10 (pt 3); ref. [4705](#)] Off Busselton, Western Australia. Holotype (unique): WAM P.2526-001 (head and tail)(not found in 2009). Additional parts from holotype: AMS IB.1619 (teeth and skin). Type catalog: Hutchins & Smith 1991:6 [ref. [19335](#)] referred WAM P.2526-001 (head and tail, and presumed lost) as holotype; Moore et al. 2008:4 [ref. [30117](#)] (presumed lost). Current status: Synonym of *Carcharhinus brevipinna* (Valenciennes 1839). Carcharhinidae. Habitat: marine.

Aprionodon caparti Poll [M.] 1951:41, Figs. 16-18 [Résultats Scientifiques. Expédition Océanographique Belge dans les Eaux Côtières Africaines de l'Atlantique Sud (1948-1949). Bruxelles. v. 4 (no. 1); ref. [12797](#)] Pt. Dande, Angola, eastern Atlantic, 8°30'S, 13°16'E. Holotype: IRSNB 97. Paratypes: IRSNB 98 (1), MRAC 80.255 (1). Type catalog: Walschaerts 1987:5 [ref. [20755](#)], Derijst 1991:25 [ref. [21528](#)]. Current status: Synonym of *Carcharhinus brevipinna* (Valenciennes 1839). Carcharhinidae. Habitat: marine.

Carcharhinus johnsoni Smith [J. L. B.] 1951:88, Figs. 1-2 [Annals and Magazine of Natural History (Series 12) v. 4 (no. 37) (art. 6); ref. [12916](#)] Port Elizabeth, South Africa, southwestern Indian Ocean. Holotype: SAIAB [formerly RUSI] 422. Paratypes: SAIAB [formerly RUSI] 430 (1). Current status: Synonym of *Carcharhinus brevipinna* (Valenciennes 1839). Carcharhinidae. Habitat: marine.

Carcharhinus cautus (Whitley 1945)

Galeolamna greyi cauta Whitley [G. P.] 1945:2, Fig. 2 [Australian Zoologist v. 11 (pt 1); ref. [4707](#)] Herald Bight, Shark Bay, Western Australia. Holotype (unique): AMS IB.1622 (teeth and skin).

Current status: Valid as *Carcharhinus cautus* (Whitley 1945). Carcharhinidae. **Distribution:** Southeastern Indian Ocean and southwestern Pacific: Papua New Guinea, northern and western Australia, Solomon Islands. Habitat: marine.

Carcharhinus cerdale Gilbert 1898

Carcharhinus cerdale Gilbert [C. H.] in Jordan & Evermann 1898:2746 [Bulletin of the United States National Museum No. 47; ref. [2445](#)] Panama. Holotype: CAS-SU 11884. Paratypes: (numerous) ?BMNH 1903.5.15-339-340 [from Jordan] (2); CAS-SU 11886 (1), 12865-66 (1, 1). Type catalog: Böhlke 1953:9 [ref. [12291](#)]. Author is C. H. Gilbert. Holotype figured in Gilbert & Starks 1904, Pl. 2 (figs. 4-4a) [ref. [1639](#)]. **Current status:** Valid as *Carcharhinus cerdale* Gilbert 1898.

Carcharhinidae. **Distribution:** Eastern Pacific: formerly from Pacific coast of Baja California Sur (Mexico) including Gulf of California (Mexico) south to Peru; now Costa Rica south to Peru, regionally extinct in northern part of distribution range. Habitat: brackish, marine.

Carcharhinus coatesi (Whitley 1939)

Platypodon coatesi Whitley [G. P.] 1939:234, Fig. 7 [Australian Zoologist v. 9 (pt 3); ref. [4695](#)] Hinchinbrook Passage, Queensland, Australia, ca. 18°20'S, 146°08'E. Holotype (unique): QM I.6226. **Current status:** Valid as *Carcharhinus coatesi* (Whitley 1939). Carcharhinidae.

Distribution: Southeastern Indian Ocean, southwestern Pacific: northern Australia (Shark Bay, Western Australia to Fraser Island, Queensland); off New Guinea. Habitat: marine.

Carcharhinus dussumieri (Valenciennes 1839)

Carcharias (Prionodon) dussumieri Valenciennes [A.] in Müller & Henle 1839:47, [Pl. 19 (teeth)] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Puducherry, India. Lectotype: MNHN 0000-1135. Paralectotypes: (3) MNHN 0000-1136 (1, originally 2) Mumbai, ZMB 4464 (1) China. Type catalog: Bertin 1939:72 [ref. [20739](#)], Paepke & Schmidt 1988:165 [ref. [21041](#)]. Lectotype selected by Garrick 1982:59 [ref. [5454](#)]. Authorship changed to Valenciennes 1839 -- Jones et al. 2015:570 [ref. [34086](#)]. Current status: Valid as *Carcharhinus dussumieri* (Valenciennes 1839). Carcharhinidae. **Distribution:** Northern Indian Ocean: Persian Gulf and Gulf of Oman east to India, Bangladesh and Myanmar. Habitat: marine.

Carcharias malabaricus Day [F.] 1873:529 [The Journal of the Linnean Society of London. Zoology v. 11; ref. [17368](#)] Palliport near Cochin; Calicut on Malabar coast, India. Syntypes: (3) AMS I.61 (1) Calicut. Type catalog: Whitehead & Talwar 1976:154 [ref. [23762](#)], Ferraris et al. 2000:299 [ref. [25110](#)]. Current status: Synonym of *Carcharhinus dussumieri* (Valenciennes 1839). Carcharhinidae. Habitat: marine.

Carcharhinus falciformis (Bibron 1839)

Carcharias (Prionodon) falciformis Bibron [G.] in Müller & Henle 1839:47 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Cuba, western Atlantic. Holotype (unique): MNHN 0000-1134 (fetus). Type catalog: Bertin 1939:72 [ref. [20739](#)]. Authorship proposed changed to Bibron 1839 -- Jones et al. 2015:570 [ref. [34086](#)]. Some authors use Müller & Henle 1839. **Current status:** Valid as *Carcharhinus falciformis* (Bibron 1839). Carcharhinidae. **Distribution:** Circumglobal in tropical seas (including Gulf of Mexico, Caribbean Sea, Mediterranean Sea, Red Sea, Persian Gulf, Gulf of California/Mexico). Habitat: marine.

Carcharius falcipinnis Lowe [R. T.] 1839:90 [Proceedings of the Zoological Society of London 1839 (pt 7); ref. [2829](#)] Madeira, eastern Atlantic. Lowe specimen: BMNH 1851.1.9.14 (1, stuffed). Current status: Synonym of *Carcharhinus falciformis* (Bibron 1839). Carcharhinidae. Habitat: marine.

Carcharias (Prionodon) menisorrhah Valenciennes [A.] in Müller & Henle 1839:46, [Pl. 17; Pl. 19 (teeth)] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Red Sea. Lectotype: ZMB 4476. Paralectotypes: BMNH uncat. (1, whereabouts unknown), MNHN A-9662 (1), RMNH uncat. (2, mounted skins, whereabouts unknown), MNHPA uncat. (1, whereabouts unknown), ZSL uncat. (1, embryo, whereabouts unknown), ZMB 4476 (mounted skin). Type catalog: Bertin 1939:72 [ref. [20739](#)], Paepke & Schmidt 1988:166 [ref. [21041](#)]. Evidently Valenciennes alone was responsible for the description. Lectotype selected by Garrick 1982:160 [ref. [5454](#)]. Current status: Synonym of *Carcharhinus falciformis* (Bibron 1839). Carcharhinidae. Habitat: marine.

Squalus tiburo Poey [F.] 1860:331 [Memorias sobre la historia natural de la Isla de Cuba v. 2; ref. [3499](#)] Cuba. Permanently invalid, preoccupied by *Squalus tiburo* Linnaeus 1758. As *Prionodon tiburo* on plate (published 1861). 1°Homonym. Current status: Synonym of *Carcharhinus falciformis* (Bibron 1839). Carcharhinidae. Habitat: marine.

Gymnorhinus pharaonis Hemprich [F. W.] & Ehrenberg [C. G.] 1899:8, Pl. 7 (fig. 1) [Symbolae physicae; ref. [4977](#)] Type catalog: Paepke & Schmidt 1988:167-168 [ref. [21041](#)] with AMB 4476 as holotype. See *Carcharias pharaonis* Ehrenberg in Klunzinger. Current status: Synonym of *Carcharhinus falciformis* (Bibron 1839). Carcharhinidae. Habitat: marine.

Aprionodon sitankaiensis Herre [A. W. C. T.] 1934:11 [Notes on fishes in the Zoological Museum of Stanford University. 1. The fishes of the Herre Philippine expedition of 1931.; ref. [2108](#)] Sitankai, Sibutu Islands, Sulu Province, Philippines. Holotype (unique): CAS-SU 13601. Type catalog: Böhlke 1953:9 [ref. [12291](#)]. Current status: Synonym of *Carcharhinus falciformis* (Bibron 1839). Carcharhinidae. Habitat: marine.

Carcharhinus floridanus Bigelow [H. B.], Schroeder [W. C.] & Springer [S.] 1943:71, Pls. 13-14 [Proceedings of the New England Zoölogical Club v. 22; ref. [13195](#)] Off Fort Pierce, Florida, U.S.A., western North Atlantic, depth about 100 feet. Holotype: MCZ 35807. Additional material:

MCZ 35515 (1, jaws, fins and photographs). Current status: Synonym of *Carcharhinus falciformis* (Bibron 1839). Carcharhinidae. Habitat: marine.

Eulamia malpeloensis Fowler [H. W.] 1944:299, Figs. 7-9 [Monographs of the Academy of Natural Sciences of Philadelphia No. 6; ref. [1448](#)] Malpelo Island, eastern Pacific west of Colombia. Holotype: ANSP 70048. Paratypes: ANSP 70049 (1). Type catalog: Böhlke 1984:34 [ref. [13621](#)]. Current status: Synonym of *Carcharhinus falciformis* (Bibron 1839). Carcharhinidae. Habitat: marine.

Carcharhinus atrodorsus Deng [S.-M.], Xiong [G.-Q.] & Zhan [H.-X.] 1981:216 [English p. 219], Figs. 1-3 [Acta Zootaxonomica Sinica v. 6 (no. 2); ref. [8612](#)] Off Yongxing Island, Xisha Islands, China. Holotype (unique): ECSFI SH73-0872. Current status: Synonym of *Carcharhinus falciformis* (Bibron 1839). Carcharhinidae. Habitat: marine.

Carcharhinus fitzroyensis (Whitley 1943).

Galeolamna (Uranganois) fitzroyensis Whitley [G. P.] 1943:117, Fig. 2 [Proceedings of the Linnean Society of New South Wales v. 68 (pts 3-4) (nos. 307-308); ref. [4702](#)] Connor's Creek, Fitzroy River estuary, Rockhampton District, Queensland, Australia. Holotype: AMS IB.1229 (skin and teeth). Paratypes: AMS I.14569 (1). **Current status:** Valid as *Carcharhinus fitzroyensis* (Whitley 1943). Carcharhinidae. **Distribution:** Kimberley (Western Australia), Northern Territory and northern Queensland (Australia), Papua New Guinea. Habitat: brackish, marine.

Carcharhinus galapagensis (Snodgrass & Heller 1905)

Carcharias galapagensis Snodgrass [R. E.] & Heller [E.] 1905:343 [Proceedings of the Washington Academy of Sciences v. 6; ref. [12322](#)] Galápagos Islands. Holotype: CAS-SU 12324 (apparently lost). Paratypes: CAS-SU 12325 (1), 12326 (1, apparently lost). Type catalog: Böhlke 1953:9 [ref. [12291](#)]. **Current status:** Valid as *Carcharhinus galapagensis* (Snodgrass & Heller 1905). Carcharhinidae. **Distribution:** Circumglobal in tropical seas, especially around offshore islands (including Gulf of California/Mexico). Habitat: marine.

Carcharhinus hemiodon (Valenciennes 1839)

Carcharias (Hypoprion) hemiodon Valenciennes [A.] in Müller & Henle 1839:35, [Pl. 19 (teeth)] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Puducherry, India. Lectotype: MNHN 0000-1040. Paralectotypes: (3) MNHN 0000-1042 (1), A-7774 (1). Type catalog: Bertin 1939:70 [ref. [20739](#)] as holotype (MNHN 1040, measured and figured) and paratypes; MNHN 1040 designated lectotype by Eschmeyer 1998:718 [ref. [23416](#)]. **Current status:** Valid as *Carcharhinus hemiodon* (Valenciennes 1839). Carcharhinidae. **Distribution:** Indo-West Pacific: southern Iran east to Papua New Guinea, north to South China Sea, south to northern Queensland (Australia). Habitat: marine.

Carcharias watu Setna [S. B.] & Sarangdhar [P. N.] 1946:252 [Proceedings of the National Institute of Sciences of India v. 12 (no. 5); ref. [6848](#)]. Current status: Synonym of *Carcharhinus hemiodon* (Valenciennes 1839). Carcharhinidae. Habitat: marine.

Hypoprion atripinnis Chu [Y.-T.] 1960:80, Figs. 75-76 [Cartilaginous fishes of China; ref. [21272](#)] South China Sea. Holotype and paratypes: Shanghai Fish. Inst. 54-157 (1), 35980 (1), 37341-42 (2), 132,306-1 to 2 (2). Holotype not clearly identified in publication. Current status: Synonym of *Carcharhinus hemiodon* (Valenciennes 1839). Carcharhinidae. Habitat: marine.

Carcharhinus humani White & Weigmann 2014

Carcharhinus humani White [W. T.] & Weigmann [S.] 2014:72, Figs. 1-6 [Zootaxa 3821 (no. 1); ref. [33352](#)] Off Socotra Islands, 12°04'48"S, 53°12'36"W - 12°09'12"S, 53°10'06"W, depth 36-40 meters. Holotype: ZMH 26030. Paratypes: ANSP 25838 (1), 55290 (1); CSIRO H 6891-01 (Jaws), ZMH 26031 (1). **Current status:** Valid as *Carcharhinus humani* White & Weigmann 2014. Carcharhinidae. **Distribution:** Western Indian Ocean: northern KwaZulu-Natal (South Africa), East Africa, Persian Gulf, Socotra (Yemen), Seychelles, and Madagascar east to Pakistan, India and Sri Lanka. Habitat: marine.

Carcharhinus isodon (Valenciennes 1839)

Carcharias (Aprion) isodon Valenciennes [A.] in Müller & Henle 1839:32 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] No locality stated (probably east coast of U.S.A.; New York in MNHN records). Holotype (unique): MNHN 0000-1037. Type catalog: Bertin 1939:70 [ref. [20739](#)]. Authorship changed to Valenciennes 1839 -- Jones et al. 2015:570 [ref. [34086](#)]. **Current status:** Valid as *Carcharhinus isodon* (Valenciennes 1839). Carcharhinidae. **Distribution:** Western Atlantic: New York (U.S.A.) south to Santa Catarina (Brazil), including Gulf of Mexico and Caribbean Sea; eastern Atlantic: Senegal south to Angola, including Madeira. Habitat: marine.

Squalus punctatus Mitchill [S. L.] 1815:483 [Transactions of the Literary and Philosophical Society of New-York v. 1 (art. 5) (for 1814); ref. [13292](#)] New York, U.S.A. No types known. Objectively invalid; preoccupied by *Squalus punctatus* Bloch & Schneider 1801; Gill 1861:59 [ref. [1766](#)] treated as *Aprionodon punctatus*, but that combination is not available. 1°Homonym. Current status: Synonym of *Carcharhinus isodon* (Valenciennes 1839). Carcharhinidae. Habitat: marine.

Aprionodon punctatus Gill [T. N.] 1861:59 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 13 (Suppl.); ref. [1766](#)] Not an independent species description, but a new generic classification of *Squalus punctatus* Mitchill 1815. As such subjectively invalid, preoccupied by *Squalus punctatus* Bloch & Schneider 1801. 1°Homonym. Current status: Synonym of *Carcharhinus isodon* (Valenciennes 1839). Carcharhinidae. Habitat: marine.

Carcharhinus japonicus Temminck & Schlegel 1850

Carcharias (Prionodon) japonicus Temminck [C. J.] & Schlegel [H.] 1850:302, Pl. 133 [Fauna Japonica Last part (15); ref. [4375](#)] Japan. Syntypes: RMNH uncat. (jaws, 2 pair). Type catalog: Boeseman 1947:216 and 230 [ref. [12876](#)]. Based on a figure and manuscript of Burger. Traditionally considered a synonym of *Carcharhinus plumbeus* (Nardo 1827). Elevated to valid species *Carcharhinus japonicus* (Temminck & Schlegel 1850) by Naylor et al. 2012:26 [ref. [32267](#)], Dylidin et al. 2020:86 [ref. [37569](#)], Dylidin et al. 2022:[6] [ref. [39193](#)]. **Current status:** Valid as *Carcharhinus japonicus* Temminck & Schlegel 1850. Carcharhinidae. **Distribution:** Northwestern Pacific. Habitat: brackish, marine.

Carcharhinus leiodon Garrick 1985

Carcharhinus leiodon Garrick [J. A. F.] 1985:11, Figs. 7-8 [NOAA (National Oceanic and Atmospheric Administration) Technical Report NMFS (National Marine Fisheries Service) No. 34; ref. [5654](#)] Gulf of Aden, probably at Qishn (Yemen). Holotype (unique): NMW 61465. **Current status:** Valid as *Carcharhinus leiodon* Garrick 1985. Carcharhinidae. **Distribution:** Northwestern Indian Ocean: Gulf of Aden east to southern Oman, north to Persian Gulf. Habitat: marine.

Carcharhinus leucas (Valenciennes 1839)

Carcharias (Prionodon) leucas Valenciennes [A.] in Müller & Henle 1839:42 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Antilles, western Atlantic. Syntypes: (4) MNHN A-9650 (1, dry), A-9652 (1, dry), uncat. (2, lost). Type catalog: Bertin 1939:71 [ref. [20739](#)]. Authorship changed to Valenciennes 1839 -- Jones et al. 2015:570 [ref. [34086](#)]. **Current status:** Valid as *Carcharhinus leucas* (Valenciennes 1839). Carcharhinidae. **Distribution:** Circumglobal in tropical seas (including Gulf of Mexico, Caribbean Sea, Persian Gulf, Gulf of California/Mexico). Habitat: freshwater, brackish, marine.

Carcharias (Prionodon) zambezensis Peters [W. (C. H.)] 1852:276 [Bericht über die zur Bekanntmachung geeigneten Verhandlungen der Königlichen Preussischen Akademie der Wissenschaften zu Berlin 1852; ref. [18539](#)] Zambezi River, Mozambique. Holotype (unique): ZMB 4468. Type catalog: Paepke & Schmidt 1988:167 [ref. [21041](#)]. Also in Peters 1868:7, Pl. 1 (fig. 2) [ref. [3440](#)]. Current status: Synonym of *Carcharhinus leucas* (Valenciennes 1839). Carcharhinidae. Habitat: freshwater, brackish, marine.

Prionodon platyodon Poey [F.] 1860:336, Pl. 19 (figs. 5-6) [Memorias sobre la historia natural de la Isla de Cuba v. 2; ref. [3499](#)] Cuba. No types known. Plate published in 1861. •Valid as

Carcharias platyodon (Poey 1860) -- (Herrera 1896:9 [ref. [39336](#)]). Current status: Synonym of *Carcharhinus leucas* (Valenciennes 1839). Carcharhinidae. Habitat: freshwater, brackish, marine.

Squalus obtusus Poey [F.] 1861:337, Pl. 19 (figs. 7-8) [Memorias sobre la historia natural de la Isla de Cuba v. 2; ref. [3499](#)] Cuba. As *Prionodon obtusus* on plate. Current status: Synonym of *Carcharhinus leucas* (Valenciennes 1839). Carcharhinidae. Habitat: freshwater, brackish, marine.

Eulamia nicaraguensis Gill [T. N.] in Gill & Bransford 1877:190 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 29; ref. [1714](#)] Lake Nicaragua, Nicaragua. Holotype (unique): USNM 16887 (skin, skull, jaws). Type catalog: Howe & Springer 1993:10 [ref. [21812](#)]. Current status: Synonym of *Carcharhinus leucas* (Valenciennes 1839). Carcharhinidae. Habitat: freshwater, brackish, marine.

Carcharias azureus Gilbert [C. H.] & Starks [E. C.] 1904:11, Pl. 2 (fig. 5) [Memoirs of the California Academy of Sciences v. 4; ref. [1639](#)] Panama. Holotype: CAS-SU 11890. Paratypes: (2) BMNH 1903.5.15.338 (1) Panama. Type catalog: Böhlke 1953:9 [ref. [12291](#)]. Current status: Synonym of *Carcharhinus leucas* (Valenciennes 1839). Carcharhinidae. Habitat: freshwater, brackish, marine.

Carcharias spenceri Ogilby [J. D.] 1910:3 [Proceedings of the Royal Society of Queensland v. 23; ref. [3288](#)] Brisbane River, Queensland, Australia. Holotype (unique): not at QM [AFAQ 290, jaws only]. Current status: Synonym of *Carcharhinus leucas* (Valenciennes 1839). Carcharhinidae. Habitat: freshwater, brackish, marine.

Galeolamna (Bogimba) bogimba Whitley [G. P.] 1943:123, Fig. 5 [Proceedings of the Linnean Society of New South Wales v. 68 (pts 3-4) (nos. 307-308); ref. [4702](#)] Bogimbah, Fraser Island, Queensland, Australia. Holotype (unique): AMS IB.1225 (teeth and skin). Current status: Synonym of *Carcharhinus leucas* (Valenciennes 1839). Carcharhinidae. Habitat: freshwater, brackish, marine.

Galeolamna greyi mckaili Whitley [G. P.] 1945:1 [Australian Zoologist v. 11 (pt 1); ref. [4707](#)] Swan River District, Western Australia. Holotype (unique): AMS IB.508. The type specimen was originally illustrated as *Galeolamna greyi* without subspecific designation in Whitley 1940:273, Fig. 303 [ref. [4700](#)]. Current status: Synonym of *Carcharhinus leucas* (Valenciennes 1839). Carcharhinidae. Habitat: freshwater, brackish, marine.

Carcharhinus vanrooyeni Smith [J. L. B.] 1958:12, Fig. [Veld & Vlei v. 3 (no. 9); ref. [12117](#)] St. Lucia, KwaZulu-Natal, South Africa, southwestern Indian Ocean. Syntypes: SAIAB [formerly RUSI] 175 (1). Described from several specimens and a figure; one specimen at SAIAB [formerly RUSI]. Current status: Synonym of *Carcharhinus leucas* (Valenciennes 1839). Carcharhinidae. Habitat: freshwater, brackish, marine.

***Carcharhinus limbatus* (Valenciennes 1839)**

Carcharias (Prionodon) limbatus Valenciennes [A.] in Müller & Henle 1839:49, [Pl. 19 (teeth)] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Locality not stated (is Martinique Island, West Indies). Syntypes: (2) MNHN 0000-3468 (mounted skin), plus second specimen lost. Type catalog: Bertin 1939:72-73 [ref. [20739](#)]. Authorship changed to Valenciennes 1839 -- Jones et al. 2015:570 [ref. [34086](#)]. **Current status:** Valid as *Carcharhinus limbatus* (Valenciennes 1839). Carcharhinidae. Distribution: Circumglobal in tropical and warm temperate seas (including Gulf of Mexico, Caribbean Sea, Mediterranean Sea, Red Sea, Persian Gulf, South China Sea, Gulf of California/Mexico). Habitat: brackish, marine.

Squalus conductus Osbeck [P.] 1765:92 [Reise nach Ostindien und China; ref. [3311](#)] East Atlantic between the Canary Islands and the equator, off Liberia, at 3°47'N. No types known. *Squalus canicula* Linnaeus 1758 was given by Osbeck as a probable synonym, but this was obviously a misidentification by Osbeck. The name has not been used as a valid name after 1899 and is therefore a nomen oblitum; precedence over *Carcharias limbatus* Müller & Henle 1839 is therefore reversed according to ICZN Art. 23.9.1.1. Nomen Oblitum. Current status:

Synonym of *Carcharhinus limbatus* (Valenciennes 1839). Carcharhinidae. Habitat: brackish, marine.

Carcharias microps Lowe [R. T.] 1841:38 [Proceedings of the Zoological Society of London 1840 (pt. 8, no. 89); ref. [2830](#)] Madeira, eastern Atlantic. Holotype (unique): whereabouts unknown. Current status: Synonym of *Carcharhinus limbatus* (Valenciennes 1839). Carcharhinidae. Habitat: brackish, marine.

Carcharias (Prionodon) pleurotaenia Bleeker [P.] 1852:40, Pl. 2 (fig. 6) [Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. v. 24 (art. 12); ref. [333](#)] Jakarta, Java, Indonesia. Syntypes: (5) BMNH 1867.11.28.176 (1), RMNH 7385 (2). Current status: Synonym of *Carcharhinus limbatus* (Valenciennes 1839). Carcharhinidae. Habitat: brackish, marine.

Carcharias ehrenbergi Klunzinger [C. B.] 1871:661 [Verhandlungen der K.-K. zoologisch-botanischen Gesellschaft in Wien v. 21; ref. [2622](#)] Al-Qusair, Red Sea Governorate, Egypt, Red Sea; Jeddah, Saudi Arabia, Red Sea; Yemen, Red Sea. Syntypes: SMNS 12137 (1, skull), SMNS 12259 [ex SMNS 1642 1/2] (teeth); ZMB 4470 (1), 4472 (1). Type information: Paepke & Schmidt 1988:164 [ref. [21041](#)], Fricke 1992:7 [ref. [20296](#)], Fricke 2005:25 [ref. [29864](#)]. Current status: Synonym of *Carcharhinus limbatus* (Valenciennes 1839). Carcharhinidae. Habitat: brackish, marine.

Carcharias aethalorus Jordan [D. S.] & Gilbert [C. H.] 1882:104 [Proceedings of the United States National Museum v. 5 (no. 268); ref. [10603](#)] Mazatlán, Sinaloa, western Mexico. Lectotype: USNM 29549. Paralectotypes: USNM 28202 (1, missing). Type catalog: Howe & Springer 1993:2 [ref. [21812](#)]. Lectotype designated by Howe & Springer 1993:2-3 [ref. [21812](#)]. Current status: Synonym of *Carcharhinus limbatus* (Valenciennes 1839). Carcharhinidae. Habitat: brackish, marine.

Carcharias phorcys Jordan [D. S.] & Evermann [B. W.] 1903:163 [Bulletin of the U. S. Fish Commission v. 22 (1902); ref. [2450](#)] Honolulu, Oahu Island, Hawaiian Islands. Holotype: USNM 50612. Paratypes: BPBM 1685 (1, missing), MCZ 89506 (1, missing), CAS-SU 12715 (2). Type catalog: Böhlke 1953:9 [ref. [12291](#)], Howe & Springer 1993:11 [ref. [21812](#)]. Current status: Synonym of *Carcharhinus limbatus* (Valenciennes 1839). Carcharhinidae. Habitat: brackish, marine.

Carcharhinus natator Meek [S. E.] & Hildebrand [S. F.] 1923:40, Pl. 1 (fig. 1) [Field Museum of Natural History, Publications, Zoological Series v. 15 (publ. 215); ref. [2963](#)] Fish market, Panama City, Panama. Holotype: USNM 79310. Paratypes: (1, whereabouts unknown). Type catalog: Howe & Springer 1993:9 [ref. [21812](#)]. Current status: Synonym of *Carcharhinus limbatus* (Valenciennes 1839). Carcharhinidae. Habitat: brackish, marine.

***Carcharhinus longimanus* (Poey 1861)**

Squalus longimanus Poey [F.] 1861:338, Pl. 19 (figs. 9-10) [Memorias sobre la historia natural de la Isla de Cuba v. 2; ref. [3499](#)] Cuba, western Atlantic. Holotype (unique): lost. Type catalog: Gutiérrez de los Reyes et al. 2015:45 [ref. [36079](#)]. As *Prionodon longimanus* on plate. On Official List (Opinion 723). Authors point out that *Squalus (Carcharias) maou* Lesson 1830 probably is the same as this species. **Current status:** Valid as *Carcharhinus longimanus* (Poey 1861). Carcharhinidae. **Distribution:** Circumglobal in tropical and subtropical seas (including Gulf of Mexico, Caribbean Sea, Red Sea, Gulf of California/Mexico), straying into temperate waters including North Sea. Habitat: marine.

Squalus (Carcharias) maou Lesson [R. P.] 1829:(91), Poissons Pl. 1 [Voyage autour du monde Zool. v. 2 (pt 1); ref. [2776](#)] French Polynesia, 18°S, 144°W. Syntypes: (2) whereabouts unknown. See Garrick 1982:151 [ref. [5454](#)] for comments on use of this name. We suggest continuing current usage of *Carcharhinus longimanus* (Poey 1861). Dates to plate which appeared on 4 July 1829; description dated to 13 Oct. 1831 (Cretella 2010 [ref. [34236](#)]). Current status: Synonym of *Carcharhinus longimanus* (Poey 1861). Carcharhinidae. Habitat: marine.

Carcharias insularum Snyder [J. O.] 1904:513, Pl. 1 (fig. 1) [Bulletin of the U. S. Fish Commission v. 22 [1902]; ref. [4149](#)] Off Diamond Head, Oahu Island, Hawaiian Islands, Albatross station 3815, depth 228-312 fathoms. Holotype: USNM 50859. Paratypes: CAS-SU 12788-89 (1, 1). Type catalog: Böhlke 1953:9 [ref. [12291](#)], Howe & Springer 1993:8 [ref. [21812](#)]. Current status: Synonym of *Carcharhinus longimanus* (Poey 1861). Carcharhinidae. Habitat: marine.

Pterolamiops magnipinnis Smith [J. L. B.] 1958:132, Pl. 1; Fig. 1C [Ichthyological Bulletin, Department of Ichthyology, Rhodes University No. 10; ref. [12027](#)] Off Port Elizabeth, 7 miles from shore, 30°05'S, 25°18'E, South Africa, western Indian Ocean, depth 50 fathoms. Holotype (unique): SAIAB [formerly RUSI] 126. Current status: Synonym of *Carcharhinus longimanus* (Poey 1861). Carcharhinidae. Habitat: marine.

Pterolamiops budkeri Fourmanoir [P.] 1961:76 [Mémoires de l'Institut Scientifique de Madagascar. Série F. Océanographie v. 4; ref. [9345](#)] 12 miles west of Kalakazoro Island and off Majunga, Madagascar, southwestern Indian Ocean. Syntypes: (2) IRSMNB (probably lost). Current status: Synonym of *Carcharhinus longimanus* (Poey 1861). Carcharhinidae. Habitat: marine.

Carcharhinus macloiti (Müller & Henle 1839)

Carcharias (Hypoprion) macloiti Müller [J.] & Henle [F. G. J.] 1839:34, [Pl. 10] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] New Guinea. Holotype (unique): RMNH D2591 (dry).

Current status: Valid as *Carcharhinus macloiti* (Müller & Henle 1839). Carcharhinidae.

Distribution: Indo-West Pacific: East Africa, Persian Gulf and Socotra (Yemen) east to Papua New Guinea, north to Japan, south to Western Australia and Queensland (Australia). Habitat: marine.

Carcharhinus melanopterus (Quoy & Gaimard 1824)

Carcharias melanopterus Quoy [J. R. C.] & Gaimard [J. P.] 1824:194, Pl. 43 (figs. 1-2) [Voyage autour du monde; ref. [3574](#)] [Waigiou] Pulau Waigeo, Papua Barat, Indonesia, western Pacific. Lectotype: MNHN 0000-1129. Type catalog: Bertin 1939:70 [ref. [20739](#)] as holotype (MNHN 1129, figured) and paratypes; MNHN 1129 designated lectotype by Eschmeyer 1998:1055 [ref. [23416](#)] to conform to ICZN Code. Nomen protectum according to Fricke 2008:9 [ref. [30182](#)]. **Current status:** Valid as *Carcharhinus melanopterus* (Quoy & Gaimard 1824). Carcharhinidae. **Distribution:** Red Sea; Indo-West Pacific: KwaZulu-Natal (South Africa), East Africa, Persian Gulf, Seychelles, Madagascar and Mascarenes east to Hawaiian Islands and Pitcairn Group north to Taiwan, south to Queensland (Australia) and New Caledonia. [No longer considered as present in the Mediterranean Sea -- (Fricke et al. 2007:14 [ref. 29533])]. Habitat: freshwater, brackish, marine.

Squalus carcharias var. *minor* Forsskål [P. S.] in Niebuhr 1775:20, viii [Descriptiones animalium (Forsskål); ref. [1351](#)] Jeddah, Saudi Arabia, Red Sea. No types known. Nomen Oblitum. Current status: Synonym of *Carcharhinus melanopterus* (Quoy & Gaimard 1824). Carcharhinidae. Habitat: freshwater, brackish, marine.

Carcharias playfairii Günther [A.] 1870:362 [Catalogue of the fishes in the British Museum v. 8; ref. [1995](#)] Zanzibar, Tanzania, western Indian Ocean. Holotype (unique): BMNH 1867.3.9.427 (dry). Current status: Synonym of *Carcharhinus melanopterus* (Quoy & Gaimard 1824). Carcharhinidae. Habitat: freshwater, brackish, marine.

Carcharias marianensis Engelhardt [R.] 1912:647 [Zoologischer Anzeiger v. 39 (nos 21/22); ref. [17459](#)] Guam, Mariana Islands, western Pacific. Holotype (unique): ZSM [old collection] destroyed in WWII. Type catalog: Neumann 2006:268 [ref. [28925](#)]. Current status: Synonym of *Carcharhinus melanopterus* (Quoy & Gaimard 1824). Carcharhinidae. Habitat: freshwater, brackish, marine.

Carcharhinus obscurus (Lesueur 1818)

Squalus obscurus Lesueur [C. A.] 1818:223, Pl. 9 [Journal of the Academy of Natural Sciences, Philadelphia v. 1 (pt 2); ref. [2735](#)] No locality (= East coast of U.S.A.). No types known. Volume contains two plates labeled IX; *S. obscurus* is found on the second plate IX. **Current status:** Valid as *Carcharhinus obscurus* (Lesueur 1818). Carcharhinidae. **Distribution:** Circumglobal in tropical

and subtropical seas (including Gulf of Mexico, Caribbean Sea, Mediterranean Sea, Red Sea, Sea of Japan, Gulf of California/Mexico). Habitat: brackish, marine.

Prionodon obvelatus Valenciennes [A.] 1844:103, Pl. 26 [Ichthyologie des îles Canaries v. 2 (pt 2); ref. [4502](#)] Canary Islands. Holotype (unique): MNHN 0000-6434 (dry). Type catalog: Bertin 1939:73 [ref. [20739](#)]. Current status: Synonym of *Carcharhinus obscurus* (Lesueur 1818). Carcharhinidae. Habitat: brackish, marine.

Galeolamna greyi Owen [R.] 1853:96 [Descriptive catalogue of the osteological series; ref. [4988](#)] South Australia. Holotype: Royal College Surgeons London (jaws, destroyed). Current status: Synonym of *Carcharhinus obscurus* (Lesueur 1818). Carcharhinidae. Habitat: brackish, marine.

Carcharias macrurus Ramsay [E. P.] & Ogilby [J. D.] 1887:163 [Proceedings of the Linnean Society of New South Wales (Series 2) v. 2 (pt 1); ref. [18602](#)] Port Jackson, New South Wales, Australia. Holotype (unique): AMS I.1155 (mounted skin). Current status: Synonym of *Carcharhinus obscurus* (Lesueur 1818). Carcharhinidae. Habitat: brackish, marine.

Galeolamna (Galeolamnoides) eblis Whitley [G. P.] 1944:252, Fig. 1 [Australian Zoologist v. 10 (pt 3); ref. [4705](#)] Off Bald Head, towards Breaksea Island, Western Australia, depth 20 fathoms. Holotype: AMS IB.1615 (jaws and skin fragments). Paratypes: AMS IB.1609 (jaws), IB.1616 (1, jaws and skin fragments); WAM P.667-001 (1, mounted, jaws separate). Type catalog: Hutchins & Smith 1991:6 [ref. [19335](#)], Moore et al. 2008:4 [ref. [30117](#)]. Current status: Synonym of *Carcharhinus obscurus* (Lesueur 1818). Carcharhinidae. Habitat: brackish, marine.

Carcharinus iranxae Fourmanoir [P.] 1961:40, Pl. 13 (fig. C) [Mémoires de l'Institut Scientifique de Madagascar. Série F. Océanographie v. 4; ref. [9345](#)] Off northwest coast of Madagascar, southwestern Indian Ocean. Syntypes: IRSMNB (probably lost). Current status: Synonym of *Carcharhinus obscurus* (Lesueur 1818). Carcharhinidae. Habitat: brackish, marine.

Carcharhinus obscurella Deng [S.-M.], Xiong [G.-Q.] & Zhan [H.-X.] 1981:217 [English p. 220], Figs. 4-6 [Acta Zootaxonomica Sinica v. 6 (no. 2); ref. [8612](#)] Off Chang-jiang (Yangtze) River mouth, East China Sea, China. Holotype: ECSFI SH75-0678. Paratypes: ECSFI SH75-0512 (1), SH75-0056 (1), SH75-0636 (1), SH75-0669 (1). Current status: Synonym of *Carcharhinus obscurus* (Lesueur 1818). Carcharhinidae. Habitat: brackish, marine.

Carcharhinus obsoletus White, Kyne & Harris 2019

Carcharhinus obsolerus White [W. T.], Kyne [P. M.] & Harris [M.] 2019:7, Figs. 1-8 [PLoS ONE v. 14 (no.1): e0209387; ref. [36436](#)] Bangkok, Thailand, Western Pacific Ocean. Holotype: NMW 61463. Paratypes: ANSP. Species epithet spelled *obsolerus* in original description, which is an incorrect original spelling according to Dubois & Séret 2019: [ref. [36825](#)], White et al. 2019:599 [ref. [36906](#)]; corrected to *obsoletus*. **Current status:** Valid as *Carcharhinus obsoletus* White, Kyne & Harris 2019. Carcharhinidae. **Distribution:** Western Pacific Ocean, Southern China Sea: Gulf of Thailand, Vietnam and Malaysian Borneo [possibly extinct]. Habitat: marine.

Carcharhinus oxyrhynchus (Valenciennes 1839)

Carcharias (Prionodon) oxyrhynchus Valenciennes [A.] in Müller & Henle 1839:41, [Pl. 15] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Suriname. Syntypes: (2) ?MNHN A-9664 (1) Cayenne, RMNH 4297 (1) Suriname, ?ZMB 4539 (1, dry). Type catalog: Bertin 1939:71 [ref. [20739](#)]. • Considered valid as *Isogomphodon oxyrhynchus* (Valenciennes 1839) by Uyeno & Sasaki in Uyeno et al. 1983:56 [ref. [14275](#)], Compagno 1984:510 [ref. [6846](#)], Cervigón 1992:176 [ref. [23827](#)], Cervigón & Alcalá 1999:81 [ref. [24490](#)] as *oxyrhinchus*, Compagno 1999:483 [ref. [25589](#)], Grace 2001:17 [ref. [25694](#)], Soto 2001:64, 75 [ref. [26637](#)], Compagno 2003:491 [ref. [26984](#)], Gadig & Gomes in Menezes et al. 2003:23 [ref. [27192](#)], Castro 2011:475 [ref. [31457](#)], Weigmann 2016:24 [ref. [34211](#)] with authors as Müller & Henle, Ehemann et al. 2019:[4] [ref. [36861](#)] with authors as Müller & Henle, Carvalho-Filho 2023:309 [ref. [40480](#)], Rodrigues-Filho et al. 2023:9 [ref. [40396](#)]. • Considered valid as *Carcharhinus oxyrhynchus* (Valenciennes 1839) -- (Rodrigues-Filho et al. 2023:1 [ref. [40077](#)]). **Current status:** Valid as *Carcharhinus oxyrhynchus* (Valenciennes 1839). Carcharhinidae. **Distribution:** Western Atlantic: Trinidad and Tobago south to Maranhão (Brazil). Habitat: brackish, marine.

Carcharhinus perezii (Poey 1876)

Platypodon perezii Poey [F.] 1876:390 [194], Pl. 9 (figs. 2-3) [Anales de la Sociedad Española de Historia Natural, Madrid v. 5 (for 8 Nov. 1876); ref. [14211](#)] Cuba. Syntypes: (6) lost. Type catalog: Gutiérrez de los Reyes et al. 2015:45 [ref. [36079](#)]. On p. 194 of separate. Correct original spelling is *perezii*. **Current status:** Valid as *Carcharhinus perezii* (Poey 1876). Carcharhinidae. **Distribution:** Western North Atlantic: Florida (U.S.A.), Bahamas and Cuba south to Espírito Santo (Brazil), including Gulf of Mexico and Caribbean Sea; ?western Pacific: Colombia. Habitat: marine.

Eulamia springeri Bigelow [H. B.] & Schroeder [W. C.] 1944:30, Pls. 9-10 [Proceedings of the New England Zoölogical Club v. 23; ref. [13163](#)] Cozumel, eastern Yucatán, Mexico. Holotype: USNM 37141. Additional material (tentatively referred): MCZ 35900 (1). Type catalog: Howe & Springer 1993:14 [ref. [21812](#)]. Current status: Synonym of *Carcharhinus perezii* (Poey 1876). Carcharhinidae. Habitat: marine.

Carcharhinus plumbeus (Nardo 1827)

Squalus plumbeus Nardo [G. D.] 1827:26, 35 (no. 24) [Giornale di fisica, chimica e storia naturale, medicina, ed arti. (series 2) Dec. II, v. 10; ref. [3146](#)] Adriatic Sea (Mediterranean Sea). No types known. Also in Nardo 1827:col. 477 and 483 [ref. [19740](#)]. **Current status:** Valid as *Carcharhinus plumbeus* (Nardo 1827). Carcharhinidae. **Distribution:** Circumglobal in tropical through warm temperate seas (including Gulf of Mexico, Caribbean Sea, Mediterranean Sea, Red Sea, Persian Gulf), possibly absent from eastern Pacific. Habitat: brackish, marine.

Carcharias (Prionodon) milberti Valenciennes [A.] in Müller & Henle 1839:38, [Pl. 19 (teeth)] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Mediterranean Sea; Atlantic; New York, U.S.A., western North Atlantic. Syntypes: (3) MNHN 0000-1142 (1), RMNH uncat, (1, whereabouts unknown), ZMB 4467 (1). Type catalog: Bertin 1939:71 [ref. [20739](#)], Paepke & Schmidt 1988:166 [ref. [21041](#)]. Current status: Synonym of *Carcharhinus plumbeus* (Nardo 1827). Carcharhinidae. Habitat: brackish, marine.

Carcharias ceruleus DeKay [J. E.] 1842:349, Pl. 61 (fig. 200) [Zoology of New-York; ref. [1098](#)] New York to New Hampshire, U.S.A. No types known. Current status: Synonym of *Carcharhinus plumbeus* (Nardo 1827). Carcharhinidae. Habitat: brackish, marine.

Lamna caudata DeKay [J. E.] 1842:354, Pl. 62 (figs. 205-205a-b) [Zoology of New-York; ref. [1098](#)] Brenton Reef, Rhode Island, U.S.A. No types known. Current status: Synonym of *Carcharhinus plumbeus* (Nardo 1827). Carcharhinidae. Habitat: brackish, marine.

Squalus caecchia Nardo [G. D.] 1847:col. 111 [Sinonimia moderna delle specie registrate nell'opera intitolata: ...; ref. [17994](#)] Venice, Italy, Adriatic Sea (Mediterranean Sea). Appeared as name only in synonymy in Nardo 1847:col. 111 [ref. [17994](#)], Nardo 1847:39 [ref. [18469](#)], Nardo 1853:15 [ref. [26342](#)], and Ninni 1872:6 [ref. [17995](#)]. Neither Ninni nor any references cited within contained a description. Nomen Nudum. Current status: Synonym of *Carcharhinus plumbeus* (Nardo 1827). Carcharhinidae. Habitat: brackish, marine.

Carcharias obtusirostris Moreau [É.] 1881:332, Fig. 53 [Histoire naturelle des poissons (Moreau); ref. [3040](#)] [Cette] Sète, Département Hérault, Languedoc-Roussillon, France, western Mediterranean Sea; Nice, Département des Alpes-Maritimes, France, northwestern Mediterranean Sea.; Atlantic. Syntypes: MNHN 1898-1227 (1). Original spelling was *obtusirostris*, apparently in error for *obtusirostris* as used in the index. Current status: Synonym of *Carcharhinus plumbeus* (Nardo 1827). Carcharhinidae. Habitat: brackish, marine.

Carcharias stevensi Ogilby [J. D.] 1911:38 [Annals of the Queensland Museum No. 10; ref. [3290](#)] Bustard Bay and North-west Islet, Queensland, Australia. Syntypes: QM (2, apparently lost, 164 and 187 cm not mm in length). Genus correctly spelled *Carcharhinus* in list on p. 36, but misprinted as *Carcharias* in description heading on p. 38. Current status: Synonym of *Carcharhinus plumbeus* (Nardo 1827). Carcharhinidae. Habitat: brackish, marine.

Carcharhinus latistomus Fang [P.-W.] & Wang [K.-F.] 1932:235, Fig. 9 [Contributions from the Biological Laboratory of the Science Society of China. (Zoological Series) v. 8 (no. 8); ref. [16483](#)] Tsingtau, Shantung, China. Holotype (unique): NRIBAS [Mus. Biol. Lab. Sci. Soc.

China] 11156. Additional specimen: ?NRIBAS 16483. Current status: Synonym of *Carcharhinus plumbeus* (Nardo 1827). Carcharhinidae. Distribution: China [if valid]. Habitat: brackish, marine.

Galeolamna dorsalis Whitley [G. P.] 1944:256, Fig. 3 [Australian Zoologist v. 10 (pt 3); ref. [4705](#)] Carnarvon, Western Australia. Holotype (unique): whereabouts unknown. Species was described from a photograph of a single individual (figured in text), apparently no specimen or parts were collected and no types are known. Current status: Synonym of *Carcharhinus plumbeus* (Nardo 1827). Carcharhinidae. Habitat: brackish, marine.

***Carcharhinus porosus* (Ranzani 1839)**

Carcharias porosus Ranzani [C.] 1839:70 [6], Pl. 9 (figs. 1-5) [Novi Commentarii Academiae Scientiarum Institutii Bononiensis v. 4 [1840]; ref. [18606](#)] Brazil. Holotype (unique): MZUB 942. Appeared first without description as *Carcharias porosa* as Ranzani in Alessandrini 1838:433 [ref. [25852](#)]. Dates to publication in a separate, on p. 6 and Pl. 2 in 1839; journal version in 1840.

Current status: Valid as *Carcharhinus porosus* (Ranzani 1839). Carcharhinidae. **Distribution:** Western Atlantic: Florida (U.S.A.) south to Paraná (Brazil), including Gulf of Mexico and Caribbean Sea. Not Pacific when *C. cerdale* is treated as valid. Habitat: brackish, marine.

Carcharias (Prionodon) henlei Valenciennes [A.] in Müller & Henle 1839:46, [Pl. 19 (teeth)]

[Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Cayenne, French Guiana.

Syntypes: (3) MNHN A-9675 (1), 1139 (1), 1140 (1). Type catalog: Bertin 1939:72 [ref. [20739](#)].

Evidently Müller & Henle alone were responsible for the description, so authorship is regarded as Müller & Henle (ex Valenciennes). Current status: Synonym of *Carcharhinus porosus* (Ranzani 1839). Carcharhinidae. Habitat: brackish, marine.

***Carcharhinus sealei* (Pietschmann 1913)**

Carcharias sealei Pietschmann [V.] 1913:172, Pl. 1 [Jahrbücher des Nassauischen Vereins für Naturkunde. Wiesbaden v. 66; ref. [14972](#)] Sandakan fish market, Sabah State, Borneo, East Malaysia, western Pacific. Neotype: CSIRO H 4919-04. Replacement name for *Carcharias borneensis* Seale 1910:263, preoccupied by *Carcharias (Prionodon) borneensis* Bleeker 1858. Holotype BSMP 2720 destroyed in WWII. Neotype selected by White 2012:1, 18 [ref. [31843](#)].

Replacement Name. **Current status:** Valid as *Carcharhinus sealei* (Pietschmann 1913). Carcharhinidae. **Distribution:** Indo-West Pacific: East Africa, Seychelles, Mauritius (Mascarenes) and Persian Gulf east to Philippines and New Guinea, north to South China Sea, south to northern Australia. Distribution west of the Indo-Malay Peninsula needs validating [ref. [31843](#)] and [ref. [33352](#)]. Habitat: marine.

Carcharias borneensis Seale [A.] 1910:263, Pl. 1 [The Philippine Journal of Science, Section D v. 5 (no. 4); ref. [14808](#)] Sandakan, Sabah state, Borneo, East Malaysia. Holotype (unique): BSMP 2720 (destroyed during WWII). The original genus is correctly *Carcharias*. Objectively invalid; preoccupied by *Carcharias borneensis* Bleeker 1858, replaced by *Carcharias sealei* Pietschmann 1913. 1°Homonym. Current status: Synonym of *Carcharhinus sealei* (Pietschmann 1913). Carcharhinidae. Habitat: marine.

***Carcharhinus signatus* (Poey 1868)**

Hypoprion signatus Poey [F.] 1868:452, Pl. 4 (figs. 7-8) [Repertorio Físico-Natural de la Isla de Cuba v. 2; ref. [3505](#)] Cuba. Holotype (unique): based on jaws only (lost). Type catalog: Gutiérrez de los Reyes et al. 2015:46 [ref. [36079](#)]. **Current status:** Valid as *Carcharhinus signatus* (Poey 1868). Carcharhinidae. **Distribution:** Western Atlantic: Delaware (U.S.A.) south to Florida (U.S.A.), Bahamas and Cuba, including Gulf of Mexico and western and southern Caribbean Sea; southern Brazil to northern Argentina; eastern Atlantic: Portugal south to Angola to Namibia, including Cape Verde Islands. Habitat: marine.

Hypoprion longirostris Poey [F.] 1876:394 [198], Pl. 9 (figs. 8-9) [Anales de la Sociedad Española de Historia Natural, Madrid v. 5 (for 8 Nov. 1876); ref. [14211](#)] Cuba. Holotype (unique): whereabouts unknown. On p. 198 of separate. Current status: Synonym of *Carcharhinus signatus* (Poey 1868). Carcharhinidae. Habitat: marine.

Hypoprion bigelowi Cadenat [J.] 1956:539, Figs. 1-5 [Bulletin de l'Institut Français d'Afrique Noire (Sér A) Sciences Naturelles v. 18 (no. 2); ref. [12183](#)] Senegal coast, about 100 meters. Holotype (unique): MNHN 1959-0040 [ex IFAN 1955-4915]. Current status: Synonym of *Carcharhinus signatus* (Poey 1868). Carcharhinidae. Habitat: marine.

Carcharhinus sorrah (Valenciennes 1839)

Carcharias (*Prionodon*) *sorrah* Valenciennes [A.] in Müller & Henle 1839:45, [Pl. 16] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Java, Indonesia. Lectotype: RMNH 4294. Paralectotypes: MNHN 0000-1131 (1), 0000-1132 (1); ZSL uncat. (2, whereabouts unknown). Type catalog: Bertin 1939:71-72 [ref. [20739](#)]. Lectotype selected by Garrick 1982:168 [ref. [5454](#)]. Authorship changed to Valenciennes 1839 -- Jones et al. 2015:570 [ref. [34086](#)]. **Current status:** Valid as *Carcharhinus sorrah* (Valenciennes 1839). Carcharhinidae. **Distribution:** Red Sea; Indo-West Pacific: KwaZulu-Natal (South Africa), East Africa, Persian Gulf, Seychelles, Madagascar and western Mascarenes east to Solomon Islands and northern Vanuatu, north to Taiwan, south to New South Wales (Australia) and New Caledonia. Habitat: brackish, marine.

Squalus spallanzani Péron [F.] & Lesueur [C. A.] in Lesueur 1822:351 [Journal of the Academy of Natural Sciences, Philadelphia v. 2; ref. [17519](#)] Terre de Witt, northwestern Australia. No types known. Authorship given as above; Péron's contribution indeterminable. Nomen oblatum? Current status: Synonym of *Carcharhinus sorrah* (Valenciennes 1839). Carcharhinidae. Habitat: brackish, marine.

Carcharias (*Prionodon*) *bleekeri* Duméril [A. H. A.] 1865:367 [Histoire naturelle des poissons ou ichthyologie générale v. 1; ref. [1150](#)] Puducherry, India. Syntypes: MNHN A-9584 (1, mounted), A-9660 (1, mounted). Type catalog: Bertin 1939:73 [ref. [20739](#)] with MNHN A.9660 as holotype. Current status: Synonym of *Carcharhinus sorrah* (Valenciennes 1839). Carcharhinidae. Habitat: brackish, marine.

Carcharias taeniatus Hemprich [F. W.] & Ehrenberg [C. G.] 1899:8, Pl. 4 (fig. 3, 3a-e) [Symbolae physicae; ref. [4977](#)] Red Sea. No types known. Type catalog: Paepke & Schmidt 1988:165 [ref. [21041](#)]. Other species in this work were treated by the editor Hilgendorf as synonyms, but Hilgendorf placed *taeniatus* in a genus and subgenus only, so it is regarded as available as above. Current status: Synonym of *Carcharhinus sorrah* (Valenciennes 1839). Carcharhinidae. Habitat: brackish, marine.

Galeolamna (*Galeolamnoides*) *isobel* Whitley [G. P.] 1947:129, Fig. 1 [Australian Zoologist v. 11 (pt 2); ref. [4708](#)] Long Island, between Cape Preston and the Mary Anne Group, Western Australia. Holotype (unique): AMS IB.1493 (jaws, skin, fins). Current status: Synonym of *Carcharhinus sorrah* (Valenciennes 1839). Carcharhinidae. Habitat: brackish, marine.

Carcharhinus tilstoni (Whitley 1950)

Galeolamna pleurotaenia tilstoni Whitley [G. P.] 1950:100, Figs. 1-2 [Western Australian Naturalist v. 2 (no. 5); ref. [12980](#)] Van Cloon Reef, Joseph Bonaparte Gulf, Australia, at surface. Holotype: AMS IB.2421 (jaws and skin). Paratypes: (18) AMS IB.3803 (1, jaws), IB.2421 (1), IB.2552 (3). Current status: Valid as *Carcharhinus tilstoni* (Whitley 1950). Carcharhinidae. **Distribution:** Indo-Pacific: northern Australia and Papua New Guinea. Habitat: brackish, marine.

Carcharhinus tjtjtjot (Bleeker 1852)

Carcharias (*Prionodon*) *tjtjtjot* Bleeker [P.] 1852:36, Pl. 1 (fig. 4) [Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. v. 24 (art. 12); ref. [333](#)] Jakarta, Java, Indonesia. Lectotype: RMNH 7382. Paralectotypes: BMNH 1867.11.28.177 (1). Appeared in the same paper as *Carcharias* (*Prionodon*) *javanicus* Bleeker 1852; White 2012:23 [ref. [31843](#)] acted as the first reviser selecting *Carcharias tjtjtjot* as the senior synonym. Spelling *tjtjtjos* on Pl. 1 regarded as a typesetting error, as *tjtjtjot* elsewhere. Lectotype selected by Garrick 1982. **Current status:** Valid as *Carcharhinus tjtjtjot* (Bleeker 1852). Carcharhinidae. **Distribution:** Eastern Indian Ocean, western Pacific: Java (Indonesia) and Borneo to Taiwan, north to southern Korea and

Fukuoka Prefecture (Japan). Replaced by *C. coatesi* in New Guinea and Australia [ref. 31843].
Habitat: marine.

Carcharias (Prionodon) javanicus Bleeker [P.] 1852:38, Pl. 2 (fig. 5) [Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. v. 24 (art. 12); ref. 333] Jakarta, Java, Indonesia. Holotype (unique): BMNH 1867.11.28.188. See also remarks under *Carcharias (Prionodon) tjtjt* Bleeker 1852. Current status: Synonym of *Carcharhinus tjtjt* (Bleeker 1852). Carcharhinidae. Habitat: marine.

Carcharhinus – status uncertain:

Carcharias brachyrhynchus Philippi [R. A.] 1887:540 [8], Pl. 1 [Anales de la Universidad de Chile Sec. 1, v. 71; ref. 3464] Iquique, Chile. Holotype (unique): MNHNC (jaws). Regarded as preoccupied by *brachyrhynchus* Bleeker and renamed *Eulamia philippi* Fowler 1930. •Status uncertain -- (Garrick 1982:185 [ref. 5454]). Carcharhinidae. Habitat: marine.

Eulamia philippi Fowler [H. W.] 1930:491 [Proceedings of the 4th Pacific Science Congress, Java, 1929 v. 3 (Biol. Pap.); ref. 17628] Iquique, Chile. Replacement name for *Carcharias brachyrhynchus* Philippi 1887, regarded as preoccupied by *Carcharias brachyrhynchus* Bleeker 1859. •Status uncertain -- (Garrick 1982:185 [ref. 5454]). •See also Pequeño 1989:13 [ref. 14125]. Replacement Name. Carcharhinidae. Habitat: marine.

Hypoprion (Hemigaleus?) heterodus Philippi [R. A.] 1887:541 [9], Pl. 2 (fig. 5) [Anales de la Universidad de Chile Sec. 1, v. 71; ref. 3464] Chile. Holotype (unique): MNHNC (jaws). On p. 9 of separate. •Status uncertain -- (Garrick 1982:187 [ref. 5454]). •See also Pequeño 1989:13 [ref. 14125]. •Wrongly a synonym of *Carcharhinus macroti* (Müller & Henle 1839) -- (Voigt & Weber 2011:80 [ref. 31424], but the type locality of *heterodus* (Chile) is not in the range of *macroti*). Current status: Carcharhinidae species indeterminate. Habitat: marine.

Carcharhinus macrops Liu [J.-X.] 1983:101 (English p. 103), Fig. 1 [Acta Zootaxonomica Sinica v. 8 (no. 1); ref. 8314] Xisha Islands, South China Sea. Holotype (unique): SCSFRI S 00367. Current status: Synonym of *Carcharhinus* sp. Indet., Highly likely to be a synonym of *C. obscurus* or *C. galapagensis* -- (White & Last 2013:243 [ref. 33042]). Carcharhinidae. Distribution: Western North Pacific: South China Sea [if valid]. Habitat: marine.

Carcharias (Prionodon) munsing Bleeker [P.] 1849:16 [Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. v. 22 [8]; ref. 320] Madura straits near Kammal and Surabaya, Java, Indonesia. Holotype (unique): whereabouts unknown. •Status uncertain -- (Garrick 1982:187 [ref. 5454], Mundy 2005:91 [ref. 28379]). Nomen Dubium. Carcharhinidae. Habitat: marine.

Carcharias robustus Philippi [R. A.] 1896:389 [Anales de la Universidad de Chile 93-95; ref. 3465] Valparaíso, Chile. Holotype (unique): whereabouts unknown. •Status uncertain -- (Garrick 1982:188 [ref. 5454]). Carcharhinidae. Habitat: marine.

Carcharias sanctithomae Engelhardt [R.] 1912:646 [Zoologischer Anzeiger v. 39 (nos 21/22); ref. 17459] St. Thomas Island, Virgin Islands. Syntypes: ZSM [old collection] 1 female, 4 heads; destroyed in WWII. Type catalog: Neumann 2006:268 [ref. 28925]. Originally as *sancti-thomae*, correction mandatory. •Status uncertain -- (Garrick 1982:188 [ref. 5454]). Carcharhinidae. Habitat: marine.

Carcharhinus wheeleri Garrick [J. A. F.] 1982:111, Figs. 50-51 [NOAA (National Oceanic and Atmospheric Administration) Technical Report NMFS (National Marine Fisheries Service) Circular No. 445; ref. 5454] Red Sea. Holotype: USNM 197418. Paratypes: BMNH 1925.7.20.7-8 (2); ISZZ 10687 (1); MNHN 0000-8001 (1); MSNG 34564 (1); NMW 61-431 (1), 61.441 (3), 61-446 (1), 61-448 (3), uncat. (1); SMF 4363 (dry, mounted skin) (1); USNM 197675 (1). Current status: Uncertain taxonomic status, tentative as *Carcharhinus wheeleri* Garrick 1982. Carcharhinidae. Distribution: Red Sea [on 34345] and western Indian Ocean [if valid]. Habitat: marine.

Genus ***Glyphis*** Agassiz [L.] 1843:243 [Tome 3] [Recherches sur les poissons fossiles; ref. [13390](#)] Fem. *Carcharias (Prionodon) glyphis* Müller & Henle 1839. Type by absolute tautonymy, *C. glyphis* mentioned in text. Type is not the fossil species *Glyphis hastalis* Agassiz 1843 (see discussion in Compagno 1984:506 [ref. [6846](#)]). **Current status:** Valid as *Glyphis* Agassiz 1843. Carcharhinidae.

Glyphis gangeticus (Müller & Henle 1839)

Carcharias (Prionodon) gangeticus Müller [J.] & Henle [F. G. J.] 1839:39, [Pl. 13] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] [Ganges River, 60 hours above the sea at Hoogly, India]. Correct is: Lower Sundarbans south of Kulna and relatively near the sea, in what is now Bangladesh. Lectotype: ZMB 4474 (dry). Paralectotypes: MNHN 0000-1144 (1). Type catalog: Bertin 1939:71 [ref. [20739](#)], Paepke & Schmidt 1988:166 [ref. [21041](#)]. See Roberts 2007:261 [ref. [29790](#)] for correction of type locality and other remarks. Roberts regards ZMB 4474 as the holotype [but as a syntype and misprinted 4471 in his Fig. 2]. **Current status:** Valid as *Glyphis gangeticus* (Müller & Henle 1839). Carcharhinidae. **Distribution:** Northern Indian Ocean: Pakistan and India east to Bangladesh and Myanmar. Records from Persian Gulf need confirmation. Habitat: freshwater, brackish, marine.

Glyphis fowlerae Compagno [L. J. V.], White [W. T.] & Cavanaugh [R. D.] 2010:31, Figs. 1-4 [CSIRO Marine and Atmospheric Research Paper No. 032; ref. [30848](#)] Kampung Abai, Kinabatangan River, Sabah, Malaysia, 5°41'10.81"N, 118°23'08.35"E. Holotype: IPMB 38.14.02. Paratypes (13): BMNH 1997.10.14.1 (1), CSIRO, IPMB, NMW, SMEC. Plus additional non-type material. Current status: Synonym of *Glyphis gangeticus* (Müller & Henle 1839). Carcharhinidae. Distribution: Malaysia, Borneo (if valid). Habitat: brackish.

Carcharias murrayi Günther [A.] 1883:137, Fig. [Annals and Magazine of Natural History (Series 5) v. 11 (no. 62); ref. [14339](#)] Karachi, Pakistan. Holotype (unique): BMNH 1882.1.14.2 (stuffed, missing). Current status: Uncertain, possibly a synonym of *Glyphis gangeticus* (Müller & Henle 1839). Carcharhinidae. Habitat: brackish, marine.

Carcharias (Prionodon) siamensis Steindachner [F.] 1896:229 [Annalen des Naturhistorischen Museums in Wien v. 11; ref. [14618](#)] Mouth of Irrawaddy River, Rangoon, Myanmar. Holotype (unique): NMW 61379. Current status: Synonym of *Glyphis gangeticus* (Müller & Henle 1839). Carcharhinidae. Distribution: Myanmar (if valid). Habitat: brackish, marine.

Glyphis garricki Compagno, White & Last 2008

Glyphis garricki Compagno [L. J. V.], White [W. T.] & Last [P. R.] 2008:204, Figs. 1-6 [CSIRO Marine and Atmospheric Research Paper No. 022; ref. [29688](#)] East Alligator River, Kakadu National Park, Northern Territory, Australia, 12°07'S, 132°38'E. Holotype: CSIRO H 5262-01. Paratypes: CSIRO H 6173-01 (jaws), 6635-01 (jaws); SAM uncat. [ex WAM P 32600] (1); WAM P 32598-001 (1), P. 32599-001(1), P 32600-001 (3). Plus non-type material. **Current status:** Valid as *Glyphis garricki* Compagno, White & Last 2008. Carcharhinidae. **Distribution:** Northern Australia and southern Papua New Guinea. Habitat: freshwater, brackish, marine.

Glyphis glyphis (Müller & Henle 1839)

Carcharias (Prionodon) glyphis Müller [J.] & Henle [F. G. J.] 1839:40, [Pl. 14] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Probably Indian Ocean. Holotype (unique): ZMB 5265 (stuffed). Type catalog: Paepke & Schmidt 1988:166 [ref. [21041](#)]. Roberts 2007:279 [ref. [29791](#)] suggests the type locality may be the South China Sea; Roberts reported a reliable specimen from Pulo Condor [= Con Dao] Island, 100 km southeast of the major tributary of the Mekong Deltam about 220 km south of Saigon, Republic of Vietnam. **Current status:** Valid as *Glyphis glyphis* (Müller & Henle 1839). Carcharhinidae. **Distribution:** Eastern Indian Ocean, southwestern Pacific: northern Australia, southern West Papua (Indonesia), and southern Papua New Guinea. Habitat: freshwater, brackish, marine.

Genus **Lamiopsis** Gill [T. N.] 1862:399, 401 [Annals of the Lyceum of Natural History of New York v. 7 (art. 32); ref. [1783](#)] Fem. *Carcharias (Prionodon) temminckii* Müller & Henle 1839. Type by original designation (also monotypic). Also in Gill 1862:410 [ref. [4910](#)]. **Current status:** Valid as *Lamiopsis* Gill 1862. Carcharhinidae.

Lamiopsis temminckii (Müller & Henle 1839)

Carcharias (Prionodon) temminckii Müller [J.] & Henle [F. G. J.] 1839:48, [Pl. 18] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] India. Lectotype: BMNH 1851.8.16.11. Paralectotypes: ZMB 4475 (1) and ? MNHN (1) Pondichéry [Puducherry, India], RMNH (1). Type catalog: Paepke & Schmidt 1988:166 [ref. [21041](#)]. Lectotype designated by Akhilesh et al. 2016:156 [ref. [34829](#)]. **Current status:** Valid as *Lamiopsis temminckii* (Müller & Henle 1839). Carcharhinidae. **Distribution:** Northern Indian Ocean: Pakistan, Lakshadweep (India), Maldives and India east to Myanmar. Habitat: brackish, marine.

Lamiopsis tephrodes (Fowler 1905)

Carcharhinus tephrodes Fowler [H. W.] 1905:455, Fig. 1 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 57; ref. [1370](#)] Baram River, Sarawak state, Borneo, East Malaysia. Holotype: ANSP 91177 [ex WIAP 2390]. Paratypes: ANSP 77121 [ex WIAP 2391] (1). Type catalog: Böhlke 1984:34 [ref. [13621](#)]. **Current status:** Valid as *Lamiopsis tephrodes* (Fowler 1905). Carcharhinidae. **Distribution:** Malaysia, Borneo, also Thailand to China; possibly more widespread in the Indo-Malay Archipelago. Habitat: brackish, marine.

Carcharhinus microphthalmus Chu [Y.-T.] 1960:84, Figs. 78-79 [Cartilaginous fishes of China; ref. [21272](#)] Jia-bo [Zhapo], China. Holotype: SFI 0278. Paratypes: SFI 57-0307 (1). Current status: Synonym of *Lamiopsis tephrodes* (Fowler 1905). Carcharhinidae. Habitat: brackish, marine.

Genus **Loxodon** Müller [J.] & Henle [F. G. J.] 1838:36 [Magazine of Natural History [E. Charlesworth, ed.] (n.s.) v. 2 (art. 7); ref. [3066](#)] Masc. *Loxodon macrorhinus* Müller & Henle 1839. Type by subsequent monotypy. Appeared first with no included species; species added in Müller & Henle 1839:61 [ref. [3069](#)]. As name only in Müller & Henle 1838:84 [ref. [3068](#)]. **Current status:** Valid as *Loxodon* Müller & Henle 1838. Carcharhinidae.

Loxodon macrorhinus Müller & Henle 1839

Loxodon macrorhinus Müller [J.] & Henle [F. G. J.] 1839:61, [Pl. 25] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Locality unknown [probably Indian Ocean]. Holotype (unique): ZMB 4479. Type catalog: Paepke & Schmidt 1988:168 [ref. [21041](#)]. **Current status:** Valid as *Loxodon macrorhinus* Müller & Henle 1839. Carcharhinidae. **Distribution:** Red Sea; Indo-West Pacific: KwaZulu-Natal (South Africa), East Africa, Persian Gulf, Socotra (Yemen), Seychelles, Madagascar and western Mascarenes (La Réunion, Mauritius) east to New Ireland (Papua New Guinea), north to Kagoshima Prefecture (southern Japan), south to northern New South Wales (Australia). Habitat: marine.

Scoliodon affinis Ogilby [J. D.] 1912:29 [Memoirs of the Queensland Museum v. 1; ref. [14855](#)] Off Noosa Head, southern Queensland, Australia. Holotype (unique): QM I.1526 [ex AFAQ 1524]. Current status: Synonym of *Loxodon macrorhinus* Müller & Henle 1839. Carcharhinidae. Habitat: marine.

Scoliodon ceylonensis Setna [S. B.] & Sarangdhar [P. N.] 1946:252 [Proceedings of the National Institute of Sciences of India v. 12 (no. 5); ref. [6848](#)] India. No types known. Current status: Synonym of *Loxodon macrorhinus* Müller & Henle 1839. Carcharhinidae. Habitat: marine.

Carcharias (Scoliodon) dumerilii Bleeker [P.] 1856:70 [Acta Societatis Regiae Scientiarum Indo-Neêrlandicae v. 1; ref. [311](#)] Ambon Island, Molucca Islands, Indonesia. Holotype (unique): RMNH 7371 or BMNH 1867.11.28.174. Current status: Synonym of *Loxodon macrorhinus* Müller & Henle 1839. Carcharhinidae. Habitat: marine.

Scoliodon jordani Ogilby [J. D.] 1908:88 [Proceedings of the Royal Society of Queensland v. 21; ref. [3287](#)] Outer Caloundra Bank, southern Queensland, Australia, depth 25 fathoms. Holotype (unique): AFAQ 664 (apparently destroyed, not at QM). Current status: Synonym of *Loxodon macrorhinus* Müller & Henle 1839. Carcharhinidae. Habitat: marine.

Genus ***Nasolamia*** Compagno [L. J. V.] & Garrick [J. A. F.] 1983:3 [Zoological Publications from Victoria University of Wellington No. 76; ref. [5410](#)] Fem. *Carcharhinus velox* Gilbert 1898. Type by original designation (also monotypic). **Current status:** Valid as *Nasolamia* Compagno & Garrick 1983. Carcharhinidae.

Nasolamia velox (Gilbert 1898)

Carcharhinus velox Gilbert [C. H.] in Jordan & Evermann 1898:2747 [Bulletin of the United States National Museum No. 47; ref. [2445](#)] Panama (Pacific). Holotype (unique): CAS-SU 11893. Type catalog: Böhlke 1953:9 [ref. [12291](#)]. Author is C. H. Gilbert. Holotype figured in Gilbert & Starks 1904, Pl. 1 (figs. 3-3a) [ref. [1639](#)]. **Current status:** Valid as *Nasolamia velox* (Gilbert 1898). Carcharhinidae. **Distribution:** Eastern Pacific: Pacific coast of central Baja California (Mexico) south to Peru, including Gulf of California (Mexico) and Galápagos Islands (Ecuador), straying to southern California (U.S.A.). Habitat: marine.

Genus ***Negaprion*** Whitley [G. P.] 1940:111 [The fishes of Australia. Part I; ref. [4700](#)] Masc. *Aprionodon acutidens queenslandicus* Whitley 1939. Type by original designation (also monotypic). For purposes of the type species, the subspecies *queenslandicus* is elevated to the species level; type not *acutidens*. **Current status:** Valid as *Negaprion* Whitley 1940. Carcharhinidae.

Hemigaleops Schultz [L. P.] & Welander [A. D.] in Schultz et al. 1953:8 [Bulletin of the United States National Museum No. 202, v. 1; ref. [3975](#)] Masc. *Hemigaleops forsteri* Schultz & Welander 1953. Type by original designation (also monotypic). Authorship of species is Schultz and Welander; genus regarded as authored by both ("Our new genus..."). **Current status:** Synonym of *Negaprion* Whitley 1940. Carcharhinidae.

Mystidens Whitley [G. P.] 1944:25 [Proceedings of the Royal Zoological Society of New South Wales v. for 1943-44; ref. [4704](#)] Masc. *Mystidens innominatus* Whitley 1944. Type by original designation (also monotypic). **Current status:** Synonym of *Negaprion* Whitley 1940. Carcharhinidae.

Negaprion acutidens (Rüppell 1837)

Carcharias acutidens Rüppell [W. P. E. S.] 1837:65, Pl. 18 (fig. 3) [Neue Wirbelthiere zu der Fauna von Abyssinien gehörig. Fische des Rothen Meeres; ref. [3844](#)] Jeddah, Saudi Arabia, Red Sea. Lectotype: SMF 2825. Type catalog and lectotype designation: Klausowitz 1960:292 [ref. [21330](#)]. Nomen protectum according to Fricke 2008:9 [ref. [30182](#)]. **Current status:** Valid as *Negaprion acutidens* (Rüppell 1837). Carcharhinidae. **Distribution:** Red Sea; Indo-West Pacific: KwaZulu-Natal (South Africa), East Africa, Persian Gulf, Socotra (Yemen), Seychelles, Madagascar and Mascarenes (Mauritius) east to Marshall Islands and Society Islands, north to Ryukyu Islands, south to Rottneest Island (Western Australia), Queensland (Australia), Chesterfield Islands and New Caledonia. Habitat: brackish, marine.

Hemigaleops forsteri Schultz [L. P.] & Welander [A. D.] in Schultz et al. 1953:9, Pl. 1; Fig. 5 a-f [Bulletin of the United States National Museum No. 202, v. 1; ref. [3975](#)] Reer Island, Bikini Atoll. Holotype (unique): USNM 152917. Type catalog: Howe & Springer 1993:7 [ref. [21812](#)]. •Synonym of *Negaprion acutidens* (Rüppell 1837) -- (Compagno 1984:517 [ref. [6846](#)] as *forster*). Current status: Synonym of *Negaprion acutidens* (Rüppell 1837). Carcharhinidae. Habitat: brackish, marine.

Mystidens innominatus Whitley [G. P.] 1944:25 [Proceedings of the Royal Zoological Society of New South Wales v. for 1943-44; ref. [4704](#)] Useless Inlet, Shark Bay, Western Australia. Holotype (unique): AMS IB.278 (jaws). Teeth of the species were originally illustrated, but the

species not named, in Whitley 1940:105, fig. 103, [ref. [4700](#)]. Current status: Synonym of *Negaprion acutidens* (Rüppell 1837). Carcharhinidae. Habitat: brackish, marine.

Odontaspis madagascariensis Fourmanoir [P.] 1961:15, Pl. 3 [Mémoires de l'Institut Scientifique de Madagascar. Série F. Océanographie v. 4; ref. [9345](#)] Off west coast of Madagascar, southwestern Indian Ocean Syntypes: IRSMNB (probably lost). Current status: Synonym of *Negaprion acutidens* (Rüppell 1837). Carcharhinidae. Habitat: brackish, marine.

Squalus carcharias var. *major* Forsskål [P. S.] in Niebuhr 1775:20, viii [Descriptiones animalium (Forsskål); ref. [1351](#)] Jeddah, Saudi Arabia, Red Sea, and Al-Luhayya, Yemen, Red Sea. No types known. Names made available from p. viii. Authorship according to Fricke 2008:9 [ref. [30182](#)]. Nomen Oblitum. Current status: Synonym of *Negaprion acutidens* (Rüppell 1837). Carcharhinidae. Habitat: marine.

Carcharias munzingeri Kossmann [R.] & Räuber [H.] 1877:415 [Verhandlungen des Naturhistorisch-Medizinischen Vereins zu Heidelberg. v. 1; ref. [18432](#)] Suez, Suez Governorate, Egypt, Red Sea. Holotype (unique): whereabouts unknown. Also appeared in Kossmann & Räuber 1877:31 [ref. [18432](#)]. Current status: Synonym of *Negaprion acutidens* (Rüppell 1837). Carcharhinidae. Habitat: brackish, marine.

Eulamia odontaspis Fowler [H. W.] 1908:63, Fig. 2 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 60; ref. [6847](#)] Probably Indian Ocean. Holotype: ANSP 34634 ("dry skin", missing). Type catalog: Böhlke 1984:34 [ref. [13621](#)]. Current status: Synonym of *Negaprion acutidens* (Rüppell 1837). Carcharhinidae. Habitat: brackish, marine.

Aprionodon acutidens queenslandicus Whitley [G. P.] 1939:233, Fig. 6 [Australian Zoologist v. 9 (pt 3); ref. [4695](#)] Townsville, Queensland, Australia. Holotype: QM I.6189. Paratypes: QM I.5976 (1), I.5577 (1), I.6117 (1). Current status: Synonym of *Negaprion acutidens* (Rüppell 1837). Carcharhinidae. Habitat: brackish, marine.

Negaprion brevirostris (Poey 1868)

Hypoprion brevirostris Poey [F.] 1868:451, Pl. 4 (figs. 5-6, 20) [Repertorio Físico-Natural de la Isla de Cuba v. 2; ref. [3505](#)] Cuba, western Atlantic. Holotype (unique): Poey specimen 567 (lost). Type catalog: Gutiérrez de los Reyes et al. 2015:46 [ref. [36079](#)]. **Current status:** Valid as *Negaprion brevirostris* (Poey 1868). Carcharhinidae. **Distribution:** Western Atlantic: South Carolina (U.S.A.) south to Rio de Janeiro (Brazil), including Gulf of Mexico and Caribbean Sea; eastern Atlantic: Senegal south to Angola, including Cape Verde Islands. Habitat: brackish, marine.

Negaprion fronto (Jordan & Gilbert 1882)

Carcharias fronto Jordan [D. S.] & Gilbert [C. H.] 1882:102 [Proceedings of the United States National Museum v. 5 (no. 268); ref. [10603](#)] Mazatlán, Sinaloa, western Mexico. Syntypes: USNM 28167 (1), USNM uncat. (1, jaws only). Type catalog: Howe & Springer 1993:7 [ref. [21812](#)] wrongly with a holotype. •Synonym of *Negaprion brevirostris* (Poey 1868) -- (Compagno 1984:519 [ref. [6846](#)], Allen & Robertson 1994:23 [ref. [22193](#)], Castro-Aguirre et al. 1999:46 [ref. [24550](#)], Espinosa Pérez et al. 2004:63 [ref. [27705](#)], Castro 2011:481 [ref. [31457](#)], Ehemann et al. 2018:32 [ref. [36194](#)]). •Valid as *Negaprion fronto* (Jordan & Gilbert 1882) -- (Del Moral-Flores et al. 2016:95 [ref. [34398](#)], Calle-Morán et al. 2020:243 [ref. [37881](#)], Page et al. 2023:40 [ref. [40505](#)]). **Current status:** Valid as *Negaprion fronto* (Jordan & Gilbert 1882). Carcharhinidae. **Distribution:** Eastern Pacific: Pacific coast of Baja California Sur and Gulf of California (Mexico) south to Peru and Ecuador. Habitat: brackish, marine.

Genus ***Prionace*** Cantor [T. E.] 1849:1381 [399] [Journal of the Asiatic Society of Bengal v. 18 (pt 2); ref. [715](#)] Fem. *Squalus glaucus* Linnaeus 1758. Type designated by the ICZN. On p. 399 of separate. On Official List (Opinion 723). •Synonym of *Carcharinus* Blainville 1816 -- (Rodrigues-Filho et al. 2023:1 [ref. [40077](#)]). **Current status:** Valid as *Prionace* Cantor 1849. Carcharhinidae.

Cynocephalus Gill [T. N.] (ex Klein) 1862:400, 401 [Annals of the Lyceum of Natural History of New York v. 7 (art. 32); ref. [1783](#)] Masc. *Squalus glaucus* Linnaeus 1758. Type by original designation (also monotypic). Objectively invalid; preoccupied by *Cynocephalus* Boddaert 1768 and *Cynocephalus* Geoffroy St. Hilaire & Cuvier 1795 in Mammalia. 1°Homonym. **Current status:** Synonym of *Prionace* Cantor 1849. Carcharhinidae.

Galeus Garman [S.] 1913:145 [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Masc. *Squalus glaucus* Linnaeus 1758. Type by monotypy. Garman's use of *Galeus* Valmont de Bomare 1768 (not available, rejected work) creates the genus *Galeus* Garman 1913. Objectively invalid; preoccupied by *Galeus* Rafinesque 1810 in fishes. 1°Homonym. **Current status:** Synonym of *Prionace* Cantor 1849. Carcharhinidae.

Thalassinus Moreau [É.] 1881:319, 320 (v. 1) [Histoire naturelle des poissons (Moreau); ref. [3040](#)] Masc. *Squalus rondeletii* Risso 1810. Type by monotypy. **Current status:** Synonym of *Prionace* Cantor 1849. Carcharhinidae.

Thalassorhinus Valenciennes [A.] in Bonaparte 1838:204? [10] [Nuovi annali delle scienze naturali e rendiconto dei lavori dell'Accademia della Scienze dell'Istituto di Bologna con appendice agraria. Bologna v. 2; ref. [4979](#)] Masc. *Squalus rondeletii* Risso 1810. Type by subsequent designation. Apparently above is first (p. 10 of separate); also as Valenciennes in Müller & Henle 1839:62 [ref. [3069](#)]. As above the single species mentioned by Bonaparte (*vulpecula*) was not yet available; two species (with *rondeletii* renamed *vulpecula*) in Valenciennes 1839:62. Type apparently designated first by Gill 1862:402 [ref. [1783](#)]. **Current status:** Synonym of *Prionace* Cantor 1849. Carcharhinidae.

Prionace glauca (Linnaeus 1758)

Squalus glaucus Linnaeus [C.] 1758:235 [Systema Naturae, Ed. X v. 1; ref. [2787](#)] Mediterranean Sea and Northeastern Atlantic [original: "in Oceano Europeo"]; localities include Penzance, Cornwall, England, Northeastern Atlantic; Italy, Mediterranean Sea. No types known. On Official List. Originally based on at least 15 pre-Linnaean sources including Artedi 1738:69 [ref. [30578](#)] and Artedi 1738:98 [ref. [30349](#)] as *Squalus fossula triangulari in extremo dorso*; Rondelet 1554:378 [ref. [30354](#)] and Gesner 1558:718 [ref. [30350](#)] as *Galeus glaucus*, Jonston 1649:Pl. 8 (fig. 9) [ref. [30579](#)] as *Galeus glaucus* or *Galeus stellaris*, Willughby 1686:49 [ref. [30164](#)] and Ray 1713:22 [ref. [30231](#)] as *Galeus glaucus*. **Current status:** Valid as *Prionace glauca* (Linnaeus 1758). Carcharhinidae. **Distribution:** Circumglobal in tropical through temperate seas (including Gulf of Mexico, Caribbean Sea, western Baltic Sea, North Sea, Mediterranean Sea, Sea of Japan, Gulf of California/Mexico). Habitat: marine.

Squalus adscensionis Osbeck [P.] 1765:385 [Reise nach Ostindien und China; ref. [3311](#)] [Ascensionsinsul] Ascension Island, South Atlantic. No types known. Apparently not used as a valid name since 1899 and can be considered a nomen oblitum. Current status: Synonym of *Prionace glauca* (Linnaeus 1758). Carcharhinidae. Habitat: marine.

Carcharias aethiops Philippi [R. A.] 1902:311 [Anales de la Universidad de Chile v. 109 (for July-Dec. 1901); ref. [14889](#)] Chile. Holotype (unique): whereabouts unknown. Current status: Uncertain synonym of *Prionace glauca* (Linnaeus 1758). Carcharhinidae. Habitat: marine.

Squalus ciliaris Bloch [M. E.] & Schneider [J. G.] 1801:132, Pl. 31 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] Suriname. Holotype (unique): ZMB 4458 (young). Type catalog: Paepke & Schmidt 1988:168 [ref. [21041](#)]. Current status: Uncertain synonym of *Prionace glauca* (Linnaeus 1758). Carcharhinidae. Habitat: marine.

Carcharias gracilis Philippi [R. A.] 1887:539 [7], Pl. 2 [Anales de la Universidad de Chile Sec. 1, v. 71; ref. [3464](#)] Chile. Holotype (unique): DBCUCH. On p. 7 of separate. Current status: Synonym of *Prionace glauca* (Linnaeus 1758). Carcharhinidae. Habitat: marine.

Carcharias hirundinaceus Valenciennes [A.] in Müller & Henle 1839:37 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Brazil. Holotype (unique): MNHN A-9656. Type catalog: Bertin 1939:73 [ref. [20739](#)]. Authorship perhaps should be Müller & Henle (ex Valenciennes). Current status: Synonym of *Prionace glauca* (Linnaeus 1758). Carcharhinidae. Habitat: marine.

Hypoprion (Hemigaleus?) isodus Philippi [R. A.] 1887:542 [10], Pl. 2 (fig. 5) [Anales de la Universidad de Chile Sec. 1, v. 71; ref. [3464](#)] Chile. Holotype (unique): MNHNC (jaws). On p. 10 of separate. See also Pequeño 1989:13 [ref. [14125](#)]. Current status: Synonym of *Prionace glauca* (Linnaeus 1758). Carcharhinidae. Habitat: marine.

Prionace mackiei Phillipps [W. J.] 1935:238, Fig. 2 [The New Zealand Journal of Science and Technology v. 16 (no. 4); ref. [15671](#)] Lyall Bay, Wellington, New Zealand. Holotype: NMNZ P.1120 (dry and stuffed skin). Type catalog: Hardy 1990:6 [ref. [18942](#)]. Current status: Synonym of *Prionace glauca* (Linnaeus 1758). Carcharhinidae. Habitat: marine.

Carcharias pugae Pérez Canto [C.] 1886:2 [Anales de la Universidad de Chile Sec. 1, v. 69; ref. [18531](#)] Chile. ?MHNV (possibly lost). See also Philippi 1887:538 [p. 6 of separate], Pl. 6 (fig. 2) [ref. [3464](#)]. Current status: Synonym of *Prionace glauca* (Linnaeus 1758). Carcharhinidae. Habitat: marine.

Squalus rondeletii Risso [A.] 1810:27 [Ichthyologie de Nice; ref. [3755](#)] Nice, France, northwestern Mediterranean Sea. No types known. Current status: Uncertain synonym of *Prionace glauca* (Linnaeus 1758). Carcharhinidae. Habitat: marine.

Galeus thalassinus Valenciennes [A.] in Cuvier 1835:255, 511? [Leçons d'anatomie comparée 3rd ed., vol. 2; ref. [31527](#)] Atlantic, Mediterranean Sea. •Questionably a synonym of *Prionace glauca* (Linnaeus 1758) -- (Compagno 1973:30 [ref. [7163](#)], Compagno 1984:521 [ref. [6846](#)], Nakano & Seki 2003:19 [ref. [26812](#)]). Current status: Uncertain synonym of *Prionace glauca* (Linnaeus 1758). Carcharhinidae. Habitat: marine.

Thalassorhinus vulpecula Valenciennes [A.] in Müller & Henle 1839:62 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Atlantic; Mediterranean Sea. Appeared first as name only in Bonaparte 1838:210 [ref. [4979](#)]. Dates to Valenciennes as above. Current status: Synonym of *Prionace glauca* (Linnaeus 1758). Carcharhinidae. Habitat: marine.

Genus ***Rhizoprionodon*** Whitley [G. P.] 1929:354 [Australian Zoologist v. 5 (pt 4); ref. [4668](#)] Masc. *Carcharias (Scoliodon) crenidens* Klunzinger 1880. Type by being a replacement name. Replacement for *Rhizoprion* Ogilby 1915, preoccupied by *Rhizoprion* Jourdan 1861 in mammals. **Current status:** Valid as *Rhizoprionodon* Whitley 1929. Carcharhinidae.

Protozygaena Whitley [G. P.] 1940:110 [The fishes of Australia. Part I; ref. [4700](#)] Fem. *Physodon taylori* Ogilby 1915. Type by original designation (also monotypic). Current status: Synonym of *Rhizoprionodon* Whitley 1929. Carcharhinidae.

Rhizoprion Ogilby [J. D.] 1915:132 [Memoirs of the Queensland Museum v. 3; ref. [3294](#)] Masc. *Carcharias (Scoliodon) crenidens* Klunzinger 1880. Type by original designation (also monotypic). Objectively invalid; preoccupied by *Rhizoprion* Jourdan 1861 in mammals, replaced by *Rhizoprionodon* Whitley 1929. 1°Homonym. Current status: Synonym of *Rhizoprionodon* Whitley 1929. Carcharhinidae.

Rhizoprionodon acutus (Rüppell 1837)

Carcharias acutus Rüppell [W. P. E. S.] 1837:65, Pl. 18 (fig. 4) [Neue Wirbelthiere zu der Fauna von Abyssinien gehörig. Fische des Rothen Meeres; ref. [3844](#)] Jeddah, Saudi Arabia, Red Sea. Lectotype: SMF 2783. Paralectotypes: SMF 761 (2). Type catalog and lectotype designation: Klausewitz 1960:292 [ref. [21330](#)]. **Current status:** Valid as *Rhizoprionodon acutus* (Rüppell 1837). Carcharhinidae. **Distribution:** Circumglobal in tropical through warm temperate seas (including Mediterranean Sea, Red Sea, Persian Gulf). Habitat: freshwater, brackish, marine.

Carcharias (Scoliodon) crenidens Klunzinger [C. B.] 1880:426 [102], Pl. 8 (fig. 3) [Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Classe v. 80 (1. Abth.) (nos 3-4); ref. [2624](#)] Endeavour Strait, 10°50'S, 142°15'E, Queensland, Australia. Holotype (unique): SMNS 2449. Type catalog: Fricke 1992:7 [ref. [20296](#)], Fricke 2005:24 [ref. [29864](#)]. On p. 102 of separate. Current status: Synonym of *Rhizoprionodon acutus* (Rüppell 1837). Carcharhinidae. Habitat: freshwater, brackish, marine.

Carcharias eumeces Pietschmann [V.] 1913:172, Pl. 1 [Jahrbücher des Nassauischen Vereins für Naturkunde. Wiesbaden v. 66; ref. [14972](#)] Bibundi, Cameroon, Gulf of Guinea, eastern Atlantic. Holotype: MW [Stadt. Mus. Wiesbaden] no. 931. Paratypes: NMW 61212 (1). Current status: Synonym of *Rhizoprionodon acutus* (Rüppell 1837). Carcharhinidae. Habitat: freshwater, brackish, marine.

Carcharias fissidens Bennett [E. T.] 1831:148 [Proceedings of the Committee of Science and Correspondence of the Zoological Society of London 1830-31 (pt 1); ref. [5778](#)] Atlantic coast of North Africa. No types known. Current status: Uncertain synonym of *Rhizoprionodon acutus* (Rüppell 1837). Carcharhinidae. Habitat: freshwater, brackish, marine.

Scoliodon longmani Ogilby [J. D.] 1912:30 [Memoirs of the Queensland Museum v. 1; ref. [14855](#)] Moreton Bay, Queensland, Australia. Holotype (unique): QM I.292. Current status: Synonym of *Rhizoprionodon acutus* (Rüppell 1837). Carcharhinidae. Habitat: freshwater, brackish, marine.

Carcharias (Prionodon) sorrahkawah Bleeker [P.] 1853:80 [Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. v. 25 (art. 8); ref. [341](#)] Vizagapatam, India. No types known. Available as "*Carcharius (?) sorrah kawah* Blkr. Sorrah kawah Russ. No. 15" which refers to Russell 1803 [ref. [13862](#)]. Current status: Synonym of *Rhizoprionodon acutus* (Rüppell 1837). Carcharhinidae. Habitat: freshwater, brackish, marine.

Scoliodon vagatus Garman [S.] 1913:116 [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Zanzibar, Tanzania. Holotype (unique): MCZ 401-S. Type catalog: Hartel & Dingerkus 1997:xl [ref. [23119](#)]. Current status: Synonym of *Rhizoprionodon acutus* (Rüppell 1837). Carcharhinidae. Habitat: freshwater, brackish, marine.

Carcharias (Scoliodon) walbeehmi Bleeker [P.] 1856:353 [Natuurkundig Tijdschrift voor Nederlandsch Indië v. 10; ref. [16852](#)] Bintan Island, Riau Islands, Indonesia. Holotype (unique): ?BMNH 1864.11.28.191 or RMNH 7368. Bleeker specimens: RMNH 7368 (1), 24039 [ex 7368] (1). Treated as synonym of *Rhinobatos granulatus* Cuvier 1829 -- (Hartel & Dingerkus 1997:xx [ref. [23119](#)]). Current status: Synonym of *Rhizoprionodon acutus* (Rüppell 1837). Carcharhinidae. Habitat: freshwater, brackish, marine.

Rhizoprionodon lalandii (Valenciennes 1839)

Carcharias (Scoliodon) lalandii Valenciennes [A.] in Müller & Henle 1839:30 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Rio de Janeiro, Brazil. Lectotype: MNHN 0000-0945. Paralectotypes: MNHN 0000-1143 (1), 0000-3466 (1, dry), 0000-3467 (1, dry). Type catalog: Bertin 1939:69 [ref. [20739](#)]. Lectotype selected by Springer 1964:621 [ref. [3494](#)]. Authorship changed to Valenciennes 1839 -- Jones et al. 2015:570 [ref. [34086](#)]. **Current status:** Valid as *Rhizoprionodon lalandii* (Valenciennes 1839). Carcharhinidae. **Distribution:** Western Atlantic: Honduras south to Santa Catarina (Brazil), including southern Caribbean Sea. Habitat: marine.

Rhizoprionodon longurio (Jordan & Gilbert 1882)

Carcharias (Scoliodon) longurio Jordan [D. S.] & Gilbert [C. H.] 1882:106 [Proceedings of the United States National Museum v. 5 (no. 268); ref. [10603](#)] Harbor at Mazatlán, Sinaloa, western Mexico. Lectotype: USNM 28330. Paralectotypes: USNM 28306 (1), 28331 (1), 29541 (1), 29551 (1). Type catalog: Howe & Springer 1993:8 [ref. [21812](#)]. Lectotype selected by Howe & Springer 1993:8 [ref. [21812](#)]. **Current status:** Valid as *Rhizoprionodon longurio* (Jordan & Gilbert 1882). Carcharhinidae. **Distribution:** Eastern Pacific: southern California (U.S.A.) south to Peru, including Gulf of California (Mexico). Habitat: marine.

Rhizoprionodon oligolinx Springer 1964

Rhizoprionodon (Protozygaena) oligolinx Springer [V. G.] 1964:621, Figs. 12-13; Pl. 2 (fig. c) [Proceedings of the United States National Museum v. 115 (no. 3493); ref. [3494](#)] Bangkok market, caught in Gulf of Thailand, 11°56'-12°03'N, 102°14'30"-102°17'45"E, 2-3 miles offshore, depth 0-10 meters. Holotype: USNM 196799. Paratypes: ANSP (4 lots, 5); BMNH 1862.11.1.43 (1), 1868.10.25.21 (1), 1889.2.1.4150 (1), 1889.2.1.4161-63 (3), 1889.2.1.4164--4166 (3), 1889.2.1.4175 (1); CAS (4 lots, 9); FMNH (3 lots, 3); IRSNB 506 (1); ISZZ 7533 (1); MCZ 111 (3)

lots, 3); MNHN 0000-0949 (3 lots, 6); NMV uncat. (4, still researching); RMNH 4713 (1); CAS-SU (3 lots, 3); UMMZ 177113 (3); USNM 175349 (1); ZMH 24398 [ex ISH 5-1961] (1); ZMUC (3 lots, 3); ZSZM H1377 (1), 10377 (1). Additional material: BMNH (1), USNM (1). Type catalog: Krefft 1978:5 [ref. [9884](#)], Ibarra & Stewart 1987:75 [ref. [12367](#)], Howe & Springer 1993:10 [ref. [21812](#)], Thiel et al. 2009:14 [ref. [30918](#)]. **Current status:** Valid as *Rhizoprionodon oligolinx* Springer 1964. Carcharhinidae. **Distribution:** Indo-West Pacific: Persian Gulf east to Gulf of Thailand, south to Australia. Habitat: marine.

Scoliodon intermedius Garman [S.] 1913:115 [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] East Indies. Lectotype: MCZ 485-S. Paralectotypes: MCZ 484-S (1). Type catalog: Hartel & Dingerkus 1997:xxxix [ref. [23119](#)]. Lectotype selected by Springer 1964:621 [ref. [3494](#)]. Current status: Synonym of *Rhizoprionodon oligolinx* Springer 1964. Carcharhinidae. Habitat: marine.

Rhizoprionodon porosus (Poey 1861)

Squalus porosus Poey [F.] 1861:339, Pl. 19 (Figs. 11-12) [Memorias sobre la historia natural de la Isla de Cuba v. 2; ref. [3499](#)] Havana, Cuba. Holotype (unique): Poey specimen 410 (lost). Type catalog: Gutiérrez de los Reyes et al. 2015:46 [ref. [36079](#)]. As *Scoliodon porosus* on plate.

Current status: Valid as *Rhizoprionodon porosus* (Poey 1861). Carcharhinidae. **Distribution:** Western Atlantic: Bahamas south to Uruguay, including Caribbean Sea. Habitat: freshwater, brackish, marine.

Rhizoprionodon taylori (Ogilby 1915)

Physodon taylori Ogilby [J. D.] 1915:117 [Memoirs of the Queensland Museum v. 3; ref. [3293](#)] Townsville, northern Queensland, Australia. Holotype (unique): QM I.738 [not QM I.4539] (apparently lost). **Current status:** Valid as *Rhizoprionodon taylori* (Ogilby 1915). Carcharhinidae.

Distribution: Western Pacific: Papua New Guinea and northern Australia. Habitat: marine.

Rhizoprionodon terraenovae (Richardson 1836)

Squalus (Carcharias) terraenovae Richardson [J.] 1836:289 [Fauna Boreali-Americana Part 3; ref. [3731](#)] Newfoundland, Canada. Holotype (unique): whereabouts unknown. Originally as *terraenovae*, correction mandatory. Treated as *Scoliodon terraenovae* (Richardson 1836) -- (Camargo & Isaac 2001:139 [ref. [27639](#)]). **Current status:** Valid as *Rhizoprionodon terraenovae* (Richardson 1836). Carcharhinidae. **Distribution:** Western Atlantic: Nova Scotia (Canada) south to Florida (U.S.A.) and Cuba, including Gulf of Mexico and northwestern Caribbean Sea. IUCN (2021): Least concern. Habitat: brackish, marine.

Genus ***Scoliodon*** Müller [J.] & Henle [F. G. J.] 1837:114 [Bericht über die zur Bekanntmachung geeigneten Verhandlungen der Königlich-Preussischen Akademie der Wissenschaften zu Berlin 1837; ref. [3067](#)] Masc. *Scoliodon laticaudus* Müller & Henle 1838. Type by subsequent monotypy.

Type apparently by subsequent monotypy in Müller & Henle 1838:28 [ref. [3069](#)], also in Bonaparte 1838:10 of separate [ref. [4979](#)]. Also without description in Müller & Henle 1838:84 [ref. [3068](#)].

Misspelled *Scoldiodon* by Bardach 1959:11a [ref. [24621](#)]. **Current status:** Valid as *Scoliodon* Müller & Henle 1837. Carcharhinidae.

Physodon Valenciennes [A.] in Müller & Henle 1838:30 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Masc. *Carcharias (Physodon) muelleri* Valenciennes 1839. Type by monotypy. Also apparently appeared as Valenciennes in Bonaparte 1838:10 (of separate) [ref. [4979](#)] with no species named. Also appeared with type species allocation in Valenciennes in Müller & Henle 1839:30 [ref. [3069](#)]. Current status: Synonym of *Scoliodon* Müller & Henle 1837. Carcharhinidae.

Scoliodon laticaudus Müller & Henle 1838

Scoliodon laticaudus Müller [J.] & Henle [F. G. J.] 1838:27, 28, [Pl. 8] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] India. Holotype (unique): ZMB 7830 (dry). Non-types: MNHN 0000-1123 (1), 0000-1041 (1), 0000-1066 (3), 0000-1122 (1). Type information: Bertin

1939:69 [ref. [20739](#)], Paepke & Schmidt 1988:167, 168 [ref. [21041](#)]. The description of this species on reset pages 27-28 printed in 1839 and to replace 27-28 of 1838 are based on the stuffed specimen (ZMB 7830) and 6 specimens in Paris; the original description in 1838 was based only on the ZMB specimen and it is therefore the unique holotype. The lectotype designation of a MNHN specimen by Springer 1964:579 [ref. [3494](#)] is not valid; see remarks in Paepke & Schmidt 1988:167, 183 [ref. [21041](#)]. **Current status:** Valid as *Scoliodon laticaudus* Müller & Henle 1838. Carcharhinidae. **Distribution:** Red Sea; Indian Ocean: East Africa, Madagascar and Persian Gulf east to western Malaya (Malaysia). Habitat: brackish, marine.

Carcharias (Prionodon) palasorra Bleeker [P.] 1853:80 [Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. v. 25 (art. 8); ref. [341](#)] Vizagapatam, India. Available as *Carcharinus (Prionodon) palasoora* Cuv. "Pala sorrah Russ. No. 15" which refers to Russell 1803 [ref. [13862](#)]. Current status: Synonym of *Scoliodon laticaudus* Müller & Henle 1838. Carcharhinidae. Habitat: brackish, marine.

Carcharias (Physodon) muelleri Müller [J.] & Henle [F. G. J.] (ex Valenciennes) 1839:30, [Pl. 19 (teeth)] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Bengal. Holotype (unique): MNHN 0000-1041. Type catalog: Bertin 1939:69 [ref. [20739](#)]. Species was originally spelled "*Müller*"; correction to *muelleri* mandatory. Evidently Müller & Henle alone were responsible for the description, so authorship is regarded as Müller & Henle (ex Valenciennes). Current status: Synonym of *Scoliodon laticaudus* Müller & Henle 1838. Carcharhinidae. Habitat: brackish, marine.

Scoliodon macrorhynchos (Bleeker 1852)

Carcharias (Scoliodon) macrorhynchos Bleeker [P.] 1852:31, Pl. 1 (fig. 1) [Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. v. 24 (art. 12); ref. [333](#)] Jakarta, Java, Indonesia. Holotype (unique): apparently lost. Bleeker specimens: BMNH 1867.121.28.190 (1), RMNH 7369 (2). Spelled *macrorhynchos* on pp. 7, 9, 27 and 31, *macrorhynchos* twice on p. 25 and *macrorhijnchos* on Pl. 1; the spelling *macrorhynchos* was used by Weber & de Beaufort 1911 [ref. [16091](#)] and if a first reviser is needed we select it also. For type information, see White et al. 2010:70 [ref. [30850](#)]. **Current status:** Valid as *Scoliodon macrorhynchos* (Bleeker 1852). Carcharhinidae. **Distribution:** Western Pacific: Gulf of Thailand, Sarawak (Borneo, Malaysia) and Vietnam north to southern Korea and southern Japan. Habitat: brackish, marine.

Genus *Triaenodon* Müller [J.] & Henle [F. G. J.] 1837:113 [Bericht über die zur Bekanntmachung geeigneten Verhandlungen der Königlichen Preussischen Akademie der Wissenschaften zu Berlin 1837; ref. [3067](#)] Masc. *Carcharias obesus* Rüppell 1837. Type by subsequent monotypy. Appeared first without species as above, one species added by Bonaparte 1838:212 (p. 11 of separate) [ref. [4979](#)] and species apparently designated type (see p. 2 of separate). Also appeared in Müller & Henle 1839:55 [ref. [3069](#)]. **Current status:** Valid as *Triaenodon* Müller & Henle 1837. Carcharhinidae.

Triaenodon obesus (Rüppell 1837)

Carcharias obesus Rüppell [W. P. E. S.] 1837:64, Pl. 18 (fig. 2) [Neue Wirbelthiere zu der Fauna von Abyssinien gehörig. Fische des Rothen Meeres; ref. [3844](#)] Jeddah, Saudi Arabia, Red Sea. Holotype (unique): SMF 3149. Type catalog and lectotype designation: Klausewitz 1960:291 [ref. [21330](#)]. SMF 3149 was erroneously designated as lectotype by Klausewitz (1960:291); Rüppell only mentioned a unique holotype of 3.5 feet (91.5 cm) TL. **Current status:** Valid as *Triaenodon obesus* (Rüppell 1837). Carcharhinidae. **Distribution:** Red Sea; Indo-Pacific: KwaZulu-Natal (South Africa), East Africa, Persian Gulf, Seychelles, Aldabra (Seychelles), Comoros, Madagascar and Mascarenes (La Réunion, Mauritius, Rodrigues) east to Hawaiian Islands, north to Ryukyu Islands and Ogasawara Islands, south to New South Wales (Australia), Kermadec Islands and Austral Islands; eastern Pacific: Pacific coast of Baja California (Mexico) south to Ecuador, including Revillagigedo Islands (Mexico), Malpelo Island (Colombia) and Galápagos Islands (Ecuador). Invasive in southern Brazil. Habitat: marine.

Triaenodon apicalis Whitley [G. P.] 1939:236, Fig. 9 [Australian Zoologist v. 9 (pt 3); ref. [4695](#)] Lindeman Island, northern Queensland, Australia. Holotype: AMS IA.6566. Paratypes: AMS IA.6565 (1). Current status: Synonym of *Triaenodon obesus* (Rüppell 1837). Carcharhinidae. Habitat: marine.

Checklist of Fishes relevant for CITES, prepared 27 March 2024
Extracted from Eschmeyer, Fricke, & van der Laan (eds). CATALOG OF FISHES: GENERA, SPECIES, REFERENCES.

- Class **Elasmobranchii**
 - Order **Carcharhiniformes**
 - Suborder **Carcharhinoidei**
 - Family **Sphyrnidae** Bonaparte 1840 (hammerhead sharks) (2 genera, 11 species)

Genus **Eusphyra** Gill [T. N.] 1862:403 [Annals of the Lyceum of Natural History of New York v. 7 (art. 32); ref. [1783](#)] Fem. *Zygaena blochii* Cuvier 1816. Type by original designation (also monotypic). Also in Gill 1862:412 [ref. [4910](#)] where author of species is clear. *Eusphyra* is a misspelling. **Current status:** Valid as *Eusphyra* Gill 1862. Sphyrnidae.

Eusphyra blochii (Cuvier 1816)

Zygaena blochii Cuvier [G.] 1816:127 [Le Règne Animal; ref. [993](#)] No locality. Holotype (unique): ZMB 7835 (stuffed). Type catalog: Paepke & Schmidt 1988:170 [ref. [21041](#)], Paepke 1999:143 [ref. [24282](#)]. Based on Bloch Pl. 117 and brief description. Also treated as *Sphyrna blochii* (Cuvier 1816) or *Eusphyra blochii*. **Current status:** Valid as *Eusphyra blochii* (Cuvier 1816). Sphyrnidae. **Distribution:** Indo-West Pacific: Persian Gulf east to Philippines, north to China, south to northern Australia. Habitat: brackish, marine.

Eusphyra laticeps (Cantor 1837)

Zygaena laticeps Cantor [T. E.] 1837:315, Pls. I-3 [Calcutta Medical and Physical Society. Quarterly. 1837 (art. 10); ref. [17332](#)] Bay of Bengal, India. Syntypes: (at least 2). •Synonym of *Sphyrna blochii* (Cuvier 1816) -- (Gilbert 1967:21 [ref. [21135](#)]). •Synonym of *Eusphyra blochii* (Cuvier 1816) -- (Compagno 1984:540 [ref. [6846](#)]). •Valid as *Eusphyra laticeps* (Cuvier 1816) -- (Fernando et al. 2019:226 [ref. [36642](#)]). **Current status:** Valid as *Eusphyra laticeps* (Cantor 1837). Sphyrnidae. Distribution: Indian Ocean: India and Sri Lanka. Habitat: brackish, marine.

Genus ***Sphyrna*** Rafinesque [C. S.] 1810:46, 60 [Indice d'ittologia siciliana; ref. [3595](#)] Fem. *Squalus zygaena* Linnaeus 1758. Type by subsequent designation. Type designated by Bonaparte 1838:10 (of separate, see also p. 2) [ref. [4979](#)]; also designated by Jordan & Gilbert 1883:26 [ref. [2476](#)]. **Current status:** Valid as *Sphyrna* Rafinesque 1810. Sphyrnidae.

Cestracion Gill [T. N.] (ex Klein) 1862:403 [Annals of the Lyceum of Natural History of New York v. 7 (art. 32); ref. [1783](#)] Neut. *Squalus zygaena* Linnaeus 1758. Type by original designation (also monotypic). Spelled *Cestralion* by Müller & Henle 1838:85 [ref. [3068](#)]. Current status: Synonym of *Sphyrna* Rafinesque 1810. Sphyrnidae.

Cestracion Ogilby [J. D.] (ex Walbaum after Klein) 1916:81 [Memoirs of the Queensland Museum v. 5; ref. [3295](#)] Neut. *Squalus zygaena* Linnaeus 1758. Type by original designation (name in parentheses). Validates *Cestracion* Walbaum 1792 (rejected work). Appears to have been described independently of Gill 1862. Current status: Synonym of *Sphyrna* Rafinesque 1810. Sphyrnidae.

Cestrorhinus (subgenus of *Squalus*) Blainville [H. de] 1816:121 [Bulletin des Sciences, par la Société Philomathique de Paris v. 8; ref. [306](#)] Masc. *Squalus zygaena* Linnaeus 1758. Type by subsequent designation. Type designated by Jordan & Evermann 1896:43 [ref. [2443](#)], also by Fowler 1911:77 [ref. [6398](#)]. Current status: Synonym of *Sphyrna* Rafinesque 1810. Sphyrnidae.

Mesozygaena (subgenus of *Sphyrna*) Compagno [L. J. V.] 1988:362, 366 [Sharks of the order Carcharhiniformes; ref. [13488](#)] Fem. *Sphyrna corona* Springer 1940. Type by original designation. Current status: Synonym of *Sphyrna* Rafinesque 1810. Sphyrnidae.

Platysqualus (subgenus of *Zygaena*) Swainson [W.] 1839:192, 318 [The natural history and classification v. 2; ref. [4303](#)] Masc. *Squalus tiburo* Linnaeus 1758. Type by monotypy. Current status: Synonym of *Sphyrna* Rafinesque 1810. Sphyrnidae.

Reniceps Gill [T. N.] 1862:403 [Annals of the Lyceum of Natural History of New York v. 7 (art. 32); ref. [1783](#)] Neut. *Squalus tiburo* Linnaeus 1758. Type by original designation (also monotypic). Also in Gill 1862:412 [ref. [4910](#)] where author of species is clear. Current status: Synonym of *Sphyrna* Rafinesque 1810. Sphyrnidae.

Sphyrna Van der Hoeven [J.] 1855:68 [Handboek der Dierkunde; ref. [2182](#)] Fem. *Squalus zygaena* Linnaeus 1758. Apparently an unjustified emendation or incorrect subsequent spelling of *Sphyrna* Rafinesque 1810. Current status: Synonym of *Sphyrna* Rafinesque 1810. Sphyrnidae.

Sphyrichthys Thienemann [F. A. L.] 1828:408 [Lehrbuch der Zoologie v. 3; ref. [4990](#)] Masc. *Sphyrichthys zygaena* of Thienemann 1828 (= *Squalus zygaena* Linnaeus 1758). Type by being a replacement name. Unneeded new name for *Sphyrna* Rafinesque 1810, not preoccupied. Current status: Synonym of *Sphyrna* Rafinesque 1810. Sphyrnidae.

Zygaena (subgenus of *Squalus*) Cuvier [G.] 1816:127 [Le Règne Animal; ref. [993](#)] Fem. *Squalus zygaena* Linnaeus 1758. Type by monotypy (also by absolute tautonymy). Misspelled or unjustifiably emended to *Zygana* by Swainson 1838:139 [ref. [4302](#)] and 1839:192, 318 [ref. [4303](#)]. Objectively invalid; preoccupied by *Zugaena* Fabricius 1775 in Lepidoptera. 1°Homonym. Current status: Synonym of *Sphyrna* Rafinesque 1810. Sphyrnidae.

Zygaena peruana Philippi [R. A.] 1887:545 [13], Pl. 2 (fig. 2) [Anales de la Universidad de Chile Sec. 1, v. 71; ref. [3464](#)] Peru. Holotype (unique): DBCUCH. On p. 13 of separate. Current status: Sphyrnidae

Zygana Swainson [W.] 1838:133, 139 [The natural history and classification of fishes, amphibians, & reptiles, or monocardian animals. v. 1; ref. [4302](#)] Fem. Also in Swainson 1839:192, 318 [ref. [4303](#)]. Misspelling or unjustified emendation of *Zygaena* Cuvier 1816, Swainson specifically referring to "*Zygana* Antiq." (pre-Linnaean authors spelled it *Zygaena* as did Cuvier). •In the synonymy of *Sphyrna* Rafinesque 1810 -- (Gilbert 1973:32 [ref. [7164](#)], Compagno 1988:362 [ref. [13488](#)]). Current status: Synonym of *Sphyrna* Rafinesque 1810. Sphyrnidae.

Zyganna Billberg [G. J.] 1833:51 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] Fem. *Squalus zygaena* Linnaeus 1758. Type by being a replacement name. Unnecessary replacement name for *Zygaena* Cuvier 1816. Replacement Name. Current status: Synonym of *Sphyrna* Rafinesque 1810. Sphyrnidae.

Zygoena Risso [A.] 1827:125 [Histoire naturelle des principales productions de l'Europe méridionale v. 3; ref. [3757](#)] Fem. *Squalus zygaena* Linnaeus 1758. Apparently a misspelling of *Zygaena* Cuvier 1816, but perhaps independently described. Current status: Synonym of *Sphyrna* Rafinesque 1810. Sphyrnidae species indet. Habitat: marine.

Sphyrna corona Springer 1940

Sphyrna corona Springer [S.] 1940:163, Fig. 4 [Stanford Ichthyological Bulletin v. 1 (no. 5); ref. [10182](#)] (Pacific) Panama. Holotype (unique): CAS-SU 11882. Type catalog: Böhlke 1953:9 [ref. [12291](#)]. **Current status:** Valid as *Sphyrna corona* Springer 1940. Sphyrnidae. **Distribution:** Eastern Pacific: southern tip of Baja California (Mexico) south to northern Peru, including Gulf of California (Mexico) and Malpelo Island (Colombia). Habitat: marine.

Sphyrna gilberti Quattro, Driggers III, Grady, Ulrich & Roberts 2013

Sphyrna gilberti Quattro [J. M.], Driggers III [W. B.], Grady [J. M.], Ulrich [G. F.] & Roberts [M. A.] 2013:171, Figs. 5-6, 7A [Zootaxa 3702 (no. 2); ref. [32875](#)] Bulls head, South Carolina, U.S.A. Holotype: UF 183577. Paratypes: UF 183578 (2), 183579 (2). **Current status:** Valid as *Sphyrna gilberti* Quattro, Driggers III, Grady, Ulrich & Roberts 2013. Sphyrnidae. **Distribution:** Western Atlantic: southeastern U.S.A.; São Paulo and Santa Catarina (Brazil). Habitat: marine.

Sphyrna lewini (Griffith & Smith 1834)

Zygaena lewini Griffith [E.] & Smith [C. H.] 1834:640, Pl. 50 [The class Pisces, arranged by the Baron Cuvier; ref. [1908](#)] [South coast of New Holland] southern Australia. No types known. Name available from Pl. 50. Based on a drawing by Mr. Lewin. Misspelled *leeuwenii* by Rochebrune

1883:44 [ref. [18639](#)]. **Current status:** Valid as *Sphyrna lewini* (Griffith & Smith 1834). Sphyrnidae. **Distribution:** Circumglobal in tropical and warm temperate seas (including Gulf of Mexico, Caribbean Sea, western Mediterranean Sea, Red Sea, Persian Gulf, Sea of Japan, Gulf of California/Mexico). Habitat: freshwater, brackish, marine.

Zygaena indica van Hasselt [J. C.] 1823:315 [Algemeene Konst- en Letter-bode voor het Jaar I Deel (no. 20); ref. [4513](#)] Vizagapatam, India; Java, Indonesia, Java Sea, eastern Indian Ocean. No types known. Based on figure in Russel, 1823, l., p. 8, pl. XII (see Alfred 1961:81, Pl. 3 [ref. [20553](#)]). Also in van Hasselt 1824:90 [ref. [5104](#)]. Should be suppressed and the use of the name *lewini* continued. Nomen Oblitum. **Current status:** Synonym of *Sphyrna lewini* (Griffith & Smith 1834). Sphyrnidae. Habitat: freshwater, brackish, marine.

Cestracion leeuwenii Day [F.] 1865:271 [The fishes of Malabar; ref. [1074](#)] Malabar coast, India, Arabian Sea, western Indian Ocean. Unexplained new spelling for *Zygaena lewini* Griffith & Smith 1834. **Current status:** Synonym of *Sphyrna lewini* (Griffith & Smith 1834). Sphyrnidae. Habitat: freshwater, brackish, marine.

Cestracion oceanica Garman [S.] 1913:158 [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Society Islands, French Polynesia, South Pacific. Syntypes: MCZ 460-S (3), USNM 153587 [ex MCZ 460] (1). Type catalog: Howe & Springer 1993:10 [ref. [21812](#)], Hartel & Dingerkus 1997:xl [ref. [23119](#)]. **Current status:** Synonym of *Sphyrna lewini* (Griffith & Smith 1834). Sphyrnidae. Habitat: freshwater, brackish, marine.

Sphyrna diplana Springer [S.] 1941:46, Figs. 1-2 [Proceedings of the Florida Academy of Sciences v. 5; ref. [10183](#)] Off Englewood, Florida, U.S.A., Gulf of Mexico, western Atlantic. Holotype: USNM 108451. Paratypes: USNM 108452 (1, head only), 110296-97 (2, jaws only). Type catalog: Howe & Springer 1993:6 [ref. [21812](#)]. **Current status:** Synonym of *Sphyrna lewini* (Griffith & Smith 1834). Sphyrnidae. Habitat: freshwater, brackish, marine.

Sphyrna couardi Cadenat [J.] 1951:41, 99 [Initiations Africaines. III. Poissons de mer du Sénégal; ref. [12676](#)] Senegal. No types known. Only briefly characterized but regarded as available. **Current status:** Synonym of *Sphyrna lewini* (Griffith & Smith 1834). Sphyrnidae. **Distribution:** Western Mediterranean; eastern Atlantic: Morocco south to Congo (if valid). Habitat: freshwater, brackish, marine.

***Sphyrna media* Springer 1940**

Sphyrna media Springer [S.] 1940:162, Fig. 3 [Stanford Ichthyological Bulletin v. 1 (no. 5); ref. [10182](#)] Mazatlán, Sinaloa, western Mexico. Holotype: CAS-SU 11583. Paratypes: USNM 28160 (1). Type catalog: Böhlke 1953:9-10 [ref. [12291](#)], Howe & Springer 1993:9 [ref. [21812](#)]. **Current status:** Valid as *Sphyrna media* Springer 1940. Sphyrnidae. **Distribution:** Eastern Pacific: southern tip of Baja California (Mexico) south to Peru, including Gulf of California (Mexico, here regionally extinct); western Atlantic: Panama south to southeastern Brazil, including southern Caribbean Sea. Habitat: marine.

Sphyrna nana Sadowsky [V.] 1965:6, Figs. 2, 7 [Bulletin of Marine Science v. 15 (no. 1); ref. [9252](#)] Off Cananéia, 25°S, 47°52'W, Brazil, depth 8 meters. Holotype: MZUSP [ex DZSASP] 4304. Type catalog: Britski 1969:201 [ref. [12401](#)], Lima et al. 2023:304 [ref. [40221](#)]. **Current status:** Synonym of *Sphyrna media* Springer 1940. Sphyrnidae. Habitat: marine.

***Sphyrna mokarran* (Rüppell 1837)**

Zygaena mokarran Rüppell [W. P. E. S.] 1837:66, Pl. 17 (fig. 3) [Neue Wirbelthiere zu der Fauna von Abyssinien gehörig. Fische des Rothen Meeres; ref. [3844](#)] Massawa, Eritrea, Red Sea. Lectotype: SMF 3590 (stuffed). Type catalog and lectotype designation: Klauswitz 1960:293 [ref. [21330](#)]. **Current status:** Valid as *Sphyrna mokarran* (Rüppell 1837). Sphyrnidae. **Distribution:** Circumglobal in tropical through warm temperate seas (including Gulf of Mexico, Caribbean Sea, Mediterranean Sea, Red Sea, Persian Gulf, South China Sea, East China Sea, Gulf of California/Mexico). IUCN (2021): Critically Endangered. Habitat: brackish, marine.

Zygaena dissimilis Murray [J. A.] 1887:103, Pl. [Journal of the Bombay Natural History Society v. 2 (pt 2); ref. [17806](#)] Karachi, Pakistan. Published in 3 places, earliest not determined. As above,

in Ann. Mag. Nat. Hist. [see ref. [17806](#)], and in Murray 1887 [ref. [17805](#)]. Current status: Synonym of *Sphyrna mokarran* (Rüppell 1837). Sphyrnidae. Habitat: brackish, marine.

Sphyrna ligo Fraser-Brunner [A.] 1950:214, Fig. 1 [Records of the Australian Museum v. 22 (no. 3); ref. [12952](#)] Clarence River, New South Wales, Australia. Holotype: BMNH 1890.9.23.231 [ex Imperial Inst.] (embryo). Current status: Synonym of *Sphyrna mokarran* (Rüppell 1837). Sphyrnidae. Habitat: brackish, marine.

Sphyrna tiburo (Linnaeus 1758)

Squalus tiburo Linnaeus [C.] (ex Markgraf von Liebstadt) 1758:234 [Systema Naturae, Ed. X v. 1; ref. [2787](#)] America (is Brazil). No types known. Based on the 'Tiburones species minor' of Markgraf von Liebstadt (1648: 181, fig. [ref. [30347](#)]) from Brazil, and the 'Zygenae affinis, capite triangulo' of Willughby (1686: 55 [ref. [30164](#)]). **Current status:** Valid as *Sphyrna tiburo* (Linnaeus 1758). Sphyrnidae. **Distribution:** Western Atlantic: Massachusetts (U.S.A.) south to southern Brazil, including Gulf of Mexico and Caribbean Sea. IUCN (2020): Endangered. Records from eastern Pacific off Colombia need verification. Habitat: brackish, marine.

Sphyrna tudes (Valenciennes 1822)

Zygaena tudes Valenciennes [A.] 1822:225, Pl. 2 (fig. 1) [Mémoires du Muséum d'Histoire Naturelle, Paris v. 9; ref. [17862](#)] Nice, France, northwestern Mediterranean Sea. Lectotype: MNHN A-1049. Paralectotypes: MNHN A-1019 (1) Cayenne, MNHN (1, lost) Coromandel. Type catalog: Bertin 1939:74 [ref. [20739](#)]. Lectotype selected by Gilbert 1967:65 [ref. [21135](#)]. **Current status:** Valid as *Sphyrna tudes* (Valenciennes 1822). Sphyrnidae. **Distribution:** Western Atlantic: Gulf of Mexico south to Uruguay, including Caribbean Sea; ?Mediterranean Sea; eastern Pacific. Habitat: marine.

Sphyrna bigelowi Springer [S.] 1944:274, Fig. 1 [Journal of the Washington Academy of Sciences v. 34 (no. 8); ref. [10186](#)] Off Santa Maria, Uruguay, southwestern Atlantic. Holotype: USNM 87682. Paratypes: MCZ 463-S (1); USNM 120751 [ex USNM 87682] (1). Type catalog: Howe & Springer 1993:4 [ref. [21812](#)]. Current status: Synonym of *Sphyrna tudes* (Valenciennes 1822). Sphyrnidae. Habitat: marine.

Sphyrna vespertina Springer 1940

Sphyrna vespertina Springer [S.] 1940:161, Fig. 2 [Stanford Ichthyological Bulletin v. 1 (no. 5); ref. [10182](#)] Panama City, (Pacific) Panama. Holotype: CAS-SU 11584. Paratypes: CM 5675 (1); CAS-SU 11881 (1). Type catalog: Böhlke 1953:10 [ref. [12291](#)]. •Considered a synonym of *Sphyrna tiburo* (Linnaeus 1758) by Gilbert 1967:53 [ref. [21135](#)], Compagno 1984:550 [ref. [6846](#)], Compagno et al. in Fischer et al. 1995:721 [ref. [22829](#)], Chirichigno F. & Vélez D. 1998:40 [ref. [24555](#)], Castro-Aguirre et al. 1999:52 [ref. [24550](#)], Compagno 2003:503 [ref. [26984](#)], Espinosa Pérez et al. 2004:73 [ref. [27705](#)], Castro 2011:521 [ref. [31457](#)]. •Considered valid as *Sphyrna vespertina* Springer 1940 by Del Moral-Flores et al. 2016:100 [ref. [34398](#)], Del Moral-Flores et al. 2016:605 [ref. [34923](#)], Calle-Morán et al. 2020:243 [ref. [37881](#)], Page et al. 2023:41 [ref. [40505](#)]. **Current status:** Valid as *Sphyrna vespertina* Springer 1940. Sphyrnidae. **Distribution:** Eastern Pacific: southern California (U.S.A.) south to Paita (northern Peru), including Gulf of California (Mexico). Habitat: brackish, marine.

Sphyrna zygaena (Linnaeus 1758)

Squalus zygaena Linnaeus [C.] 1758:234 [Systema Naturae, Ed. X v. 1; ref. [2787](#)] Mediterranean Sea and Atlantic [original: "Europa, America"]; localities include Spain; Marseille, France; Rome, Italy; Lesbos Island, Greece; Syria, Mediterranean Sea. Syntypes: NRM 88 (1). Type catalog: Fernholm & Wheeler 1983:208 [ref. [20707](#)]. Originally based on multiple species and at least 24 pre-Linnaean sources including Artedi 1738:68 [ref. [30578](#)] and Artedi 1738:96 [ref. [30349](#)] as *Squalus capite latissimo transverso mallei instar*; Rondelet 1554:389 [ref. [30354](#)] as *Zygæna*, Salviani 1558:128 [ref. [30229](#)] as *Libella*, Willughby 1686:55 [ref. [30164](#)] and Ray 1713:20 [ref. [30231](#)] as *Zygæna*. Spelled *zygena* by Bonnaterre 1788:9 [ref. [4940](#)], and *zigoena* by Cabrera y

Corro, Pérez & Hänseler 1817:11 [ref. [17319](#)], see Graells 1887:185 [ref. [30438](#)]. Spelled *zygoena* by Chevey 1932:6 [ref. [23060](#)] as *Cestracion*. Name spelled *Squalus zygaena* by Sonnini 1803:74 [ref. [30464](#)] and Berthelot 1840:115 [ref. [30346](#)]. **Current status:** Valid as *Sphyrna zygaena* (Linnaeus 1758). Sphyrnidae. **Distribution:** Circumglobal in warm temperate seas, occasionally in tropical seas (including Caribbean Sea, Mediterranean Sea, Persian Gulf, Sea of Japan, Gulf of California/Mexico). Habitat: brackish, marine.

Zygaena malleus Valenciennes [A.] 1822:223, Pl. 1 (fig. 1) [Mémoires du Muséum d'Histoire Naturelle, Paris v. 9; ref. [17862](#)] France; Brazil, southwestern Atlantic; Mediterranean Sea. No types known. Current status: Synonym of *Sphyrna zygaena* (Linnaeus 1758). Sphyrnidae. Habitat: brackish, marine.

Zygaena vulgaris Cloquet [H.] 1830:621 (v. 60) [Dictionnaire des sciences Naturelles; ref. [852](#)] Mediterranean Sea, Arabian Sea, and Red Sea. whereabouts unknown. Based on *Squalus zygaena* Linnaeus 1758, probably to avoid strickland tautonymy. Current status: Synonym of *Sphyrna zygaena* (Linnaeus 1758). Sphyrnidae. Habitat: brackish, marine.

Zyganna voracissima Billberg [G. J.] 1833:51 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] Mediterranean Sea and Atlantic [original: "Europa, America"]. No types known. Syntypes: NRM 88 (1). Unnecessary replacement name for "*Zygaena* Linn." (is *Squalus zygaena* Linnaeus 1758); see Kullander 2016:113 [ref. [34147](#)]. Replacement Name. Current status: Synonym of *Sphyrna zygaena* (Linnaeus 1758). Sphyrnidae. Habitat: brackish, marine.

Zygaena subarcuata Storer [D. H.] 1848:71 [Proceedings of the Boston Society of Natural History v. 3 (1848-1851); ref. [18844](#)] Harbor at Provincetown, Massachusetts, U.S.A., Cape Cod Bay, western North Atlantic. Holotype (unique): MCZ. Non-types: ?MCZ 1416-S (1), 89507-08 (1, 1). Current status: Synonym of *Sphyrna zygaena* (Linnaeus 1758). Sphyrnidae. Habitat: brackish, marine.

- Class **Elasmobranchii**

- Order **Lamniformes**

- Family **Alopiidae** Bonaparte 1835 (thresher sharks) (1 genus, 3 species)

Genus ***Alopias*** Rafinesque [C. S.] 1810:12 [Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia; ref. [3594](#)] Masc. *Alopias macrourus* Rafinesque 1810. Type by monotypy. Misspellings include *Alopius* and *Alopes*. **Current status:** Valid as *Alopias* Rafinesque 1810. Alopiidae.

Alopecias Müller [J.] & Henle [F. G. J.] 1837:114 [Bericht über die zur Bekanntmachung geeigneten Verhandlungen der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1837; ref. [3067](#)] Masc. *Squalus vulpes* Gmelin 1789. Type by monotypy. Also in Müller & Henle 1838:84 [ref. [3068](#)]. Also appeared in Müller & Henle 1839:74 [ref. [3069](#)] in synonymy of *Alopias*. Current status: Synonym of *Alopias* Rafinesque 1810. Alopiidae.

Vulpecula Jarocki [F. P.] 1822:454 [Zoologija czyli zwiérzetopismo ogolne podlug náynowszego systematu ulozone v. 4; ref. [4984](#)] Fem. *Squalus vulpes* Gmelin 1789. Type by monotypy. Described independent of *Vulpecula* Valmont de Bomare 1764. Current status: Synonym of *Alopias* Rafinesque 1810. Alopiidae.

Vulpecula Garman [S.] (ex Valmont de Bomare) 1913:30 [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Fem. *Vulpecula marina* Garman 1913. Type by monotypy. *Vulpecula* Valmont 1768 is unavailable (published in a rejected work). *Vulpecula* Garman is available, and described independently of Jarocki 1822. Garman recognized one species, based on pre-Linnaean *marina*, which can date to Garman 1913. *Alopes* is a misspelling. Current status: Synonym of *Alopias* Rafinesque 1810. Alopiidae.

Alopias pelagicus Nakamura 1935

Alopias pelagicus Nakamura [H.] 1935:3, 5, Pl. 1 (fig. 2), Pl. 3 (figs. 5-6) [Memoirs of the Faculty

of Science and Agriculture, Taihoku Imperial University, Formosa v. 14 (no. 1) (Zoology no. 4); ref. [13907](#)] Market at Suô [Suao], east coast of Taiwan, 24°36'N, 121°52'E. Syntypes: (4) whereabouts unknown. Type catalog: Ho & Shao 2011:17 [ref. [31432](#)]. According to Ho & Shao 2011:17 [ref. [31432](#)], the syntype series was not registered and probably discarded. **Current status:** Valid as *Alopias pelagicus* Nakamura 1935. Alopiidae. **Distribution:** Circumglobal (including Red Sea, Gulf of California/Mexico). Habitat: marine.

Alopias superciliosus (Lowe 1841)

Alopecias superciliosus Lowe [R. T.] 1841:39 [Proceedings of the Zoological Society of London 1840 (pt. 8, no. 89); ref. [2830](#)] Madeira, Northeastern Atlantic. Holotype (unique): whereabouts unknown. **Current status:** Valid as *Alopias superciliosus* (Lowe 1841). Alopiidae. **Distribution:** Circumglobal in tropical and temperate seas (including Gulf of Mexico, Caribbean Sea, Mediterranean Sea, Gulf of California/Mexico). Habitat: marine.

Alopias profundus Nakamura [H.] 1935:2, 4, Pl. 1 (fig. 1), Pl. 2 (figs. 3-4) [Memoirs of the Faculty of Science and Agriculture, Taihoku Imperial University, Formosa v. 14 (no. 1) (Zoology no. 4); ref. [13907](#)] Market at Suô [Suao], east coast of Taiwan, 24°36'N, 121°52'E. Syntypes: (4) whereabouts unknown. Type catalog: Ho & Shao 2011:17 [ref. [31432](#)]. According to Ho & Shao 2011:17 [ref. [31432](#)], the syntype series was not registered and probably discarded. Current status: Synonym of *Alopias superciliosus* (Lowe 1841). Alopiidae. Habitat: marine.

Alopias vulpinus (Bonnaterre 1788)

Squalus vulpinus Bonnaterre [J. P.] (ex Pennant) 1788:9, Pl. 85 (fig. 349) [Tableau encyclopédique et méthodique des trois règnes de la nature... Ichthyologie; ref. [4940](#)] Mediterranean Sea; Cornwall, England, northeastern Atlantic. No types known. Based on the 'Sea fox' of Pennant 1769:86, Pl. 4 [ref. [18527](#)], which was based on multiple historical sources, and possibly on more than one species; neotype selection needed to stabilize the current usage of the name. **Current status:** Valid as *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. **Distribution:** Circumglobal in tropical through temperate seas (including Gulf of Mexico, Caribbean Sea, Mediterranean Sea, Black Sea, western Baltic Sea, North Sea, Gulf of California/Mexico). Habitat: brackish, marine.

Squalus vulpes Berkenhout [J.] (ex Pennant) 1789:60 [Synopsis of the natural history of Great-Britain and Ireland v. 1; ref. [12437](#)] Mediterranean Sea; Scotland; Cornwall, England, northeastern Atlantic. No types known. Based on 'The Sea Fox' of Pennant 1769:86 [ref. [18527](#)]; apparently described independent from *Squalus vulpes* Gmelin 1789. Earliest publication not established. Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: marine.

Squalus vulpes Gmelin [J. F.] 1789:1496 [Caroli a Linné ... Systema Naturae per regna tria naturae v. 1 (pt 3); ref. [18139](#)] Mediterranean Sea; Scotland; Cornwall, England, northeastern Atlantic. No types known. Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.

Alopias macrourus Rafinesque [C. S.] 1810:12 [Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia; ref. [3594](#)] Sicily, Italy, Mediterranean Sea. No types known. Also appeared in Rafinesque 1810:45 [ref. [3595](#)]. Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.

Galeus vulpecula Rafinesque [C. S.] 1810:13 [Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia; ref. [3594](#)] Sicily, Italy, Mediterranean Sea. No types known. Also appeared in Rafinesque 1810:46 [ref. [3595](#)] citing "*Squalus vulpecula* Linnaeus", a name not found. Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.

Squalus alopecias Gronow [L. T.] in Gray 1854:7 [Catalogue of fish collected and described by Laurence Theodore Gronow; ref. [1911](#)] Atlantic; Mediterranean Sea. No types known. Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.

Alopecias barrae Pérez Canto [C.] 1886:6 [Anales de la Universidad de Chile Sec. 1, v. 69; ref. [18531](#)] Valparaíso, Chile. Holotype (unique): ?MHNV (possibly lost). See also Philippi 1887:553 [p. 21 of separate], Pl. 5 (fig. 2) [ref. [3464](#)]. Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.

Alopecias longimana Philippi [R. A.] 1902:308 [8] [Anales de la Universidad de Chile v. 109 (for July-Dec. 1901); ref. [14889](#)] Talcahuano Bay, Chile. Holotype (unique): whereabouts unknown. On p. 8 of separate. Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.

Alopecias chilensis Philippi [R. A.] 1902:310 [Anales de la Universidad de Chile v. 109 (for July-Dec. 1901); ref. [14889](#)] Chile. No types known. Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.

Vulpecula marina Garman [S.] 1913:30, Pl. 7 (figs. 1-3) [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Massachusetts Bay, Massachusetts, U.S.A. Holotype (?): MCZ 1166-S. Not intended as new, but validates a pre-Linnaean name, and the unavailable name *Vulpecula marina* of Valmont de Bomare 1764:609 [ref. [4507](#)] and later editions; Garman is the author. Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.

Alopias caudatus Phillipps [W. J.] 1932:226, Fig. 1 [The New Zealand Journal of Science and Technology v. 13 (no. 4); ref. [16393](#)] Westernport, Victoria, Australia. Holotype: NMV 58434 (mounted specimen). Paratypes: NMNZ (1, photograph). This species is based on an Australian *Alopias* specimen described and figured by McCoy [Proc. Zool. Vic., pl. 88], and on a photograph of a New Zealand specimen. Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.

Alopias greyi Whitley [G. P.] 1937:5 [Records of the Australian Museum v. 20 (no. 1); ref. [4691](#)] Off Bermagui, New South Wales, Australia. Holotype (unique): AMNH (jaws only). Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.

- Class **Elasmobranchii**

- Order **Lamniformes**

- Family **Cetorhinidae** Gill 1861 (basking sharks) (1 genus, 1 species)

Genus **Cetorhinus** (subgenus of *Squalus*) Blainville [H. de] 1816:121 [Bulletin des Sciences, par la Société Philomathique de Paris v. 8; ref. [306](#)] Masc. *Squalus gunnerianus* Blainville 1810 (= *Squalus maximus* Gunnerus 1765). Type by subsequent designation. Gill 1862:398 [ref. [1783](#)] lists *S. maximus* Linn. [sic] as type (not an included species); designation dates to Jordan & Gilbert 1883:31 [ref. [2476](#)] as *gunneri* = *maximus*. Spelled *Ceterhinus* and *Ceteorhinus* by Agassiz 1846:75 [ref. [64](#)]. *Cethorhinus* is a misspelling. **Current status:** Valid as *Cetorhinus* Blainville 1816. Cetorhinidae.

Halsydrus Fleming [J.] (ex Neill) 1817:691 [Edinburgh Encyclopedia; ref. [26328](#)] Masc. *Halsydrus pontoppidiani* Fleming 1817. Type by monotypy. Appeared first in Neill 1809:6 [ref. [4973](#)] as name only, apparently published in an available way by Fleming 1817 in Brewster's Edinburgh Encyclopedia [not seen, ref. [26328](#)]. See Bland & Swinney 1978:133-135 [ref. [26326](#)] for details. Current status: Synonym of *Cetorhinus* Blainville 1816. Cetorhinidae.

Polyprosopus Couch [J.] 1862:67 [The history of the fishes of the British islands v. 1; ref. [989](#)] Masc. *Squalus rashleighanus* Couch 1838. Type by subsequent designation. Gill gives date for Couch v. 1 as 1861. Type designated by Gill 1862:398 [p. 32 of separate] [ref. [1783](#)]. Current status: Synonym of *Cetorhinus* Blainville 1816. Cetorhinidae.

Selache Cuvier [G.] 1816:129 [Le Règne Animal; ref. [993](#)] Fem. *Squalus maximus* Gunnerus 1765. Type by subsequent designation. Type apparently first designated by Bonaparte 1838:9 (of separate) [ref. [4979](#)]. *Selanche* Jarocki 1822 and *Selachus* Minding 1832 evidently are misspellings. Current status: Synonym of *Cetorhinus* Blainville 1816. Cetorhinidae.

Tetroras Rafinesque [C. S.] 1810:11 [Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia; ref. [3594](#)] Masc. *Tetroras angiova* Rafinesque 1810. Type by monotypy.

Treated as masculine, Art. 30.2.4. Later spelled *Tetraoras* by Rafinesque. Nomen dubium, perhaps referring to *Cetorhinus maximus* (Jordan 1917:77 [ref. [2407](#)]). Current status: Synonym of *Cetorhinus* Blainville 1816. Cetorhinidae.

Cetorhinus maximus (Gunnerus 1765)

Squalus maximus Gunnerus [J. E.] 1765:33, Pl. 2 [Der Trondhiemske Selskabs Skrifter v. 3; ref. [18172](#)] Nordland County, northern Norway, Northeastern Atlantic. No types known. Original spelling as *Sqvalus maximus* due to classical typesetting. Lectotype selected by Fricke 1999:15 [ref. [24101](#)] as the illustration of Gunnerus (1765: Pl. 2) [specimen not in existence]. **Current status:** Valid as *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. **Distribution:** Circumglobal but often antiequatorial (including Gulf of Mexico, Caribbean Sea, Mediterranean Sea, Baltic Sea, North Sea, Gulf of California/Mexico). Habitat: marine.

Squalus pelegrinus Blainville [H. de] 1810:170 [Nouveau Bulletin des Sciences, par la Société Philomathique, Paris. v. 2 (no. 38) (for Nov. 1810); ref. [16819](#)] Dieppe, northern France. Holotype: MNHN 0000-9853 (mounted). Type catalog: Bertin 1939:74-75 [ref. [20739](#)]. Also in Blainville 1811:365 [ref. [26329](#)] Pl. 2 (fig. 2); spelled *peregrinus* in Blainville 1811:365 [ref. [26329](#)] and 1816:121 [ref. [306](#)]. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Squalus homianus Blainville [H. de] 1810:171, Pl. 2 (fig. 1) [Nouveau Bulletin des Sciences, par la Société Philomathique, Paris. v. 2 (no. 38) (for Nov. 1810); ref. [16819](#)] No types known. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Squalus gunnerianus Blainville [H. de] 1810:256, Pl. 2 (fig. 3) [Journal de Physique, de Chimie et d'Histoire Naturelle Paris v. 71; ref. [16818](#)] Nordland County, northern Norway, Northeastern Atlantic. No types known. Also appeared in Blainville 1811:170 [ref. [16819](#)]. Unneeded replacement name for *Squalus maximus* Gunnerus 1765. Replacement Name. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Tetroras angiova Rafinesque [C. S.] 1810:11 [Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia; ref. [3594](#)] Sicily, Italy, Mediterranean Sea. No types known. Also appeared in Rafinesque 1810:46 [ref. [3595](#)]. Spelled *angiona* by Bigelow & Schroeder 1948:146 [ref. [16817](#)]. Current status: Uncertain as *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Halsydrus pontoppidiani Fleming [J.] (ex Neill) 1817:691 [Edinburgh Encyclopedia; ref. [26328](#)] Holotype (unique): NMSZ 1979.012 (parts). Appeared first without distinguishing features as *pontoppidani* in Neill 1809; see Bland & Swinney 1978:134 [ref. [26326](#)]. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Squalus isodus Macrí [S.] 1819:65, 76, Pl. 1 (fig. 1) [Atti della Reale Accademia delle Scienze, Sezione della Società Reale Borbonica, Napoli v. 1 (pt. 2); ref. [17591](#)] Capri Island, Italy, western Mediterranean Sea. No types known. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Squalus rostratus Macrí [S.] 1819:76, Pl. 1 (fig. 2) [Atti della Reale Accademia delle Scienze, Sezione della Società Reale Borbonica, Napoli v. 1 (pt. 2); ref. [17591](#)] Messina, Sicily, Italy, Mediterranean Sea. No types known. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Squalus elephas Lesueur [C. A.] 1822:350, unnumbered plate [Journal of the Academy of Natural Sciences, Philadelphia v. 2; ref. [17519](#)] Brown's Point, Raritan Bay, New Jersey, U.S.A. Holotype (unique): whereabouts unknown. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Squalus rashleighanus Couch [J.] 1838:51 [A Cornish fauna, being a compendium of the natural history of the county; ref. [18049](#)] Cornwall, England. No types known. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Squalus cetaceus Gronow [L. T.] in Gray 1854:6 [Catalogue of fish collected and described by Laurence Theodore Gronow; ref. [1911](#)] Norwegian Sea. No types known. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Polyprosopus macer Couch [J.] 1862:68, Pl. 15 (fig. 2) [The history of the fishes of the British islands v. 1; ref. [989](#)] Startpoint, Cornwall, England. No types known. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Cetorhinus blainvillii de Brito Capello [F.] 1869:234, pl. [Jornal do Ciências Matemáticas, Physicas e Naturaes, Lisboa v. 2 (no. 7) (art. 5); ref. [37211](#)] Póvoa de Varzim, Portugal, northeastern Atlantic Ocean. No types known. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Selachus pennantii Cornish [T.] 1885:351 [The Zoologist: a Popular Miscellany of Natural History (Series 3) v. 9 (no. 105); ref. [18041](#)] Mount's Bay, England. No types known. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Tetroras maccoyi Barrett [C.] (ex Whitley & Phillipps) 1933:13, fig. [ref. [19945](#)] Eastern Australia and New Zealand. Holotype: Melbourne Aquarium (whereabouts unknown). See also Whitley 1934:197 [ref. [4949](#)]. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

Cetorhinus normani Siccardi [E. M.] 1961:255, Pl. 1 [Revista del Museo Argentino de Ciencias Naturales "Bernardino Rivadavia", Ciencias Zoológicas v. 6 (no. 2); ref. [9379](#)] Mar del Plata and Puerto Quequén, Argentina. Syntypes: (4) MACN. Current status: Synonym of *Cetorhinus maximus* (Gunnerus 1765). Cetorhinidae. Habitat: marine.

- Class **Elasmobranchii**

- Order **Lamniformes**

- Family **Lamnidae** Bonaparte 1835 (mackerel sharks) (3 genera, 5 species)

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Genus **Carcharodon** Smith [A.] in Müller & Henle 1838:37 [Magazine of Natural History [E. Charlesworth, ed.] (n.s.) v. 2 (art. 7); ref. [3066](#)] Masc. *Squalus carcharias* Linnaeus 1758. Type by subsequent monotypy. On Official List (Opinion 723). Also appeared in Müller & Henle 1839:70 [ref. [3069](#)] who added *Carcharodon rondeletii* Müller & Henle 1839 as type and only known species; however, Opinion 723 (1965) fixed *Squalus carcharias* Linnaeus 1758, through *Carcharias lamia* Rafinesque 1810, as type species by subsequent monotypy. **Current status:** Valid as *Carcharodon* Smith 1838. Lamnidae.

Carcharodon carcharias (Linnaeus 1758)

Squalus carcharias Linnaeus [C.] 1758:235 [Systema Naturae, Ed. X v. 1; ref. [2787](#)] Mediterranean Sea, northeastern Atlantic, western Atlantic [original: "in Europa"]; localities include Bayonne, France, Bay of Biscay; Spain; Marseille and Nice, France; Italy; Malta; Lesbos Island, Greece; Syria; Brazil. No types known. Lectotype or neotype fixation needed: the type locality should be restricted to Mediterranean Sea or Northeastern Atlantic Ocean, according to current usage. Neotype designation by Fricke 1999:15 [ref. [24106](#)] is invalid; see Fricke 2000:639 [ref. [24537](#)]. Originally based on multiple species and at least 30 pre-Linnaean sources including Artedi 1738:70 [ref. [30578](#)] and Artedi 1738:98 [ref. [30349](#)] as *Squalus dorso plano, dentibus serratis*; Rondelet 1554:390 [ref. [30354](#)] as *Lamia*, Markgraf von Liebstadt 1648:181 [ref. [30347](#)] as *Tiburo*, Jonston 1649:209, Pl. 39 [ref. [30579](#)] as *Tiburone*, Charleton 1668:127 [ref. [30580](#)] as *Canis carcharias*, Willughby 1686:47 [ref. [30164](#)] and Ray 1713:18 [ref. [30231](#)] as *Canis carcharias seu lamia*. **Current status:** Valid as *Carcharodon carcharias* (Linnaeus 1758). Lamnidae. **Distribution:** Circumglobal in tropical and temperate seas (including Gulf of Mexico, Caribbean Sea, Mediterranean Sea, South China Sea, Yellow Sea, Sea of Japan, Gulf of California/Mexico). IUCN (2019): Vulnerable. Habitat: brackish, marine.

Squalus caninus Osbeck [P.] 1765:102 [Reise nach Ostindien und China; ref. [3311](#)] Southeastern Atlantic, southwest of Cape of Good Hope, at 35°15' S. No types known. Current status: Synonym of *Carcharodon carcharias* (Linnaeus 1758). Lamnidae. Habitat: brackish, marine.

Carcharias verus Cloquet [H.] 1817:69 (v. 7) [Dictionnaire des sciences Naturelles; ref. [852](#)] The Ocean. No types known. Current status: Synonym of *Carcharodon carcharias* (Linnaeus 1758). Lamnidae. Habitat: brackish, marine.

Squalus (Carcharias) vulgaris Richardson [J.] 1836:288 [Fauna Boreali-Americana Part 3; ref. [3731](#)] No types known. Unexplained new name. Current status: Synonym of *Carcharodon carcharias* (Linnaeus 1758). Lamnidae. Habitat: brackish, marine.

Carcharodon smithi Bonaparte [C. L.] 1838:9 [Nuovi annali delle scienze naturali e rendiconto dei lavori dell'Accademia della Scienze dell'Istituto di Bologna con appendice agraria. Bologna v. 2; ref. [4979](#)] No locality stated. Although authorship is credited to Müller & Henle, the name is used first in Bonaparte. Current status: Synonym of *Carcharodon carcharias* (Linnaeus 1758). Lamnidae. Habitat: brackish, marine.

Carcharodon smithii Agassiz [L.] (ex Müller & Henle) 1838:90, Pl. F (figs. 3, 3a-3c) [Recherches sur les poissons fossiles; ref. [13390](#)] No locality stated. No types known. Current status: Synonym of *Carcharodon carcharias* (Linnaeus 1758). Lamnidae. Habitat: brackish, marine.

Carcharodon capensis Smith [A.] 1839:no pagination, Pl. 4 [Illustrations of the zoology of South Africa v. 4; ref. [4035](#)] Cape Seas, South Africa. Holotype: BMNH 1850.9.5.3 (stuffed). Current status: Synonym of *Carcharodon carcharias* (Linnaeus 1758). Lamnidae. Habitat: brackish, marine.

Carcharodon rondeletii Müller [J.] & Henle [F. G. J.] 1839:70 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Adriatic Sea (Mediterranean Sea); Atlantic; Cape Town, South Africa, southeastern Atlantic; Pacific coast of Australia. Syntypes: BMNH 1850.9.5.3 (1 stuffed) Cape Town, South Africa; RUSM uncat. (2, whereabouts unknown), SMF uncat. (1, whereabouts unknown) Adriatic, ZMB uncat. (1, whereabouts unknown). Current status: Synonym of *Carcharodon carcharias* (Linnaeus 1758). Lamnidae. Habitat: brackish, marine.

Carcharias atwoodi Storer [D. H.] 1848:71 [Proceedings of the Boston Society of Natural History v. 3 (1848-1851); ref. [18843](#)] Provincetown, Massachusetts, U.S.A. Holotype (unique): MCZ 89505 (missing) [jaws may be MCZ 775-S]. Current status: Synonym of *Carcharodon carcharias* (Linnaeus 1758). Lamnidae. Habitat: brackish, marine.

Carcharias vorax Owen [R.] 1853:94 [Descriptive catalogue of the osteological series; ref. [4988](#)] No types known. Current status: Synonym of *Carcharodon carcharias* (Linnaeus 1758). Lamnidae. Habitat: marine.

Carcharodon albimors Whitley [G. P.] 1939:240 [Australian Zoologist v. 9 (pt 3); ref. [4695](#)] Port Jackson, Sydney harbor, New South Wales, Australia. Holotype (unique): AMS I.1723. Based on literature and one specimen cited as type. Current status: Synonym of *Carcharodon carcharias* (Linnaeus 1758). Lamnidae. Habitat: brackish, marine.

Genus *Isurus* Rafinesque [C. S.] 1810:11 [Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia; ref. [3594](#)] Masc. *Isurus oxyrinchus* Rafinesque 1810. Type by monotypy. **Current status:** Valid as *Isurus* Rafinesque 1810. Lamnidae.

Oxyrhina Agassiz [L.] 1838:86 [feuil. ad. 5] [Recherches sur les poissons fossiles; ref. [13390](#)] Fem. *Lamna oxyrhina* Cuvier & Valenciennes 1835 (= *Isurus oxyrinchus* Rafinesque 1810). Type by monotypy (also by tautonymy). See Fowler 1967:114 [ref. [9317](#)]. Although Agassiz stated, "Le type de ce genre est le Lamna de Spallanzani" [*Lamna spallanzanii* Rafinesque], he only included one species (*L. oxyrhina*) by scientific name. *Oxyrhina* not preoccupied. Spelled *Oxyrrhina* in early literature. Current status: Synonym of *Isurus* Rafinesque 1810. Lamnidae.

Plectrostoma Gistel [J.] 1848:10 [Naturgeschichte des Thierreichs; ref. [1822](#)] Fem. *Lamna oxyrhina* Cuvier & Valenciennes 1835. Type by being a replacement name. Replacement name for *Oxyrhina* Agassiz 1835 according to Compagno 2001:108 [ref. [26323](#)]; original not seen.

Spelled *Plectrosoma* by Bigelow & Schroeder 1948:123. Replacement Name. Current status: Synonym of *Isurus* Rafinesque 1810. Lamnidae.

Isuropsis Gill [T. N.] 1862:397, 398 [Annals of the Lyceum of Natural History of New York v. 7 (art. 32); ref. [1783](#)] Fem. *Oxyrhina glauca* Müller & Henle 1839. Type by original designation (also monotypic). Also in Gill 1862:409 [ref. [4910](#)]. Current status: Synonym of *Isurus* Rafinesque 1810. Lamnidae.

Lamiosstoma Glückman [L. S.] 1964:105 [Akuly paleogena i ikh stratigraficheskoe znachenie; ref. [1824](#)] Neut. *Lamiosstoma belyaevi* Glückman 1964. Type by original designation. The type is a Recent species; fossil species also included. Current status: Synonym of *Isurus* Rafinesque 1810. Lamnidae.

***Isurus oxyrinchus* Rafinesque 1810**

Isurus oxyrinchus Rafinesque [C. S.] 1810:12, Pl. 13 (fig. 1) [Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia; ref. [3594](#)] [Sicilia] Sicily, Italy, Mediterranean Sea. No types known. Also appeared in Rafinesque 1810:45 [ref. [3595](#)]. Sometimes seen as *Isurus oxyrhinchus* or *oxyrhynchus*. **Current status:** Valid as *Isurus oxyrinchus* Rafinesque 1810. Lamnidae. **Distribution:** Circumglobal in tropical through temperate seas (including Gulf of Mexico, Caribbean Sea, North Sea, Mediterranean Sea, Red Sea, Sea of Japan). Habitat: marine.

Isurus spallanzani Rafinesque [C. S.] 1810:45, 60 [Indice d'ittologia siciliana; ref. [3595](#)] [Sicilia] Sicily, Italy, Mediterranean Sea. No types known. Current status: Synonym of *Isurus oxyrinchus* Rafinesque 1810. Lamnidae. Habitat: marine.

Squalus (Lamna) cepedii Lesson [R. P.] 1831:93 [Voyage autour du monde Zool. v. 2 (pt 1); ref. [2776](#)] Atlantic, 6°S, 27°W. Holotype (unique): whereabouts unknown. Current status: Synonym of *Isurus oxyrinchus* Rafinesque 1810. Lamnidae. Habitat: marine.

Lamna oxyrhina Cuvier [G.] & Valenciennes [A.] in Agassiz 1835:71 [Recherches sur les poissons fossiles; ref. [13390](#)] Still researching, original not seen; perhaps not available. Current status: Synonym of *Isurus oxyrinchus* Rafinesque 1810. Lamnidae. Habitat: marine.

Oxyrhina gomphodon Müller [J.] & Henle [F. G. J.] 1839:68, [Pl. 28] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] No locality stated. Holotype (unique): ZMB 4528. Type catalog: Paepke & Schmidt 1988:163-164 [ref. [21041](#)]. Unneeded replacement name for *Lamna oxyrhina* (Cuvier & Valenciennes in Agassiz 1835); also based on ZMB specimen. Current status: Synonym of *Isurus oxyrinchus* Rafinesque 1810. Lamnidae. Habitat: marine.

Oxyrhina glauca Müller [J.] & Henle [F. G. J.] 1839:69, [Pl. 29] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Java, Indonesia [actual is Japan]. Lectotype: RMNH 2529. Paralectotypes: RMNH 2533 (1), 2587 (1) Type information: Boeseman 1947:230 [ref. [12876](#)]; see also Garrick 1967:672, 675 [18102]. Lectotype selected by Garrick 1967:672 [ref. [18102](#)]. Hybrid. Current status: Synonym of *Isurus oxyrinchus* Rafinesque 1810. Lamnidae. Habitat: marine.

Lamna latro Owen [R.] 1853:96 [Descriptive catalogue of the osteological series; ref. [4988](#)] No types known. Current status: Synonym of *Isurus oxyrinchus* Rafinesque 1810. Lamnidae. Habitat: marine.

Isuropsis dekayi Gill [T. N.] 1862:409 [Annals of the Lyceum of Natural History of New York v. 7 (art. 33); ref. [4974](#)] Based on *Lamna punctata* of DeKay 1842 (not of Storer). Current status: Synonym of *Isurus oxyrinchus* Rafinesque 1810. Lamnidae. Habitat: marine.

Carcharias tigris Atwood [N. E.] 1869:268 [Proceedings of the Boston Society of Natural History v. 12 (for 1868-1869); ref. [15924](#)] Gulf of Mexico; Provincetown, Massachusetts, U.S.A. No types known. Appeared first in Atwood 1865:81 [ref. [15925](#)] without distinguishing features. Current status: Synonym of *Isurus oxyrinchus* Rafinesque 1810. Lamnidae. Habitat: marine.

Lamna guentheri Murray [J. A.] 1884:349 [Annals and Magazine of Natural History (Series 5) v. 13 (no. 77); ref. [17804](#)] Karachi, Pakistan. Holotype (unique): whereabouts unknown. Originally

as *güntheri*. Current status: Synonym of *Isurus oxyrinchus* Rafinesque 1810. Lamnidae.
Habitat: marine.

Lamna huidobrii Philippi [R. A.] 1887:548 [16], Pl. 3 (fig. 1) [Anales de la Universidad de Chile Sec. 1, v. 71; ref. [3464](#)] Santiago Province, Chile. Holotype (unique): DBCUCH (possibly lost). On p. 16 of separate. Current status: Synonym of *Isurus oxyrinchus* Rafinesque 1810. Lamnidae. Habitat: marine.

Isurus mako Whitley [G. P.] 1929:101 [Records of the Australian Museum v. 17 (no. 3); ref. [4665](#)] Manukau Bar, off Auckland, New Zealand. No types known. A new name for a specimen of *Isurus* originally described and figured as *Isurus glaucus* by Phillipps 1926:530, Pl. 87 [ref. [6447](#)]. Current status: Synonym of *Isurus oxyrinchus* Rafinesque 1810. Lamnidae. Habitat: marine.

Isurus bideni Phillipps [W. J.] 1932:227, Fig. 2 [The New Zealand Journal of Science and Technology v. 13 (no. 4); ref. [16393](#)] South Africa. Holotype (unique): AMS IA.4311 (jaws & photographs, still searching). Current status: Synonym of *Isurus oxyrinchus* Rafinesque 1810. Lamnidae. Habitat: marine.

Isurus tigris africanus Smith [J. L. B.] 1957:96, Pl. 1 (fig. 1) [Ichthyological Bulletin, Department of Ichthyology, Rhodes University No. 6; ref. [12169](#)] Algoa Bay, Cape Province, South Africa. Holotype (unique): SAIAB [formerly RUSI] 426 (jaws). Current status: Synonym of *Isurus oxyrinchus* Rafinesque 1810. Lamnidae. Habitat: marine.

Isurus paucus Guitart Manday 1966

paucus, *Isurus* Guitart Manday [D. J.] 1966:3, Figs. 1, 2a, 3a,c [Poeyana, Series A, Instituto de Biologia No. 15; ref. [19761](#)] Cuba, western Atlantic. No types known. Based on *Lamna punctata* of DeKay 1842:362, Pl. 63 (fig. 206) and on 3 specimens. **Current status:** Valid as *Isurus paucus* Guitart Manday 1966. Lamnidae. **Distribution:** Nearly circumglobal in tropical and subtropical seas (including Gulf of Mexico, Caribbean Sea, Mediterranean Sea). Habitat: marine.

Lamiostoma belyaevi Glückman [L. S.] 1964:105 [Akuly paleogena i ikh stratigraficheskoe znachenie; ref. [1824](#)] Original not seen. Apparently a fossil species referred to an extant species. See discussion of types (teeth and not figured specimen) in Compagno 1984:246 [ref. [6474](#)]. Current status: Uncertain synonym of *Isurus paucus* Guitart Manday 1966. Lamnidae. Habitat: marine.

Isurus alatus Garrick [J. A. F.] 1967:677, Figs. 7-8; Pls. 1, 3-4 [Proceedings of the United States National Museum v. 118 (no. 3537); ref. [18102](#)] Japan. Holotype: USNM 197427. Paratypes: USNM 197429 (1), 197435 (1). Additional material: USNM 196024 (jaws and skin), 196039 (jaws). Type catalog: Howe & Springer 1993:3 [ref. [21812](#)]. Current status: Synonym of *Isurus paucus* Guitart Manday 1966. Lamnidae. Habitat: marine.

Genus ***Lamna*** (subgenus of *Squalus*) Cuvier [G.] 1816:126 [Le Règne Animal; ref. [993](#)] Fem. *Squalus cornubicus* Gmelin 1789. Type by subsequent designation. Type apparently designated first by Bonaparte 1839: 9 (of separate; also see p. 2 of separate) [ref. [4979](#)]; also designated by Gill 1862:398 [ref. [1783](#)]. **Current status:** Valid as *Lamna* Cuvier 1816. Lamnidae.

Lamia Risso [A.] 1827:123 [Histoire naturelle des principales productions de l'Europe méridionale v. 3; ref. [3757](#)] Fem. *Squalus cornubicus* Gmelin 1789. Type by monotypy. Objectively invalid; preoccupied by *Lamia* Edwards 1771 [not researched] and by *Lamia* Fabricus 1775 in Coleoptera; not replaced. 1°Homonym. Current status: Synonym of *Lamna* Cuvier 1816. Lamnidae.

Selanonius Fleming [J.] 1828:169 [A history of British animals; ref. [1339](#)] Masc. *Selanonius walkeri* Fleming 1828 (= *Squalus selanoneus* Walker in Leach 1818). Type by monotypy. *S. walkeri* Fleming is an unneeded substitute for *S. selanoneus* Walker. Current status: Synonym of *Lamna* Cuvier 1816. Lamnidae.

Exoles Gistel [J.] 1848:IX [Naturgeschichte des Thierreichs; ref. [1822](#)] Masc. *Squalus nasus* Bonnaterre 1788. Type by being a replacement name. Proposed as replacement for *Lamia*

Bonaparte, apparently not an original description, but in the synonymy of *Lamna* Cuvier. Gistel's name is unavailable if Bonaparte's *Lamia* is not regarded as an original description. Current status: Synonym of *Lamna* Cuvier 1816. Lamnidae.

Lamna ditropis Hubbs & Follett 1947

Lamna ditropis Hubbs [C. L.] & Follett [W. I.] 1947:194 [Copeia 1947 (no. 3); ref. [10858](#)] 3.5 miles off Beach Club, at La Jolla, California, U.S.A., depth 300-350 feet. Holotype: MCZ 36471 (partial specimen). Paratypes: USNM 27368 (1). Type catalog: Böhlke 1953:8 [ref. [12291](#)] with paratypes that are not types. Type catalog: Howe & Springer 1993:6 [ref. [21812](#)]. **Current status:** Valid as *Lamna ditropis* Hubbs & Follett 1947. Lamnidae. **Distribution:** North Pacific: Taiwan north to Bering Sea, then south to Pacific coast of Baja California (Mexico). Habitat: brackish, marine.

Lamna nasus (Bonnaterre 1788)

Squalus nasus Bonnaterre [J. P.] (ex Pennant) 1788:10, Pl. 85 (fig. 350) [Tableau encyclopédique et méthodique des trois règnes de la nature... Ichthyologie; ref. [4940](#)] Cornwall, England, northeastern Atlantic. No types known. Based on the 'Porbeagle' of Pennant 1769:92 [ref. [18527](#)]. **Current status:** Valid as *Lamna nasus* (Bonnaterre 1788). Lamnidae. **Distribution:** Nearly circumglobal in temperate seas (including Mediterranean Sea, Baltic Sea, North Sea). Habitat: marine.

Squalus cornubicus Gmelin [J. F.] 1789:1497 [Caroli a Linné ... Systema Naturae per regna tria naturae v. 1 (pt 3); ref. [18139](#)] Cornwall, England, Northeastern Atlantic. No types known. Spelled *cornubiensis* in Pennant 1812:186 [ref. [18529](#)]. Spelled *Lamna cornutica* in Morris 1898:412 [ref. [30215](#)]. Current status: Synonym of *Lamna nasus* (Bonnaterre 1788). Lamnidae. Habitat: marine.

Squalus pennanti Walbaum [J. J.] 1792:517 [Petri Artedi sueci genera piscium Part 3; ref. [4572](#)] Atlantic. No types known. Current status: Synonym of *Lamna nasus* (Bonnaterre 1788). Lamnidae. Habitat: marine.

Squalus cambricus Turton [W.] 1800:920 [A general system of nature v. 1; ref. [17934](#)] British coasts. No types known. Species description forwarded by J. Pollerspöck Oct. 2012. Current status: Synonym of *Lamna nasus* (Bonnaterre 1788). Lamnidae. Habitat: marine.

Squalus monensis Shaw [G.] 1804:350 [General zoology or systematic natural history; ref. [4015](#)] Beaumaris, Anglesea Island, England. No types known. Based on literature sources. Current status: Synonym of *Lamna nasus* (Bonnaterre 1788). Lamnidae. Habitat: marine.

Squalus selanonus Leach [W. E.] (ex Walker) 1818:64, Pl. 2 (fig. 2) [Memoirs of the Wernerian Natural History Society, Edinburgh v. 2 (art. 5); ref. [12565](#)] Lochfyne and Zetland, Scotland. Syntypes: College of Edinburgh (1, dry) Lochfyne, (1, jaws) Zetland. Current status: Synonym of *Lamna nasus* (Bonnaterre 1788). Lamnidae. Habitat: marine.

Selanonius walkeri Fleming [J.] (ex Walker) 1828:169 [A history of British animals; ref. [1339](#)] Argyleshire, Britain. Based on *Squalus selanoneus* of Walker 1769:155 (manuscript). Current status: Synonym of *Lamna nasus* (Bonnaterre 1788). Lamnidae. Habitat: marine.

Oxyrhina daekayi Gill [T. N.] 1861:60 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 13 (Suppl.); ref. [1766](#)] Based on *Lamna punctata* (non Mitchill) of Storer 1846:252 [ref. [18840](#)]. Current status: Synonym of *Lamna nasus* (Bonnaterre 1788). Lamnidae. Habitat: marine.

Lamna philippii Pérez Canto [C.] 1886:1 [Anales de la Universidad de Chile Sec. 1, v. 69; ref. [18531](#)] Chile. ?MHN (possibly lost). See also Philippi 1887:549 [17 of separate], Pl. 3 (fig. 2) [ref. [3464](#)]. Current status: Synonym of *Lamna nasus* (Bonnaterre 1788). Lamnidae. Habitat: marine.

Lamna whitleyi Phillipps [W. J.] 1935:239, Fig. 3 [The New Zealand Journal of Science and Technology v. 16 (no. 4); ref. [15671](#)] Island Bay, Wellington, New Zealand. Syntypes: whereabouts unknown. Current status: Synonym of *Lamna nasus* (Bonnaterre 1788). Lamnidae. Habitat: marine.

Checklist of Fishes relevant for CITES, prepared 27 March 2024
Extracted from Eschmeyer, Fricke, & van der Laan (eds). CATALOG OF FISHES: GENERA, SPECIES, REFERENCES.

- Class **Elasmobranchii**
 - Order **Myliobatiformes**
 - Family **Mobulidae** Gill 1893 (mantas or devil rays) (1 genus, 9 species, plus questionable old unassigned names).

[Family **Mobulidae** split out from Family Myliobatidae]

Genus **Mobula** Rafinesque [C. S.] 1810:48, 61 [Indice d'ittologia siciliana; ref. [3595](#)] Fem. *Mobula auriculata* Rafinesque 1810 (= *Raia mobular* Bonnaterre 1788). Type by monotypy. Rafinesque's *auriculata* given as a substitute for *Raja mobula* of Lacepède (= *R. mobular* Bonnaterre). **Current status:** Valid as *Mobula* Rafinesque 1810. Mobulidae.

Aodon Lacepède [B. G. E.] 1798:297 [Histoire naturelle des poissons (Lacepède) v. 1; ref. [2708](#)] Masc. *Squalus massasa* Forsskål 1775. Type by subsequent designation. Type designated by Jordan & Evermann 1896:91 [ref. [2443](#)]. *Anodon* Agassiz 1846:24, 27 [ref. [64](#)] is an unjustified emendation. Current status: Uncertain synonym of *Mobula* Rafinesque 1810. Mobulidae.

Apterurus Rafinesque [C. S.] 1810:48, 62 [Indice d'ittologia siciliana; ref. [3595](#)] Masc. *Apterurus fabroni* Rafinesque 1810 (= *Raia fabroniana* Lacepède 1800). Type by monotypy. Also seen as *Apturus*. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Cephalopterus Risso [A.] (ex Duméril) 1810:14 [Ichthyologie de Nice; ref. [3755](#)] Masc. *Raja giorna* Lacepède 1803. Type by subsequent designation. Type apparently first designated by Bancroft 1829:452 [ref. [5051](#)]. Objectively invalid; preoccupied by *Cephalopterus* Geoffroy St. Hilaire 1809 in Aves; replaced by *Pterocephalus* Swainson 1838. On Official Index (Direction 44). 1°Homonym. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Cephaloptera Cuvier [G.] (ex Duméril) 1816:138 [Le Règne Animal; ref. [993](#)] Fem. *Raja cephaloptera* Bloch & Schneider 1801. Type by absolute tautonymy. Genus name misspelled *Chepaloptera* by Cuvier 1831:295 [ref. [30378](#)]. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Dicerobatus (subgenus of *Raia*) Blainville [H. de] 1816:112 [= 120] [Bulletin des Sciences, par la Société Philomathique de Paris v. 8; ref. [306](#)] Masc. *Raia mobular* Bonnaterre 1788. Type by subsequent designation. The species *fimbriata* Lacepède was designated type by Bancroft 1829:452 [ref. [5051](#)]. Type *mobular* listed as type by Jordan 1917:95 [ref. [2407](#)] -- apparently designated first by Jordan & Evermann 1898:92 [ref. [2443](#)]. Spelled *Dicerobatis* by Blainville 1825: 40 [ref. [4991](#)], Agassiz 1845:22 [ref. [4889](#)] and 1846:122 [ref. [64](#)]. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Dicerobatis Blainville [H. de] 1825:40 [Faune Française; ou histoire naturelle Livr. 13 & 14; ref. [4991](#)] Fem. *Raia mobular* Bonnaterre 1788. Type by being a replacement name. Regarded as an unjustified emendation of, or new spelling for, *Dicerobatus* Blainville, and not a replacement for it (contrary to current literature). Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Manta Bancroft [E. N.] 1829:454 [Zoological Journal, London v. 4 (no. 16) (art. 55); ref. [5051](#)] Fem. *Cephalopterus manta* Bancroft 1829. Type by monotypy (also by absolute tautonymy). *Manta americana* given on p. 454 if *Cephalopterus manta* proved not to be a *Cephalopterus*. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Anodon Billberg [G. J.] 1833:51 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] Masc. *Anodon cornutus* Billberg 1833. Type by subsequent designation. Type species designated by Kullander 2016:108 [ref. [34147](#)]. Unnecessary replacement name for *Aodon* Lacepède 1898. Replacement Name. Current status: Uncertain synonym of *Mobula* Rafinesque 1810. Mobulidae.

Cephaloptera Billberg [G. J.] 1833:51 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] Fem. Primary homonym of *Cephaloptera* Cuvier 1816, permanently invalid. °Homonym. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Ceratoptera Müller [J.] & Henle [F. G. J.] 1837:118 [Bericht über die zur Bekanntmachung geeigneten Verhandlungen der Königlich Preussischen Akademie der Wissenschaften zu

Berlin 1837; ref. [3067](#)] Fem. *Cephaloptera giorna* Lesueur 1824. Type by subsequent monotypy. Genus dates to 1837:118 as above with no included species ("...und *Ceratoptera* N., deren Typus die von Lesueur beschriebene *Cephalopter* ist;..") Also in Müller & Henle 1838:91 [ref. [3066](#)], "*Cephaloptera*, Nob. the type of which is the *Cephaloptera* described by Lesueur" [renamed *lesueurii* by Swainson 1839] Müller & Henle 1839:186 [ref. [3069](#)]. First addition of species evidently by Bonaparte 1838:6 (of separate) [ref. [4979](#)]. Misspelled *Deratoptera* by Krefft 1868:3 [ref. [5074](#)] and by Whitley 1936:176 [ref. [6075](#)]. *Ceratoptera* Day 1878 is not an original description. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Pterocephalus Swainson [W.] 1838:170, 174 [The natural history and classification of fishes, amphibians, & reptiles, or monocardian animals. v. 1; ref. [4302](#)] Fem. *Raja giorna* Lacepède 1803. Type by being a replacement name. Dates to Swainson 1838:170, 174, with *P. massena* Swainson mentioned (= *Cephalopterus massena* Risso 1810) but technically a replacement name for *Cephalopterus* (see footnote p. 174). Spelled *Pterocephala* by Swainson 1839 [ref. [4303](#)]. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Brachioptilon Hamilton [F.] in Newman 1849:2358 [The Zoologist: a Popular Miscellany of Natural History v. 7 (for 1849); ref. [3169](#)] Masc. *Brachioptilon hamiltoni* Hamilton & Newman 1849. Type by monotypy. Description entirely quoted from C. B. Hamilton; name selected by Newman. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Diabolicthys Holmes [F. S.] 1856:45 [Proceedings of the Elliott Society of Natural History v. 1; ref. [2194](#)] Masc. *Diabolicthys elliotti* Holmes 1856. Type by monotypy. Spelled *Diabolicthys* by authors. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Ceratobatis Boulenger [G. A.] 1897:227 [Annals and Magazine of Natural History (Series 6) v. 20 (no. 116); ref. [540](#)] Fem. *Ceratobatis robertsii* Boulenger 1897. Type by monotypy. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Daemomanta Whitley [G. P.] 1932:327 [Records of the Australian Museum v. 18 (no. 6); ref. [4674](#)] Fem. *Ceratoptera alfredi* Krefft 1868. Type by original designation (also monotypic). Date for type species still under investigation, see Whitley 1932:328 [ref. [4674](#)]. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Indomanta Whitley [G. P.] 1936:11 [Australian Museum Magazine v. 6 (no. 1); ref. [4688](#)] Fem. *Indomanta tombazii* Whitley 1936. Type by monotypy. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Mobula alfredi (Krefft 1868)

Ceratoptera alfredi Krefft [J. L. G.] 1868:3, 9, Fig. [The Illustrated Sydney News v. 5 (11 July 1868); ref. [5074](#)] Watson's Bay, at entrance to Sydney Harbour, New South Wales, Australia. Holotype (unique): AMS I.1731(stuffed and painted over). Original description reproduced in Whitley 1936:176 [ref. [6075](#)] and with correction of type locality. Spelling of the original genus was *Deratoptera*, regarded as a typesetting error. It should have been *Ceratoptera*, Authorship has been attributed to Krefft (by Whitley 1936:176 and unquestioned), the then curator of the Museum; no author is given with the article. **Current status:** Valid as *Mobula alfredi* (Krefft 1868). Mobulidae. **Distribution:** Eastern Atlantic; Western Sahara south to Senegal; Red Sea; Indo-West Pacific: Eastern Cape and KwaZulu-Natal (South Africa), East Africa, Socotra (Yemen) and Madagascar east to Hawaiian Islands (U.S.A.)and Tuamotu Archipelago (French Polynesia), north to Ryukyu Islands (Japan), south to northern Australia. Habitat: marine.

Manta fowleri Whitley [G. P.] 1936:182 [Australian Zoologist v. 8 (pt 3); ref. [6075](#)] Tabuaeran [= Fanning Island], Line Islands, central Pacific. Holotype (unique): whereabouts unknown. Based on illustrations and a description of *Manta birostris* by Fowler 1927:3, Pl. 1 (figs. D-G) [ref. [15785](#)]. Current status: Synonym of *Mobula alfredi* (Krefft 1868). Mobulidae. Habitat: marine.

Manta pakoka Whitley [G. P.] 1936:183 [Australian Zoologist v. 8 (pt 3); ref. [6075](#)] Near Hat Island (Teuaua), Ua Huka, Marquesas Islands. No types known. Based on a *Manta* with the Polynesian vernacular name *Pakoka* by Pinchot, "To the South Seas" 1930:406, 408, 421, fig. Current status: Synonym of *Mobula alfredi* (Krefft 1868). Mobulidae. Habitat: marine.

Mobula birostris (Walbaum 1792)

Raja birostris Walbaum [J. J.] 1792:535 [Petri Artedi sueci genera piscium Part 3; ref. [4572](#)] No locality stated. No types known. Some authors (e.g., Whitley 1936:180 [ref. [6075](#)]) date to Donndorff 1798:876 because they regarded Walbaum's treatment as non-binominal, but the style of this section suggests that the second word "birostris" was not italicized through an oversight (see index) and binominal nomenclature was intended. Earlier authors, such as Jordan & Evermann 1896:92 [ref. [2443](#)] credited the name to Walbaum. See remarks under *Cephalopterus giorna* Lesueur 1824. **Current status:** Valid as *Mobula birostris* (Walbaum 1792). Mobulidae. **Distribution:** Circumglobal in tropical through warm temperate water (including Gulf of Mexico, Caribbean Sea, Red Sea, Persian Gulf, Gulf of California/Mexico); possibly straying to Mediterranean Sea. IUCN (2019): Endangered. Habitat: marine.

Raja manatia Bloch [M. E.] & Schneider [J. G.] (ex Lacepède) 1801:364 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] Tropical America. No types known. Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Habitat: marine.

Raja diabolus marinus Bloch [M. E.] & Schneider [J. G.] 1801:368 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] India. No types known. Not the same as *Raja diabolus* Shaw 1904. Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Habitat: marine.

Raja fimbriata Lacepède [B. G. E.] 1802:671, 677, Pl. 16 (fig. 3) [Histoire naturelle des poissons (Lacepède) v. 4; ref. [4929](#)] North Atlantic. No types known. Type catalog: Séret & McEachran 1987:34 [ref. [9312](#)]. Also appeared in Sonnini 1802:76, 299 [ref. [30461](#)] with author as Lacepède. Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Habitat: marine.

Cephalopterus giorna Lesueur [C. A.] 1824:115 [Journal of the Academy of Natural Sciences, Philadelphia v. 4 (pt 1); ref. [17520](#)] Off entrance of Delaware River, Pennsylvania, U.S.A.; Charleston, South Carolina, U.S.A.; Savannah, Georgia, U.S.A. No types known. Not *Raja giorna* Lacepède 1803. Based on a specimen collected off Delaware River mouth, on the "Devil-fish, *Diabolus marinus*" of Catesby 1771:xxxii [ref. [774](#)], and on a specimen from Savannah, Georgia described in the Philadelphia Gazette of 6 Aug. 1824. Marshall et al. 2009:13 [ref. [30599](#)] tentatively recognize a valid species distinct from (but occurring with) *birostris*; it occurs in the Atlantic. A neotype selection would be needed to fix the name of this species as *giorna* Lesueur 1824 if the species is shown to be distinct from *birostris*. Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Distribution: Atlantic, including the Gulf of Mexico and Caribbean (if valid). Habitat: marine.

Cephalopterus vampyrus Mitchill [S. L.] 1824:23, Pl. 2 (fig. 1) [Annals of the Lyceum of Natural History of New York v. 1; ref. [17777](#)] Near entrance to Delaware Bay, U.S.A. No types known. Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Habitat: marine.

Cephalopterus manta Bancroft [E. N.] 1829:453 [Zoological Journal, London v. 4 (no. 16) (art. 55); ref. [5051](#)] Kingston, Jamaica. No types known. Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Habitat: marine.

Manta americana Bancroft [E. N.] 1829:454 [Zoological Journal, London v. 4 (no. 16) (art. 55); ref. [5051](#)] American Seas. Apparently an alternate name for *Cephalopterus manta* Bancroft 1829 proposed in the same paper (p. 453). Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Habitat: marine.

Cephaloptera lacepedei Billberg [G. J.] 1833:51 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] No locality stated. No types known. Genus erroneously abbreviated as "M."; should be C. = *Cephaloptera*. Based on the "La raie manatia" of Lacepède 1798:160 [ref. [2708](#)]; see Kullander 2016:112 [ref. [34147](#)]. Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Habitat: marine.

Ceratoptera ehrenbergii Müller [J.] & Henle [F. G. J.] 1841:187 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Red Sea. Syntypes: ZMB 4708 (1), 22621 [ex Anat.-zool. Mus. 8731] (1) Type catalog: Paepke & Schmidt 1988:180 [ref. [21041](#)]. Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Distribution: Red Sea endemic [if valid]. Habitat: marine.

Ceratoptera johnii Müller [J.] & Henle [F. G. J.] 1841:186, [Pl. 59 (right)] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Jamaica. Holotype (unique): RUSM uncat. (whereabouts unknown). Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Habitat: marine.

Brachioptilon hamiltoni Hamilton [F.] & Newman [E.] in Newman 1849:2358 [The Zoologist: a Popular Miscellany of Natural History v. 7 (for 1849); ref. [3169](#)] Gulf of California, Mexico. No types known. Description based on account by Hamilton, Newman provided name; therefore we treat authorship as Hamilton & Newman. Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Habitat: marine.

Diabolicichthys elliotti Holmes [F. S.] 1856:45 (39?) [Proceedings of the Elliott Society of Natural History v. 1; ref. [2194](#)] Charleston, South Carolina, U.S.A. No types known. Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Habitat: marine.

Manta raya Baer [G. A.] 1899:112 [Bulletin du Muséum National d'Histoire Naturelle (Série 1) v. 5 (no. 3); ref. [15635](#)] Zorritos, about 40 kilometers south of Tombez, 4 kilometers from Grau, Peru. No types known. Current status: Uncertain synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Habitat: marine.

Ceratoptera orissa Lloyd [R. E.] 1908:176, Fig. 1, Pl. 5 (figs. 1-3) [Records of the Indian Museum (Calcutta) v. 2 (pt 2); ref. [14327](#)] Puri, Bay of Bengal, Orissa coast, India. Holotype: ZSI F72968/1. Type catalog: Menon & Yazdani 1968:97 [ref. [20743](#)]. Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Habitat: marine.

Manta pinchoti Whitley [G. P.] 1936:182 [Australian Zoologist v. 8 (pt 3); ref. [6075](#)] Near Hat Island, Ua Huka, Marquesas Islands. Holotype: USNM 89721 (parts). Paratypes: USNM 89722 (parts), 143796 (pieces), 143797 (1). Based on descriptions of *Manta birostris* by Fowler 1932:2 [ref. [1412](#)]. Current status: Synonym of *Mobula birostris* (Walbaum 1792). Mobulidae. Habitat: marine.

***Mobula eregoodoo* (Cantor 1849)**

Dicerobatis eregoodoo Cantor [T. E.] 1849:1420 [438] [Journal of the Asiatic Society of Bengal v. 18 (pt 2); ref. [715](#)] Penang, Malaysia; Coromandel, India. Neotype: CAS 56095. On p. 438 of separate. Based on *Raja* No. IX of Russell 1803:5, Pl. 9, *Eregoodoo-tenkee* [ref. [13862](#)], in footnote in genus *Cephaloptère* as "*Eregoodoo-tenkee*" of Cuvier 1829:402 [ref. [995](#)], and on 1 specimen. A neotype was designated for *Cephaloptera eregoodootenkee* Bleeker 1859 by Notarbartolo-di-Sciara 1987:30 [ref. [9133](#)] for Cuvier 1829, which was considered as an unneeded subsequent new name for *Dicerobatis eregoodoo* Cantor 1849 by Notarbartolo-di-Sciara et al. 2019 [ref. [37090](#)]. **Current status:** Valid as *Mobula eregoodoo* (Cantor 1849). Mobulidae. **Distribution:** Red Sea; Indo-West Pacific: northern KwaZulu-Natal (South Africa) and East Africa east to Papua New Guinea, north to Philippines, south to New South Wales (Australia). Habitat: marine.

***Mobula hypostoma* (Bancroft 1831)**

Cephalopterus hypostomus Bancroft [E. N.] 1831:134 [Proceedings of the Committee of Science and Correspondence of the Zoological Society of London 1830-31 (pt 1); ref. [15966](#)] Kingston, Jamaica. Holotype (unique): not preserved. Also appeared in Bancroft 1835:411 [ref. [15971](#)], Suppl. Pl. 50. McEachran & Carvalho 2003:588 [ref. [26985](#)] indicated that e. Atlantic specimens are *M. rochebrunei*. **Current status:** Valid as *Mobula hypostoma* (Bancroft 1831). Mobulidae. **Distribution:** Western Atlantic: North Carolina (U.S.A.) south to Argentina, including Gulf of Mexico and Caribbean Sea; eastern Atlantic: Mauritania south to Angola. IUCN (2018): Endangered, Habitat: marine.

Cephaloptera oifersii Müller [J.] 1836:311 [Abhandlungen der Königlichen Akademie der Wissenschaften zu Berlin 1834; ref. [3060](#)] Brazil. Syntypes: MNHN 0000-9966 (1, dry); ? ZMB 31636 [ex ZMB 8923] (1), ? ZMB 31637 (1). Type catalog: Séret & McEachran 1987:26 [ref. [9312](#)], Paepke & Schmidt 1988:179 [ref. [21041](#)]. Current status: Synonym of *Mobula hypostoma* (Bancroft 1831). Mobulidae. Habitat: marine.

Cephaloptera massenoidea Hill [R.] 1862:176 [The Intellectual observer. London v. 2; ref. [21782](#)] Jamaica. No types known. Current status: Synonym of *Mobula hypostoma* (Bancroft 1831). Mobulidae. Habitat: marine.

Cephaloptera rochebrunei Vaillant [L. L.] 1879:187 [Bulletin de la Société philomathique de Paris (7th Série) v. 3; ref. [17850](#)] Senegal, western Africa. Holotype (unique): MNHN A-9967 (dry). Type catalog: Bertin 1939:92 [ref. [20739](#)], Séret & McEachran 1987:26 [ref. [9312](#)]. Current status: Synonym of *Mobula hypostoma* (Bancroft 1831). Mobulidae. Habitat: marine.

Ceratobatis robertsii Boulenger [G. A.] 1897:227 [Annals and Magazine of Natural History (Series 6) v. 20 (no. 116); ref. [540](#)] Jamaica. Holotype (unique): BMNH 1897.7.1.40. Current status: Synonym of *Mobula hypostoma* (Bancroft 1831). Mobulidae. Habitat: marine.

Mobula kuhlii (Valenciennes 1841)

Cephaloptera kuhlii Valenciennes [A.] in Müller & Henle 1841:185, [Pl. 59 (left)] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] India. Lectotype: MNHN 0000-1596. Possible paralectotypes: BMNH 2008.12.1.1 [ex ZSL] (1, stuffed and mounted). Type catalog: Bertin 1939:92 [ref. [20739](#)], Séret & McEachran 1987:26 [ref. [9312](#)]. Lectotype listed in Séret & McEachran 1987:26 [ref. [9312](#)] on verbal information from Notarbartolo-di-Sciara; it is uncertain if this established the lectotype -- see Compagno et al. 2005:81 [ref. [29145](#)]. Subsequent workers perhaps established the lectotype. Authorship changed to Valenciennes 1841 -- Jones et al. 2015:570 [ref. [34086](#)]. **Current status:** Valid as *Mobula kuhlii* (Valenciennes 1841). Mobulidae. **Distribution:** Red Sea; Indo-West Pacific: KwaZulu-Natal (South Africa), East Africa, Socotra (Yemen), Persian Gulf and Madagascar east to Philippines, New Ireland (Papua New Guinea) and Solomon Islands, south to northern Australia. Habitat: marine.

Cephaloptera eregoodootenkee Bleeker [P.] 1859:214 [Acta Societatis Regiae Scientiarum Indo-Neêrlandicae v. 6 (art. 3); ref. [371](#)] Gulf of Thailand off Cambodia, about 1 mile east of Goh Choaw, 11°03'-11°05'N, 103°03'30"-103°05'E. Neotype: CAS 56095. Treated as unneeded new name for *Dicerobatis eregoodoo* Cantor 1849 -- see Notarbartolo-di-Sciara 2019 [ref. [37090](#)]. Based on *Raja* No. IX of Russell 1803:5, Pl. 9, Eregoodoo-tenkee [ref. [13862](#)]. Appeared first in a footnote in Cuvier 1829:402 [ref. [995](#)] in genus Cephaloptère, as "Eregoodoo-tenkee, Russ. l, 9" but based on style elsewhere in work, this treatment is in the vernacular and probably not available. A neotype was designated by Notarbartolo-di-Sciara 1987:30 [ref. [9133](#)] for Cuvier 1829, and the species treated as valid by him; but that neotype designation probably does not apply for Bleeker 1859. Species may date to Bleeker 1859:214 [ref. [371](#)] as above with reference to Cuvier and to Russell -- also see Compagno 1999:498 who treats Garman 1913 as establishing the valid binomial. Replacement Name. Current status: Synonym of *Mobula kuhlii* (Valenciennes 1841). Mobulidae. Habitat: marine.

Dicerobatis draco Günther [A.] 1872:422 [Annals and Magazine of Natural History (Series 4) v. 10 (no. 60) (art., 60); ref. [18195](#)] Misool [Misol] Island, Irian Jaya, Indonesia. Syntypes: BMNH 1870.8.31.68-69 (2). Current status: Synonym of *Mobula kuhlii* (Valenciennes 1841). Mobulidae. Habitat: marine.

Mobula mobular (Bonnaterre 1788)

Raia mobular Bonnaterre [J. P.] 1788:5 [Tableau encyclopédique et méthodique des trois règnes de la nature... Ichthyologie; ref. [4940](#)] Montredon, near Marseille, France, western Mediterranean Sea. No types known. Type catalog: Séret & McEachran 1987:34 [ref. [9312](#)]. Based on earlier description by du Monceau. Original genus should have been spelled *Raja*. Misspelled *mobularis* by Cabrera y Corro, Pérez & Hänseler 1817:12 [ref. [17319](#)], see Graells 1887:186 [ref. [30438](#)]. **Current status:** Valid as *Mobula mobular* (Bonnaterre 1788). Mobulidae. **Distribution:** Circumglobal in tropical and warm temperate seas (including Gulf of Mexico, Mediterranean Sea, Sea of Japan, Gulf of California/Mexico). IUCN (2018): Endangered. Habitat: marine.

Squalus edentulus Brünnich [M. T.] 1768:6 [Ichthyologia Massiliensis, sistens piscium descriptiones eorumque apud incolas nomina; ref. [17290](#)] Marseille, France, western Mediterranean Sea. No types known. Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

- Aodon cornu* Lacepède [B. G. E.] 1798:297, 300 [Histoire naturelle des poissons (Lacepède) v. 1; ref. [2708](#)] Unneeded new name for *Squalus edentulus* Brunnich 1768. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.
- Raia fabroniana* Lacepède [B. G. E.] 1800:104, 111, Pl. 5 (figs. 1-2) [Histoire naturelle des poissons (Lacepède) v. 2; ref. [2709](#)] Livourne, Mediterranean Sea. Holotype (unique): MZUF (not found in 1995). Also appeared in Sonnini 1802:73, 285 [ref. [30461](#)]. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.
- Raja cephaloptera* Bloch [M. E.] & Schneider [J. G.] 1801:365 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] No locality. Holotype (unique): ZMB 13407 (partial specimen, forepart of skull). Type catalog: Paepke & Schmidt 1988:180 [ref. [21041](#)], Paepke 1999:104 [ref. [24282](#)]. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.
- Raja giorna* Lacepède [B. G. E.] 1803:662, 666, Pl. 20 (fig. 3) [Histoire naturelle des poissons (Lacepède) v. 5; ref. [4930](#)] Bay of Nice, France, northwestern Mediterranean Sea. No types known. Type catalog: Séret & McEachran 1987:34 [ref. [9312](#)]. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.
- Raja diabolus* Shaw [G.] 1804:291 [General zoology or systematic natural history; ref. [4015](#)] Mediterranean Sea, Atlantic and Indian Oceans. No types known. Based on literature sources. The name *diabolus* should not decline. Notarbartolo-di-Sciara (1987) restricted the type locality as the Mediterranean. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.
- Mobula auriculata* Rafinesque [C. S.] 1810:48, 61 [Indice d'ittologia siciliana; ref. [3595](#)] Based on *Raja mobula* of Lacepède. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.
- Apterurus fabroni* Rafinesque [C. S.] 1810:48 [Indice d'ittologia siciliana; ref. [3595](#)] Unjustified emendation of *Raja fabroniana* Lacepède 1800. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.
- Cephalopterus massena* Risso [A.] 1810:15 [Ichthyologie de Nice; ref. [3755](#)] Nice, France, northwestern Mediterranean Sea. No types known. Type catalog: Séret & McEachran 1987:34 [ref. [9312](#)]. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.
- Cephaloptera dumerillii* Billberg [G. J.] 1833:51 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] Montredon, near Marseille, France, western Mediterranean Sea. No types known. Based on the "Molubar" [sic, should have been Mobular] of Lacepède 1798:151 [ref. [2708](#)]; see Kullander 2016:112 [ref. [34147](#)]. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.
- Cephaloptera rissoi* Billberg [G. J.] 1833:51 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] Nice, France, northwestern Mediterranean Sea. No types known. Genus erroneously abbreviated as "M."; should have been *Cephaloptera*. Based on the *Cephalopterus massena* of Risso 1810:15 [ref. [3755](#)]; see Kullander 2016:112 [ref. [34147](#)]. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.
- Anodon cornutus* Billberg [G. J.] 1833:52 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] Marseille, France, western Mediterranean Sea. No types known. Unnecessary replacement name for *Squalus edentulus* Brunnich 1768; see Kullander 2016:113 [ref. [34147](#)]. Replacement Name. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.
- Cephaloptera japonica* Müller [J.] & Henle [F. G. J.] 1841:185 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Japan [Nagasaki, Japan]. Lectotype: RMNH D2440 (dry, young). Paralectotypes: RMNH (1, lost). Type information: Boeseman 1947:228 [ref. [12876](#)] as *japonica*. Lectotype selected by Boeseman 1947:228 [ref. [12876](#)]. The original spelling was *japonica* and that spelling should be maintained. •Considered valid as *Mobula japonica* (Müller & Henle 1841) by Eschmeyer & Herald 1983:58 [ref. [9277](#)], Nakaya in Masuda et al. 1984:16 [ref. [6441](#)], Notarbartolo-di-Sciara 1987:53 [ref. [9133](#)], Paulin et al. 1989:30 [ref. [24556](#)] as *japonica*, Nishida 1990:92 [ref. [19783](#)], Last & Stevens 1994:461 [ref. [23873](#)], Heemstra in

Smith & Heemstra 1995:vi [ref. [21953](#)], McEachran & Notarbartolo-di-Sciara in Fischer et al. 1995:761 [ref. [22829](#)], Castro-Aguirre & Espinosa Pérez 1996:60 [ref. [22793](#)], Chen et al. 1997:11 [ref. [26476](#)], Grove & Lavenberg 1997:131 [ref. [24023](#)], Morón et al. 1999:150 [ref. [24253](#)], Compagno & Last 1999:1528 [ref. [24637](#)], Compagno 1999:498 [ref. [25589](#)], Nakabo 2000:186 [ref. [25086](#)], Choi et al. 2003:73, 486 [ref. [26218](#)], Gadig & Gomes in Menezes et al. 2003:31 [ref. [27192](#)], Gadig et al. 2003:869 [ref. [27134](#)], Manilo & Bogorodsky 2003:S94 [ref. [27377](#)], Duffy & Abbott 2003:715 [ref. [27479](#)], Bonfil & Abdallah 2004:56 [ref. [27735](#)], Nelson et al. 2004:57 [ref. [27807](#)], Love et al. 2005:15 [ref. [37547](#)], Mundy 2005:107 [ref. [28379](#)], Vaske et al. 2005:77 [ref. [36155](#)], Allen et al. 2006:208 [ref. [29002](#)], Randall 2007:48 [ref. [30952](#)], McCosker & Rosenblatt 2010:188 [ref. [30957](#)], Last et al. 2010:260 [ref. [32461](#)], Page et al. 2013:57 [ref. [32708](#)], Ebert et al. 2013:369 [ref. [33045](#)] as *japonica*, Psomadakis et al. 2015:108 [ref. [34104](#)], Duffy 2015:203 [ref. [34217](#)], Pinheiro et al. 2015:4 [ref. [34324](#)], Dylidin 2015:76 [ref. [34524](#)], Del Moral-Flores et al. 2016:137 [ref. [34398](#)], Weigmann 2016:146 [ref. [34211](#)], Notarbartolo-di-Sciara et al. 2016:4 [ref. [37502](#)], Notarbartolo-di-Sciara & Séret 2016:1437 [ref. [34552](#)], Fourrière et al. 2016:453 [ref. [34668](#)], Del Moral-Flores et al. 2016:606 [ref. [34923](#)], Nión et al. 2016:24 [ref. [35565](#)], Kells et al. 2016:86 [ref. [35888](#)], Ebert et al. 2017:61 [ref. [35618](#)] as *japonica*, Sonoyama et al. 2020:15 [ref. [37637](#)] as *japonica*, Habib & Islam 2020:Supplementary table p. 4 [ref. [38321](#)], Haroon & Kibria 2021:130 [ref. [39241](#)]. •Considered a synonym of *Mobula mobular* (Bonnaterre 1788) -- (Last & Yearsley 2016:8 [ref. [34940](#)], White & Last 2016:746 [ref. [35016](#)], White et al. 2018:63 [ref. [37171](#)], Jones et al. 2020:304 [ref. [37610](#)], Marshall 2022:632 [ref. [39677](#)]). Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

Dicerobatis monstrum Klunzinger [C. B.] 1871:687 [Verhandlungen der K.-K. zoologisch-botanischen Gesellschaft in Wien v. 21; ref. [2622](#)] Al-Qusair, Red Sea Governorate, Egypt, Red Sea. Holotype (unique): SMNS 1632 (lost). Type catalog: Fricke 1992:13 [ref. [20296](#)]. Fricke 2005:48 [ref. [29864](#)]. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

Cephalopterus edentula Griffini [A.] (ex Brünn) 1903:132, Fig. 73 [Ittiologia italiana. Descrizione dei pesci di mare e d'acqua dolce; ref. [18159](#)] Italian seas. No types known. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

Mobula rancureli Cadenat [J.] 1959:1331, Figs. 1-10 [Bulletin de l'Institut Français d'Afrique Noire (Sér A) Sciences Naturelles v. 21 (no. 4); ref. [11984](#)] Ivory Coast, western Africa. Holotype (unique): MNHN 1965-0146 (in 5 pieces). Type catalog: Séret & McEachran 1987:27 [ref. [9312](#)]. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

Mobula munkiana Notarbartolo-di-Sciara 1987

Mobula munkiana Notarbartolo-di-Sciara [G.] 1987:9, Figs. 3-7, 8A [Zoological Journal of the Linnean Society v. 91 (no. 1); ref. [9133](#)] Bahia de la Ventana, Baja California Sur, Mexico, 24°04'N, 109°53'W, near surface over depth of 15 meters. Holotype: SIO 84-29. Paratypes: SIO 53-178-6A (1), 84-29 (2), 85-34 (1), 85-35 (2). **Current status:** Valid as *Mobula munkiana* Notarbartolo-di-Sciara 1987. Mobulidae. **Distribution:** Eastern Pacific: Pacific coast of Baja California Sur (Mexico) south to Peru, including Gulf of California and Galapagos Islands (Ecuador). Habitat: marine.

Mobula tarapacana (Philippi 1892)

Cephaloptera tarapacana Philippi [R. A.] 1892:8, Pl. 3 (fig. 2) [Anales del Museo Nacional de Chile. Primera seccion, Zoología No. 3; ref. [22759](#)] 12 miles west of Iquique, Tarapacá Province, Chile [southeastern Pacific]. Holotype (unique): whereabouts unknown. Appeared as *Cephaloptera? tarapacana*. On p. 9 of German edition (Philippi 1893 [ref. [14560](#)]). **Current status:** Valid as *Mobula tarapacana* (Philippi 1892). Mobulidae. **Distribution:** Probably circumglobal in tropical seas (including Gulf of Mexico, Caribbean Sea, Red Sea, Sea of Japan, Gulf of California/Mexico). Habitat: marine.

Mobula coilloti Cadenat [J.] & Rancurel [P.] 1960:283, Figs. 1-9 [Bulletin de l'Institut Français d'Afrique Noire (Sér A) Sciences Naturelles v. 22 (no. 1); ref. [11901](#)] About 10 miles south of Iridi, Ivory Coast, western Africa. Holotype (unique): MNHN 1965-0144 (in 5 pieces). Type catalog: Séret & McEachran 1987:26 [ref. [9312](#)]. •Valid as *Mobula coilloti* Cadenat & Rancurel 1960 -- (Notarbartolo-di-Sciara 1987:68 [ref. [9133](#)], McEachran & Séret 1990:74 [ref. [19318](#)]). Current status: Synonym of *Mobula tarapacana* (Philippi 1892). Mobulidae. Distribution: Eastern Atlantic [if valid]. Habitat: marine.

Mobula formosana Teng [H.-T.] 1962:259, Fig. 74 [Classification and distribution of the Chondrichthyes of Taiwan; ref. [12623](#)] Keelung, northern Taiwan. Holotype (unique): TFR 2911. Type catalog: Ho & Shao 2011:21 [ref. [31432](#)]. Current status: Synonym of *Mobula tarapacana* (Philippi 1892). Mobulidae. Habitat: marine.

Mobula thurstoni (Lloyd 1908)

Dicerobatis thurstoni Lloyd [R. E.] 1908:179, Fig. 3, Pl. 4 (fig. 2) [Records of the Indian Museum (Calcutta) v. 2 (pt 2); ref. [14327](#)] India. Syntypes: Madras Museum (whereabouts unknown). **Current status:** Valid as *Mobula thurstoni* (Lloyd 1908). Mobulidae. **Distribution:** Circumglobal in warm seas (including Red Sea, South China Sea, East China Sea, Gulf of California/Mexico). Habitat: marine.

Mobula lucasana Beebe [W.] & Tee-Van [J.] 1938:299, Pls. 1-3 [Zoologica, Scientific Contributions of the New York Zoological Society v. 23 (pt 3, no. 15); ref. [249](#)] San Lucas Bay, Baja California, Mexico. Holotype (unique): AMNH 15675-76 [ex NYZS 24793] (in two pieces). Type catalog: Mead 1958:133 [ref. [20648](#)]. Current status: Synonym of *Mobula thurstoni* (Lloyd 1908). Mobulidae. Habitat: marine.

Genus *Mobula* – indeterminate names (presently not valid for CITES purposes):

Raia aurita Suckow [G. A.] 1799:78 [Naturgeschichte der Thiere v. 4, pt. 1; ref. [18858](#)] Nomen Oblitum. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

Raja banksiana Lacepède [B. G. E.] 1800:105, 115, Pl. 5 (fig. 3) [Histoire naturelle des poissons (Lacepède) v. 2; ref. [2709](#)] East Indies. No types known. Also appeared in Sonnini 1802:74, 290 [ref. [30461](#)]. Nomen Dubium. Mobulidae. Habitat: marine.

Raja barbata Bloch [M. E.] & Schneider [J. G.] 1801:369 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] Rivière de Saint-André [Sassandra River] estuary, at Sassandra, Ivory Coast, West Africa. Based on "Raye appellé Diable" of Labat 1730:198 [ref. [35528](#)], and on "Seeteufel" of Schneider 1788:85 [ref. [18699](#)]. Nomen Dubium. Mobulidae. Habitat: marine.

Cerictius caniscus Rafinesque [C. S.] 1810:45, 60 [Indice d'ittologia siciliana; ref. [3595](#)] Sicily, Italy, Mediterranean Sea. No types known. See remarks by Parenti 2019:109 [ref. [37117](#)]. Mobulidae.

Raia cornuta Lesueur [C. A.] 1824:120 [Journal of the Academy of Natural Sciences, Philadelphia v. 4 (pt 1); ref. [17520](#)] Near the entrance of the Delaware River, U.S.A. No types known. Mobulidae. Habitat: marine.

Cephaloptera diabolus Valenciennes [A.] 1841:no page number, Pl. 119 [Le règne animal distribué d'après son organisation; ref. [17868](#)] North America. No types known. Appeared in Atlas; date for this page and plate not established, 1837-43. Mobulidae. Habitat: marine.

Ceratoptera lesueurii Swainson [W.] 1839:320, Fig. 100 [The natural history and classification v. 2; ref. [4303](#)] Based on Les. Am. Tr. i. p. 115. f. 6 -- which is Lesueur, probably in Trans. Amer. Philos. Soc. Nomen Dubium. Mobulidae. Habitat: marine.

Raja monstrosa Walbaum [J. J.] 1792:535 [Petri Arredi sueci genera piscium Part 3; ref. [4572](#)] No locality stated. Nomen Dubium. Mobulidae. Habitat: marine.

Raia vespertilio Schneider [J. G.] (ex Gentil) 1788:83 [Leipziger Magazin zur Naturkunde und Oekonomie / herausgegeben von einer Gesellschaft von Gelehrten 1788; ref. [18699](#)] Indian

Ocean. No types known. Genus should have been *Raja*. Based on Gentil, 'Reisen, v. 1, p. 617'. Family may be incorrect. Mobulidae species indeterminate. Habitat: marine.

Raja vespertilio Walbaum [J. J.] 1792:535 [Petri Artedi sueci genera piscium Part 3; ref. [4572](#)]
Azores, northeastern Atlantic. On Raie cornue Duhamel 1769 sect. 9 p. 293 pl. 17 figs. 1-2,
Azores. Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat:
marine.

- Class **Elasmobranchii**
 - Order **Myliobatiformes**
 - Family **Potamotrygonidae** Garman 1877 (neotropical stingrays)
 - Subfamily **Potamotrygoninae** Garman 1877 (river stingrays)
 - Subfamily **Styracurinae** Carvalho, Loboda & da Silva 2016 (whiptail stingrays)

Genus ***Elipesurus*** Schomburgk [R. H.] 1843:184 [The natural history of fishes of Guiana.--Part II; ref. [3948](#)] Masc. *Elipesurus spinicauda* Jardine & Schomburgk 1843. Type by monotypy. Original is *Elipesurus*; *Ellipesurus* is a misspelling or unjustified emendation. **Current status:** Valid as *Elipesurus* Schomburgk 1843. Potamotrygonidae: Potamotrygoninae.

Elipesurus spinicauda Jardine & Schomburgk 1843

Elipesurus spinicauda Jardine [W.] & Schomburgk [R. H.] in Schomburgk 1843:184, Pl. 23 [The natural history of fishes of Guiana.--Part II; ref. [3948](#)] Fort San Joaquim, Branco River, Guiana. No types known. Type catalog: Paepke & Schmidt 1988:180-181 [ref. [21041](#)]. **Current status:** Uncertain status, tentatively accepted as *Elipesurus spinicauda* Jardine & Schomburgk 1843. Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Genus ***Heliotrygon*** Carvalho [M. R. de] & Lovejoy [N. R.] 2011:17 [Zootaxa No. 2776; ref. [31182](#)] Fem. *Heliotrygon gomesi* Carvalho & Lovejoy 2011. Type by original designation. **Current status:** Valid as *Heliotrygon* Carvalho & Lovejoy 2011. Potamotrygonidae: Potamotrygoninae.

Heliotrygon gomesi Carvalho & Lovejoy 2011

Heliotrygon gomesi Carvalho [M. R. de] & Lovejoy [N. R.] 2011:19, Figs. 1-9, 19-23 [Zootaxa No. 2776; ref. [31182](#)] Rio Javari, 4°18'15"S, 70°04'19"W, Benjamin Constant, Amazonas, Brazil. Holotype: MZUSP 104988. Paratypes: AMNH 251884 (1), ANSP 178014 (1), 17815 (1), 17816 (1), 17817 (1); MZUSP 108203 (1). Plus additional non-type material. Type catalog: Lima et al. 2023:327 [ref. [40221](#)]. **Current status:** Valid as *Heliotrygon gomesi* Carvalho & Lovejoy 2011. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: upper Amazon River and probably lower reaches of most major tributaries (Brazil, Colombia and Peru). Habitat: freshwater.

Heliotrygon rosai Carvalho & Lovejoy 2011

Heliotrygon rosai Carvalho [M. R. de] & Lovejoy [N. R.] 2011:29, Figs. 11-16, 18, 24-25 [Zootaxa No. 2776; ref. [31182](#)] Baía de Marajó, 0°55'34"S, 48°17'25"W, Colaras, Pará, Brazil. Holotype: MZUSP 104996. Paratypes: AMNH 251885 (1); MZUSP 108200 (1), 108201(1), 108202 (1). Plus additional non-type material. Type catalog: Lima et al. 2023:327 [ref. [40221](#)]. **Current status:** Valid as *Heliotrygon rosai* Carvalho & Lovejoy 2011. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: upper and lower Amazon River basin, and probably lower reaches of major tributaries (Brazil and Peru). Habitat: freshwater.

Genus ***Paratrygon*** Duméril [A. H. A.] 1865:594 [Histoire naturelle des poissons ou ichthyologie générale v. 1; ref. [1150](#)] Fem. *Trygon aiereba* Müller & Henle 1841. Type by monotypy. Preoccupied by *Anacanthus* Ehrenberg 1833, but *Paratrygon* Duméril 1865 in prevailing usage. **Current status:** Valid as *Paratrygon* Duméril 1865. Potamotrygonidae: Potamotrygoninae.

Anacanthus Ehrenberg [C. G.] in van der Hoeven 1832:179 [Handboek der Dierkunde; ref. [5061](#)] Masc. *Raja orbicularis* Bloch & Schneider 1801. Type by monotypy. Type species inferred from 'Les Anacanthus' of Ehrenberg in Cuvier 1829:400 [ref. [995](#)] which appeared with vernacular

name only. Not; preoccupied by *Anacanthus* Gray 1830. Unneeded replacement by *Rhachinotus* Cantor 1849. **1°Homonym. Current status:** Synonym of *Paratrygon* Duméril 1865.

Potamotrygonidae: Potamotrygoninae.

Disceus Garman [S.] 1877:208 [Proceedings of the Boston Society of Natural History v. 19; ref. [1528](#)] Masc. *Trygon stroglyopterus* Jardine 1843. Type by monotypy. Based on a misidentified type species according to Castex 1964:33 [ref. [20924](#)] and Fowler 1970:571 [ref. [7313](#)], Garman's specimens are *Disceus thayeri* Garman 1913. **Current status:** Synonym of *Paratrygon* Duméril 1865. Potamotrygonidae: Potamotrygoninae.

Paratrygon aiereba (Walbaum 1792)

Raja ajereba Walbaum [J. J.] (ex Markgraf von Liebstadt) 1792:535 [Petri Artedi sueci genera piscium Part 3; ref. [4572](#)] Municipality of Colares, Marajó Bay, State of Pará, Brazil, 00°55'34"S, 48°17'25"W [Brazil]. No types preserved. Based on the 'Aiereba' of Markgraf von Liebstadt 1648:175, fig. [ref. [30347](#)]. See also *Trygon aiereba* Müller & Henle 1841. Castex 1964:16 [ref. [20924](#)] considered it the same. The spelling *ajereba* is correct, but prevailing usage favors continuing the spelling as *aiereba*. **Current status:** Valid as *Paratrygon aiereba* (Walbaum 1792). Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Amazon River basin, Bolivia, Ecuador, Peru, Colombia and Brazil. IUCN (2018): Data Deficient. Habitat: freshwater.

Raia sloani Stephan [C. F.] 1779:20 [De rajis, schediasma primum; ref. [18818](#)] Lectotype selected by Kottelat 2010:66 [ref. [30995](#)] as the figure of "aiereba brasiliensibus" of Marcgrave (1648:175). Kottelat also designated the specimen shown in the same figure to be the lectotype for *ajereba*. Then *ajereba* is declared a nomen protectum under Article 23.9.1 and *sloani* as a nomen oblitum. See Kottelat for details. Nomen Oblitum. Current status: Synonym of *Paratrygon aiereba* (Walbaum 1792). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Raja orbicularis Bloch [M. E.] & Schneider [J. G.] (ex Markgraf von Liebstadt) 1801:361 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] South America. No types known. Unneeded replacement name for *Raja ajereba* Walbaum 1792; based on the same source, the 'Aiereba' of Markgraf von Liebstadt 1648:175, fig. [ref. [30347](#)]. Current status: Synonym of *Paratrygon aiereba* (Walbaum 1792). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Trygon aiereba Müller [J.] & Henle [F. G. J.] (ex Markgraf von Liebstadt) 1841:160, 196 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Brazil. Neotype: MZUSP 117155. Type catalog: Lima et al. 2023:324 [ref. [40221](#)]. Appeared as doubtful species, "(Dubia) Trygon Aiereba." Unneeded replacement name for *Raja ajereba* Walbaum 1792; based on the same source, the 'Aiereba' of Markgraf von Liebstadt 1648:175, fig. [ref. [30347](#)], *Raja orbicularis* Bloch & Schneider 1801, other literature sources, and one specimen. It is suggested that prevailing usage favors retaining spelling as *aiereba*. See *ajereba*. Original syntype at ZSM lost. Neotype designated by Loboda et al. 2021:74 [ref. [38382](#)] does not change the status as unnecessary replacement name. Misspelling. Current status: Synonym of *Paratrygon aiereba* (Walbaum 1792). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Trygon stroglyopterus Jardine [W.] in Schomburgk 1843:183, Pl. 22 [The natural history of fishes of Guiana.--Part II; ref. [3948](#)] Rio Branco, South America. No types known. Spelled *stronglyopterus* in Garman 1877 [ref. [1528](#)] and other early works. Loboda et al. 2021:74 [ref. [38382](#)] have ZMB 4632 as type. Current status: Uncertain synonym of *Paratrygon aiereba* (Walbaum 1792). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Disceus thayeri Garman [S.] 1913:426, Pls. 34, 54 (2), 57 (2), 70 (3-4) [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Obidos, Manaus [Manaus], and Pará, Brazil. Syntypes: MCZ 297-S (1) Manaus, 563-S (1) Rio Pará, 606-S (1) Obidos. Type catalog: Hartel & Dingerkus 1997:xliv [ref. [23119](#)]. Current status: Synonym of *Paratrygon aiereba* (Walbaum 1792). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Paratrygon orinocensis Loboda, Lasso, Rosa & Carvalho 2021

Paratrygon orinocensis Loboda [T. S.], Lasso [C. A.], Rosa [R. S.] & Carvalho [M. R. de] 2021:6,

Figs. 1-3, 4A-C, 5-17 [Neotropical Ichthyology v. 19 (no. 2); ref. [38382](#)] Locality of Piedra casa Bojonawi, Puerto Carreño, río Orinoco, Vichada, Colombia, 06°06'07.5"N, 67°29'11.9"W. Holotype: IAVHP 11939. Paratypes: IAVHP; MZUSP 117220 (1); USNM. Plus additional non-type material. Type catalog: Lima et al. 2023:325 [ref. [40221](#)]. **Current status:** Valid as *Paratrygon orinocensis* Loboda, Lasso, Rosa & Carvalho 2021. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Orinoco River basin (Colombia and Venezuela). Habitat: freshwater.

Paratrygon parvaspina Loboda, Lasso, Rosa & Carvalho 2021

Paratrygon parvaspina Loboda [T. S.], Lasso [C. A.], Rosa [R. S.] & Carvalho [M. R. de] 2021:25, Figs. 4D-F, 19-31 [Neotropical Ichthyology v. 19 (no. 2); ref. [38382](#)] Municipality of Puerto Carreño, río Bitá, Vichada, Colombia, 06°06'07.2"N, 67°29'11.9"W. Holotype: IAVHP 12447. Paratypes: IAVHP; MZUSP 117836 (1). Plus additional non-type material. Type catalog: Lima et al. 2023:325 [ref. [40221](#)]. **Current status:** Valid as *Paratrygon parvaspina* Loboda, Lasso, Rosa & Carvalho 2021. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: middle Orinoco River basin (Colombia and Venezuela). Habitat: freshwater.

Genus *Plesiotrygon* Rosa [R. S.], Castello [H. P.] & Thorson [T. B.] 1987:449 [Copeia 1987 (no. 2); ref. [5974](#)] Fem. *Plesiotrygon iwamae* Rosa, Castello & Thorson 1987. Type by original designation (also monotypic). **Current status:** Valid as *Plesiotrygon* Rosa, Castello & Thorson 1987. Potamotrygonidae: Potamotrygoninae.

Pastenagus Roulin [F. D.] 1829:465 [Bulletin des Sciences Naturelles et de Géologie (Férussac), Paris v. 16 (no. 3) (art. 365); ref. [26350](#)] Masc. *Pastenagus humboldtii* Roulin 1829. Type by monotypy. Nomen Oblitum. Current status: Synonym of *Potamotrygon* Garman 1877. Potamotrygonidae: Potamotrygoninae.

Plesiotrygon iwamae Rosa, Castello & Thorson 1987

Plesiotrygon iwamae Rosa [R. S.], Castello [H. P.] & Thorson [T. B.] 1987:450, Figs. 1-10 [Copeia 1987 (no. 2); ref. [5974](#)] Rio Solimões, above Tefé, 3°22'S, 64°43'W, Amazonas, Brazil. Holotype: MZUSP 10153. Paratypes: FMNH 94500 (1); MNRJ 573 (1); MZUSP 14789 (1); USNM 258298 (1); ZMH 10343 (1). Type catalog: Wilkens & Dohse 1993:410 [ref. [21161](#)], Thiel et al. 2009:26 [ref. [30918](#)], Lima et al. 2023:325 [ref. [40221](#)]. **Current status:** Valid as *Plesiotrygon iwamae* Rosa, Castello & Thorson 1987. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: upper and lower Amazon River basin (Brazil, Colombia and Ecuador). Habitat: freshwater.

Plesiotrygon nana Carvalho & Ragno 2011

Plesiotrygon nana Carvalho [M. R. de] & Ragno [M. P.] 2011:105, Figs. 1-15 [Papéis Avulsos de Zoologia, Museu de Zoologia da Universidade de São Paulo v. 51 (no. 7); ref. [31309](#)] Río Pachitea, tributary of Río Ucayali, up-river from town of Puerto Inca, Puerto Inca Province, Huánuco Department, Peru. Holotype: MUSM 20328. Paratypes: MUSM 40243 (1); MZUSP 108777 (1). Plus one non-type specimen. Type catalog: Lima et al. 2023:327 [ref. [40221](#)]. **Current status:** Valid as *Plesiotrygon nana* Carvalho & Ragno 2011. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Amazonas basin (Peru, Colombia and Brazil). Habitat: freshwater.

Genus *Potamotrygon* Garman [S.] 1877:210 [Proceedings of the Boston Society of Natural History v. 19; ref. [1528](#)] Fem. *Pastinaca humboldtii* Roulin in Lesson 1829. Type by subsequent designation. Type given as *hystrix* as designated by Jordan 1919:389 [ref. [4904](#)] by Séret & McEachran 1987:6 [ref. [9312](#)]; Garman treated *hystrix* as a synonym of *humboldtii*. Eigenmann 1910 says type is *humboldtii* Roulin. **Current status:** Valid as *Potamotrygon* Garman 1877. Potamotrygonidae: Potamotrygoninae.

Potamotrygon adamastor Fontenelle & Carvalho 2017

Potamotrygon adamastor Fontenelle [J. P.] & Carvalho [M. R. de] 2017:22, Figs. 15-23, 42C [Zootaxa 4310 (no. 1); ref. [35537](#)] Rio Urariquera, rio Branco basin, municipal district of Boa Vista, upper Amazon Basin, state of Roraima, Brazil, 3°22'51.9594"N, 60°35'44.1594"W. Holotype: MZUSP 104662. Paratype: MZUSP 10464 (1). Plus non-type material. Type catalog: Lima et al. 2023:310 [ref. [40221](#)]. **Current status:** Valid as *Potamotrygon adamastor* Fontenelle & Carvalho 2017. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Rio Urariquera, Rio Branco system, upper Amazon basin (Brazil). Habitat: freshwater.

Potamotrygon albimaculata Carvalho 2016

Potamotrygon albimaculata Carvalho [M. R. de] 2016:6, Figs. 1-20 [Zootaxa 4167 (no. 1); ref. [34730](#)] Left bank of rio Teles Pires near Pousada Santa Rosa, rio Tapajós basin, Mato Grosso state, Brazil, 08°46'45"S, 57°27'55"W. Holotype: MZUSP 105016. Paratypes: MZUSP 103922 (1), 105001 (1), 105006 (1), 105010 (1). Plus non-type material. Type catalog: Lima et al. 2023:311 [ref. [40221](#)]. **Current status:** Valid as *Potamotrygon albimaculata* Carvalho 2016. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Rio Tapajós basin (Mato Grosso, Brazil). Habitat: freshwater.

Potamotrygon amandae Loboda & Carvalho 2013

Potamotrygon amandae Loboda [T. S.] & Carvalho [M. R. de] 2013:723, Figs. 38-52 [Neotropical Ichthyology v. 11 (no. 4); ref. [33024](#)] Paraguai River, subdistrict of Albuguerque, district of Corumbá, State of Mato Grosso de Sul, 19°41'S, 57°38'W, Brazil. Holotype: MZUSP 110910. Paratypes: (12) MZUSP 110904 (1), 110906 (1), 110907 (1), 110909 (1), 110913 (1), 111916 (1), 111917 (1), 111919 (1), 111920 (1), 111921 (1), 111923 (1), 111925 (1). Plus non-type specimens. Type catalog: Lima et al. 2023:313 [ref. [40221](#)]. **Current status:** Valid as *Potamotrygon amandae* Loboda & Carvalho 2013. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Paraná-Paraguay basin and Tietê River (Bolivia, Brazil, Paraguay and Argentina). Habitat: freshwater.

Potamotrygon amazona Fontenelle & Carvalho 2017

Potamotrygon amazona Fontenelle [J. P.] & Carvalho [M. R. de] 2017:33, Figs. 24-32, 42E [Zootaxa 4310 (no. 1); ref. [35537](#)] Rio Jutai, municipal district of Boca do Titica, upper rio Amazonas Basin, state of Amazonas, Brazil, 2°55'24.8"S, 66°57'07.6"W. Holotype: MZUSP 117344. Paratypes: MZUSP 117346 (1), 117348 (1). Plus non-type material. Type catalog: Lima et al. 2023:314 [ref. [40221](#)]. **Current status:** Valid as *Potamotrygon amazona* Fontenelle & Carvalho 2017. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Rio Jutai drainage, upper Amazon basin (Amazonas, Brazil). Habitat: freshwater.

Potamotrygon boesemani Rosa, Carvalho & Almeida Wanderley 2008

Potamotrygon boesemani Rosa [R. S.], Carvalho [M. R. de] & Almeida Wanderley [C. de] 2008:2, Figs. 1-6, 8 [Neotropical Ichthyology v. 6 (no. 1); ref. [29564](#)] Matapi Creek, ca. 1 kilometer from Corantii River, Nickerie District, Suriname, 5°00'N, 57°16'W. Holotype: USNM 225574. Paratypes: USNM 225216 (1), 225575 (1), 388849 (1). Plus non-type specimens. **Current status:** Valid as *Potamotrygon boesemani* Rosa, Carvalho & Almeida Wanderley 2008. Potamotrygonidae: Potamotrygoninae. **Distribution:** Corantijn River drainage, Suriname. Habitat: freshwater.

Potamotrygon brachyura (Günther 1880)

Trygon brachyurus Günther [A.] 1880:8 [Annals and Magazine of Natural History (Series 5) v. 6 (no. 31) (art. 2); ref. [14279](#)] Buenos Aires, Argentina. Holotype (unique): BMNH 1953.8.10.14 [ex BMNH 1879.2.12.4]. **Current status:** Valid as *Potamotrygon brachyura* (Günther 1880). Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Paraná-Paraguay and Uruguay River basins (Argentina, Brazil, Paraguay and Uruguay). Habitat: freshwater.

Potamotrygon brumi Devincenzi [G. J.] in Devincenzi & Teague 1942:99, Pl. 6 [Anales del Museo Nacional de Historia Natural de Montevideo (Serie 2) v. 5 (no. 4); ref. [12268](#)] Isla Queguay Grande, River Uruguay, Uruguay. Holotype (unique): MHNM (not found). Type catalog: Olazarri et al. 1970:2 [ref. [23527](#)], Loureiro et al. 2016:413 [ref. [35150](#)]. Current status: Synonym of *Potamotrygon brachyura* (Günther 1880). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Potamotrygon constellata (Vaillant 1880)

Taeniura constellata Vaillant [L. L.] 1880:251, 252 [Bulletin de la Société philomathique de Paris (7th Série) v. 4; ref. [17854](#)] Calderon, Upper Amazon, Brazil. Holotype (unique): MNHN A-1010. Type catalog: Bertin 1939:87 [ref. [20739](#)], Séret & McEachran 1987:20 [ref. [9312](#)]. **Current status:** Valid as *Potamotrygon constellata* (Vaillant 1880). Potamotrygonidae: Potamotrygoninae. **Distribution:** Amazon and Solimões River basins: Brazil, Colombia and Ecuador. Habitat: freshwater.

Potamotrygon circularis Garman [S.] 1913:419, Pls. 31 (1-2), 54 (1), 70 (1-2) [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Río Solimões, Tefé and Lago Coari [on Río Solimões], Brazil. Syntypes: MCZ 291-S (1) Tefé, 295-S (1) Coari. Non-type: MCZ 296-S (1). Type catalog: Hartel & Dingerkus 1997:xliii-xliv [ref. [23119](#)]. Castex 1964:28 [ref. [20924](#)] said there was a holotype and a paratype at MCZ. Current status: Synonym of *Potamotrygon constellata* (Vaillant 1880). Potamotrygonidae: Potamotrygoninae. Distribution: South America. Habitat: freshwater.

Potamotrygon falkneri Castex & Maciel 1963

Potamotrygon falkneri Castex [M. N.] & Maciel [I.] 1963:56 [Anales del Museo Provincial de Ciencias Naturales "Florentino Ameghino," Sante Fe, Zoología v. 2 (no. 1); ref. [8015](#)] Río Paraná medio, Entre Ríos, Argentina. Holotype: MFA 235. Paratypes: MFA 279 (1). Type information from Castex 1964:32 [ref. [20924](#)] who said female holotype and male allotype, but original description said both were females. **Current status:** Valid as *Potamotrygon falkneri* Castex & Maciel 1963. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Paraná-Paraguay River basin (Argentina, Brazil, Bolivia, Ecuador, Paraguay and Peru). Habitat: freshwater.

Potamotrygon castexi Castello [H. P.] & Yagolkowski [D. R.] 1969:2, Pl.; Figs. 1-3, 7 [Acta Scientifica del Departamento de Zoología, Instituto Latinoamericano de Fisiología y Reproducción, Universidad del Salvador No. 6; ref. [7804](#)] Río Paraná, Rosario, Argentina. Holotype: MACN 5777 (apparently lost). Paratypes: ILAFIR 100 (1), MFA 288 (1). Current status: Synonym of *Potamotrygon falkneri* Castex & Maciel 1963. Potamotrygonidae: Potamotrygoninae. Distribution: Upper Amazon River and Paraná-Paraguay River basins: Argentina, Bolivia, Brazil, Paraguay and Peru [if valid]. Habitat: freshwater.

Potamotrygon menchacai Martínez Achenbach [G.] 1967:1, Pls. 1-3 (pp. 6-8) [Comunicações del Museo Provincial de Ciencias Naturales "Florentino Ameghino," Zoología No. 1; ref. [26257](#)] Río Colastiné, Paraná Média, Santa Fe Province, Argentina. Holotype: MFA 289. See Carvalho 2001:1168 [ref. [26256](#)]. Current status: Synonym of *Potamotrygon falkneri* Castex & Maciel 1963. Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Potamotrygon garmani Fontenelle & Carvalho 2017

Potamotrygon garmani Fontenelle [J. P.] & Carvalho [M. R. de] 2017:43, Figs. 33-41, 42F [Zootaxa 4310 (no. 1); ref. [35537](#)] Rio Paraná, municipal district of Paranã, affluent of rio Tocantins, rio Tocantins basin, state of Tocantins, Brazil, 12°30'S, 48°12'W. Holotype: UNT 2174. Paratypes: UNT. Plus non-type material. **Current status:** Valid as *Potamotrygon garmani* Fontenelle & Carvalho 2017. Potamotrygonidae: Potamotrygoninae. **Distribution:** Middle and upper Rio Tocantins basin, Brazil. Habitat: freshwater.

Potamotrygon henlei (Castelnau 1855)

Trygon (Taenura) henlei Castelnau [F. L.] 1855:102, Pl. 48 (fig. 3) [Animaux nouveaux or rares v. 2; ref. [766](#)] Rio Tocantins, Brazil. Holotype (unique): MNHN 0000-2353 (poor condition). Type catalog: Bertin 1939:89 [ref. [20739](#)], Séret & McEachran 1987:21 [ref. [9312](#)]. Name listed as *Taenura henlei* on figure caption. **Current status:** Valid as *Potamotrygon henlei* (Castelnau 1855). Potamotrygonidae: Potamotrygoninae. **Distribution:** Tocantins River basin, Brazil. Habitat: freshwater.

Potamotrygon hystrix (Müller & Henle 1839)

Trygon hystrix Müller [J.] & Henle [F. G. J.] in Valenciennes 1839:Pl. 15 [Voyage dans l'Amérique méridionale; ref. [20720](#)] Buenos Aires, Argentina. Lectotype: MNHN A.2249. Paralectotypes: (5) MNHN A-2433 (1), ?A-2434 (2), A-8706 (lost); RMNH 4258 (1). Bertin 1939:88-89 [ref. [20739](#)], Seret & McEachran 1987:21 [ref. [9312](#)]. Later described in more detail by Müller & Henle 1841:167 [ref. [3069](#)]. Also in Valenciennes 1847:11 [ref. [5010](#)] as *Trygon hystrix* with wrong plate number. Pl. 15 was published in 1839. Lectotype selected by Castex 1969:8 [ref. [9548](#)]. **Current status:** Valid as *Potamotrygon hystrix* (Müller & Henle 1839). Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Paraná-Paraguay basin (Argentina, Brazil, Bolivia, Paraguay and Uruguay). Habitat: freshwater.

Trygon hystrix Müller [J.] & Henle [F. G. J.] 1841:167 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Buenos Aires, Argentina. Lectotype: MNHN A-2449. Paralectotypes: (5) MNHN A-2433 (1), ?A-2434 (2), A-8706 (lost); RMNH 4258 (1). Type catalog: Bertin 1939:88-89 [ref. [20739](#)], Séret & McEachran 1987:21 [ref. [9312](#)]. Species dates to an earlier published Plate as *hystrix*. Lectotype selected by Castex 1969:8 [ref. [9548](#)]. See Carvalho 2001:1168 [ref. [26256](#)]. Current status: Synonym of *Potamotrygon hystrix* (Müller & Henle 1839). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Potamotrygon humboldtii (Roulin 1829)

Pastenagus humboldtii Roulin [F. D.] 1829:465 [Bulletin des Sciences Naturelles et de Géologie (Férussac), Paris v. 16 (no. 3) (art. 365); ref. [26350](#)] Rio Meta, Ecuador. Syntypes (2) one in MNHN? Treated as Roulin in Lesson 1829 by Kottelat 2013. Previously appeared as 'Pastenague de Humboldt' in Annales des Sciences Naturelles, v. 16:625. Also appeared as a German translation in Isis (Oken), 1834:1042 as *Pastenaca Humboldtii*. Nomen Dubium. Current status: Uncertain status, as *Potamotrygon humboldtii* (Roulin 1829). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Potamotrygon humerosa Garman 1913

Potamotrygon humerosus Garman [S.] 1913:419 [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Rio Parietuba at Monte Alegre, Pará, Brazil. Holotype (unique): MCZ 299-S. Type catalog: Hartel & Dingerkus 1997:xliv [ref. [23119](#)]. Castex 1964:27 [ref. [20924](#)] said there was a holotype and a paratype at MCZ. **Current status:** Valid as *Potamotrygon humerosa* Garman 1913. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Amazon River basin (Brazil) and possibly Orinoco basin. Habitat: freshwater.

Potamotrygon jabuti Carvalho 2016

Potamotrygon jabuti Carvalho [M. R. de] 2016:28, Figs. 22-45 [Zootaxa 4167 (no. 1); ref. [34730](#)] Rio Jamanxim near Novo Progresso, rio Tapajós basin, Pará state, Brazil, 07°09'30"S, 55°25'55"W. Holotype: MZUSP 105023. Paratypes: MZUSP 25578 (1), 103920 (1), 103921 (1), 105002 (1), 105011 (1), 105013 (1), 105038 (1), 105040 (1). Plus non-type material. Type catalog: Lima et al. 2023:315 [ref. [40221](#)]. **Current status:** Valid as *Potamotrygon jabuti* Carvalho 2016. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Rio Tapajós basin (Pará, Brazil). Habitat: freshwater.

Potamotrygon leopoldi Castex & Castello 1970

Potamotrygon leopoldi Castex [M. N.] & Castello [H. P.] 1970:2, Fig. 5; Pls. [Acta Scientifica del Departamento de Zoología, Instituto Latinoamericano de Fisiología y Reproducción, Universidad del Salvador No. 10; ref. [7722](#)] Little creek on the right shore of Upper Rio Xingu, Mato Grosso state, Brazil. Holotype (unique): IRSNB 475. Type catalog: Walschaerts 1987:6 [ref. [20755](#)].

Current status: Valid as *Potamotrygon leopoldi* Castex & Castello 1970. Potamotrygonidae: Potamotrygoninae. **Distribution:** Xingu River basin, Brazil. Habitat: freshwater.

Potamotrygon limai Fontenelle, da Silva & Carvalho 2014

Potamotrygon limai Fontenelle [J. P.], da Silva [J. P. C. B.] & Carvalho [M. R. de] 2014:250, Figs. 1-17 [Zootaxa 3765 (no. 3); ref. [33180](#)] Madeira River basin, Jamari River, Represa Samuel, municipal district of Itapoã do Oeste, upper Amazon basin, State of Rondônia, Brazil, 9°4'33.96"S, 63°18'17.64"W. Holotype: MZUSP 103031. Paratypes: MZUSP 104039 (1), 104040 (1), 104041 (1). Plus non-type material. Type catalog: Lima et al. 2023:316 [ref. [40221](#)] with MZUSP 104031 as holotype. **Current status:** Valid as *Potamotrygon limai* Fontenelle, da Silva & Carvalho 2014. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Madeira River basin (Rondônia, Brazil). Habitat: freshwater.

Potamotrygon magdalenae (Duméril 1865)

Taeniura magdalenae Duméril [A. H. A.] (ex Valenciennes) 1865:625 [Histoire naturelle des poissons ou ichthyologie générale v. 1; ref. [1150](#)] Río Magdalena, Colombia. Holotype (unique): MNHN A-2368. Type catalog: Séret & McEachran 1987:21 [ref. [9312](#)]. We treat authorship as Duméril (ex Valenciennes), not Valenciennes in Duméril. **Current status:** Valid as *Potamotrygon magdalenae* (Duméril 1865). Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Magdalena and Atrato River basins, Colombia. Habitat: freshwater.

Potamotrygon marinae Deynat 2006

Potamotrygon marinae Deynat [P. P.] 2006:485, Figs. 1-5 [Comptes Rendus Biologies v. 329; ref. [28948](#)] Maroni River, 3°28'58"N, 53°42'W, French Guiana. Holotype: MNHN 1998-0119.

Paratypes: MNHN 1998-1811 (1), 1998-2006 (1), 2003-0020 (1), 2006-0750 (1). **Current status:** Valid as *Potamotrygon marinae* Deynat 2006. Potamotrygonidae: Potamotrygoninae.

Distribution: French Guiana and Suriname. Habitat: freshwater.

Potamotrygon marquesi Silva & Loboda 2019

Potamotrygon marquesi Silva [J. P. C. B. da] & Loboda [T. S.] 2019:2, Figs. 1-16, 18a [Journal of Fish Biology v. 95 (no. 2); ref. [36727](#)] Tarauacá River, county of Tarauacá, Acre State, Brazil, 8.42588°S 70.43248°W. Holotype: MZUSP 117790. Paratypes: MZUSP 117787 (1), 117795 (1), 117798 (1). Plus additional non-type material. Type catalog: Lima et al. 2023:318 [ref. [40221](#)].

Current status: Valid as *Potamotrygon marquesi* Silva & Loboda 2019. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Juruá River drainage, Amazon River basin (Acre, Brazil). Habitat: freshwater.

Potamotrygon motoro (Müller & Henle 1841)

Taeniura motoro Müller [J.] & Henle [F. G. J.] (ex Natterer) 1841:197 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Lectotype locality: Guaporé River, district of Vila Bela Santíssima Trindade, Mato Grosso State, Brazil. Lectotype: NMW 78655. Paralectotypes: NMW 77987 (1), 78613 (1); ZMB 4662 (1). Type catalog: Paepke & Schmidt 1988:181 [ref. [21041](#)].

Evidently Müller & Henle alone were responsible for the description, so authorship is regarded as Müller & Henle (ex Natterer). Lectotype selected by Loboda & Carvalho 2013:699 [ref. [33024](#)].

Current status: Valid as *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. **Distribution:** Widespread in South America; established in one reservoir in Singapore. Habitat: freshwater.

Trygon garrapa Jardine [W.] in Schomburgk 1843:182, Pl. 21 [The natural history of fishes of Guiana.--Part II; ref. [3948](#)] Rio Branco, South America. Holotype: ZMB 4624. Type catalog: Paepke & Schmidt 1988:181 [ref. [21041](#)]. See Carvalho 2001:1168 [ref. [26256](#)]. Current status: Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Trygon adans Schomburgk [R. H.] in Müller & Trochel 1849 [Reisen in Britisch-Guiana; ref. [3072](#)] Takutu and Rio Branco, South America. Unneeded replacement for *Trygon garrapa* Jardine in Schomburgk 1843:182, Pl. 21 [ref. [3948](#)]. Current status: Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Trygon (Taenura) mulleri Castelnau [F. L.] 1855:102, Pl. 48 (fig. 2) [Animaux nouveaux or rares v. 2; ref. [766](#)] Rio Crixas and Rio Araguay, Brazil. Syntypes: MNHN 0000-2354 (1, poor condition) Rio Araguay, Brazil. Type catalog: Bertin 1939:89 [ref. [20739](#)], Séret & McEachran 1987:21 [ref. [9312](#)]. Name listed as *Taenura mulleri* on figure caption. Castex 1964:21 [ref. [20924](#)] referred to MNHN 2354 as holotype (poor condition) but it may be a syntype. Current status: Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Potamotrygon laticeps Garman [S.] 1913:417, Pls. 31 (figs. 3-4), 55 (fig. 6) [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Obidos, Brazil. Holotype: MCZ 605-S. Non-types: MCZ 290-S (1), USNM 153588 [ex MCZ 301-S] (1). Type catalog: Hartel & Dingerkus 1997:xliv [ref. [23119](#)]. Current status: Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Potamotrygon alba Castex [M. N.] 1963:55 [Anales del Museo Provincial de Ciencias Naturales "Florentino Ameghino," Sante Fe, Zoología v. 2 (no. 1); ref. [20925](#)] Ascunción, Paraguay River, Paraguay. Syntypes: (3) whereabouts unknown. Current status: Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Potamotrygon labradori Castex [M. N.] in Castex, Maciel & Martínez Achenbach 1963:117, Fig. 1 [Neotrópica (La Plata) v. 9 (no. 30); ref. [26348](#)] Rio Colastiné (middle Rio Paraná), Santa Fe, Argentina. Holotype (unique): MFA 231. Information on type locality and type specimen taken from Castex 1964:31 [ref. [20924](#)]. Appeared as a nomen nudum as *labradori* in an earlier 1963 Castex paper (see Carvalho, Lovejoy & Rosa in Reis et al. 2003:25 [ref. [27061](#)]). Current status: Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Potamotrygon pauckei Castex [M. N.] 1963:291, Figs. [Boletín de la Academia Nacional de Ciencias de Córdoba v. 43 (no. 2-4); ref. [1482](#)] Río Paraná, near city of Santa Fe, Argentina. Lectotype: MFA 232. Paralectotypes: (5) MFA 245. No holotype established in original description; two "paratypes" were described in Castex & Yagolkowski 1970 [ref. [9550](#)]. Appeared as a nomen nudum as *labradori* in an earlier 1963 Castex paper (see Carvalho, Lovejoy & Rosa in Reis et al. 2003:25 [ref. [27061](#)]). Current status: Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Potamotrygon ocellata (Engelhardt 1912)

Trygon hystrix var. *ocellata* Engelhardt [R.] 1912:647 [Zoologischer Anzeiger v. 39 (nos 21/22); ref. [17459](#)] Southern shore of Mexiana, Brazil. Holotype (unique): ZSM [old collection] destroyed in WWII. Type catalog: Neumann 2006:279 [ref. [28925](#)]. **Current status:** Valid as *Potamotrygon ocellata* (Engelhardt 1912). Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Amapá and Pará (Brazil) endemic. Habitat: freshwater.

Potamotrygon orbigny (Castelnau 1855)

Trygon (Taenura) orbigny Castelnau [F. L.] 1855:102, Pl. 49 (fig. 1) [Animaux nouveaux or rares v. 2; ref. [766](#)] Rio Tocantins, Brazil. Holotype (unique): MNHN 0000-2333 (poor condition). Type catalog: Bertin 1939:89 [ref. [20739](#)], Séret & McEachran 1987:22 [ref. [9312](#)]. Originally as *d'orbigny* but listed as *Toenura orbigny* on figure caption. Use as *dorbigny* or *orbigny* still unresolved. Current usage may result in using *orbigny*. First reviser not researched if earlier than

Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)]. **Current status:** Valid as *Potamotrygon orbignyi* (Castelnau 1855). Potamotrygonidae: Potamotrygoninae. **Distribution:** Widespread in South America. Habitat: freshwater.

Trygon (Taenura) dumerilii Castelnau [F. L.] 1855:101, Pl. 48 (fig. 1) [Animaux nouveaux or rares v. 2; ref. [766](#)] Rio Araguaya [=Araguaia], Brazil. Holotype (unique): MNHN 0000-2367 (poor condition). Type catalog: Bertin 1939:89 [ref. [20739](#)], Séret & McEachran 1987:20-21 [ref. [9312](#)]. Name listed as *Taenura dumerilii* on figure caption. Current status: Synonym of *Potamotrygon orbignyi* (Castelnau 1855). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Trygon reticulatus Günther [A.] 1880:8 [Annals and Magazine of Natural History (Series 5) v. 6 (no. 31) (art. 2); ref. [14279](#)] Suriname. Holotype (unique): BMNH 1870.3.10.1. See Carvalho 2001:1168 [ref. [26256](#)]. Current status: Synonym of *Potamotrygon orbignyi* (Castelnau 1855). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Potamotrygon roulini Roberts [T. R.] (ex Roulin) 2021:95, Figs. 1-4 [aqua, International Journal of Ichthyology v. 26 (no. 3-4) [for 2020]; ref. [38077](#)] Small stream near Giramena, Meta drainage, upper Orinoco basin, Colombia. Holotype (unique): IAVHP 16138. Based on the "Raya tachetée" or "Raja cascabel" of Roulin 1829 [ref. [26350](#)]. For availability and validity see discussion in Silva et al. 2021:597 [ref. [39258](#)]. Current status: Synonym of *Potamotrygon orbignyi* (Castelnau 1855). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Potamotrygon pantanensis Loboda & Carvalho 2013

Potamotrygon pantanensis Loboda [T. S.] & Carvalho [M. R. de] 2013:714, Figs. 23-36 [Neotropical Ichthyology v. 11 (no. 4); ref. [33024](#)] Sinhá Marinana, tributary of Cuiabá River, district of Barão de Melgaço, Mato Grosso State, Brazil. Holotype: MZUSP 110890. Paratypes: NUP 4179 (1); MZUSP 110874, 110888-89, 11091-92, 110894 (1 each). Plus non-type specimens. Type catalog: Oliveira et al. 2022:4 [ref. [39255](#)], Lima et al. 2023:319 [ref. [40221](#)]. **Current status:** Valid as *Potamotrygon pantanensis* Loboda & Carvalho 2013. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Brazil, Bolivia and Paraguay. Habitat: freshwater.

Potamotrygon rex Carvalho 2016

Potamotrygon rex Carvalho [M. R. de] 2016:538, Figs. 1-13, 15, 16A, B [Zootaxa 4150 (no. 5); ref. [34666](#)] Rio Tocantins near the mouth of the right bank tributary of rio Manoel Alves, Tocantins state, Brazil, 11°18'55"S, 48°27'28"W. Holotype: MZUSP 120371. Paratypes: MZUSP 120354-56 (1, 1, 1), 120358 (1), 120360 (1), 120362-70 (1 each), 120372 (1), 120373 (1); UNT. Plus non-type material. Type catalog: Lima et al. 2023:320 [ref. [40221](#)]. **Current status:** Valid as *Potamotrygon rex* Carvalho 2016. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Middle and upper rio Tocantins (Tocantins, Brazil). Habitat: freshwater.

Potamotrygon schroederi Fernández-Yépez 1958

Potamotrygon schroederi Fernández-Yépez [A.] 1958:8, Figs. 1-2 [Boletín del Museo de Ciencias Naturales. Caracas, Venezuela. 2-3; ref. [896](#)] Río Apure, at mouth of Río Apurito, Estado Apure, Venezuela. Holotype (unique): MHNLS 2504 [ex AFY 51289] (parts only). Type catalog: Lasso et al. 1998:41 [ref. [23639](#)]. See Carvalho 2001:1168 [ref. [26256](#)]. **Current status:** Valid as *Potamotrygon schroederi* Fernández-Yépez 1958. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Orinoco and Amazon basins: Brazil, Colombia and Venezuela. Habitat: freshwater.

Potamotrygon schuhmacheri Castex 1964

Potamotrygon schuhmacheri Castex [M. N.] 1964:92, 94, Fig. [Neotrópica (La Plata) v. 10 (no. 32); ref. [20916](#)] Río Colastiné Sur, Santa Fe, Argentina. MFA 269. Spelled *schühmacheri* on p. 94 and in Castex 1964:32-33 [ref. [20924](#)] and authorship given as "Castex, Martínez Achenbach" in Castex 1964:32 [ref. [20924](#)], but Castex is the only author. **Current status:** Valid as

Potamotrygon schuhmacheri Castex 1964. Potamotrygonidae: Potamotrygoninae. **Distribution:** Paraná-Paraguay River basin, South America. Habitat: freshwater.

Potamotrygon scobina Garman 1913

Potamotrygon scobina Garman [S.] 1913:418 [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Rio Tocantins at Cameté, Pará, Brazil. Holotype (unique): MCZ 602-S. Type catalog: Hartel & Dingerkus 1997:xliv [ref. [23119](#)]. **Current status:** Valid as *Potamotrygon scobina* Garman 1913. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: widely distributed in the Amazon and Orinoco basins (Brazil, Peru, Colombia, Ecuador and Venezuela). Habitat: freshwater.

Potamotrygon signata Garman 1913.

Potamotrygon signatus Garman [S.] 1913:420 [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Rio Puty, tributary of Rio Parnahyba [Rio Parnaíba]; Parnahyba [Rio Parnaíba] at San Gonçalo, Rio de Janeiro, Brazil. Syntypes: MCZ 560-S (1), 600-S (1); USNM 153589 [ex MCZ 560-S] (1). Type catalog: Hartel & Dingerkus 1997:xliv [ref. [23119](#)]. See Carvalho 2001:1168 [ref. [26256](#)]. Castex 1964:26 [ref. [20924](#)] said four syntypes at MCZ. **Current status:** Valid as *Potamotrygon signata* Garman 1913. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Rio Parnaíba basin (Brazil). Habitat: freshwater.

Potamotrygon tatianae Silva & Carvalho 2011

Potamotrygon tatianae Silva [J. P. C. B. da] & Carvalho [M. R. de] 2011:140, Figs. 1-12 [Papéis Avulsos de Zoologia, Museu de Zoologia da Universidade de São Paulo v. 51 (no. 8); ref. [31310](#)] Río Madre de Díos, municipal district of Boca Manu, upper Amazon basin, state of Madre de Dios, Peru, 12°40'S, 71°04'06"W. Holotype: MZUSP 107673. Paratypes: MZUSP 107667 (1), 107668 (1). Plus non-type material. Type catalog: Lima et al. 2023:321 [ref. [40221](#)]. **Current status:** Valid as *Potamotrygon tatianae* Silva & Carvalho 2011. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Río Madre de Díos, upper Río Madeira basin, upper Amazon basin (Peru). Habitat: freshwater.

Potamotrygon tigrina Carvalho, Sabaj Pérez & Lovejoy 2011

Potamotrygon tigrina Carvalho [M. R. de], Sabaj Pérez [M. H.] & Lovejoy [N. R.] 2011:3, Figs. 1-6 [Zootaxa No. 2827; ref. [31264](#)] Río Nanay, large beach (left bank) at village of Pampa Chica, 4.54 km west of Iquitos, Departamento Loreto, Peru, 3°45'09"S, 73°17'00"W. Holotype: MUSM 39978 [ex ANSP 182452]. Paratypes: ANSP 191998 (1). **Current status:** Valid as *Potamotrygon tigrina* Carvalho, Sabaj Pérez & Lovejoy 2011. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Río Nanay, upper Amazon basin (Peru). Habitat: freshwater.

Potamotrygon wallacei Carvalho, Rosa & Araújo 2016

Potamotrygon wallacei Carvalho [M. R. de], Rosa [R. S.] & Araújo [M. L. G. de] 2016:567, Figs. 1-11, 13, 14 [Zootaxa 4107 (no. 4); ref. [34422](#)] Rio Negro, municipality of Barcelos, Amazonas, Brazil, 0°57'30.24"S, 62°56'14.697"W. Holotype: MZUSP 117809. Paratypes: BMNH 1893.4.24.42 (1); MNRJ; MZUSP 10290 (1), 19209 (1), 104962 (1), 104966 (1), 104977 (1), 117804-08 (1 each), 117810-12 (1, 1, 1); UFPB. Plus non-type material. Type catalog: Lima et al. 2023:322 [ref. [40221](#)]. **Current status:** Valid as *Potamotrygon wallacei* Carvalho, Rosa & Araújo 2016. Potamotrygonidae: Potamotrygoninae. **Distribution:** South America: Rio Negro basin (Amazonas, Brazil). Habitat: freshwater.

Potamotrygon yepezi Castex & Castello 1970

Potamotrygon yepezi Castex [M. N.] & Castello [H. P.] 1970:16, Pl. [Acta Scientifica del Departamento de Zoología, Instituto Latinoamericano de Fisiología y Reproducción, Universidad del Salvador No. 8; ref. [7723](#)] Río Palmar at bridge, 70 kilometers southwest of Maracaibo,

southeastern Maracaibo Lake region, Venezuela. Holotype: USNM 121662. Paratypes: Univ. El Salvador [ex USNM 121668] (1), Univ. El Salvadore [ex USNM 121664] (1); USNM 121659-60 (2, 1), 121663-65 (1, 1, 1), 121667-68 (1, now 1). Plus additional material. **Current status:** Valid as *Potamotrygon yepezi* Castex & Castello 1970. Potamotrygonidae: Potamotrygoninae.

Distribution: South America: Venezuela and Colombia. Habitat: freshwater.

Genus ***Styracura*** Carvalho [M. R. de], Loboda [T. S.] & da Silva [J. P. C. B.] 2016:203 [Zootaxa 4175 (no. 3); ref. [34827](#)] Fem. *Trygon schmardae* Werner 1904. Type by original designation. •Valid as *Styracura* Carvalho, Loboda & da Silva 2016 -- (Carvalho 2016:620 [ref. [34997](#)], Ehemann et al. 2018:26 [ref. [36194](#)]). **Current status:** Valid as *Styracura* Carvalho, Loboda & da Silva 2016. Potamotrygonidae: Styracurinae.

Styracura pacifica (Beebe & Tee-Van 1941)

Dasyatis pacificus Beebe [W.] & Tee-Van [J.] 1941:262, Pl. 2 (figs. 1-3); Fig. 24 [Zoologica, Scientific Contributions of the New York Zoological Society v. 26 (pt 3, no. 26); ref. [16103](#)] Port Parker, (Pacific) Costa Rica. Holotype (unique): AMNH 15661-63, 15710SD [ex NYZS 26120] (parts). Type catalog: Mead 1958:132 [ref. [20648](#)]. **Current status:** Valid as *Styracura pacifica* (Beebe & Tee-Van 1941). Potamotrygonidae: Styracurinae. **Distribution:** Eastern Pacific: Mexico south to Colombia, including Galápagos Islands (Ecuador). Habitat: marine.

Styracura schmardae (Werner 1904)

Trygon schmardae Werner [F.] 1904:298 [Zoologische Jahrbücher, Abteilung für Systematik, Geographie und Biologie der Tiere (Jena) v. 21 (no. 3); ref. [15220](#)] Jamaica. Holotype (unique): BMNH 1904.4.30.12. **Current status:** Valid as *Styracura schmardae* (Werner 1904). Potamotrygonidae: Styracurinae. **Distribution:** Western Atlantic: Bahamas and Cuba south to Ceará (Brazil), including southern Gulf of Mexico and Caribbean Sea. Habitat: marine.

Dasybatus torrei Garman [S.] 1913:386 [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Tunas de Zaza, Cuba. Syntypes: whereabouts unknown. Current status: Synonym of *Styracura schmardae* (Werner 1904). Potamotrygonidae: Styracurinae. Habitat: marine.

- Class **Elasmobranchii**
 - Order **Orectolobiformes**
 - Family **Rhincodontidae** Müller & Henle 1841 (whale sharks)

Genus **Rhincodon** Smith [A.] 1829:433 [Zoological Journal, London v. 4 (no. 16) (art. 54); ref. [4976](#)] Masc. *Rhincodon typus* Smith 1828. Type by monotypy (also by use of *typus*). On Official List (Opinion 1278). Misspelled *Rineodon*, *Rhiniodon*, *Rhinodon*, and *Rhinecodon*. Misspelled *Rhinodon* by Müller & Henle 1839:77 [ref. [3069](#)]. *Rhiniodon* Smith 1828:2 on Official Index for purposes of priority (Opinion 1278). Appeared first as *Rhiniodon* Smith 1828 (see also Penrith 1972 [ref. [7140](#)]), but not accepted by ICZN. **Current status:** Valid as *Rhincodon* Smith 1829. Rhincodontidae.

Micristodus Gill [T. N.] 1865:177 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 17; ref. [1711](#)] Masc. *Micristodus punctatus* Gill 1865. Type by monotypy. Current status: Synonym of *Rhincodon* Smith 1829. Rhincodontidae.

Rhiniodon Smith [A.] 1828:2 [South African Commercial Advertiser v. 3 (no. 145); ref. [12603](#)] Masc. *Rhincodon typus* Smith 1828. Type by monotypy (also by use of *typus*). *Rhiniodon* placed on Official Index for purposes of priority (Opinion 1278). *Rhineodon*, *Rineodon* and *Rhinodon* are misspellings or unjustified emendations. Current status: Synonym of *Rhincodon* Smith 1829. Rhincodontidae.

Rhincodon typus Smith 1828

Rhincodon typus Smith [A.] 1828:2 [South African Commercial Advertiser v. 3 (no. 145); ref. [12603](#)] Table Bay, South Africa, southeastern Atlantic. Holotype (unique): MNHN 0000-9855 (stuffed, mounted). Type catalog: Bertin 1939:67 [ref. [20739](#)]. Also appeared as *Rhiniodon typus* in Smith 1829:443 [ref. [4976](#)]. The genus *Rhincodon* was conserved over *Rhiniodon* (Opinion 1278). **Current status:** Valid as *Rhincodon typus* Smith 1828. Rhincodontidae. **Distribution:** Circumglobal in tropical and warm temperate seas (including Gulf of Mexico, Caribbean Sea, Mediterranean Sea, Red Sea, Persian Gulf, Sea of Japan). Habitat: marine.

Rhinodon typicus Müller [J.] & Henle [F. G. J.] 1839:77 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Unjustified emendation of *Rhincodon typus* Smith 1828; see also *Rhinodon typicus* Smith 1845. •Synonym of *Rhincodon typus* Smith 1828 -- (Compagno 1984:210 [ref. [6474](#)], Compagno 2001:203 [ref. [26323](#)], Dylidin 2015:45 [ref. [34524](#)]). Current status: Synonym of *Rhincodon typus* Smith 1828. Rhincodontidae. Habitat: marine.

Rhinodon typicus Smith [A.] 1845:no pagination, Pl. 26 [Illustrations of the zoology of South Africa v. 4; ref. [4035](#)] Cape of Good Hope, South Africa. Holotype (unique): Now MNHN [Museum Jardin des Plantes, Paris]. Unjustified emendation of *Rhincodon typus* Smith 1828. •Synonym of *Rhincodon typus* Smith 1828 -- (Dylidin 2015:45 [ref. [34524](#)]). Current status: Synonym of *Rhincodon typus* Smith 1828. Rhincodontidae. Habitat: marine.

Micristodus punctatus Gill [T. N.] 1865:177 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 17; ref. [1711](#)] Gulf of California, Mexico. Holotype (unique): USNM 231756 (jaws, vertebrae not found). Type catalog: Howe & Springer 1993:12 [ref. [21812](#)]. •Synonym of *Rhincodon typus* Smith 1828 -- (Compagno 1984:210 [ref. [6474](#)], Goto 2001:82 [ref. [25912](#)], Compagno 2001:203 [ref. [26323](#)], Espinosa Pérez et al. 2004:26 [ref. [27705](#)], Dylidin 2015:45 [ref. [34524](#)], Del Moral-Flores et al. 2016:71 [ref. [34398](#)]). Current status: Synonym of *Rhincodon typus* Smith 1828. Rhincodontidae. Habitat: marine.

Rhinodon pentalineatus Kishinouye [K.] 1901:694, Figs. 1-2 [Zoologischer Anzeiger v. 24 (no. 657/658); ref. [14762](#)] Cape Inubo, Japan. Holotype (unique): whereabouts unknown. Specimen originally in private collection of T. Oseko. •Synonym of *Rhincodon typus* Smith 1828 -- (Compagno 1984:210 [ref. [6474](#)], Compagno 2001:203 [ref. [26323](#)], Dylidin 2015:45 [ref. [34524](#)]). Current status: Synonym of *Rhincodon typus* Smith 1828. Rhincodontidae. Habitat: marine.

- Class **Elasmobranchii**
 - Order **Rhinopristiformes**
 - Family **Glaucostegidae** Last, Séret & Naylor 2016 (giant guitarfishes)

Genus ***Glaucostegus*** Bonaparte [C. L.] 1846:14 [Atti della Settima Adunanza degli Scienziati Italiani Sesta Riunione, Milano 7a Adunanza, Napoli, Part 2; ref. [519](#)] Masc. *Rhinobatos cemiculus* Geoffroy St. Hilaire 1827. Type by subsequent designation. Earliest type designation apparently Jordan & Evermann 1896:61 [ref. [2443](#)] as *Rhina rhinobatus* Shaw = *Rhina cemiculus* Geoffroy. Compagno et al. 2005:61 [ref. [29145](#)] say Whitley 1939 designated *Rhinobatos cemiculus* St. Hilaire [Geoffroy St. Hilaire] 1817. Correct spelling of the genus of type species should be *Rhinobatos*. **Current status:** Valid as *Glaucostegus* Bonaparte 1846. Glaucostegidae.

Glaucostegus cemiculus (Geoffroy St. Hilaire 1817)

Rhinobatos cemiculus Geoffroy St. Hilaire [E.] 1817:no page number, Pl. 27 (fig. 3) [Poissons du Nil v. 1 (part 1); ref. [4184](#)] Lake Menzilah, Alexandria, Egypt, Mediterranean Sea. Syntypes: MNHN 1966 (2, poor condition). Type catalog: Bertin 1939:79 [ref. [20739](#)], Séret & McEachran 1987:11 [ref. [9312](#)]. **Current status:** Valid as *Glaucostegus cemiculus* (Geoffroy St. Hilaire 1817). Glaucostegidae. **Distribution:** Mediterranean Sea; eastern Atlantic: Portugal south to Angola, including Cape Verde Islands and São Tomé and Príncipe; southwestern Indian Ocean: Madagascar. Habitat: brackish, marine.

Rhinobatus rasmus Garman [S.] 1908:253 [Bulletin of the Museum of Comparative Zoology v. 51 (no. 9); ref. [1543](#)] Accra, Ghana, Gulf of Guinea. Holotype (unique): MCZ 235-S. Type catalog: Hartel & Dingerkus 1997:xlii [ref. [23119](#)]. Current status: Synonym of *Glaucostegus cemiculus* (Geoffroy St. Hilaire 1817). Glaucostegidae. Habitat: brackish, marine.

Rhinobatus congolensis Giltay [L.] 1928:21, Fig. 1 [Annales de la Société Royale Zoologique de Belgique v. 59; ref. [5065](#)] Congo (precise locality unknown, but very likely at the mouth of the Congo River). Holotype (unique): IRSNB 31. Type catalog: Walschaerts 1987:5 [ref. [20755](#)]. Current status: Synonym of *Glaucostegus cemiculus* (Geoffroy St. Hilaire 1817). Glaucostegidae. Habitat: brackish, marine.

Rhinobatus (Rhinobatus) petiti Chabanaud [P.] 1929:365, Fig. 1 [Bulletin du Muséum National d'Histoire Naturelle (Série 2) v. 1 (no. 6); ref. [16071](#)] Nosy Marirana Bank, between Ankilibé and Tuléar, west coast of Madagascar. Holotype (unique): MNHN 1929-0222. Type catalog: Bertin 1939:80 [ref. [20739](#)], Séret & McEachran 1987:12 [ref. [9312](#)]. • Considered valid as *Rhinobatos petiti* Chabanaud 1929 by Compagno 1999:485 [ref. [25589](#)]. • Considered valid as *Glaucostegus petiti* (Chabanaud 1929) by Weigmann 2016:85 [ref. [34211](#)], Fricke et al. 2018:24 [ref. [35805](#)], Habib & Islam 2021:141 [ref. [38397](#)]. • Considered a synonym of *Glaucostegus cemiculus* (Geoffroy St. Hilaire 1817) by Séret & Carvalho 2022:573 [ref. [39672](#)]. Current status: Synonym of *Glaucostegus cemiculus* (Geoffroy St. Hilaire 1817). Glaucostegidae. Distribution: Western Indian Ocean: Madagascar endemic [if valid]. Habitat: marine.

Rhinobatus rasmus Garman [S.] 1908:253 [Bulletin of the Museum of Comparative Zoology v. 51 (no. 9); ref. [1543](#)] Accra, Ghana, Gulf of Guinea. Holotype (unique): MCZ 235-S. Type catalog: Hartel & Dingerkus 1997:xlii [ref. [23119](#)]. Current status: Synonym of *Glaucostegus cemiculus* (Geoffroy St. Hilaire 1817). Rhinobatidae. Habitat: brackish, marine.

Glaucostegus granulatus (Cuvier 1829)

Rhinobatus granulatus Cuvier [G.] 1829:396 [Le Règne Animal (Edition 2) v. 2; ref. [995](#)] Puducherry, India Syntypes: MNHN 0000-1253 (1), 0000-1254 (1). Type catalog: Bertin 1939:79 [ref. [20739](#)], Séret & McEachran 1987:11 [ref. [9312](#)]. **Current status:** Valid as *Glaucostegus granulatus* (Cuvier 1829). Glaucostegidae. **Distribution:** Northern Indian Ocean: Persian Gulf and Gulf of Oman east to Bangladesh and Myanmar. Habitat: marine.

Rhinobatus acutus Garman [S.] 1908:253 [Bulletin of the Museum of Comparative Zoology v. 51 (no. 9); ref. [1543](#)] Sri Lanka. Holotype (unique): MCZ 807-S. Type catalog: Hartel & Dingerkus 1997:xlii [ref. [23119](#)]. Current status: Synonym of *Glaucostegus granulatus* (Cuvier 1829). Glaucostegidae. Habitat: marine.

Glaucostegus halavi (Fabricius 1775)

Raja halavi Fabricius [J. C.] in Niebuhr (ex Forsskål) 1775:19, viii [Descriptiones animalium (Forsskål); ref. [1351](#)] Jeddah, Saudia Arabia, Red Sea. No types known. Authorship according to Fricke 2008:11 [ref. [30182](#)]. **Current status:** Valid as *Glaucostegus halavi* (Fabricius 1775). Glaucostegidae. Distribution: Red Sea; northwestern Indian Ocean: Persian Gulf, Gulf of Oman, Pakistan. Record from Mediterranean Sea needs verification. Habitat: marine.

Glaucostegus microphthalmus (Teng 1959)

Rhinobatos microphthalmus Teng [H.-T.] 1959:11, Pl. 2 (fig. 6); Fig. 6 [Report - Laboratory of Fishery Biology, Taiwan Fisheries Research Institute No. 10; ref. [9076](#)] Keelung fish market, Taiwan. Holotype (unique): TFRI 3089. Type catalog: Ho & Shao 2011:20 [ref. [31432](#)]. **Current status:** Valid as *Glaucostegus microphthalmus* (Teng 1959); possibly a junior synonym of *R. schlegelii* (Muller & Henle 1841) -- (Ebert et al. 2013:349 [ref. [33045](#)]). Glaucostegidae. **Distribution:** Western Pacific: Taiwan. Habitat: marine.

Glaucostegus obtusus (Müller & Henle 1841)

Rhinobatus (Rhinobatus) obtusus Müller [J.] & Henle [F. G. J.] 1841:122, [Pl. 37 (left)] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Malabar, Pondichéry [Puducherry, India]. Syntypes: (14) MNHN 0000-3470 (1), A-7855 (2), A-7857 (3), A-7912 (2), A-8585 (1, dry); ZMB 7589 (1, stuffed); ZSL uncat. (1, whereabouts unknown). Type catalog: Bertin 1939:80 [ref. [20739](#)], Séret & McEachran 1987:11 [ref. [9312](#)], Paepke & Schmidt 1988:176 [ref. [21041](#)], Paepke 1999:123 [ref. [24282](#)]. **Current status:** Valid as *Glaucostegus obtusus* (Müller & Henle 1841). Glaucostegidae. **Distribution:** Northern Indian Ocean: Pakistan east to western Thailand. Habitat: marine.

Glaucostegus spinosus (Günther 1870)

Rhinobatus spinosus Günther [A.] 1870:518 [Catalogue of the fishes in the British Museum v. 8; ref. [1995](#)] Mexico. Holotype (unique): BMNH 1870.6.20.2 (skin). Type locality needs research. **Current status:** Valid as *Glaucostegus spinosus* (Günther 1870). Glaucostegidae. **Distribution:** Eastern Pacific. Habitat: marine.

Glaucostegus thouin (Anonymous [Lacepède] 1798)

Raja thouin Anonymous (ex Lacepède) 1798:677, 685, Pl. 1 (figs. 2-4) [Allgemeine Literatur-Zeitung 1798 (pt. 3) (nos. 287-288); ref. [13098](#)] No locality (is probably Indonesia). Syntypes: ?MNHN A-7950 (1) Red Sea. Also spelled *thouini* in literature. See Bertin 1939:79-80 [ref. [20739](#)]. On Code recommendation 51D, the anonymous author is listed as Lacepède in square brackets; the convention of Anonymous [Lacepède] 1798 is used by us for clarity. **Current status:** Valid as *Glaucostegus thouin* (Anonymous [Lacepède] 1798). Glaucostegidae. **Distribution:** Red Sea; Indo-West Pacific: Gulf of Aden east to Thailand, north to Japan, south to New Caledonia. IUCN (2019): Critically endangered. Habitat: marine.

Raja thouiniana Shaw [G.] 1804:318, Pl. 147 (fig. 2) [General zoology or systematic natural history; ref. [4015](#)] No types known. Current status: Synonym of *Glaucostegus thouin* (Anonymous [Lacepède] 1798). Glaucostegidae. Habitat: marine.

Rhinobatus (Rhinobatus) lignonifer Cantor [T. E.] 1849:1397 [415], Pl. 14 [Journal of the Asiatic Society of Bengal v. 18 (pt 2); ref. [715](#)] Malay Peninsula; Singapore. Holotype: BMNH 1860.3.19.889. Possible paratype and/or Cantor specimen: BMNH 1860.3.19.543 (1, dried

skin). On p. 415 of separate. Current status: Synonym of *Glaucostegus thouin* (Anonymous [Lacepède] 1798). Glaucostegidae. Habitat: marine.

Glaucostegus typus (Anonymous [Bennett] 1830)

Rhinobatus typus Anonymous [Bennett [E. T.]] 1830:694 [Memoir of the life and public services of Sir Thomas Stamford Raffles; ref. [259](#)] Sumatra, Indonesia; India. Syntypes: BMNH 1852.8.30.17 (dry) Sumatra. Based on *Rhinobatus rhinobatus* of Bloch & Schneider 1801:353 [ref. [471](#)]. On Code recommendation 51D, the anonymous author is listed in square brackets. **Current status:** Valid as *Glaucostegus typus* (Anonymous [Bennett] 1830). Glaucostegidae. **Distribution:** Indo-West Pacific: southern India, Sri Lanka and Bangladesh east to Indonesia and Fiji, north to Thailand, south to northern Australia. Not recorded from Philippines. Habitat: freshwater, brackish, marine.

Rhinobatus armatus Gray [J. E.] 1834:no page number, Pl. 99 [Illustrations of Indian zoology; ref. [1878](#)] India. Holotype (unique): BMNH 1953.8.10.11. Published about 12 Mar. 1834. Current status: Synonym of *Glaucostegus typus* (Anonymous [Bennett] 1830). Glaucostegidae. Habitat: freshwater, brackish, marine.

Rhinobatos batillum Whitley [G. P.] 1939:245, Fig. 13 [Australian Zoologist v. 9 (pt 3); ref. [4695](#)] Shark Bay, Western Australia. Holotype (unique): Whitley coll. (whereabouts unknown). Current status: Synonym of *Glaucostegus typus* (Anonymous [Bennett] 1830). Glaucostegidae. Habitat: freshwater, brackish, marine.

Glaucostegus younholeei Habib & Islam 2021

Glaucostegus younholeei Habib [K. A.] & Islam [M. J.] 2021:132, Figs. 2-8 [Zootaxa 4995 (1); ref. [38397](#)] Cox's Bazar, Bangladesh. Holotype: FBGN-SAU R1911CB-04. Paratypes: (12) FNGN-SAU. **Current status:** Valid as *Glaucostegus younholeei* Habib & Islam 2021. Glaucostegidae. **Distribution:** Indian Ocean: Bay of Bengal, Bangladesh. Habitat: marine.

- Class **Elasmobranchii**

- Order **Rhinopristiformes**

- Family **Pristidae** Bonaparte 1835 (sawfishes)

Genus ***Anoxypristis*** White [E. I.] & Moy-Thomas [J. A.] 1941:397 [Annals and Magazine of Natural History (Series 11) v. 7 (no. 40) (art. 25); ref. [4652](#)] Fem. *Pristis cuspidatus* Latham 1794. Type by being a replacement name. Replacement for *Oxypristis* Hoffman 1912, preoccupied by *Oxypristis* Signoret 1861 in Hemiptera. **Current status:** Valid as *Anoxypristis* White & Moy-Thomas 1941. Pristidae.

Oxypristis Hoffmann [L.] 1912:334 [Zoologische Jahrbücher: Zeitschrift für Systematik, Geographie und Biologie der Tiere, Abteilung für Anatomie und Ontogenie der Tiere. Jena, Stuttgart. v. 33; ref. [5070](#)] Fem. *Pristis cuspidatus* Latham 1794. Type by monotypy. Objectively invalid; preoccupied by *Oxypristis* Signoret 1861 in Hemiptera, replaced by *Anoxypristis* White & Moy-Thomas 1941. Based on a Recent species but fossil species were included. 1°Homonym. Current status: Synonym of *Anoxypristis* White & Moy-thomas 1941. Pristidae.

Anoxypristis cuspidata (Latham 1794)

Pristis cuspidatus Latham [J. F.] 1794:279, Pl. 26 (fig. 3) [The Transactions of the Linnean Society of London v. 2 (art. 25); ref. [2727](#)] Malabar, India, Indian Ocean. Neotype: MNHN 0000-1250. Type catalog: Séret & McEachran 1987:9 [ref. [9312](#)] with neotype established by reference to Dingerkus in press; neotype questioned by Kottelat 2013:23 [ref. [32989](#)]. **Current status:** Valid as *Anoxypristis cuspidata* (Latham 1794). Pristidae. **Distribution:** Red Sea; Indo-West Pacific:

East Africa and Persian Gulf east to Philippines and New Guinea, north to southern Japan, south to northern Australia. Habitat: brackish, marine.

Genus ***Pristis*** Linck [H. F.] 1790:31 [Magazin für das Neueste aus der Physik und Naturgeschichte, Gotha v. 6 (no. 3) (art. 3); ref. [4985](#)] Fem. *Squalus pristis* Linnaeus 1758. Type by monotypy (also by absolute tautonymy). **Current status:** Valid as *Pristis* Linck 1790. Pristidae.

Pristis Latham [J. F.] 1794:276 [The Transactions of the Linnean Society of London v. 2 (art. 25); ref. [2727](#)] Fem. *Squalus pristis* Linnaeus 1758. Type by tautonymy (five included species). **Current status:** Synonym of *Pristis* Linck 1790. Pristidae.

Pristobatus (subgenus of *Raia*) Blainville [H. de] 1816:121 [Bulletin des Sciences, par la Société Philomathique de Paris v. 8; ref. [306](#)] Masc. *Pristis antiquorum* Latham 1794. Type by subsequent designation. Type designated by Jordan & Evermann 1896:60 [ref. [2443](#)], also by Fowler 1911:81 [ref. [6398](#)]. Also spelled *Pristibatys* by Blainville 1818:27 [ref. [307](#)] and *Pristibatis* by Blainville 1825:49 (not investigated). **Current status:** Synonym of *Pristis* Linck 1790. Pristidae.

Pristes Fleming [J.] 1822:376 [The philosophy of zoology v. 2; ref. [5063](#)] Masc. *Pristes antiquorum* Latham 1794. Type by original designation (also monotypic). Based on *Pristis* of pre-Linnean authors, including Willughby 1686:61 [ref. [30164](#)] and Ray 1713:23 [ref. [30231](#)] as *Pristis sive serra piscis*, probably independent from *Pristis* Linck 1790. **Current status:** Synonym of *Pristis* Linck 1790. Pristidae.

Myriosteon Gray [J. E.] 1864:164 [Proceedings of the Zoological Society of London 1864 (pt 2) (art. 2) (for 12 Apr. 1864); ref. [1888](#)] Neut. *Myriosteon higginsii* Gray 1864. Type by monotypy. Described as an echinoderm, but based on a tube from rostral cartilage of a *Pristis* -- (Jordan 1919:332 [ref. [4904](#)]). **Current status:** Synonym of *Pristis* Linck 1790. Pristidae.

Pristiopsis (subgenus of *Pristis*) Fowler [H. W.] 1905:459 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 57; ref. [1370](#)] Fem. *Pristis perotteti* Müller & Henle 1841. Type by original designation (also monotypic). **Current status:** Synonym of *Pristis* Linck 1790. Pristidae.

Pristis clavata Garman 1906

Pristis clavata Garman [S.] 1906:208 [Bulletin of the Museum of Comparative Zoology v. 46 (no. 11); ref. [1542](#)] Queensland, Australia, Coral Sea, southwestern Pacific. Holotype (unique): MCZ 733-S. Type catalog: Hartel & Dingerkus 1997:xli [ref. [23119](#)]. **Current status:** Valid as *Pristis clavata* Garman 1906. Pristidae. **Distribution:** Eastern Indian Ocean, western Pacific: eastern India and Myanmar east to southern Papua New Guinea, south to northern Australia (northern Western Australia, Northern Territory, Queensland). Habitat: brackish, marine.

Pristis pectinata Latham 1794

Pristis pectinatus Latham [J. F.] 1794:278, Pl. 26 (fig. 2) [The Transactions of the Linnean Society of London v. 2 (art. 25); ref. [2727](#)] Ocean. No types known. Based on multiple historical authors. •Valid as *Pristis pectinatus* Latham 1794 -- (Villa 1982:65 [ref. [36708](#)], Bussing & López S. 1994:24 [ref. [23101](#)]). **Current status:** Valid as *Pristis pectinata* Latham 1794. Pristidae. **Distribution:** Western Atlantic: New York (U.S.A.) south to northern Argentina, including Gulf of Mexico and Caribbean Sea; Mediterranean Sea; eastern Atlantic; southwestern Indian Ocean. Habitat: freshwater, brackish, marine.

Pristis granulosa Bloch [M. E.] & Schneider [J. G.] (ex Parra) 1801:352 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] Havana, Cuba, Gulf of Mexico, western Atlantic. No types known. Based on the 'Pez de Espada' of Parra 1787:75, Pl. 33 [ref. [6840](#)]. **Current status:** Synonym of *Pristis pectinata* Latham 1794. Pristidae. Habitat: freshwater, brackish, marine.

Pristis serra Bloch [M. E.] & Schneider [J. G.] 1801:[351], Pl. 70 (upper fig.) [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] As *Pristis pectinata* Latham, Pl. 70 (fig. 1) on p. 351; evidently the name *serra* on plate was not intended. **Current status:** Synonym of *Pristis pectinata* Latham 1794. Pristidae. Habitat: freshwater, brackish, marine.

Pristis mississippiensis Rafinesque [C. S.] 1820:86 [Ichthyologia Ohiensis; ref. [3592](#)] Mississippi River, Lake Pontchartrain, Red River, Arkansas River, Mobile River, and Ohio River, U.S.A. See Markle 1997:440 [ref. [23370](#)]. Current status: Synonym of *Pristis pectinata* Latham 1794. Pristidae. Habitat: freshwater, brackish, marine.

Pristis acutirostris Duméril [A. H. A.] 1865:479 [Histoire naturelle des poissons ou ichthyologie générale v. 1; ref. [1150](#)] Antilles, western Atlantic. Holotype (unique): MNHN A-9476 (stuffed). Type catalog: Bertin 1939:78 [ref. [20739](#)], Séret & McEachran 1987:9 [ref. [9312](#)]. Current status: Synonym of *Pristis pectinata* Latham 1794. Pristidae. Habitat: freshwater, brackish, marine.

Pristis megalodon Duméril [A. H. A.] 1865:476, Pl. 9 (fig. 4) [Histoire naturelle des poissons ou ichthyologie générale v. 1; ref. [1150](#)] No locality stated (is Cayenne, French Guiana). Holotype (unique): MNHN 0000-3483 (rostrum). Type catalog: Bertin 1939:78 [ref. [20739](#)] as MNHN 3484, Séret & McEachran 1987:9 [ref. [9312](#)]. Current status: Synonym of *Pristis pectinata* Latham 1794. Pristidae. Habitat: freshwater, brackish, marine.

Pristobatus occa Duméril [A. H. A.] 1865:479 [Histoire naturelle des poissons ou ichthyologie générale v. 1; ref. [1150](#)] Unknown locality. Holotype (unique): whereabouts unknown. Current status: Synonym of *Pristis pectinata* Latham 1794. Pristidae. Habitat: freshwater, brackish, marine.

Pristis woermanni Fischer [J. G.] 1884:39 [Jahrbuch der Hamburgischen Wissenschaftlichen Anstalten v. 1; ref. [14381](#)] Cameroon, West Africa. Holotype: ZMH 6278. Type catalog: Wilkens & Dohse 1993:410 [ref. [21161](#)], Thiel et al. 2009:16 [ref. [30918](#)]. Still researching. Carvalho & McEachran in Reis et al. 2003:18 [ref. [27061](#)] place with question under two species as noted above. Current status: Synonym of *Pristis pectinata* Latham 1794. Pristidae. Habitat: freshwater, brackish, marine.

Pristis annandalei Chaudhuri [B. L.] 1908:391, Fig. [Records of the Indian Museum (Calcutta) v. 2 (pt 4) (art. 37); ref. [14317](#)] Elephant Point, Myanmar coast, northeastern Indian Ocean. Holotype (unique): whereabouts unknown. Current status: Synonym of *Pristis pectinata* Latham 1794. Pristidae. Habitat: marine.

Pristis pristis (Linnaeus 1758)

Squalus pristis Linnaeus [C.] 1758:235 [Systema Naturae, Ed. X v. 1; ref. [2787](#)] Mediterranean Sea, Indian Ocean, western Atlantic [original: "in Europa"]; localities include Marseille, France; Italy; Lesbos Island, Greece; Syria; Brazil. No types known. Lectotype or neotype fixation needed. Originally based on multiple species and at least 32 pre-Linnaean sources including Artedi 1738:66 [ref. [30578](#)] and Artedi 1738:93 [ref. [30349](#)] as *Squalus rostro longo cuspidato osseo plano utrinque dentato*; Rondelet 1554:487 [ref. [30354](#)] as *Prist(is)*, L'Écluse & Belon 1605:135 [ref. [30583](#)] as *Pristis sive serra*, Jonston 1649:217 [ref. [30579](#)] as *Pust(is)*, Charleton 1668:168 [ref. [30580](#)] as *Pristis, serra*, Willughby 1686:61 [ref. [30164](#)] and Ray 1713:23 [ref. [30231](#)] as *Pristis sive serra piscis*. Apparently a composite species. Possible syntype: Basilica Santuario del Carmine Maggiore, Naples uncat. (see Fioravanti et al. 2023:4 [ref. [40238](#)], which is based on *Pristis pectinata* Latham 1794). **Current status:** Valid as *Pristis pristis* (Linnaeus 1758). Pristidae. **Distribution:** Circumglobal in tropical and warm temperate seas (including Gulf of Mexico, Caribbean Sea, Mediterranean Sea). Eastern Pacific populations may represent a different species, *P. zephyreus*. Habitat: freshwater, brackish, marine.

Pristis antiquorum Latham [J. F.] 1794:277, Pl. 26 (fig. 1) [The Transactions of the Linnean Society of London v. 2 (art. 25); ref. [2727](#)] [In oceano] no specific locality stated (localities include Marseille, France; Italy; Lesbos Island, Greece; Syria, Mediterranean Sea; Brazil, southwestern Atlantic). No types known. Unnecessary replacement name for *Squalus pristis* Linnaeus 1758. Apparently a composite species; lectotype or neotype designation needed. Possible syntype: Basilica Santuario del Carmine Maggiore, Naples uncat. (see Fioravanti et al. 2023:4 [ref. [40238](#)], which is based on *Pristis pectinata* Latham 1794). Replacement Name. Current status: Synonym of *Pristis pristis* (Linnaeus 1758). Pristidae. Habitat: freshwater, brackish, marine.

- Pristis microdon* Latham [J. F.] 1794:280, Pl. 26 (fig. 4) [The Transactions of the Linnean Society of London v. 2 (art. 25); ref. [2727](#)] No locality stated. Holotype (unique): Museum Parkinson (whereabouts unknown). •Considered valid as *Pristis microdon* Latham 1794 by Krefft & Stehmann 1973:51 [ref. [7167](#)], Roberts 1978:26 [ref. [8886](#)], Daget 1984:3 [ref. [6170](#)], Compagno 1986:110 [ref. [5648](#)], Allen & Swainston 1988:24 [ref. [25477](#)], Stehmann 1990:51 [ref. [19316](#)], Allen & Coates 1990:51 [ref. [25561](#)], Allen 1991:36 [ref. [21090](#)], Talwar & Jhingran 1991:34 [ref. [20764](#)], Cervigón 1992:204 [ref. [23827](#)], Allen et al. 1992:297 [ref. [21400](#)], Skelton 1993:345 [ref. [24071](#)], Last & Stevens 1994:364 [ref. [23873](#)], Poll & Gosse 1995:24 [ref. [24781](#)], Compagno 1995:110 [ref. [21955](#)], Castro-Aguirre & Espinosa Pérez 1996:16 [ref. [22793](#)], Rainboth 1996:52 [ref. [22772](#)], Allen 1997:44 [ref. [23977](#)], Tan & Lim 1998:427 [ref. [23648](#)], Fricke 1999:28 [ref. [24106](#)], Morón et al. 1999:153 [ref. [24253](#)], Castro-Aguirre et al. 1999:55 [ref. [24550](#)], Compagno & Last 1999:1415 [ref. [24637](#)], Compagno 1999:484 [ref. [25589](#)], Nakabo 2000:158 [ref. [25086](#)], Compagno in Randall & Lim 2000:581 [ref. [25122](#)], Rafique 2000:327 [ref. [25220](#)], Kottelat 2001:25 [ref. [25780](#)], Hutchins 2001:15 [ref. [25847](#)], Skelton 2001:345 [ref. [27406](#)], Allen et al. 2002:330 [ref. [25930](#)], Nakabo 2002:158 [ref. [26001](#)], Taniuchi et al. 2003:237 [ref. [27369](#)], Morgan et al. 2004:151 [ref. [27718](#)], Heemstra & Heemstra 2004:75 [ref. [28072](#)], Compagno et al. 2005:58 [ref. [29145](#)], Hoese & Gates 2006:171 [ref. [28997](#)], Thorburn et al. 2007:27 [ref. [29328](#)], Allen et al. 2008:25 [ref. [30265](#)], Fricke et al. 2009:11 [ref. [30213](#)], Last et al. 2010:142 [ref. [32461](#)], Morgan et al. 2011:21 [ref. [31262](#)], Duffy et al. 2011:65 [ref. [31668](#)], Marshall 2011:269 [ref. [31755](#)], Larson et al. 2013:16 [ref. [32988](#)], Kottelat 2013:24 [ref. [32989](#)], Habib & Islam 2020:Supplementary table p. 3 [ref. [38321](#)], Haroon & Kibria 2021:89 [ref. [39241](#)]. •Considered a synonym of *Pristis pristis* (Linnaeus 1758) by Paxton et al. 1989:58 [ref. [12442](#)], Séret in Lévêque et al. 1990:60 [ref. [21589](#)], Kottelat et al. 1993:1 [ref. [23448](#)], Faria et al. 2012:11 [146] [ref. [32356](#)], Palacios-Salgado et al. 2014:236 [ref. [36362](#)], Weigmann 2016:81 [ref. [34211](#)], Séret 2016:1352 [ref. [34545](#)], Jones et al. 2020:284 [ref. [37610](#)]. Current status: Synonym of *Pristis pristis* (Linnaeus 1758). Pristidae. Habitat: freshwater, brackish, marine.
- Pristis canaliculata* Bloch [M. E.] & Schneider [J. G.] 1801:351 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] No locality stated (localities include Marseille, France; Italy; Lesbos Island, Greece; Syria, Mediterranean Sea; Brazil, southwestern Atlantic). Based on Latham 1794, Pl. 26 (fig. 1), which is *Pristis antiquorum* Latham 1794. Unnecessary replacement name for *Squalus pristis* Linnaeus 1758. Replacement Name. Current status: Synonym of *Pristis pristis* (Linnaeus 1758). Pristidae. Habitat: freshwater, brackish, marine.
- Pristis perotteti* Valenciennes [A.] in Müller & Henle 1841:108, 192 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Senegal, West Africa, in fresh water. Holotype (unique): MNHN (1, 107 cm) not found. Non-type: MNHN A-9699 (1, mounted female). Type catalog: Bertin 1939:77-78 [ref. [20739](#)] with A.9699 as paratype, but original description was based on "Ein Exemplar", a dry male specimen. *Pristis perotteti* is a misspelling. Misspelled *Pristis perroteti* by Pellegrin 1921:635 [ref. [30437](#)]. Current status: Synonym of *Pristis pristis* (Linnaeus 1758). Pristidae. Habitat: freshwater, brackish, marine.
- Pristis typica* Poey [F.] 1861:360 [Memorias sobre la historia natural de la Isla de Cuba v. 2; ref. [3499](#)] Unneeded replacement name for *Squalis pristis* Linnaeus 1758. Replacement Name. Current status: Synonym of *Pristis pristis* (Linnaeus 1758). Pristidae. Habitat: freshwater, brackish, marine.
- Pristis zephyreus* Jordan [D. S.] & Starks [E. C.] in Jordan 1895:383 [Proceedings of the California Academy of Sciences (Series 2) v. 5; ref. [2394](#)] Mouth of Río Presidio, Sinaloa, Mexico. Holotype (unique): CAS-SU 12670 (skin). Current status: Synonym of *Pristis pristis* (Linnaeus 1758). Pristidae. Distribution: Eastern Pacific: Mazatlan (Mexico) south to Peru [if valid]; now possibly regionally extinct north to Nicaragua. May be a valid species, replacing *P. pristis* (Linnaeus 1758) in eastern Pacific [Love et al. 2021:23 [ref. [39279](#)]]. Habitat: freshwater, brackish, marine.
- Pristiopsis leichhardti* Whitley [G. P.] 1945:44, Fig. 1 [Australian Zoologist v. 11 (pt 1); ref. [13156](#)] Lynd River, northern Queensland, Australia. Holotype (unique): whereabouts unknown. Based on *Pristis* of Leichardt 1846, Journ. Roy. Geogr. Soc. London v. 16, p. 223. Current status: Synonym of *Pristis pristis* (Linnaeus 1758). Pristidae. Habitat: brackish, marine.

***Pristis zijsron* Bleeker 1851**

Pristis zijsron Bleeker [P.] 1851:442 [Natuurkundig Tijdschrift voor Nederlandsch Indië v. 2 (no. 3); ref. [16897](#)] Bandjarmasin, Borneo, Indonesia. Holotype (unique): RMNH 7418 (saw only).

Current status: Valid as *Pristis zijsron* Bleeker 1851. Pristidae. **Distribution:** Red Sea; Indo-West Pacific: KwaZulu-Natal (South Africa), East Africa, Persian Gulf and Madagascar east to Philippines and New Guinea, north to southern China, south to New South Wales (Australia). Habitat: freshwater, brackish, marine.

Pristis dubius Bleeker [P.] 1852:56, Pl. 4 (fig. 11) [Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. v. 24 (art. 12); ref. [333](#)] No locality stated (is Indonesia). RMNH D7418. Bleeker specimens: MNHN 0000-1226 (1). Misspelled *dubia* on Pl. 4, as *dubius* elsewhere. For type information see van Oijen et al. 2007:37 [ref. [29153](#)]. Current status: Synonym of *Pristis zijsron* Bleeker 1851. Pristidae. Habitat: freshwater, brackish, marine.

Pristis leptodon Duméril [A. H. A.] 1865:480 [Histoire naturelle des poissons ou ichthyologie générale v. 1; ref. [1150](#)] Red Sea. Syntypes: MNHN 0000-3485 (1, stuffed and mounted), 0000-3486 (1, skin). Type catalog: Bertin 1939:78 [ref. [20739](#)], Séret & McEachran 1987:9 [ref. [9312](#)]. Current status: Synonym of *Pristis zijsron* Bleeker 1851. Pristidae. Habitat: freshwater, brackish, marine.

Family Pristidae – indeterminate names (presently not valid for CITES purposes):

Squalus semisagittatus Shaw [G.] 1804:361 [General zoology or systematic natural history; ref. [4015](#)] Vizagapatam, India. No types known. Based on Russell 1803:Pl. 13. Pristidae.

Myriosteon higginsii Gray [J. E.] 1864:164, Figs. 1-5 [Proceedings of the Zoological Society of London 1864 (pt 2) (art. 2) (for 12 Apr. 1864); ref. [1888](#)] Unknown locality. Described as an echinoderm, but based on a tube from the rostral cartilage of a *Pristis* (Jordan 1919:332 [ref. [4904](#)]). Pristidae.

Pristobatus brevirostris Duméril [A. H. A.] 1865:480 [Histoire naturelle des poissons ou ichthyologie générale v. 1; ref. [1150](#)] Réunion, western Mascarenes, southwestern Indian Ocean. Holotype (unique): MNHN (whereabouts unknown). Pristidae. Habitat: freshwater, brackish, marine.

- Class **Elasmobranchii**

- Order **Rhinopristiformes**

- Family **Rhinidae** Müller & Henle 1841 (bowmouth guitarfishes or wedgefishes) (3 genera, 12 species)

Genus ***Rhina*** Bloch [M. E.] & Schneider [J. G.] 1801:352 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] Fem. *Rhina ancylostomus* Bloch & Schneider 1801. Type designated by indication under ICZN Opinion 6. On Official List; *Rhina* Schaeffer 1760, *Rhina* Walbaum 1792, and *Rhina* Rafinesque 1810 placed on Official Index (Opinion 345). **Current status:** Valid as *Rhina* Bloch & Schneider 1801. Rhinidae.

Demiurga Gistel [J.] 1848:X [Naturgeschichte des Thierreichs; ref. [1822](#)] Fem. *Rhina ancylostomus* Bloch & Schneider 1801. Type by being a replacement name. Unneeded replacement for *Rhina* Bonaparte and Müller (with species *ancylostoma*), preoccupied in beetles [Oliver 1807], but *Rhina* dates to Bloch & Schneider 1801 (see Jordan 1919:339 [ref. [2409](#)]) and predates Oliver 1807. Current status: Synonym of *Rhina* Bloch & Schneider 1801. Rhinidae.

Rhynchobatis Gill [T. N.] 1862:408 [Annals of the Lyceum of Natural History of New York v. 7 (art. 32); ref. [1783](#)] Fem. *Rhina ancylostomus* Bloch & Schneider 1801. Type by being a replacement name. Unneeded replacement for *Rhina* Bloch & Schneider 1801, not preoccupied by *Rhina* Klein 1742 [unavailable] in fishes. Current status: Synonym of *Rhina* Bloch & Schneider 1801. Rhinidae.

Rhina ancylostomus Bloch & Schneider 1801

Rhina ancylostomus Bloch [M. E.] & Schneider [J. G.] 1801:352, Pl. 72 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] Coromandel, India. Lectotype: ZMB (lost). Paralectotypes: ZMB 4621 (1, dry, lost). Type catalog: Paepke & Schmidt 1988:175 [ref. [21041](#)], Paepke 1999:122-123 [ref. [24282](#)]. Lectotype selected by Paepke 1999:123 [ref. [24282](#)] as the specimen figured in Pl. 72. Species epithet is treated as a noun. **Current status:** Valid as *Rhina ancylostomus* Bloch & Schneider 1801. Rhinidae. **Distribution:** Red Sea; Indo-West Pacific: KwaZulu-Natal (South Africa), East Africa, Persian Gulf, Socotra (Yemen), Seychelles, Madagascar and Mascarenes (La Réunion and Mauritius) east to Philippines and Papua New Guinea, north to Japan, south to New South Wales (Australia) and New Caledonia. Habitat: marine.

Rhinobates (Rhina) cyclostomus Swainson [W.] 1839:322 [The natural history and classification v. 2; ref. [4303](#)] Unneeded new name for *Rhina ancylostomus* Bloch & Schneider 1801. Current status: Synonym of *Rhina ancylostomus* Bloch & Schneider 1801. Rhinidae. Habitat: marine.

Genus ***Rhynchobatus*** Müller [J.] & Henle [F. G. J.] 1837:116 [Bericht über die zur Bekanntmachung geeigneten Verhandlungen der Königlichen Preussischen Akademie der Wissenschaften zu Berlin 1837; ref. [3067](#)] Masc. *Rhinobatus laevis* Bloch & Schneider 1801. Type by monotypy. Also in Müller & Henle 1841:111 [ref. [3069](#)]. *Rhinobatis* is a misspelling. **Current status:** Valid as *Rhynchobatus* Müller & Henle 1837. Rhinidae.

Rhynchobatus australiae Whitley 1939

Rhynchobatus djiddensis australiae Whitley [G. P.] 1939:245, Fig. 14 [Australian Zoologist v. 9 (pt 3); ref. [4695](#)] Off Manning River mouth, New South Wales, Australia. Holotype (unique): AMS IA.4959. **Current status:** Valid as *Rhynchobatus australiae* Whitley 1939. Rhinidae. **Distribution:** Indo-West Pacific: East Africa, Socotra (Yemen) and Persian Gulf east to Philippines, New Ireland (Papua New Guinea) and Fiji, north to Amami Islands (southern Japan), south to eastern Australia. Habitat: marine.

Rhynchobatus cooki Last, Kyne & Compagno 2016

Rhynchobatus cooki Last [P. R.], Kyne [P. M.] & Compagno [L. J. V.] 2016:235, Figs. 1-8 [Zootaxa 4139 (no. 2); ref. [34563](#)] Jurong fish market, Singapore. Holotype: ZRC 41175. Paratypes: BPBM, CAS, SAMC, ZRC. Plus additional non-type material. Treated by mistake as *Rhynchobatus compagno* in Last, White & Seret 2016 [ref. [35000](#)] as a name left in by mistake for *Rhynchobatus cooki* as pointed out by Christopher Scharpf, 30 Dec. 2016; compare p. 57, 757 and the index. **Current status:** Valid as *Rhynchobatus cooki* Last, Kyne & Compagno 2016. Rhinidae. **Distribution:** Singapore, Indonesia. Habitat: marine.

Rhynchobatus djiddensis (Forsskål 1775)

Raja djiddensis Forsskål [P. S.] in Niebuhr 1775:18, viii [Descriptiones animalium (Forsskål); ref. [1351](#)] Jeddah, Saudi Arabia and Luhaiya, Yemen, Red Sea. No types known. Authorship according to Fricke 2008:11 [ref. [30182](#)]. As *Rhinobatus djidsensis* in Bloch & Schneider 1801:356 [ref. [471](#)], and as *Rhinobatus djeddensis* in Rüppell 1829:54 [3843]; also sometimes misspelled "djettensis". **Current status:** Valid as *Rhynchobatus djiddensis* (Forsskål 1775). Rhinidae. **Distribution:** Red Sea; western Indian Ocean: Eastern Cape and KwaZulu-Natal (South Africa), East Africa and Persian Gulf to Madagascar and western Mascarenes (La Réunion). Habitat: brackish, marine.

Rhinobates rueppellii, Swainson [W.] 1838:185, Fig. 24 [The natural history and classification of fishes, amphibians, & reptiles, or monocardian animals. v. 1; ref. [4302](#)] No locality. No types known. Original as *Rüppellii*, corrected to *rueppellii* Kullander 2016:94 [ref. [34436](#)]. See Kullander 2016:92 [ref. [34436](#)]. **Current status:** Uncertain, possible synonym of *Rhynchobatus djiddensis* (Forsskål 1775). Rhinidae. Habitat: brackish, marine.

Rhynchobatus immaculatus Last, Ho & Chen 2013

Rhynchobatus immaculatus Last [P. R.], Ho [H.-C.] & Chen [R.-R.] 2013:189, Figs. 2-7 [Zootaxa 3752 (no. 1); ref. [33039](#)] Keelung fish market, Taiwan. Holotype: NMMBP 16274. Paratypes: CSIRO H 7418 (1); NMMBP 16135 (1), 16275 (1). Plus non-type specimens. **Current status:** Valid as *Rhynchobatus immaculatus* Last, Ho & Chen 2013. Rhinidae. **Distribution:** Taiwan. Habitat: marine.

Rhynchobatus laevis (Bloch & Schneider 1801)

Rhinobatus laevis Bloch [M. E.] & Schneider [J. G.] 1801:354, Pl. 71 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] Japan. Holotype (unique): ZMB 5536 (stuffed). Type catalog: Paepke & Schmidt 1988:176 [ref. [21041](#)], Paepke 1999:123 [ref. [24282](#)]. As *Rhinobatos laevis* on plate. Type regarded as neotype from Paepke & Schmidt 1988:176 [ref. [21041](#)] by Koeda et al. 2020:233 [ref. [37788](#)], but called paratype in Fig. 10. **Current status:** Valid as *Rhynchobatus laevis* (Bloch & Schneider 1801). Rhinidae. **Distribution:** Indo-West Pacific: Mozambique and Madagascar to Persian Gulf and Gulf of Oman, east to southern China, north to southern Japan. Habitat: marine.

Rhynchobatus yentiniensis Wang [K.-F.] 1933:98, Fig. 4 [Contributions from the Biological Laboratory of the Science Society of China. (Zoological Series) v. 9 (no. 3); ref. [16467](#)] Yenting [Wenching], Wenchow, China. Holotype (unique): SSCN 10881 (skin). Current status: Synonym of *Rhynchobatus laevis* (Bloch & Schneider 1801). Rhinidae. Habitat: marine.

Rhynchobatus luebberti Ehrenbaum 1914

Rhynchobatus luebberti Ehrenbaum [E.] 1914:v. 6, p. 403, Fig. [Der Fischerbote v. 5-6; ref. [17457](#)] West Africa [Cameroon]. Holotype: ZMH (lost). Originally as *luebberti*. Also appeared as new in Ehrenbaum 1915:69, Fig. [ref. [15784](#)]. **Current status:** Valid as *Rhynchobatus luebberti* Ehrenbaum 1914. Rhinidae. **Distribution:** Eastern Atlantic: Mauritania south to Angola, including São Tomé and Príncipe. Habitat: marine.

Rhynchobatus atlanticus Regan [C. T.] 1915:124 [Annals and Magazine of Natural History (Series 8) v. 15 (no. 85); ref. [15006](#)] Off Lagos, Nigeria, depth 10-35 fathoms. Holotype (unique): BMNH 1914.11.2.2. Current status: Synonym of *Rhynchobatus luebberti* Ehrenbaum 1914. Rhinidae. Habitat: marine.

Rhynchobatus mononoke Koeda, Itou, Yamada & Motomura 2020

Rhynchobatus mononoke Koeda [K.], Itou [M.], Yamada [M.] & Motomura [H.] 2020:224, Figs. 1-8 [Ichthyological Research v. 68 (no. 2); ref. [37788](#)] Off Satsunomai [purchased at Kagoshima City Central Fish Market], Kagoshima, Japan, 31°50'N, 130°03'E. Holotype: KAUM-I. 80332. Paratypes: BMNH 1937.7.7.14-15 (2), KAUM-I. 117802 (1), KBF-I 1085 (1). Plus additional non-type material. **Current status:** Valid as *Rhynchobatus mononoke* Koeda, Itou, Yamada & Motomura 2020. Rhinidae. **Distribution:** Western Pacific: southern Japan to northern East China Sea. Habitat: marine.

Rhynchobatus palpebratus Compagno & Last 2008

Rhynchobatus palpebratus Compagno [L. J. V.] & Last [P. R.] 2008:230, Figs. 1-3 [CSIRO Marine and Atmospheric Research Paper No. 022; ref. [29689](#)] Northwest of Wessel Islands, Arafura Sea, Northern Territory, Australia, 10°11'S, 137°17'E, depth 50 meters. Holotype: CSIRO H 3384-01. Paratypes: CSIRO C 2291 (1), CA 2373 (1), H 2376-08 (1), H 3322-01 (1), H 3340-01 (1), H

4297-01 (1). **Current status:** Valid as *Rhynchobatus palpebratus* Compagno & Last 2008. Rhinidae. **Distribution:** Indo-Malay Archipelago: Australia and Papua New Guinea. Habitat: marine.

Rhynchobatus springeri Compagno & Last 2010

Rhynchobatus springeri Compagno [L. J. V.] & Last [P. R.] 2010:79, Figs. 1-3 [CSIRO Marine and Atmospheric Research Paper No. 032; ref. [30851](#)] Jakarta, Java, Indonesia. Holotype: RMNH PISC 38539. Paratypes: (22) CAS, CSRIO, HUMZ, IPPS, RMNH PISC, CAS-SU, ZMH. Plus non-type material. **Current status:** Valid as *Rhynchobatus springeri* Compagno & Last 2010. Rhinidae. **Distribution:** Indo-Malay Archipelago: Thailand south to Borneo, Java; Taiwan, Singapore and Philippines, possibly more widespread. Habitat: brackish, marine.

Genus ***Rhynchorhina*** Séret [B.] & Naylor [G. J. P.] 2016:293 [Zootaxa 4138 (no. 2); ref. [34547](#)] Fem. *Rhynchorhina mauritaniensis* Séret & Naylor 2016. Type by original designation (also monotypic). **Current status:** Valid as *Rhynchorhina* Séret & Naylor 2016. Rhinidae.

Rhynchorhina mauritaniensis Séret & Naylor 2016

Rhynchorhina mauritaniensis Séret [B.] & Naylor [G. J. P.] 2016:293, Figs. 2-14 [Zootaxa 4138 (no. 2); ref. [34547](#)] Iwik, Banc d'Arguin, Mauritania. Holotype: MNHN 2003-0610. Paratypes: MNHN 2003-0611 (1), 2003-0612 (1). **Current status:** Valid as *Rhynchorhina mauritaniensis* Séret & Naylor 2016. Rhinidae. **Distribution:** Eastern Atlantic: Mauritania endemic. Habitat: marine.

- Class **Elasmobranchii**
 - Order **Rhinopristiformes**
 - Family **Rhinobatidae** Bonaparte 1835 (guitarfishes)

Genus ***Acroteriobatus*** Giltay 1928

Acroteriobatus (subgenus of *Rhinobatus*) Giltay [L.] 1928:26 [Annales de la Société Royale Zoologique de Belgique v. 59; ref. [5065](#)] Masc. *Rhinobatus* (*Syrrhina*) *annulatus* Smith 1841. Type by subsequent designation. Type apparently designated first by Fowler 1969:141 [ref. [6832](#)]. **Current status:** Valid as *Acroteriobatus* Giltay 1928. Rhinobatidae.

Acroteriobatus andysabini Weigmann, Ebert & Séret 2021

Acroteriobatus andysabini Weigmann [S.], Ebert [D. A.] & Séret [B.] 2021:3, Figs. 1-12 [Marine Biodiversity v. 51 (art. 58); ref. [38392](#)] Douane Beach, Fort Dauphin, Anosy, southeastern Madagascar, 25°1.651'S, 46°59.736'E. Holotype: SAIAB 97396. Paratypes: (7) AMNH, CAS, MNHN, SAIAB, USNM. **Current status:** Valid as *Acroteriobatus andysabini* Weigmann, Ebert & Séret 2021. Rhinobatidae. Distribution: Southwestern Indian Ocean: Madagascar. Habitat: marine.

Acroteriobatus annulatus (Smith 1841)

Rhinobatus (*Syrrhina*) *annulatus* Smith [A.] in Müller & Henle 1841:116 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Cape of Good Hope, South Africa. Syntypes: (2) BMNH 1843.2.29.22 (1, stuffed), MNHN A-8586 (1). **Current status:** Valid as *Acroteriobatus annulatus* (Smith 1841). Rhinobatidae. **Distribution:** Southeastern Atlantic, southwestern

Indian Ocean: Angola south to Cape of Good Hope (South Africa), then north to KwaZulu-Natal (South Africa) and southern Mozambique. Habitat: brackish, marine.

Acroteriobatus blochii (Müller & Henle 1841)

Rhinobatus (Syrrhina) blochii Müller [J.] & Henle [F. G. J.] 1841:115, [Pl. 37 (right)] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Cape of Good Hope, South Africa. Syntypes: (orig. 14, stuffed) MNHN 0000-1256 (1), 0000-3460 (1, dry), 0000-3471 (1), 0000-3473 (1, dry), 0000-3474 (1, dry), A-7853 (1), A-7854 (3); ZMB 4547 (1). Type catalog: Bertin 1939:79 [ref. [20739](#)], Séret & McEachran 1987:10 [ref. [9312](#)], Paepke & Schmidt 1988:175 [ref. [21041](#)], Paepke 1999:123 [ref. [24282](#)]. Species also spelled *blochi* by current authors. **Current status:** Valid as *Acroteriobatus blochii* (Müller & Henle 1841). Rhinobatidae. **Distribution:** Eastern Atlantic, southwestern Indian Ocean: Mauritania south to Cape of Good Hope area (South Africa). Habitat: marine.

Acroteriobatus leucospilus (Norman 1926)

Rhinobatus leucospilus Norman [J. R.] 1926:966, Fig. 18 [Proceedings of the Zoological Society of London 1926 (pt 4); ref. [3215](#)] Durban, KwaZulu-Natal, South Africa, southwestern Indian Ocean. Syntypes: BMNH 1905.6.8.12 (1), 1920.7.23.1 (1). **Current status:** Valid as *Acroteriobatus leucospilus* (Norman 1926). Rhinobatidae. **Distribution:** Southwestern Indian Ocean: Transkei and KwaZulu-Natal (South Africa) north to southern Tanzania, east to Madagascar. Habitat: marine.

Acroteriobatus ocellatus (Norman 1926)

Rhinobatus ocellatus Norman [J. R.] 1926:967, Fig. 20 [Proceedings of the Zoological Society of London 1926 (pt 4); ref. [3215](#)] Bird Island, Algoa Bay, South Africa. Holotype (unique): BMNH 1906.11.19.26. **Current status:** Valid as *Acroteriobatus ocellatus* (Norman 1926). Rhinobatidae. **Distribution:** Southeastern Atlantic, southwestern Indian Ocean: Cape of Good Hope area (South Africa) north to southern Mozambique. Habitat: marine.

Acroteriobatus omanensis Last, Henderson & Naylor 2016

Acroteriobatus omanensis Last [P. R.], Henderson [A. C.] & Naylor [G. J. P.] 2016:277, Figs. 1-7 [Zootaxa 4144 (no. 2); ref. [34741](#)] Off Muscat, Gulf of Oman (collected at Muttrah fish market, Muscat), Oman, depth shallower than 100 meters. Holotype: CSIRO H 7551-01. Paratypes: CSIRO. Plus additional material. **Current status:** Valid as *Acroteriobatus omanensis* Last, Henderson & Naylor 2016. Rhinobatidae. **Distribution:** Northwestern Indian Ocean: Persian Gulf and Gulf of Oman. Habitat: marine.

Acroteriobatus salalah (Randall & Compagno 1995)

Rhinobatos salalah Randall [J. E.] & Compagno [L. J. V.] 1995:293, Fig. [Raffles Bulletin of Zoology v. 43 (no. 2); ref. [22577](#)] Salalah fish market, Oman, Arabian Sea. Holotype (unique): BPBM 36358. Journal published in November; also appeared in Randall 1995:43 [ref. [22896](#)], so earliest publication needs documentation. **Current status:** Valid as *Acroteriobatus salalah* (Randall & Compagno 1995). Rhinobatidae. **Distribution:** Northwestern Indian Ocean: Socotra (Yemen) and Oman east to Pakistan. Habitat: marine.

Acroteriobatus stehmanni Weigmann, Ebert & Séret 2021

Acroteriobatus stehmanni Weigmann [S.], Ebert [D. A.] & Séret [B.] 2021:10, Figs. 14-27 [Marine Biodiversity v. 51 (art. 58); ref. [38392](#)] Off Socotra Island, 12°39'N, 53°27'E - 12°36'N, 53°20'2"E, depth 41-43 meters. Holotype: ZMH 25553. Paratypes: (9) NMNHU 103836 (1), 103838 (1); ZMH 25554 (1), 25555 (1), 25556 (1), 25557 (1), 25558 (1), 25559 (1), 25560 (1). Type catalog: Manilo 2021:27 [ref. [39358](#)]. **Current status:** Valid as *Acroteriobatus stehmanni*

Weigmann, Ebert & Séret 2021. Rhinobatidae. **Distribution:** Northwestern Indian Ocean: Socotra Island (Yemen). Habitat: marine.

Acroteriobatus variegatus (Nair & Lal Mohan 1973)

Rhinobatos variegatus Nair [R. V.] & Lal Mohan [R. S.] 1973:77, Fig. 4 [Senckenbergiana Biologica v. 54 (nos 1/3); ref. [7577](#)] Gulf of Mannar, off Mandapam, Tamil Nadu, India. Holotype (unique): FMRI F.176. **Current status:** Valid as *Acroteriobatus variegatus* (Nair & Lal Mohan 1973). Rhinobatidae. **Distribution:** Indian Ocean: southern India and Sri Lanka. Habitat: marine.

Acroteriobatus zanzibarensis (Norman 1926)

Rhinobatus zanzibarensis Norman [J. R.] 1926:966, Fig. 19 [Proceedings of the Zoological Society of London 1926 (pt 4); ref. [3215](#)] Zanzibar, Tanzania, western Indian Ocean. Holotype: BMNH 1868.5.30.4. Paratypes: BMNH 1867.3.9.429 (1, dry). **Current status:** Valid as *Acroteriobatus zanzibarensis* (Norman 1926). Rhinobatidae. **Distribution:** Western Indian Ocean: Zanzibar (Tanzania) endemic. Habitat: marine.

Genus ***Pseudobatos*** Last, Séret & Naylor 2016

Pseudobatos Last [P. R.], Séret [B.] & Naylor [G. J. P.] 2016:470 [Zootaxa 4117 (no. 4); ref. [34473](#)] Masc. *Rhinobatus glaucostigma* Jordan & Gilbert 1883. Type by original designation. **Current status:** Valid as *Pseudobatos* Last, Séret & Naylor 2016. Rhinobatidae.

Pseudobatos buthi Rutledge 2019

Pseudobatos buthi Rutledge [K. M.] 2019:454, Figs. 1, 2A, 3, 4A, 5A [Copeia v. 107 (no. 3); ref. [36938](#)] Gulf of California, San Felipe, Mexico, depth 2 meters. Holotype: SIO 15-405 [ex UCLA W50-189]. Paratypes: LACM, SIO. **Current status:** Valid as *Pseudobatos buthi* Rutledge 2019. Rhinobatidae. **Distribution:** Eastern Pacific: Gulf of California (Mexico) endemic. Habitat: marine.

Pseudobatos glaucostigma (Jordan & Gilbert 1883)

Rhinobatus glaucostigma Jordan [D. S.] & Gilbert [C. H.] 1883:210 [Proceedings of the United States National Museum v. 6 (no. 14, no. 370) (for 5 Oct. 1883); ref. [10622](#)] Mazatlán, Sinaloa, western Mexico. Syntypes: USNM 28205-06 (1, 1), 29547 (1, not found in 1980), 29602 (1, not found in 1980). Specific name is a invariable noun. **Current status:** Valid as *Pseudobatos glaucostigma* (Jordan & Gilbert 1883). Rhinobatidae. **Distribution:** Eastern Pacific: Pacific coast of Baja California Sur (Mexico) south to Ecuador, including Gulf of California (Mexico). Habitat: marine.

Pseudobatos horkelii (Müller & Henle 1841)

Rhinobatus (Rhinobatus) horkelii Müller [J.] & Henle [F. G. J.] 1841:122, [Pl. 41] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Brasilien [Brazil]. Syntypes: (2) ZMB 4557 (1), 7850 (1, dry). Type catalog: Paepke & Schmidt 1988:175 [ref. [21041](#)]. **Current status:** Valid as *Pseudobatos horkelii* (Müller & Henle 1841). Rhinobatidae. **Distribution:** Southwestern Atlantic: Pernambuco, Sergipe and Bahia (Brazil) south to Uruguay and northern Argentina. Habitat: marine.

Pseudobatos lentiginosus (Garman 1880)

Rhinobatus lentiginosus Garman [S.] 1880:168 [Bulletin of the Museum of Comparative Zoology v. 6 (no. 11); ref. [17881](#)] Florida, U.S.A. Holotype (unique): MCZ 97-S. Type catalog: Hartel & Dingerkus 1997:xliv [ref. [23119](#)]. **Current status:** Valid as *Pseudobatos lentiginosus* (Garman

1880). Rhinobatidae. **Distribution:** Western Atlantic: North Carolina (U.S.A.) south to Ceará (Brazil), including Gulf of Mexico and Caribbean Sea. Habitat: marine.

Pseudobatos leucorhynchus (Günther 1867)

Rhinobates leucorhynchus Günther [A.] 1867:604 [Proceedings of the Zoological Society of London 1866 (pt 3); ref. [1984](#)] Pacific coast of Panama. Holotype (unique): BMNH 1866.1.14.1. Described in more detail in Günther 1868:490 [ref. [1994](#)]. **Current status:** Valid as *Pseudobatos leucorhynchus* (Günther 1867). Rhinobatidae. **Distribution:** Eastern Pacific: Pacific coast of central Baja California (Mexico) south to northern Peru, including Gulf of California (Mexico) and Galápagos Islands (Ecuador). Habitat: marine.

Pseudobatos percellens (Walbaum 1792)

Raja percellens Walbaum [J. J.] 1792:525 [Petri Artedi sueci genera piscium Part 3; ref. [4572](#)] Brazil. No types known. Based on "Puraque" of Markgraf von Liebstadt 1648:151 [ref. [30347](#)]. **Current status:** Valid as *Pseudobatos percellens* (Walbaum 1792). Rhinobatidae. **Distribution:** Western Atlantic: Mexico south to Uruguay, including Caribbean Sea. Habitat: marine.

Rhinobatus electricus Bloch [M. E.] & Schneider [J. G.] 1801:356 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] Brazil. No types known. Based on "Puraque" of Markgraf von Liebstadt 1648:151 [ref. [30347](#)]. Apparently described independent of *Raja percellens* Walbaum 1792, but based on the same source. Current status: Synonym of *Pseudobatos percellens* (Walbaum 1792). Rhinobatidae. Habitat: marine.

Rhinobatus glaucostictos Olfers [J. F. M. von] 1831:22 [Die Gattung *Torpedo*; ref. [18462](#)] No locality. Current status: Synonym of *Pseudobatos percellens* (Walbaum 1792). Rhinobatidae. Habitat: marine.

Rhinobatus undulatus Olfers [J. F. M. von] 1831:22 [Die Gattung *Torpedo*; ref. [18462](#)] Rio de Janeiro, Brazil. No types known. Current status: Synonym of *Pseudobatos percellens* (Walbaum 1792). Rhinobatidae. Habitat: marine.

Rhinobatus stellio Jordan [D. S.] & Rutter [C. L.] 1897:91 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 49; ref. [10644](#)] Kingston, Jamaica. Syntypes: CAS-SU 11828-29 (1, 1), 11851 (1). Type catalog: Böhlke 1953:10 [ref. [12291](#)]. Current status: Synonym of *Pseudobatos percellens* (Walbaum 1792). Rhinobatidae. Habitat: marine.

Pseudobatos planiceps (Garman 1880)

Rhinobatus planiceps Garman [S.] 1880:168 [Bulletin of the Museum of Comparative Zoology v. 6 (no. 11); ref. [17881](#)] Paita and Callao, Peru; Galápagos Islands. Syntypes: (21) MCZ 377-S (6, now 5), 378-S (11), 537-S (1), 538-S (1), 633-S (1, skeleton). Type catalog: Hartel & Dingerkus 1997:xlii [ref. [23119](#)]. **Current status:** Valid as *Pseudobatos planiceps* (Garman 1880). Rhinobatidae. **Distribution:** Eastern Pacific: southern Mexico south to northern Chile, including Galápagos Islands (Ecuador). Habitat: marine.

Pseudobatos prahli (Acero P. & Franke 1995)

Rhinobatus prahli Acero P. [A.] & Franke [R.] 1995:11, Fig. 1 [Biblioteca José Jeronimo Triana / Instituto de Ciencias Naturales, Museo de Historia Natural, Universidad Nacional de Bogota. No. 11; ref. [22546](#)] Isla de Gorgona, Colombia, depth 70 meters. Holotype (unique): ICN-MHN. Type catalog: Mojica & Agudelo-Zamora 2018:6 [ref. [36127](#)]. Original genus should have been *Rhinobatos*. **Current status:** Valid as *Pseudobatos prahli* (Acero P. & Franke 1995). Rhinobatidae. **Distribution:** Eastern Pacific: Pacific coast of Baja California Sur (Mexico); Gulf of Tehuantepec (Mexico) south to northern Peru. Habitat: marine.

Pseudobatos productus (Ayres 1854)

Rhinobatis producta Ayres [W. O.] 1854:142 [The Pacific [newspaper] v. 3 and 4 (thru no. 6); ref. [157](#)] Monterey, California, U.S.A. Syntypes: USNM 1009 (1). Original genus should have been *Rhinobatos*. **Current status:** Valid as *Pseudobatos productus* (Ayres 1854).

Rhinobatidae. **Distribution:** Eastern Pacific: northern California (U.S.A.) south to southern Mexico, including Gulf of California (Mexico). Habitat: brackish, marine.

Genus ***Rhinobatos*** Linck 1790

Rhinobatos Linck [H. F.] 1790:32 [Magazin für das Neueste aus der Physik und Naturgeschichte, Gotha v. 6 (no. 3) (art. 3); ref. [4985](#)] Masc. *Raja rhinobatos* Linnaeus 1758. No included species; first technical addition of species not researched; type usually regarded as *R. rhinobatos* Linnaeus, assumed from tautonymy; technical subsequent designation not researched. **Current status:** Valid as *Rhinobatos* Linck 1790. Rhinobatidae.

Rhinobatus Bloch [M. E.] & Schneider [J. G.] 1801:353 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] Masc. *Raja rhinobatos* Linnaeus 1758. Type usually regarded as by tautonymy, but Linnaeus' spelling of the species was *rhinobatos*; earliest subsequent designation not researched. **Current status:** Synonym of *Rhinobatos* Linck 1790. Rhinobatidae.

Leiobatus Rafinesque [C. S.] 1810:16 [Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia; ref. [3594](#)] Masc. *Leiobatus panduratus* Rafinesque 1810. Type by monotypy. Apparently *Leiobatis* Blainville 1825:43 [ref. [4991](#)] is an unjustified emendation or incorrect subsequent spelling. **Current status:** Synonym of *Rhinobatos* Linck 1790. Rhinobatidae.

Squatinatoraja Nardo [G. D.] 1824:61 [Giornale di fisica, chimica e storia naturale, medicina, ed arti. (series 2) v. 7; ref. [3144](#)] Fem. *Squatinatoraja colonna* Nardo 1824. Type by monotypy. Original not located; not in ref. 3144 or 3146. *Squatimiraja* Agassiz 1846:350 [ref. [64](#)] is an unjustified emendation. **Current status:** Synonym of *Rhinobatos* Linck 1790. Rhinobatidae.

Rhinobatus Billberg [G. J.] 1833:51 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] Masc. **Current status:** Synonym of *Rhinobatos* Linck 1790. Rhinobatidae.

Syrrhina (subgenus of *Rhinobatus*) Müller [J.] & Henle [F. G. J.] 1841:113 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Fem. *Rhinobatus columnae* Bonaparte 1836. Type by subsequent designation. Type apparently first designated by Jordan & Evermann 1896:61 [ref. [2443](#)], not *S. brevirostris* Müller & Henle; five included species in 1841:113. **Current status:** Synonym of *Rhinobatos* Linck 1790. Rhinobatidae.

Platipornax (subgenus of *Rhinobatos*) Whitley [G. P.] 1939:244 [Australian Zoologist v. 9 (pt 3); ref. [4695](#)] Masc. *Raja thouin* Anonymous [Lacepède] 1798. Type by monotypy. Treated as masculine, Art. 30.2.4. **Current status:** Synonym of *Rhinobatos* Linck 1790. Rhinobatidae.

Scobatus (subgenus of *Rhinobatos*) Whitley [G. P.] 1939:244 [Australian Zoologist v. 9 (pt 3); ref. [4695](#)] Masc. *Raja (Rhinobatos) granulatus* Blainville 1816. Type by original designation, also monotypic, used for 2 species treated by Norman, but only one species mentioned by name. **Current status:** Synonym of *Rhinobatos* Linck 1790. Rhinobatidae.

Rhinobatos albomaculatus Norman 1930

Rhinobatus albomaculatus Norman [J. R.] 1930:226, Figured [Annals and Magazine of Natural History (Series 10) v. 6 (no. 32) (art. 28); ref. [16115](#)] Accra, Ghana. Holotype (unique): BMNH 1930.3.24.2. **Current status:** Valid as *Rhinobatos albomaculatus* Norman 1930. Rhinobatidae.

Distribution: Eastern Atlantic: Senegal south to Angola, including São Tomé and Príncipe. Habitat: brackish, marine.

Rhinobatos annandalei Norman 1926

Rhinobatus annandalei Norman [J. R.] 1926:960, Fig. 13 [Proceedings of the Zoological Society of London 1926 (pt 4); ref. [3215](#)] East channel, mouth of Hughli [Hooghly] River, Bay of Bengal, India, depth 40 fathoms [about 70 meters]. Lectotype: BMNH 1909.7.12.1 [ex ZSI].

Paralectotype: BMNH 1909.7.12.2 [ex ZSI] (1). Lectotype selected by Last et al. 2019:259 [ref.

[36614](#). **Current status:** Valid as *Rhinobatos annandalei* Norman 1926. Rhinobatidae.
Distribution: Indian Ocean: Oman east to India, Sri Lanka, Bangladesh and Myanmar. Persian Gulf record needs verification. Habitat: brackish, marine.

Rhinobatos austini Ebert & Gon 2017

Rhinobatos austini Ebert [D. A.] & Gon [O.] 2017:205, Figs. 1-6 [Zootaxa 4276 (no. 2); ref. [35352](#)] Near Port Shepstone, KwaZulu-Natal Province, South Africa, 30°50'S, 30°29'E.
Holotype: SAIAB 75223. Paratypes: SAIAB, iSAM MB. **Current status:** Valid as *Rhinobatos austini* Ebert & Gon 2017. Rhinobatidae. **Distribution:** Southwestern Indian Ocean: KwaZulu-Natal (South Africa) and southern Mozambique east to Madagascar. Habitat: marine.

Rhinobatos borneensis Last, Séret & Naylor 2016

Rhinobatos borneensis Last [P. R.], Séret [B.] & Naylor [G. J. P.] 2016:453, Figs. 2-9 [Zootaxa 4117 (no. 4); ref. [34473](#)] Kota Kinabalu fish market, Sabah, Malaysia (05°58'57.66"N, 116°04'19.83"E). Holotype: SMEC 373. Paratypes: CSIRO, IPMB-I, SMEC. Plus additional non-type specimens. **Current status:** Valid as *Rhinobatos borneensis* Last, Séret & Naylor 2016. Rhinobatidae. **Distribution:** Malaysia and Philippines. Habitat: marine.

Rhinobatos holcorhynchus Norman 1922

Rhinobatus holcorhynchus Norman [J. R.] 1922:318 [Annals and Magazine of Natural History (Series 9) v. 9 (no. 52); ref. [15357](#)] Zululand, KwaZulu-Natal, South Africa, southwestern Indian Ocean, depth 45 fathoms. Holotype (unique): BMNH 1922.1.13.18. **Current status:** Valid as *Rhinobatos holcorhynchus* Norman 1922. Rhinobatidae. **Distribution:** Southwestern Indian Ocean: KwaZulu-Natal (South Africa) north to Kenya, east to Madagascar. Habitat: marine.

Rhinobatus natalensis Fowler [H. W.] 1925:195, Fig. 1 [Annals of the Natal Museum v. 5 (pt 2); ref. [15535](#)] Off Natal Bluff, South Africa, depth 100 fathoms. Holotype: ANSP 53041. Type catalog: Böhlke 1984:149 [ref. [13621](#)]. **Current status:** Synonym of *Rhinobatos holcorhynchus* Norman 1922. Rhinobatidae. Habitat: marine.

Rhinobatos hynnicephalus Richardson 1846

Rhinobatus hynnicephalus Richardson [J.] 1846:195 [Report of the British Association for the Advancement of Science 15th meeting [1845]; ref. [3742](#)] China Seas; Canton, China. No types known. Based on illustration by Reeves (see Whitehead 1970:207, Pl. 11a [ref. [11606](#)]).
Current status: Valid as *Rhinobatos hynnicephalus* Richardson 1846. Rhinobatidae.
Distribution: Northwestern Pacific. Habitat: marine.

Rhinobatos irvinei Norman 1931

Rhinobatus irvinei Norman [J. R.] 1931:352, Fig. 1 [Annals and Magazine of Natural History (Series 10) v. 7 (no. 40); ref. [3220](#)] Ningo, 40 miles east of Accra, Ghana, western Africa. Holotype (unique): BMNH 1930.8.26.3. **Current status:** Valid as *Rhinobatos irvinei* Norman 1931. Rhinobatidae. **Distribution:** Eastern Atlantic: Morocco south to Angola. Habitat: marine.

Rhinobatos jimbaranensis Last, White & Fahmi 2006

Rhinobatos jimbaranensis Last [P. R.], White [W. T.] & Fahmi [no initials] 2006:262, Figs. 1-3 [Cybium v. 30 (no.3); ref. [29418](#)] Jimbaran Bay, southern Bali, Indonesia. Holotype: MZB 12905. Paratypes: CSIRO (4 specimens). **Current status:** Valid as *Rhinobatos jimbaranensis* Last, White & Fahmi 2006. Rhinobatidae. **Distribution:** Bali, Indonesia. Habitat: marine.

Rhinobatos lionotus Norman 1926

Rhinobatus lionotus Norman [J. R.] 1926:961, Fig. 14 [Proceedings of the Zoological Society of London 1926 (pt 4); ref. [3215](#)] East Channel, mouth of Hooghly River, Bay of Bengal, India,

depth 40 fathoms [about 70 meters]. Holotype (unique): BMNH 1909.7.12.3 [ex ZSI]. **Current status:** Valid as *Rhinobatos lionotus* Norman 1926. Rhinobatidae. **Distribution:** Northern Indian Ocean: ?Arabian Sea, West Bengal (India) and Bangladesh east to Myanmar. Habitat: marine.

Rhinobatos manai White, Last & Naylor 2016

Rhinobatos manai White [W. T.], Last [P. R.] & Naylor [G. J. P.] 2016:589, Figs. 1-6 [Zootaxa 4175 (no. 6); ref. [34839](#)] Northwest of Kavieng, New Ireland, Bismarck Archipelago, 02°30'S, 150°44'E, depth 191-290 meters. Holotype (unique): NTUM 11500. **Current status:** Valid as *Rhinobatos manai* White, Last & Naylor 2016. Rhinobatidae. **Distribution:** Western Pacific: New Ireland (Papua New Guinea) endemic. Habitat: marine.

Rhinobatos nudidorsalis Last, Compagno & Nakaya 2004

Rhinobatos nudidorsalis Last [P. R.], Compagno [L. J. V.] & Nakaya [K.] 2004:154, Figs. 2-6 [Ichthyological Research v. 51 (no. 2); ref. [28010](#)] Mascarene Ridge, central Indian Ocean, 10°46'S, 61°05'E, depth 125 meters. Holotype (unique): HUMZ 81478. **Current status:** Valid as *Rhinobatos nudidorsalis* Last, Compagno & Nakaya 2004. Rhinobatidae. **Distribution:** Western Indian Ocean: Saya de Malha Bank and Mascarene Ridge. Habitat: marine.

Rhinobatos penggali Last, White & Fahmi 2006

Rhinobatos penggali Last [P. R.], White [W. T.] & Fahmi [no initials] 2006:267, Figs. 3B, 4-5. [Cybium v. 30 (no.3); ref. [29418](#)] Kedonganan fish market, 8°45'S, 115°10'E, Bali, Indonesia. Holotype: MZB 12904. Paratypes: CSIRO H 5632-02 (1), H 5632-03 (1), H 5873-01 (1), 5873-02 (1). **Current status:** Valid as *Rhinobatos penggali* Last, White & Fahmi 2006. Rhinobatidae. **Distribution:** Central Indonesia. Habitat: marine.

Rhinobatos punctifer Compagno & Randall 1987

Rhinobatos punctifer Compagno [L. J. V.] & Randall [J. E.] 1987:336, Fig. 1 [Proceedings of the California Academy of Sciences (Series 4) v. 44 (no. 14); ref. [9128](#)] Gulf of Aqaba, Red Sea. Holotype (unique): BPBM 20843. Type catalog: Golani 2006:21 [ref. [28840](#)] with a paratype as HUJ 11733. **Current status:** Valid as *Rhinobatos punctifer* Compagno & Randall 1987. Rhinobatidae. **Distribution:** Red Sea; northwestern Indian Ocean: Socotra (Yemen) east to Pakistan, including Persian Gulf. Habitat: marine.

Rhinobatos ranongensis Last, Séret & Naylor 2019

Rhinobatos ranongensis Last [P. R.], Séret [B.] & Naylor [G. J. P.] 2019:275, Figs. 8-10A, 11A, 12A, 13, 14 [Zootaxa 4576 (no. 2); ref. [36614](#)] Andaman Sea west of Maliwun, Myanmar, 10°20.97'N, 97°46.14'E, depth 69 meters. Holotype: CSIRO H 7861-02. Paratypes: ANSP, CSIRO. Plus additional non-type material. **Current status:** Valid as *Rhinobatos ranongensis* Last, Séret & Naylor 2019. Rhinobatidae. **Distribution:** Northeastern Indian Ocean: Bay of Bengal (India and Bangladesh) east to Myanmar. Habitat: marine.

Rhinobatos rhinobatos (Linnaeus 1758)

Raja rhinobatos Linnaeus [C.] 1758:232 [Systema Naturae, Ed. X v. 1; ref. [2787](#)] Mediterranean Sea [original: "Genuæ, Venetiis"]; localities include Genoa and Venice, Italy; Lesbos Island, Greece. Syntypes: NRM 9048 (1). Originally based at least 21 pre-Linnaean sources including Artdi 1738:70 [ref. [30578](#)] and Artdi 1738:99 [ref. [30349](#)] as *Raja oblonga, unico tantum aclueorum ordine in medio dorso*; Rondelet 1554:370 [ref. [30354](#)] as *Rhinobato*, Salviani 1558:153 [ref. [30229](#)] as *Rhinobato sive Sqvatraja*, Charleton 1668:131 [ref. [30580](#)] as *Squatino-Raia*, Willughby 1686:79 [ref. [30164](#)] and Ray 1713:28 [ref. [30231](#)] as *Rhinobatus seu Squatinoraia*. Spelled *rhinobates* and *rhinobatus* by early authors. **Current status:** Valid as

Rhinobatos rhinobatos (Linnaeus 1758). Rhinobatidae. **Distribution:** Mediterranean Sea; eastern Atlantic: Bay of Biscay south to Angola. Habitat: freshwater, brackish, marine.

Raja squatinoraia Stephan [C. F.] 1779:21 [De rajis, schediasma primum; ref. [18818](#)] •Valid as *Rhinobatos rhinobatos* (Linnaeus 1758) -- (Kottelat 2010:65 [ref. [30995](#)]). Current status: Synonym of *Rhinobatos rhinobatos* (Linnaeus 1758). Rhinobatidae. Habitat: freshwater, brackish, marine.

Raja ciodera Rafinesque [C. S.] 1810:15 [Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia; ref. [3594](#)] Sicily, Italy, Mediterranean Sea. No types known. Also appeared in Rafinesque 1810:47 [ref. [3595](#)]. Current status: Synonym of *Rhinobatos rhinobatos* (Linnaeus 1758). Rhinobatidae. Habitat: freshwater, brackish, marine.

Leiobatus panduratus Rafinesque [C. S.] 1810:16 [Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia; ref. [3594](#)] [Sicilia] Sicily, Italy, Mediterranean Sea. Also appeared in Rafinesque 1810:49 [ref. [3595](#)] as *Leiobatus pauduratus*. Current status: Synonym of *Rhinobatos rhinobatos* (Linnaeus 1758). Rhinobatidae. Habitat: freshwater, brackish, marine.

Squatinoraja colonna Nardo [G. D.] 1824:61 [Giornale di fisica, chimica e storia naturale, medicina, ed arti. (series 2) v. 7; ref. [3144](#)] Still researching; not in reference 3144 or 3146; Fowler 1969 [ref. [6832](#)] lists as in above reference, p. 61. Current status: Synonym of *Rhinobatos rhinobatos* (Linnaeus 1758). Rhinobatidae. Habitat: freshwater, brackish, marine.

Rhinobatis duhameli Blainville [H. de] 1825:48, Pl. 11 (figs. 1-2) [Faune Française; ou histoire naturelle Livr. 13 & 14; ref. [4991](#)] Sicily, Italy, Mediterranean Sea. No types at MNHN. Type catalog: Séret & McEachran 1987:30 [ref. [9312](#)]. Current status: Synonym of *Rhinobatos rhinobatos* (Linnaeus 1758). Rhinobatidae. Habitat: freshwater, brackish, marine.

Rhinobatus columnae Bonaparte [C. L.] 1836:fasc. 14, 17, Pl. 152 [Iconografia della fauna italica; ref. [4892](#)] Italy, western Mediterranean Sea. Syntypes: ANSP 476-477 (2). Type catalog: Böhlke 1984:149 [ref. [13621](#)]. Current status: Synonym of *Rhinobatos rhinobatos* (Linnaeus 1758). Rhinobatidae. Habitat: freshwater, brackish, marine.

Rhinobatos sainsburyi Last 2004

Rhinobatos sainsburyi Last [P. R.] 2004:205, Figs. 3-4; Pl. 1b [Records of the Australian Museum v. 56 (no. 2); ref. [27765](#)] Northeast of Cape Lambert, Western Australia, 19°29'S, 117°35'E, depth 70 meters. Holotype: CSIRO H 4041-04. Paratypes: CSIRO CA 1129 (1), CA 1253 (1), CA 3901 (1), H 743-01 (1), H 757-01 (1), H 1048-01 (1), H 1050-03 (1), H 1058-02 (1), H 1090-01 (1), H 1091-01 (1), H 1091-03 (1), H 1091-04 (1). **Current status:** Valid as *Rhinobatos sainsburyi* Last 2004. Rhinobatidae. **Distribution:** Australia and Papua New Guinea. Habitat: marine.

Rhinobatos schlegelii Müller & Henle 1841

Rhinobatus (Rhinobatus) schlegelii Müller [J.] & Henle [F. G. J.] 1841:123, [Pl. 42] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Japan. Lectotype: RMNH D2680 (dry). Paralectotypes: (8, including 2 dry, 6 alcohol) RMNH D2681 and D2684-2687 (5, dry), D2689 (1, dry), 4225 (4). Type catalog: Boeseman 1947:222 [ref. [12876](#)]. Lectotype designation not researched, not designated here. **Current status:** Valid as *Rhinobatos schlegelii* Müller & Henle 1841. Rhinobatidae. **Distribution:** Northwestern Pacific. Habitat: marine.

Rhinobatus formosensis Norman [J. R.] 1926:958, Fig. 11 [Proceedings of the Zoological Society of London 1926 (pt 4); ref. [3215](#)] Taiwan. Syntypes: BMNH 1862.12.6.69-70 (2). Type catalog: Ho & Shao 2011:20 [ref. [31432](#)]. Current status: Synonym of *Rhinobatos schlegelii* Müller & Henle 1841. Rhinobatidae. **Distribution:** Western Pacific: Malaysia (Borneo), Philippines and Taiwan. Habitat: marine.

Rhinobatos whitei Last, Corrigan & Naylor 2014

Rhinobatos whitei Last [P. R.], Corrigan [S.] & Naylor [G.] 2014:33, Figs. 1-8 [Zootaxa 3872 (no.

1); ref. [33525](#)] Dipolog City Public Market, Philippines. Holotype: PNM 15189. Paratypes: CSIRO, PNM, SUML. Plus non-type material. **Current status:** Valid as *Rhinobatos whitei* Last, Corrigan & Naylor 2014. Rhinobatidae. **Distribution:** Philippines. Habitat: marine.

Family Rhinobatidae – indeterminate names (presently not valid for CITES purposes):

Uncertain Genus *Tarsistes* Jordan [D. S.] 1919:344 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 70 (for 1918); ref. [2413](#)] Masc. *Tarsistes philippii* Jordan 1919. Type by being a replacement name. Apparently an unneeded replacement for *Rhynchobatis* Philippi 1858, not preoccupied by *Rhynchobatus* Müller & Henle 1837 [but perhaps preoccupied by an unjustified emendation of it as *Rhynchobatis* - not investigated]. Nomen Dubium. Current status: Uncertain as *Tarsistes* Jordan 1919. Rhinobatidae.

Rhynchobatis Philippi [R. A.] 1857:271 [Archiv für Naturgeschichte v. 23 (pt. 1); ref. [3462](#)] Fem. *Tarsistes philippii* Jordan 1919. Type by subsequent monotypy. Jordan 1919:343 [ref. [4904](#)] provided a new name *Tarsistes* (regarding *Rhynchobatis* as preoccupied by *Rhynchobatus*) and a species, *T. philippii*. Probably available, with type by subsequent monotypy. Based on a dried head of a ray. Nomen Dubium. Current status: Synonym of *Tarsistes* Jordan 1919. Rhinobatidae.

Tarsistes philippii Jordan [D. S.] 1919:344 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 70 (for 1918); ref. [2413](#)] Juan Fernández Islands. Holotype (unique): not researched. Type given by Jordan as "*Rhynchobatis* Philippi, 1858" but this is in error; species spelled *philippii* when Latinized by Jordan. Current status: Uncertain status, as *Tarsistes philippii* Jordan 1919. Rhinobatidae. Distribution: Chile. Habitat: marine.

Rhinobates jaram Montrouzier [X.] 1857:498 [220] [Annales de la Société d'Agriculture, Histoire Naturelle et Arts Utiles de Lyon (sér. 2) v. 8 (1856); ref. [17789](#)] Woodlark Island, South Pacific. No types known. On p. 220 of reprint. Rhinobatidae. Habitat: marine.

Rhinobates laevis Swainson [W.] 1839:322 [The natural history and classification v. 2; ref. [4303](#)] Based on Russell, pl. 10 -- which is Russell 1803:Pl. 10 [ref. [13862](#)]; apparently of Bloch & Schneider 1801 but not stated. Rhinobatidae. Habitat: marine.

Rhinobatus mediterraneus Gistel [J.] 1848:103 [Naturgeschichte des Thierreichs; ref. [1822](#)] Mediterranean Sea; Adriatic Sea; Red Sea. No types known. Rhinobatidae. Habitat: marine.

Raja oblonga Walbaum [J. J.] (ex Artedi) 1792:524 [Petri Artedi sueci genera piscium Part 3; ref. [4572](#)] Perhaps not a new name proposal. Rhinobatidae. Habitat: marine.

Rhinobatus (Rhinobatus) philippi Müller [J.] & Henle [F. G. J.] 1841:119, [Pl. 39] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Unknown locality. Holotype (unique): ZMB 4553. Type catalog: Paepke & Schmidt 1988:176 [ref. [21041](#)]. Rhinobatidae. Habitat: marine.

Rhinobatus (Rhinobatus) polyophthalmus Bleeker [P.] 1855:129 [Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. v. 26 (art. 4); ref. [357](#)] Nagasaki, Japan. Holotype (unique): whereabouts unknown. Also in Bleeker 1854:423 [ref. [13964](#)] as *polyophthalmus*; earliest not researched. Rhinobatidae. Habitat: marine.

Rhinobatus (Rhinobatus) tuberculatus Bleeker [P.] 1853:82 [Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. v. 25 (art. 8); ref. [341](#)] Vizagapatam, India. Based on "Suttiwarah Russ. No. 11" which is Russell 1803:7, Pl. 11 [ref. [13862](#)]. Rhinobatidae. Habitat: marine.

Class **Actinopteri**

- Order **Acipenseriformes**

- Family **Acipenseridae** Bonaparte 1831 (sturgeons) (4 genera, 27 species)

Genus **Acipenser** Linnaeus [C.] 1758:237 [Systema Naturae, Ed. X v. 1; ref. [2787](#)] Masc. *Acipenser sturio* Linnaeus 1758. Type by Linnaean tautonymy. Spelled *Accipenser* by authors. On Official List (Opinion 77, Direction 56); *Acipenses* Linck 1790 placed on Official Index. *Acipenser* used by Heckel & Kner 1856:336 [ref. [2078](#)]. **Current status:** Valid as *Acipenser* Linnaeus 1758. Acipenseridae.

Sturio Rafinesque [C. S.] 1810:41, 58 [Indice d'ittologia siciliana; ref. [3595](#)] Masc. *Sturio vulgaris* Rafinesque 1810 (= *Acipenser sturio* Linnaeus 1758). Type by monotypy. Rafinesque's *vulgaris* is an unneeded substitute for *sturio* Linnaeus. Current status: Synonym of *Acipenser* Linnaeus 1758. Acipenseridae.

Dinoctus Rafinesque [C. S.] 1818:447 [American Monthly Magazine and Critical Review v. 3 (no. 6) (art. 6) (Oct.); ref. [3587](#)] Masc. *Dinoctus truncatus* Rafinesque 1818. Type by monotypy. Spelled *Dinectus* by Rafinesque 1820:249 [ref. [5088](#)]. Based on an Audubon drawing, apparently of a mythical sturgeon (see Markle 1997:445 [ref. [23370](#)]). Current status: Synonym of *Acipenser* Linnaeus 1758. Acipenseridae.

Sterletus (subgenus of *Acipenser*) Rafinesque [C. S.] 1820:248 [Western Review and Miscellaneous Magazine: a monthly publ., devoted to literature and science, Lexington, KY v. 3 (no. 4); ref. [5088](#)] Masc. *Accipenser serotimus* Rafinesque 1820. Type by subsequent designation. Type designated by Jordan & Gilbert (see note) Jordan 1917:113 [ref. [2407](#)]. Also appeared in Rafinesque 1820:80 (Dec.) [ref. [3592](#)]. Rafinesque's use of the spelling *Accipenser* for the subgenus is an unjustified emendation or misspelling. Current status: Synonym of *Acipenser* Linnaeus 1758. Acipenseridae.

Helops Brandt [J. F.] & Ratzeburg [J. T. C.] 1833:3 [Medizinische Zoologie v. 2; ref. [619](#)] Masc. *Acipenser stellatus* Pallas 1771. Type by subsequent designation. As *Helopes* [apparently a vernacular and not available], a group within *Acipenser* later used by Heckel & Kner 1858:342 [ref. [2078](#)]. Norman 1966 [ref. [13535](#)] lists a *Helops* Brandt 1835 in Müller. *Helops* was listed in Müller 1836:73 [ref. [3060](#)] as a name only with no author or included species. Current status: Synonym of *Acipenser* Linnaeus 1758. Acipenseridae.

Sterletus Brandt [J. F.] & Ratzeburg [J. T. C.] 1833:3, 349 [Medizinische Zoologie v. 2; ref. [619](#)] Masc. *Acipenser ruthenus* Linnaeus 1758. Type by monotypy. Original not examined; apparently as "Sterletae" (vernacular), a group within *Acipenser*; subsequent availability not researched. Objectively invalid; preoccupied by *Sterletus* Rafinesque 1820 in fishes. Also spelled *Sterleta* and *Sterledus*. 1°Homonym. Current status: Synonym of *Acipenser* Linnaeus 1758. Acipenseridae.

Antaceus Heckel [J. J.] in Fitzinger & Heckel 1836:293 [Annalen des Wiener Museums der Naturgeschichte v. 1 (no. 12); ref. [2077](#)] Masc. *Acipenser schypa* Gldenstdt 1772. Spelled *Antacei* by Dybowski 1874:393 [ref. [1172](#)]. Current status: Synonym of *Acipenser* Linnaeus 1758. Acipenseridae.

Lioniscus (subgenus of *Acipenser*) Fitzinger [L. J. F. J.] & Heckel [J. J.] 1836:370 [Annalen des Wiener Museums der Naturgeschichte v. 1 (no. 12); ref. [2077](#)] Masc. *Acipenser glaber* Heckel 1836. Type by monotypy. Only appeared in plural form "Lionisci"; latinized by Bonaparte 1846. Later "Lionisci" used as a group within *Acipenser* by Heckel & Kner 1858:332 [ref. [2078](#)]. status: Synonym of *Acipenser* Linnaeus 1758. Acipenseridae.

Lioniscus (subgenus of *Acipenser*) Bonaparte [C. L.] (ex Heckel & Fitzinger) 1846:20 [Atti della Settima Adunanza degli Scienziati Italiani Sesta Riunione, Milano 7a Adunanza, Napoli, Part 2; ref. [519](#)] Masc. *Acipenser glaber* Fitzinger 1836. Type by monotypy. Latinization of "Lionisci" Heckel & Fitzinger 1836. Current status: Synonym of *Acipenser* Linnaeus 1758. Acipenseridae.

Ellops Gistel [J.] 1848:IX [Naturgeschichte des Thierreichs; ref. [1822](#)] Masc. *Acipenser helops* Pallas 1814. Type by being a replacement name. Unneeded replacement for *Helops* [Browne

1789 in fishes, not available]. *Ellops* itself possibly preoccupied by *Ellops* Minding 1832 in fishes. Current status: Synonym of *Acipenser* Linnaeus 1758. Acipenseridae.

Shipa (subgenus of *Acipenser*) Brandt [J. F.] 1869:113 [Mélanges biologiques v. 7; ref. [618](#)] Fem. *Acipenser nudiventris* Lovetsky 1828. Type by subsequent designation. As a subgenus of *Acipenser* with 2 species: *A. shypa* of Gldenstdt (not of Brandt and Ratzeburg) and *Acipenser nudiventris* Lovetsky. Jordan 1919:354 [ref. [4904](#)] gives type as *A. schypa* Eichwald = *A. nudiventris* Lovetsky; Jordan misspells genus as *Schipa*. Treated as feminine, Art. 30.2.4. Current status: Synonym of *Acipenser* Linnaeus 1758. Acipenseridae.

Sinosturio Jaekel [O.] in Weigelt 1929:29 [Monographien zur Geologie und Palaeontologie, Berlin No. 3; ref. [27444](#)] Masc. *Acipenser dabryanus* Dumril 1869. Type by original designation. Type species appeared as "Sinosturio cf. dabryanus". Current status: Synonym of *Acipenser* Linnaeus 1758. Acipenseridae.

Gladostomus (subgenus of *Acipenser*) Holly [M.] 1936:31 [Das Tierreich, Leipzig v. 67; ref. [6492](#)] Masc. *Acipenser stellatus* Pallas 1771. Type by monotypy. The type species has 2 forms, but still regarded as type by monotypy. Current status: Synonym of *Acipenser* Linnaeus 1758. Acipenseridae.

***Acipenser baerii* Brandt 1869**

Acipenser baerii Brandt [J. F.] 1869:115 [Mélanges biologiques v. 7; ref. [618](#)] Ob and Lena river systems, Siberia, Russia. Syntypes: whereabouts unknown. For remarks on systematics see Kottelat 2006:15 [ref. [28831](#)] **Current status:** Valid as *Acipenser baerii* Brandt 1869.

Acipenseridae. **Distribution:** Northeastern Asia: Ob' River to Kolyma River, Arctic rivers of Siberia (Russia). Introduced elsewhere. Habitat: freshwater, brackish.

Acipenser stenorrhynchus Nikolskii [A. M.] 1896:400 [Ezhegodnik, Zoologicheskago Muzeya Imperatorskoi Akademii Nauk v. 1; ref. [14614](#)] Large rivers of Siberia flowing to the Arctic. Syntypes: ZIN 10641 (2), 10885 (1), 10888 (1). ZISP 10641 also type of variety *baicalensis*. Current status: Synonym of *Acipenser baerii* Brandt 1869. Acipenseridae.

Acipenser stenorrhynchus var. *baicalensis* Nikolskii [A. M.] 1896:401 [Ezhegodnik, Zoologicheskago Muzeya Imperatorskoi Akademii Nauk v. 1; ref. [14614](#)] Lake Baikal, Siberia, Russia. Syntypes: MLSU 1631 (1), ZIN 10641 (2). Current status: Synonym of *Acipenser baerii* Brandt 1869. Acipenseridae.

Acipenser baeri chatys Dryagin [P. A.] 1948:532 [Zoologicheskii Zhurnal v. 27 (no. 6); ref. [13007](#)] From Lena to Kolyma rivers, Sakha-Yakutia, northeastern Russia. Syntypes: (27). Current status: Synonym of *Acipenser baerii* Brandt 1869. Acipenseridae.

***Acipenser brevirostrum* Lesueur 1818**

Acipenser brevirostrum Lesueur [C. A.] 1818:390 [Transactions of the American Philosophical Society (New Series) v. 1 (art. 33); ref. [17515](#)] Delaware River, U.S.A. Holotype: ANSP 16953 (mounted specimen). Additional material: (1). Type catalog: Bhlke 1984:17 [ref. [13621](#)]. As *Acipenser brevirostrus* in some early literature; but apparently treated as a noun in apposition by current workers. **Current status:** Valid as *Acipenser brevirostrum* Lesueur 1818.

Acipenseridae. **Distribution:** Atlantic Coast from New Brunswick, Canada to northern Florida, U.S.A. Habitat: freshwater, brackish, marine.

Acipenser (Huso) de kayi Dumril [A. H. A.] 1870:168 [Histoire naturelle des poissons ou ichthyologie gnrale v. 2; ref. [1147](#)] New York, U.S.A. Holotype (unique): MCZ 8924. Current status: Synonym of *Acipenser brevirostrum* Lesueur 1818. Acipenseridae.

Acipenser (Huso) lesueurii Dumril [A. H. A.] (ex Valenciennes) 1870:166, Pl. 16 (figs. 1, 1a) [Histoire naturelle des poissons ou ichthyologie gnrale v. 2; ref. [1147](#)] New York, U.S.A. Holotype (unique): MNHN 0000-3489. Type catalog: Bertin 1940:252 [ref. [293](#)]. Current status: Synonym of *Acipenser brevirostrum* Lesueur 1818. Acipenseridae.

Acipenser (Huso) microrhynchus Dumril [A. H. A.] 1870:164 [Histoire naturelle des poissons ou ichthyologie gnrale v. 2; ref. [1147](#)] Port of New York, New York, U.S.A. Holotype

(unique): MCZ (whereabouts unknown). Current status: Synonym of *Acipenser brevirostrum* Lesueur 1818. Acipenseridae.

Acipenser (Huso) rostellum Duméril [A. H. A.] 1870:173, Pl. 16 (figs. 3, 3a) [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Probably New York, U.S.A. Holotype (unique): MNHN 0000-3490. Type catalog: Bertin 1940:252 [ref. [293](#)]. Current status: Synonym of *Acipenser brevirostrum* Lesueur 1818. Acipenseridae.

Acipenser (Huso) simus Duméril [A. H. A.] (ex Valenciennes) 1870:175, Pl. 16 (figs. 2, 2a) [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] North America. Holotype (unique): MNHN 0000-3491. Type catalog: Bertin 1940:252 [ref. [293](#)]. Current status: Synonym of *Acipenser brevirostrum* Lesueur 1818. Acipenseridae.

Acipenser measius Lesueur [C. A.] in Vaillant 1896:26 [12], Pl. 17 (unedited) [Bulletin de la Société philomathique de Paris (8th Série) v. 8 (no. 1); ref. [13482](#)] No locality. On p. 12 of separate. Current status: Synonym of *Acipenser brevirostrum* Lesueur 1818. Acipenseridae.

***Acipenser dabryanus* Duméril 1869**

Acipenser dabryanus Duméril [A. H. A.] 1869:98, Pl. 22 (figs. 1, 1a-b) [Nouvelles Archives du Muséum d'Histoire Naturelle, Paris v. 4; ref. [14095](#)] Chang Jiang [Yangtze River], China. Holotype (unique): MNHN 0000-5105. Type catalog: Bertin 1940:249-250 [ref. [293](#)]. Also appeared in Duméril 1870:193 [ref. [1147](#)]. **Current status:** Valid as *Acipenser dabryanus* Duméril 1869. Acipenseridae. **Distribution:** Yangtze River basin, China and Korea. Habitat: freshwater.

***Accipenser fulvescens* Rafinesque 1817**

Accipenser fulvescens Rafinesque [C. S.] 1817:288 [American Monthly Magazine and Critical Review v. 1; ref. [19654](#)] Lake Erie, North America. No types known. Original genus should have been *Acipenser*. The two subspecies names, *acutirostris* and *obtusirostris*, attributed to Roussow 1955:79 [ref. [26406](#)] in Scott & Crossman 1998:89 [ref. [24570](#)] were only mentioned as forms of *Acipenser ruthenus* Linnaeus 1758 (not of *A. fulvescens*) and are not available names. **Current status:** Valid as *Accipenser fulvescens* Rafinesque 1817. Acipenseridae. **Distribution:** North America: Hudson Bay (Canada) eastward, south to east-central U.S.A.; introduced in Russia. Habitat: freshwater, brackish.

Acipenser maculosus Lesueur [C. A.] 1818:393 [Transactions of the American Philosophical Society (New Series) v. 1 (art. 33); ref. [17515](#)] Ohio River, U.S.A. Syntypes: ANSP (2). Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Acipenser rubicundus Lesueur [C. A.] 1818:388, Pl. 12 [Transactions of the American Philosophical Society (New Series) v. 1 (art. 33); ref. [17515](#)] Lakes Ontario, Erie, Huron and Michigan, North America. No types known. Redescribed and illustrated by Lesueur 1827:9, Pl. 5 [ref. [17524](#)] with genus as *Accipenser*. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Accipenser macrostomus Rafinesque [C. S.] 1820:249 [Western Review and Miscellaneous Magazine: a monthly publ., devoted to literature and science, Lexington, KY v. 3 (no. 4); ref. [5088](#)] Lower parts of the Ohio River, U.S.A. No types known. Described as belonging to subgenus *Sterletus*, but listed as above. Also in Rafinesque 1820:81 [ref. [3592](#)]. Correct spelling of genus is *Acipenser*. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Accipenser ohioensis Rafinesque [C. S.] 1820:248 [Western Review and Miscellaneous Magazine: a monthly publ., devoted to literature and science, Lexington, KY v. 3 (no. 4); ref. [5088](#)] Ohio River, U.S.A. Described as belonging to subgenus *Sterletus*, but listed as above. Also in Rafinesque 1820:81 [ref. [3592](#)]. Correct spelling of genus is *Acipenser*. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Accipenser serotimus Rafinesque [C. S.] 1820:248 [Western Review and Miscellaneous Magazine: a monthly publ., devoted to literature and science, Lexington, KY v. 3 (no. 4); ref.

[5088](#)] Ohio and Kentucky rivers, U.S.A. Described as belonging to subgenus *Sterletus*, but listed as above. Also in Rafinesque 1820:80 [ref. [3592](#)]. Correct spelling of genus is *Acipenser*. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Acipenser cataphractus Gray [J. E.] (ex Rapp) 1835:122 [Proceedings of the Zoological Society of London 1834 (pt 2); ref. [18155](#)] Mississippi River, U.S.A. Possible holotype: BMNH 2004.12.8.3. The diagnosis was quoted from a manuscript by Rapp but the description was by Gray; authorship herein regarded as Gray (ex Rapp). Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Acipenser rupertianus Richardson [J.] 1836:311, Pl. 97 (fig. 1) [Fauna Boreali-Americana Part 3; ref. [3731](#)] Albany River, Prince Rupert's Land, Canada. Syntypes: (2) whereabouts unknown. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Acipenser carbonarius Agassiz [L.] 1850:271, Pl. 5 (figs. 1-3) [Lake Superior; ref. [66](#)] Michipicotin, on northeastern shore of Lake Superior, North America. Holotype (unique): whereabouts unknown. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Acipenser laevis Agassiz [L.] 1850:267 [Lake Superior; ref. [66](#)] The Pic, Lake Superior, North America. No types known. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Acipenser rhynchaeus Agassiz [L.] 1850:276 [Lake Superior; ref. [66](#)] Sault Sainte Marie, Lake Superior, North America. Syntypes: whereabouts unknown. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Acipenser (Antaceus) buffalo Duméril [A. H. A.] 1867:175, Pl. 14 (figs. 1, 1a-b) [Nouvelles Archives du Muséum d'Histoire Naturelle, Paris v. 3; ref. [14072](#)] Lake Erie, Buffalo, New York, U.S.A. Holotype (unique): MCZ (whereabouts unknown). Also appeared in Duméril 1870:231, pl. 19 (fig. 1) [ref. [1147](#)]. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Acipenser (Antaceus) cincinnati Duméril [A. H. A.] 1867:174, Pl. 14 (figs. 2, 2a-b) [Nouvelles Archives du Muséum d'Histoire Naturelle, Paris v. 3; ref. [14072](#)] Cincinnati, Ohio, U.S.A. Holotype (unique): MCZ (whereabouts unknown). Also appeared in Duméril 1870:229 [ref. [1147](#)]. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Acipenser (Huso) anasimos Duméril [A. H. A.] 1870:122 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] St. Louis, Missouri, U.S.A. Holotype (unique): MCZ (whereabouts unknown). Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Acipenser (Huso) anthracinus Duméril [A. H. A.] 1870:126, Pl. 15 (figs. 4, 4a-b) [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Lake Erie, North America. Syntypes: MNHN 0000-9096 (1, dry), 0000-9112 (1, dry). Type catalog: Bertin 1940:251 [ref. [293](#)]. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Acipenser (Huso) atelaspis Duméril [A. H. A.] 1870:141 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Saskatchewan River, Canada. Holotype (unique): MCZ (whereabouts unknown). Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Acipenser (Huso) copei Duméril [A. H. A.] 1870:108 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Upper Missouri River (?), U.S.A. Holotype (unique): MCZ 100696 [tracking no.] (not found). Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

Acipenser (Huso) honneymani Duméril [A. H. A.] 1870:177 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Nouvelle-Ecosse, Canada. Holotype (unique): MNHN 0000-4843. Type catalog: Bertin 1940:252 [ref. [293](#)]. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

- Acipenser (Huso) kirtlandii* Duméril [A. H. A.] 1870:161 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Lake Erie, North America. Holotype (unique): MNHN 0000-3109 (mounted). Type catalog: Bertin 1940:252 [ref. [293](#)]. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.
- Acipenser (Huso) lamarii* Duméril [A. H. A.] 1870:139 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Upper Mississippi River or Lake Erie, U.S.A. Holotype (unique): MNHN 0000-9115 (dry). Type catalog: Bertin 1940:251 [ref. [293](#)]. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.
- Acipenser (Huso) megalaspis* Duméril [A. H. A.] 1870:135 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Lake Champlain at Burlington, Vermont, U.S.A. Holotype (unique) (?): MCZ 8953. This name was misspelled as *megalepis* in earlier versions of the Catalog of Fishes. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.
- Acipenser (Huso) nertinianus* Duméril [A. H. A.] 1870:162 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Homer, Michigan, U.S.A. Holotype (unique): MCZ 24032. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae. Habitat: freshwater, brackish.
- Acipenser (Huso) paranasimos* Duméril [A. H. A.] 1870:124 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Huntsville, Alabama, U.S.A. Holotype (unique): MCZ 8948. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.
- Acipenser (Huso) platyrhinus* Duméril [A. H. A.] 1870:154 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Upper Mississippi River or Lake Erie, U.S.A. Holotype (unique): MNHN 0000-5007 (mounted). Type catalog: Bertin 1940:251 [ref. [293](#)]. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.
- Acipenser (Huso) rafinesquii* Duméril [A. H. A.] 1870:143 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Ohio River, U.S.A. Holotype (unique): MCZ 8950. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.
- Acipenser (Huso) rauchii* Duméril [A. H. A.] 1870:118 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Osage River, Missouri, U.S.A. Holotype (unique): MCZ 8946. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.
- Acipenser (Huso) richardsonii* Duméril [A. H. A.] 1870:120 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Upper Mississippi River, U.S.A. Holotype (unique): MNHN 0000-9113 (dry). Type catalog: Bertin 1940:250 [ref. [293](#)]. Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.
- Acipenser (Huso) rosarium* Duméril [A. H. A.] 1870:152, Pl. 17 (figs. 2, 2a) [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Upper Mississippi River or Lake Erie, U.S.A. Holotype (unique): MNHN 0000-5009 (dry). Type catalog: Bertin 1940:251 [ref. [293](#)]. •Synonym of *Acipenser rubicundus* Lesueur 1818 -- (authors). Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.
- Acipenser liopeltis* Günther [A.] 1870:341 [Catalogue of the fishes in the British Museum v. 8; ref. [1995](#)] Mississippi, U.S.A. Holotype (unique): BMNH 1855.6.10.1 (stuffed). Current status: Synonym of *Acipenser fulvescens* Rafinesque 1817. Acipenseridae.

***Acipenser gueldenstaedtii* Brandt & Ratzeburg 1833**

Acipenser gueldenstaedtii Brandt [J. F.] & Ratzeburg [J. T. C.] 1833:13, Pl. 3 (figs. 2, 2A-E) [Medizinische Zoologie v. 2; ref. [619](#)] Caspian Sea and tributaries; Black Sea. No types known. Originally as *güldenstädtii*. **Current status:** Valid as *Acipenser gueldenstaedtii* Brandt & Ratzeburg 1833. Acipenseridae. **Distribution:** Eastern Atlantic; Europe and Middle East: Basins of Sea of Marmara, Black Sea, Sea of Azov and Caspian Sea and adjacent watersheds. Introduced elsewhere. Habitat: freshwater, brackish, marine.

Acipenser pygmaeus Reisinger [J.] 1830:93 [Specimen ichthyologiae sistens pisces aquarium dulcium Hungariae; ref. [18620](#)] Objectively invalid; preoccupied by *Acipenser pygmaeus*

Pallas 1814. 1°Homonym. Current status: Synonym of *Acipenser gueldenstaedtii* Brandt & Ratzeburg 1833. Acipenseridae.

Acipenser aculeatus Lovetsky [A.] (ex Fischer) 1834:262, Pl. 19 (fig. 2) [Nouveaux mémoires de la Société impériale des naturalistes de Moscou v. 3; ref. [18085](#)] Dnjepr River in Jekaterinoslaw/Yekaterinoslav Province, Russia. [Original as "Fluvius Borysthenes. Sed uti videtur, locis restrictis Gubern. Catherinoslawl."]. Current status: Synonym of *Acipenser gueldenstaedtii* Brandt & Ratzeburg 1833. Acipenseridae. *Acipenser gueldenstadtii* var. *colchica* Marty [V. J.] 1940:869 [Zoologicheskii Zhurnal v. 19 (no. 6); ref. [17607](#)] Southeastern part of Black Sea near mouth of Rioni and Inguri rivers, Georgia, Eurasia. Syntypes: (many). Elevated, as *Acipenser colchicus* Marty 1940, by Kottelat & Freyhof 2007:50 [ref. [29996](#)], •Considered a synonym of *Acipenser gueldenstaedtii* Brandt & Ratzeburg 1833 in [ITIS](#). Current status: Treated as a valid species, *Acipenser colchicus* Marty 1940, by Eschmeyer et al 2024, but **treated as a synonym of *Acipenser gueldenstaedtii* Brandt & Ratzeburg 1833 for CITES purposes**. Acipenseridae. Distribution (if valid): Eurasia: southeastern Black Sea basin and lower Danube River (Romania, Bulgaria, Turkey, Georgia). Habitat: freshwater. *Acipenser gueldenstadtii* var. *tanaica* Marty [V. J.] 1940:863 [Zoologicheskii Zhurnal v. 19 (no. 6); ref. [17607](#)] Taganrog Bay, Sea of Azov, Russia. Syntypes: (many). Bogutskaya & Naseka 2004:23 [ref. [28183](#)] date *tanaica* to Movchan 1927 as a natio (needs research). Current status: Synonym of *Acipenser gueldenstaedtii* Brandt & Ratzeburg 1833. Acipenseridae.

***Acipenser medirostris* Ayres 1854**

Acipenser medirostris Ayres [W. O.] 1854:2 [The Pacific [newspaper] v. 3 and 4 (thru no. 6); ref. [157](#)] Near San Francisco, California, U.S.A. No types known. Appeared first as above on 1 Dec.; then in Ayres 1854:16 [ref. [18923](#)]. •Considered synonym of *Acipenser acutirostris* Ayres 1854 by Okada 1961:282 [ref. [6363](#)]. •Considered valid as *Acipenser medirostris* Ayres 1854 by Berg 1948:95 [ref. [12882](#)], Lee et al. 1980:40 [ref. [22416](#)], Eschmeyer & Herald 1983:61 [ref. [9277](#)], and many subsequent assessments. **Current status:** Valid as *Acipenser medirostris* Ayres 1854. Acipenseridae. **Distribution:** North Pacific: eastern Kamchatka (Russia), Bering Sea and Alaska (U.S.A.) south to Pacific coast of northern Baja California (Mexico). Habitat: freshwater, brackish, marine.

Acipenser acutirostris Ayres [W. O.] 1854:2 [The Pacific [newspaper] v. 3 and 4 (thru no. 6); ref. [157](#)] San Francisco, California, U.S.A. No types known. Appeared first as above on 1 Dec.; then in Ayres 1854:15 [ref. [18923](#)]. Current status: Synonym of *Acipenser medirostris* Ayres 1854. Acipenseridae.

Acipenser (Antaceus) agassizii Duméril [A. H. A.] 1867:181, Pl. 11 (figs. 2, 2a-b) [Nouvelles Archives du Muséum d'Histoire Naturelle, Paris v. 3; ref. [14072](#)] San Francisco, California, U.S.A. Holotype (unique): MCZ (whereabouts unknown). Also appeared in Duméril 1870:237, Pl. 18 (figs. 3, 3a-b) [ref. [1147](#)]. Current status: Synonym of *Acipenser medirostris* Ayres 1854. Acipenseridae.

Acipenser (Antaceus) alexandri Duméril [A. H. A.] 1867:183, Pl. 15 (figs. 1, 1a-b) [Nouvelles Archives du Muséum d'Histoire Naturelle, Paris v. 3; ref. [14072](#)] San Francisco, California, U.S.A. Holotype (unique): MCZ (whereabouts unknown). Also appeared in Duméril 1870:239, Pl. 15 (figs. 1, 1a-b) [ref. [1147](#)]. Current status: Synonym of *Acipenser medirostris* Ayres 1854. Acipenseridae.

Acipenser (Antaceus) oligopeltis Duméril [A. H. A.] 1867:184, Pl. 15 (figs. 2, 2a-b) [Nouvelles Archives du Muséum d'Histoire Naturelle, Paris v. 3; ref. [14072](#)] San Francisco, California, U.S.A. Holotype (unique): MCZ (whereabouts unknown). Also appeared in Duméril 1870:241 [ref. [1147](#)]. Current status: Synonym of *Acipenser medirostris* Ayres 1854. Acipenseridae.

***Acipenser mikadoi* Hilgendorf 1892**

Acipenser mikadoi Hilgendorf [F. M.] 1892:98 [Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin 1892; ref. [14511](#)] Hokaido, Japan. No types known. •Synonym of *Acipenser acutirostris* Ayres 1854 -- (Okada 1961:282 [ref. [6363](#)]). •Sometimes

considered a subspecies of *Acipenser medirostris* Ayres 1854 -- (Reshetnikov et al. 1997:725 [ref. [24702](#)]). •Synonym of *Acipenser medirostris* Ayres 1854 -- (Kim 1997:539 [ref. [24032](#)], Bogutskaya et al. 2001:42 [ref. [26178](#)], Bogutskaya & Naseka 2004:24 [ref. [28183](#)]). •Valid as *Acipenser mikadoi* Hilgendorf 1892 -- (Birstein & Bemis 1997:159 [ref. [29760](#)] and subsequent assessments. **Current status:** Valid as *Acipenser mikadoi* Hilgendorf 1892. Acipenseridae. **Distribution:** Northwestern Pacific Ocean: southern Okhotsk Sea and Japan to Korea. Habitat: freshwater, brackish, marine.

Acipenser naccarii Bonaparte 1836

Acipenser naccarii Bonaparte [C. L.] 1836: fasc. 16-17, punt.87, Pl. 129 (fig. 2) [Iconografia della fauna italica; ref. [4892](#)] Rivers Brenta, Adige, Piave, Livenza, Bacchiglione, Tagliamento; Florence, Italy. Syntypes: ANSP 624 (1), 625 (1) Bonaparte no. 72. Type catalog: Böhlke 1984:17 [ref. [13621](#)]. Name declared a nomen protectum by Kottelat & Freyhof 2009:76 [ref. [30320](#)] to establish precedence over *Acipenser heckelii* Bonaparte 1836. **Current status:** Valid as *Acipenser naccarii* Bonaparte 1836. Acipenseridae. **Distribution:** Mediterranean Sea: Adriatic Sea and its tributaries, Italy, Slovenia, Greece (extinct), Croatia, Montenegro and Albania; adjacent northeastern Atlantic: Portugal (extinct); introduced in Russia. Habitat: freshwater, brackish, marine.

Acipenser heckelii Fitzinger [L. J. F. J.] in Fitzinger & Heckel 1836:303, Pls. 26 (fig. 4), 29 (figs. 11-12) [Annalen des Wiener Museums der Naturgeschichte v. 1 (no. 12); ref. [2077](#)] Adriatic Sea (Mediterranean Sea); rivers Po, Etsch [Adige] and Brenta, Italy. Syntypes: NMW 76784 (1), 92877 (1, dry). Name mentioned first in Brandt & Ratzeburg 1833:29 [ref. [619](#)], not available. Name declared a nomen oblitum in Kottelat & Freyhof 2009:76 [ref. [30320](#)] Nomen Oblitum. Current status: Synonym of *Acipenser naccarii* Bonaparte 1836. Acipenseridae.

Acipenser nasus Heckel [J. J.] 1847:80 [Diario del Nono Congresso degli Scienziati Italiani convocati in Venezia; ref. [26437](#)] Venice, Italy, Adriatic Sea (Mediterranean Sea). Holotype (unique): NMW 63093. Also appeared in Heckel 1851:552 [ref. [18261](#)], Pl. 23. Current status: Synonym of *Acipenser naccarii* Bonaparte 1836. Acipenseridae. Habitat: freshwater, brackish, marine.

Acipenser nardo Heckel [J. J.] 1851:557, Pl. 24 (fig. 2) [Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Classe v. 6 (pt 2); ref. [18261](#)] Venice, Italy, Adriatic Sea (Mediterranean Sea). Holotype: ?NMW 63076. Non-types: ?NMW 63079 (1). Current status: Synonym of *Acipenser naccarii* Bonaparte 1836. Acipenseridae.

Acipenser ladanus Ninni [A. P.] (ex Chiereghini) 1872:33 [Rivista critica delle specie dei pesci adriatici descritti nell'opera manoscritta dell'Ab. Stefano Chiereghini di Chioggia.; ref. [17995](#)] Appeared first in Nardo 1847:col. 111 [ref. [17944](#)] as name in synonymy and not available. Probably made available by Ninni 1872:33 [ref. [17995](#)] where Chiereghini manuscript is quoted and name is treated as valid by Ninni. Authorship is probably Nardo 1847. Current status: Synonym of *Acipenser naccarii* Bonaparte 1836. Acipenseridae.

Acipenser nudiventris Lovetsky 1828

Acipenser nudiventris Lovetsky [A.] 1828:78, Pl. 6 (fig. 2) [Novyi Magazin, Estestvennoi Istorii, Fiziki, Khimii i Svedenii i Svedenii Ekologicheskikh, Izdannyi 1. Dviubskim Part 2; ref. [19627](#)] Aral Sea, Russia. No types known. Apparently also appeared in Lovetsky 1830 [ref. [18454](#)]. Original description reproduced in Berg 1905:2, footnote [ref. [15338](#)]. **Current status:** Valid as *Acipenser nudiventris* Lovetsky 1828. Acipenseridae. **Distribution:** Eastern Atlantic, Europe and Middle East: Basins of Black, Azov, Caspian and Aral seas and Sea of Marmara. Habitat: freshwater, brackish, marine.

Acipenser schypa Bonnaterre [J. P.] (ex Gùldenstädt) 1788:16 [Tableau encyclopédique et méthodique des trois règnes de la nature... Ichthyologie; ref. [4940](#)] 'La mer du Nord' (erroneous, is probably Caspian Sea). Neotype: NRM 8946. Neotype designated (NRM 8946) by Kottelat 1997:34 [ref. [22952](#)] is invalid, as the neotype is a specimen of *Huso huso* (Linnaeus 1758), but Bonnaterre's *Acipenser schypa* was exclusively based on *Acipenser*

schypa Gldenstdt 1772:516 [ref. [5066](#)], which is in the synonymy of *Acipenser nudiventris* Lovetsky 1828 according to Kottelat 1997:31 [ref. [22952](#)]; therefore ICZN Art. 75.3.5 is not met. Name not considered as valid after 1899; therefore reversal of priority in favor of *Acipenser nudiventris* Lovetsky 1828 is followed (Art. 23.9). Nomen Oblitum. Current status: Synonym of *Acipenser nudiventris* Lovetsky 1828. Acipenseridae.

Acipenser schypa Eichwald [C. E. von] 1831:66 [Zoologia specialis quam expositis animalibus tum vivis Pars posterior [3]; ref. [5562](#)] Caspian Sea, unde Volga adscendit et Cyrum. Credited to "L." [Linnaeus] but this species not described by Linnaeus; if regarded as available then it is subjectively invalid -- preoccupied by *Acipenser schypa* Gldenstdt 1772. Current status: Synonym of *Acipenser nudiventris* Lovetsky 1828. Acipenseridae.

Acipenser glaber Heckel [J. J.] (ex Fitzinger) in Fitzinger & Heckel 1836:270, Pls. 25 (fig. 3), 28 (figs. 5-6) [Annalen des Wiener Museums der Naturgeschichte v. 1 (no. 12); ref. [2077](#)] Danube River, Austria. Syntypes: ?NMW 91292 (1, dry). Appeared as name only with author as Heckel [ex Marsilius] in Fitzinger 1832:340 [ref. [5019](#)]; see Kottelat 1997:31 [ref. [22952](#)]. Current status: Synonym of *Acipenser nudiventris* Lovetsky 1828. Acipenseridae.

Acipenser nudiventris derjavini Borzenko [M. P.] 1950 [Trudy Kaspiiskogo basseinovogo filiala VNIRO Astrachan (Astrakhan) No. 11; ref. [22959](#)] Kura River, Azerbaijan, Caspian Sea Region. Syntypes: (127) KVNIRO uncat. Current status: Synonym of *Acipenser nudiventris* Lovetsky 1828. Acipenseridae.

***Acipenser oxyrinchus* Mitchill 1815**

Acipenser oxyrinchus Mitchill [S. L.] 1815:462 [Transactions of the Literary and Philosophical Society of New-York v. 1 (art. 5) (for 1814); ref. [13292](#)] New York, U.S.A. No types known. Commonly misspelled; *oxyrinchus* is the correct spelling. Declared a nomen protectum by Kottelat & Freyhof 2009:75 [ref. [30320](#)] on Art. 23.9.1 for reversal of precedence over *Stureo accipenser* Strm 1784 and *Acipenser lichtensteinii* Bloch & Schneider 1801. **Nomen Protectum. Current status:** Valid as *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Distribution: Baltic Sea basin; western Atlantic: Canada south to southeastern South America; introduced in Russia. Habitat: freshwater, brackish, marine.

Sturio accipenser Strm [H.] 1784:129 [Physisk-oeconomisk beskrivelse over Eger-praestgiaeld i Aggerhuus-stift i Norge; ref. [22961](#)] Boskerud District, southwest of Oslo, Norway. No types known. Declared a nomen protectum under Art. 23.9.1.2 by Kottelat & Freyhof 2009:79 [ref. [30320](#)] in favor of *Acipenser oxyrinchus* Mitchill 1815. Nomen Protectum. Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Accipenser ruthenus major Schpf [J. D.] 1788:186 [Schriften der Berlinischen Gesellschaft Naturforschender Freunde v. 8; ref. [18700](#)] Hudson River, New York, U.S.A. No types known. Genus should have been *Acipenser*. Not used as valid after 1899; therefore reversal of priority in favor of *Acipenser oxyrinchus oxyrinchus* Mitchill 1815. Nomen Oblitum. Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Acipenser lichtensteinii Bloch [M. E.] & Schneider [J. G.] 1801:348, Pl. 69 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] North Sea. Holotype (unique): ZMB 4412. Type catalog: Paepke 1999:42 [ref. [24282](#)]. Declared a nomen protectum under Art. 23.9.1.2 by Kottelat & Freyhof 2009:79 [ref. [30320](#)] in favor of *Acipenser oxyrinchus* Mitchill 1815. Nomen Oblitum. Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Acipenser hospitus Kryer [H. N.] 1852:780 [Danmarks Fiske; ref. [18437](#)] Northern resund [sound between Sweden and Seeland, Denmark]. Holotype (unique): ZMUC (dry). Original not seen. Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Acipenser (Antaceus) hallowellii Dumril [A. H. A.] 1867:172 [Nouvelles Archives du Musum d'Histoire Naturelle, Paris v. 3; ref. [14072](#)] Locality unknown [= eastern U.S.A.]. Holotype (unique): MNHN (dry). Type catalog: Bertin 1940:249 [ref. [293](#)]. Also appeared in Dumril 1870:228 [ref. [1147](#)]. Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Acipenser (Antaceus) lecontei Duméril [A. H. A.] 1867:177, Pl. 16 (figs. 1, 1a, 2) [Nouvelles Archives du Muséum d'Histoire Naturelle, Paris v. 3; ref. [14072](#)] Bay of New York, U.S.A. Syntypes: (2) MNHN 0000-3110 (1, dry). Type catalog: Bertin 1940:249 [ref. [293](#)] with MNHN 3110 as figured holotype. Also appeared in Duméril 1870:232 [ref. [1147](#)]. Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Acipenser (Huso) bairdii Duméril [A. H. A.] 1870:145 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Havre de Grace, Maryland, U.S.A. Holotype (unique): MCZ (whereabouts unknown). Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Acipenser (Huso) girardi Duméril [A. H. A.] 1870:132 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Havre de Grace, Maryland, U.S.A. Holotype (unique): MCZ 100689 [tracking number] not found. Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Acipenser (Huso) holbrookii Duméril [A. H. A.] 1870:149 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Charleston, South Carolina, U.S.A. Holotype (unique): MCZ 8952. Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Acipenser (Huso) kennicottii Duméril [A. H. A.] 1870:130, Pl. 15 (figs. 3, 3a, 3b) [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] James River, Virginia, U.S.A. Holotype (unique): MCZ 8944. Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Acipenser (Huso) macrorhinus Duméril [A. H. A.] 1870:133 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] New York, U.S.A. Holotype (unique): MNHN 0000-9114. Type catalog: Bertin 1940:251 [ref. [293](#)]. Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Acipenser (Huso) milberti Duméril [A. H. A.] 1870:137 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] New York, U.S.A. Syntypes: MNHN 0000-3113 (1, mounted), 0000-3494 (1, mounted). Type catalog: Bertin 1940:251 [ref. [293](#)]. Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Acipenser (Huso) mitchillii Duméril [A. H. A.] 1870:116 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] New York, U.S.A. Holotype (unique): MNHN 0000-4578. Type catalog: Bertin 1940:250 [ref. [293](#)]. Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Acipenser (Huso) storeri Duméril [A. H. A.] 1870:147 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Boston, Massachusetts, U.S.A. Holotype (unique): MCZ 8931. Current status: Synonym of *Acipenser oxyrinchus* Mitchill 1815. Acipenseridae.

Acipenser oxyrhynchus desotoi Vladykov [V. D.] 1955:755, Pls. 1, 3, 5, 7 [Journal of the Fisheries Research Board of Canada v. 12 (no. 5); ref. [12536](#)] Off Gautier, mouth of Singing River, between Twin Island and Rabbit Island, Jackson County, Mississippi, U.S.A. Holotype: FMNH 59803. Paratypes: FMNH 59804 (1). Type catalog: Ibarra & Stewart 1987:5 [ref. [12367](#)]. Species originally spelled as *de sotoi*, change mandatory. Elevated, as *Acipenser desotoi* Vladykov 1955, by Robins et al. 2018:42 [ref. [35886](#)]. •Considered a synonym of *Acipenser oxyrhynchus* Mitchill 1815 by [ITIS](#). Current status: Treated as a valid species, *Acipenser desotoi* Vladykov 1955, by Eschmeyer et al 2024, but **treated as a synonym of *Acipenser oxyrinchus* Mitchill 1815 for CITES purposes**. Acipenseridae. Distribution (if valid): Southeastern U.S.A.: Gulf of Mexico. Habitat: freshwater, brackish, marine.

***Acipenser persicus* Borodin 1897**

Acipenser persicus Borodin [N. A.] 1897:18, Figs. [Vestnik Rybopromyshlennosti St. Petersburg v. 12; ref. [19955](#)] Ural River to Ural'sk, Kazakhstan; Kura River, Azerbaijan; southern shore of Caspian Sea, Iran. Syntypes: (2 measured) none at ZIN. •Historically considered conspecific with *Acipenser gueldenstaedti* Brandt & Ratzeberg 1833, but a valid subspecies -- (Berg 1948:81 [ref. [12882](#)], Lelek 1987:50 [ref. [22962](#)], see also Sokolov 1998:19 [ref. [23571](#)], Ninua & Japoshvili 2008:164 [ref. [31251](#)]). •Elevated to valid species, as *Acipenser persicus* Borodin

1897, by Coad 1995:7 [ref. [23608](#)] and subsequent assessments. **Current status:** Valid as *Acipenser persicus* Borodin 1897. Acipenseridae. **Distribution:** Eastern Atlantic, Europe and Middle east: Caspian Sea and adjacent watersheds; introduced elsewhere. Habitat: freshwater, brackish.

Acipenser ruthenus Linnaeus 1758

Acipenser ruthenus Linnaeus [C.] 1758:237 [Systema Naturae, Ed. X v. 1; ref. [2787](#)] ?Danube River. Holotype: NRM 96. Based on several sources, see Kottelat 1997:31 [ref. [22952](#)] so 96 should be regarded as a syntype. Apparently *ruthenicus* Brusina 1902:63 is a misspelling. Species epithet spelled *rhutenus* by Kielsen 1835:iii [ref. [30365](#)]. **Current status:** Valid as *Acipenser ruthenus* Linnaeus 1758. Acipenseridae. **Distribution:** Arctic rivers; Europe and Middle East: Black Sea, Sea of Azov, White Sea and Caspian Sea watersheds. Introduced elsewhere. Habitat: freshwater, brackish.

Acipenser koster Gmelin [J. F.] 1789:1486 [Caroli a Linné ... Systema Naturae per regna tria naturae v. 1 (pt 3); ref. [18139](#)] Caspian Sea. Appeared first as name only in Gmelin 1774:238 [ref. 18140, v. 3]. •Apparently the same as *Acipenser kostera* Fitzinger 1832. Current status: Uncertain synonym of *Acipenser ruthenus* Linnaeus 1758. Acipenseridae.

Acipenser pygmaeus Pallas [P. S.] 1814:102 [Zoographia Rosso-Asiatica v. 3; ref. [3351](#)] Major seas and rivers of Europe. No types known. For localities see Kottelat 1997:31 [ref. [22952](#)]. Jouladeh-Roudbar et al. 2020:16 [ref. [37983](#)]. Current status: Synonym of *Acipenser ruthenus* Linnaeus 1758. Acipenseridae.

Acipenser kostera Fitzinger [L. J. F. J.] 1832:340 [Beiträge zur Landeskunde Österreichs unter der Enns, Wien v. 1; ref. [5019](#)] Danube River, Vienna, Austria. Neotype: BMNH 1898.4.11.26. Neotype designated by Kottelat 1997:31 [ref. [22952](#)]. Current status: Synonym of *Acipenser ruthenus* Linnaeus 1758. Acipenseridae.

Acipenser marsiglii Brandt [J. F.] in Brandt & Ratzeburg 1833:352 [Medizinische Zoologie v. 2; ref. [619](#)] Danube River or Ob River. Holotype: ?ZIN 11825. Based on *Antaceus glaber* of Marsigli 1726:34, Pl. 10 (fig. 2) [not investigated]. Also spelled *marsilii* by authors. •Synonym of *Acipenser ruthenus* Linnaeus 1758, but perhaps a valid subspecies -- (Reshetnikov et al. 1997:726 [ref. [24702](#)], Sokolov 1998:21 [ref. [23571](#)]). Current status: Synonym of *Acipenser ruthenus* Linnaeus 1758. Acipenseridae.

Acipenser kamensis Lovetsky [A.] 1834:262, Pl. 16 (fig. 2) [Nouveaux mémoires de la Société impériale des naturalistes de Moscou v. 3; ref. [18085](#)] Kama River, Russia. No types known. evidently spelled *camensis* on Pl. 16; see Kottelat 1997:31 [ref. [22952](#)]. Current status: Synonym of *Acipenser ruthenus* Linnaeus 1758. Acipenseridae.

Acipenser aleutensis Fitzinger [L. J. F. J.] in Fitzinger & Heckel 1836:285 [Annalen des Wiener Museums der Naturgeschichte v. 1 (no. 12); ref. [2077](#)] Canaga Island, Aleutian Islands, Alaska, U.S.A. [in error]. No types known. See Mecklenburg et al. 2002:115 [ref. [25968](#)] who say not from Alaska and not *transmontanus*. Current status: Synonym of *Acipenser ruthenus* Linnaeus 1758. Acipenseridae.

Acipenser gmelini Fitzinger [L. J. F. J.] in Fitzinger & Heckel 1836:276, Pls. 25 (fig. 2), 30 (figs. 17-18) [Annalen des Wiener Museums der Naturgeschichte v. 1 (no. 12); ref. [2077](#)] Azov Sea or Caspian Sea. Holotype (unique): NMW (not found). Current status: Synonym of *Acipenser ruthenus* Linnaeus 1758. Acipenseridae.

Acipenser ruthenus var. *grisescens* Brandt [J. F.] 1853:320, Fig. 2 [Mélanges Biologiques, tirés du Bulletin physico-mathématique de l'Académie Impériale des Sciences de St. Pétersbourg v. 1; ref. [20902](#)] Nishni-Novgorod, Russia. No types known. Treated by Kottelat 1997:32 [ref. [22952](#)] from Brandt 1851 as infrasubspecific. Current status: Synonym of *Acipenser ruthenus* Linnaeus 1758. Acipenseridae.

Acipenser ruthenus var. *leucotica* Brandt [J. F.] 1853:320, Fig. 1 [Mélanges Biologiques, tirés du Bulletin physico-mathématique de l'Académie Impériale des Sciences de St. Pétersbourg v. 1; ref. [20902](#)] Nishnij-Novgorod, Russia. No types known. Treated by Kottelat 1997:32 [ref.

[22952](#)] as infrasubspecific from Brandt 1851, available as above. Current status: Uncertain synonym of *Acipenser ruthenus* Linnaeus 1758. Acipenseridae.

Acipenser (Sterletus) kankreni Duméril [A. H. A.] (ex Valenciennes) 1870:256 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Probably Russia. Holotype (unique): MNHN 0000-5173. Type catalog: Bertin 1940:253 [ref. [293](#)]. Current status: Synonym of *Acipenser ruthenus* Linnaeus 1758. Acipenseridae.

Acipenser (Sterletus) lovetzkyi Duméril [A. H. A.] 1870:254 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Russia. Syntypes: MNHN 0000-5171 (2). Type catalog: Bertin 1940:253 [ref. [293](#)]. Current status: Synonym of *Acipenser ruthenus* Linnaeus 1758. Acipenseridae.

Sterledus sibiricus ruthenus var. Dybowski [B. N.] 1874:394 [Verhandlungen der K.-K. zoologisch-botanischen Gesellschaft in Wien v. 24 (no. 3-4); ref. [1172](#)] Middle and lower Angara River, Siberia, Russia. Syntypes: whereabouts unknown. Current status: Synonym of *Acipenser ruthenus* Linnaeus 1758. Acipenseridae.

Acipenser ruthenus rutzskyi Johansen [B. G.] 1946:171 [Trudy Tomskogo Gosudarstvennogo Universiteta v. 97; ref. [19607](#)] Upper Ob River, Siberia, Russia. Syntypes: (21). Current status: Synonym of *Acipenser ruthenus* Linnaeus 1758. Acipenseridae.

***Acipenser schrenckii* Brandt 1869**

Acipenser schrenckii Brandt [J. F.] 1869:115 [Mélanges biologiques v. 7; ref. [618](#)] Amur River and its main tributaries, Russia. Syntypes: whereabouts unknown. For remarks on systematics see Kottelat 2006:15 [ref. [28831](#)]. **Current status:** Valid as *Acipenser schrenckii* Brandt 1869. Acipenseridae. **Distribution:** Northwestern Pacific: Amur River basin, Sea of Japan and Sea of Okhotsk (China, Russia and Mongolia). Habitat: freshwater, brackish, marine.

Acipenser multiscutatus Tanaka [S.] 1908:21, Pl. 2 (fig. 1) [Journal of the College of Science. Imperial University, Tokyo v. 23 (art. 7); ref. [6032](#)] 7 miles off Ukedohama, Iwaki Province, Japan. Holotype: ZUMT 955 (stuffed, lost). Paratypes: ZUMT (2, skins, lost). Type catalog: Aizawa et al. 2022:215 [ref. [39648](#)]. Current status: Synonym of *Acipenser schrenckii* Brandt 1869. Acipenseridae.

***Acipenser sinensis* Gray 1835**

Acipenser sinensis Gray [J. E.] 1835:122 [Proceedings of the Zoological Society of London 1834 (pt 2); ref. [18155](#)] China. Syntypes: BMNH 1851.12.27.267 (1). **Current status:** Valid as *Acipenser sinensis* Gray 1835. Acipenseridae. **Distribution:** Northwestern Pacific: Yangtze and Pearl River basins (China) to Sea of Japan (southern Korea, Japan). Habitat: freshwater, brackish, marine.

Acipenser kikuchii Jordan [D. S.] & Snyder [J. O.] 1901:302, Pl. 15 (figs. 1-2) [Journal of the College of Science. Imperial University, Tokyo v. 15 (pt 2); ref. [2506](#)] Misaki, Kanagawa Prefecture, Sagami Bay, Japan. Holotype (unique): ZUMT 946 (mounted). Type catalog: Aizawa et al. 2022:214 [ref. [39648](#)]. Current status: Synonym of *Acipenser sinensis* Gray 1835. Acipenseridae.

***Acipenser stellatus* Pallas 1771**

Acipenser stellatus Pallas [P. S.] 1771:460 [Reise durch verschiedene Provinzen des russischen Reiches; ref. [18509](#)] Ascending [northern] rivers from Caspian Sea (Russia). No types known. **Current status:** Valid as *Acipenser stellatus* Pallas 1771. Acipenseridae. **Distribution:** Eastern Atlantic; Mediterranean Sea; Black Sea; Caspian Sea. Habitat: freshwater, brackish, marine.

Acipenser seuruga GÜldenstädt [J. A. von] 1772:533 [Novi Commentarii Academiae Scientiarum Imperialis Petropolitanae v. 16 (for 1771); ref. [5066](#)] Caspian Sea. No types known. Also in Bonnaterre 1788:17 [ref. [4940](#)]. Current status: Synonym of *Acipenser stellatus* Pallas 1771. Acipenseridae.

Acipenser helops Pallas [P. S.] 1814:97 [Zoographia Rosso-Asiatica v. 3; ref. [3351](#)] Major rivers and seas of Russia. No types known. Current status: Synonym of *Acipenser stellatus* Pallas 1771. Acipenseridae.

Acipenser ratzeburgii Brandt [J. F.] in Brandt & Ratzeburg 1833:351, 352, Pl. 1a (fig. 3) [Medizinische Zoologie v. 2; ref. [619](#)] Caspian Sea at mouth of Emba River. Holotype: ZIN 11760. Current status: Synonym of *Acipenser stellatus* Pallas 1771. Acipenseridae.

Acipenser stellatus donensis Lovetsky [A.] 1834:263, Pl. 19 (fig. 1) [Nouveaux mémoires de la Société impériale des naturalistes de Moscou v. 3; ref. [18085](#)] Don River, Russia. Current status: Synonym of *Acipenser stellatus* Pallas 1771. Acipenseridae.

Acipenser stellatus danubialis Brusina [S.] 1902:59, Fig. 3 [Rad Jugoslavenske Akademije znanosti i umjetnosti. Zagrebu. No. 149; ref. [17292](#)] Danube River. Syntypes: whereabouts unknown. Current status: Synonym of *Acipenser stellatus* Pallas 1771. Acipenseridae.

Acipenser stellatus illyricus Brusina [S.] 1902:60, Figs. 1-2 [Rad Jugoslavenske Akademije znanosti i umjetnosti. Zagrebu. No. 149; ref. [17292](#)] Zadar, Dalmatia, Croatia, Adriatic Sea (Mediterranean Sea). Syntypes: whereabouts unknown. Original not seen. Current status: Synonym of *Acipenser stellatus* Pallas 1771. Acipenseridae.

Acipenser stellatus ponticus Movchan [Yu. V.] 1970:41 [Vestnik Zoologii v. 1970 (no. 2); ref. [895](#)] Northwestern Black Sea, including Danube and Dneiper rivers. Syntypes: (many) whereabouts unknown. Current status: Synonym of *Acipenser stellatus* Pallas 1771. Acipenseridae.

***Acipenser sturio* Linnaeus 1758**

Acipenser sturio Linnaeus [C.] 1758:237 [Systema Naturae, Ed. X v. 1; ref. [2787](#)] Charente River at Saintes, France. Neotype: MNHN 1962-1295. Paralectotypes: BMNH 1853.11.12.210 (1); NRM 94 (1), 21711 (1). Type catalog: Fernholm & Wheeler 1983:209 [ref. [20707](#)]. Lectotype selected by Kottelat & Freyhof 2009:77 [ref. [30320](#)] as the specimen illustrated in Rondelet 1555:410; since that specimen is not in existence, Kottelat & Freyhof 2009:77 [ref. [30320](#)] then designate MNHN 1962-1295 as the neotype to maintain *sturio* as the species of western and southern European species. They mistakenly referred to the neotype as the holotype on p. 77. **Current status:** Valid as *Acipenser sturio* Linnaeus 1758. Acipenseridae. **Distribution:** Eastern Atlantic (currently only the Gironde Estuary, France, and adjacent waters); Mediterranean Sea; Black Sea; Sea of Marmara. Re-introduced in Germany. Habitat: freshwater, brackish, marine.

Sturio vulgaris Rafinesque [C. S.] 1810:41 [Indice d'ittologia siciliana; ref. [3595](#)] Sicily, Italy, Mediterranean Sea. Also in Brusina 1902:54 [ref. [17292](#)]. Unneeded new name for (and objective synonym of) *Acipenser sturio* Linnaeus 1758. Replacement Name. Current status: Synonym of *Acipenser sturio* Linnaeus 1758. Acipenseridae.

Accipenser atlanticus Rafinesque [C. S.] 1820:246 [Western Review and Miscellaneous Magazine: a monthly publ., devoted to literature and science, Lexington, KY v. 3 (no. 4); ref. [5088](#)] U.S.A. Also in Rafinesque 1820:79 [ref. [3592](#)]. Based on *Acipenser sturio* of Mitchill 1815:461 [ref. [13292](#)] (not of Linnaeus). Correct spelling of genus is *Acipenser*. Current status: Synonym of *Acipenser sturio* Linnaeus 1758. Acipenseridae.

Acipenser latirostris Parnell [R.] 1831-37:405, Pl. 39 [Memoirs of the Wernerian Natural History Society, Edinburgh v. 7 (art. 2) (for 1831-1837); ref. [18519](#)] Firth of Forth, Scotland. No types known. Current status: Synonym of *Acipenser sturio* Linnaeus 1758. Acipenseridae.

Acipenser vulgaris Billberg [G. J.] 1833:52 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] Charente River at Saintes, France. Neotype: MNHN 1962-1295. Unnecessary replacement name for "*Hurio* Linn." [sic, should read *Acipenser sturio* Linnaeus 1758]; see Kullander 2016:113 [ref. [34147](#)]. Current status: Synonym of *Acipenser sturio* Linnaeus 1758. Acipenseridae.

Acipenser attilus Gray [J. E.] 1851:13 [List of the specimens of fish in the collection of the British Museum.; ref. [4939](#)] As a replacement name for *Acipenser sturio* Linnaeus 1758 as

treated by Kottelat 1997:33 [ref. [22952](#)]. Replacement Name. Current status: Synonym of *Acipenser sturio* Linnaeus 1758. Acipenseridae.

Acipenser sturio Malm [A. W.] 1861:618 [Förhandlingar vid de Skandinaviske Naturforskarnes. v. 8 (for 1860); ref. [17594](#)] Göta Elf near Göteborg, Sweden. Holotype (unique): NMG. Current status: Synonym of *Acipenser sturio* Linnaeus 1758. Acipenseridae.

Acipenser (Huso) ducissae Duméril [A. H. A.] 1870:98, Pl. 20 (figs. 5, 5a) [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Russia. Holotype (unique): MNHN 0000-4634. Type catalog: Bertin 1940:250 [ref. [293](#)]. Current status: Synonym of *Acipenser sturio* Linnaeus 1758. Acipenseridae.

Acipenser (Huso) fitzingerii Duméril [A. H. A.] (ex Valenciennes) 1870:97, Pl. 20 (figs. 4, 4a) [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Russia. Holotype (unique): MNHN 0000-4638. Type catalog: Bertin 1940:250 [ref. [293](#)]. Current status: Synonym of *Acipenser sturio* Linnaeus 1758. Acipenseridae.

Acipenser laevis Duméril [A. H. A.] (ex Valenciennes) 1870:188 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Elbe River, Germany; River Gironde, Bordeaux, France. Syntypes: MNHN 0000-5158 (1) Elbe River, MNHN 0000-5159 (1) River Gironde. Type catalog: Bertin 1940:253 [ref. [293](#)]. Current status: Synonym of *Acipenser sturio* Linnaeus 1758. Acipenseridae.

Acipenser (Huso) nehelae Duméril [A. H. A.] 1870:100, Pl. 20 (figs. 6, 6a) [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Russia. Holotype (unique): MNHN 0000-4637. Type catalog: Bertin 1940:250 [ref. [293](#)]. Current status: Synonym of *Acipenser sturio* Linnaeus 1758. Acipenseridae.

Acipenser (Huso) podapos Duméril [A. H. A.] 1870:102 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Locality unknown [Europe]. Syntypes: MNHN 0000-4636 (2). Type catalog: Bertin 1940:250 [ref. [293](#)]. Current status: Synonym of *Acipenser sturio* Linnaeus 1758. Acipenseridae.

Acipenser (Huso) valenciennii Duméril [A. H. A.] 1870:180 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Questionably Seine River; Sables d'Olonne, Vendée. Syntypes: MNHN 0000-3115 (1, dry) Seine R.; MNHN 0000-3573 (1, dry) Sables d'Olonne. Type catalog: Bertin 1940:252-253 [ref. [293](#)]. Current status: Synonym of *Acipenser sturio* Linnaeus 1758. Acipenseridae.

Acipenser yarrellii Duméril [A. H. A.] 1867:164 [Nouvelles Archives du Muséum d'Histoire Naturelle, Paris v. 3; ref. [14072](#)] Seine River mouth, France. Syntypes: BMNH (2), MNHN 0000-3108 (1, dry). Type catalog: Bertin 1940:249 [ref. [293](#)] with MNHN 3108 as holotype. Also appeared as *Acipenser (Antaceus) yarrellii* in Duméril 1870:215 [ref. [1147](#)]. Current status: Synonym of *Acipenser sturio* Linnaeus 1758. Acipenseridae.

***Acipenser transmontanus* Richardson 1836**

Acipenser transmontanus Richardson [J.] (ex Gairdner) 1836:278, Pl. 97 (fig. 2) [Fauna Boreali-Americana Part 3; ref. [3731](#)] Vancouver, Washington, U.S.A.; and Columbia River as high as Fort Colville. Syntypes: (2) whereabouts unknown. **Current status:** Valid as *Acipenser transmontanus* Richardson 1836. Acipenseridae. **Distribution:** Eastern Pacific: Gulf of Alaska to Monterey, California (U.S.A.) and to Pacific coast of northern Baja California (Mexico); introduced in Lower Colorado River, Arizona, U.S.A., Chile, and Italy. Habitat: freshwater, brackish, marine.

Acipenser brachyrynchus Ayres [W. O.] 1854:2 [The Pacific [newspaper] v. 3 and 4 (thru no. 6); ref. [157](#)] San Francisco Bay, California, U.S.A. Possible syntypes: BMNH 1863.10.9.37 [from Ayres] (1). Appeared first as above on 1 Dec.; then in Ayres 1854 (Dec. 25):15 [ref. [18923](#)]. Current status: Synonym of *Acipenser transmontanus* Richardson 1836. Acipenseridae.

Acipenser (Antaceus) ayresii Duméril [A. H. A.] 1867:171, Pls. 12 (figs. 1-1b), 16 (fig. 3) [Nouvelles Archives du Muséum d'Histoire Naturelle, Paris v. 3; ref. [14072](#)] San Francisco, California, U.S.A. Holotype (unique): whereabouts unknown. Also appeared in Duméril

1870:226, Pl. 18 (figs. 2, 2a-b) [ref. [1147](#)]. Current status: Synonym of *Acipenser transmontanus* Richardson 1836. Acipenseridae.

Acipenser (Antaceus) caryi Duméril [A. H. A.] 1867:169, Pl. 12 (figs. 2, 2a-b) [Nouvelles Archives du Muséum d'Histoire Naturelle, Paris v. 3; ref. [14072](#)] San Francisco, California, U.S.A. Holotype: MCZ 24034 (not found). Also in Duméril 1870: 224, Pl. 18 (figs. 1, 1a-b) [ref. [1147](#)]. Current status: Synonym of *Acipenser transmontanus* Richardson 1836. Acipenseridae.

Acipenser (Antaceus) putnami Duméril [A. H. A.] 1867:178, Pl. 13 (figs. 1, 1a-b) [Nouvelles Archives du Muséum d'Histoire Naturelle, Paris v. 3; ref. [14072](#)] San Francisco, California, U.S.A. Holotype (unique): MCZ (whereabouts unknown). Also appeared in Duméril 1870:243, Pl. 18 (figs. 2, 2a-b) [ref. [1147](#)]. Current status: Synonym of *Acipenser transmontanus* Richardson 1836. Acipenseridae.

Genus **Huso** Brandt [J. F.] & Ratzeburg [J. T. C.] 1833:3, 349 [Medizinische Zoologie v. 2; ref. [619](#)] Masc. *Acipenser huso* Linnaeus 1758. Type by absolute tautonymy. As *Husones*, a group within *Acipenser*. Predated by *Antacea* Bory de Saint Vincent 1822, but *Huso* Brandt & Ratzeburg 1833 is in prevailing usage. **Current status:** Valid as *Huso* Brandt & Ratzeburg 1833. Acipenseridae.

Antacea Bory de Saint-Vincent [J. B. G. M.] 1822:410 [Dictionnaire Classique d'Histoire Naturelle; ref. [3853](#)] Fem. *Acipenser huso* Linnaeus 1758. Type by monotypy. As *Antacei*, a group within *Acipenser* as used by Heckel & Kner 1858:346 [ref. [2078](#)]. Current status: Synonym of *Huso* Brandt & Ratzeburg 1833. Acipenseridae.

Ichthyocolla Garsault [F. A. P. de] 1764:Pl. 660 [Les figures des plantes et animaux d'usage en médecine Tome V. Animaux table; ref. [1570](#)] Fem. *Acipenser huso* Linnaeus 1758. Text in 1765 on p. 399. Not available, appeared in synonymy of *Acipenser* Linnaeus 1758, misspelled *Accipenser*. Current status: Synonym of *Huso* Brandt & Ratzeburg 1833. Acipenseridae.

Huso dauricus (Georgi 1775)

Acipenser dauricus Georgi [J. G.] 1775:352 [Bemerkungen einer Reise im russischen Reich in 1772; ref. [18104](#)] Amur River; Argun; Schilka; and Onon rivers. No types known. **Current status:** Valid as *Huso dauricus* (Georgi 1775). Acipenseridae. **Distribution:** Northwestern Pacific: Sea of Okhotsk and Sea of Japan. Habitat: freshwater, brackish, marine.

Acipenser orientalis Pallas [P. S.] 1814:107 [Zoographia Rosso-Asiatica v. 3; ref. [3351](#)] Amur River, Schilkam and Argunum, along Pacific. No types known. •Synonym of *Acipenser dauricus* George 1775 -- (Parin et al. 2014:41 [ref. [33547](#)]). Current status: Synonym of *Huso dauricus* (Georgi 1775). Acipenseridae.

Acipenser mantschuricus Basilewsky [S.] 1855:235 [Nouveaux mémoires de la Société impériale des naturalistes de Moscou v. 10; ref. [200](#)] Amur River [China]. No types at ZIN. Current status: Synonym of *Huso dauricus* (Georgi 1775). Acipenseridae.

Huso huso (Linnaeus 1758)

Acipenser huso Linnaeus [C.] 1758:238 [Systema Naturae, Ed. X v. 1; ref. [2787](#)] Danube and the rivers of Russia. No types known. **Current status:** Valid as *Huso huso* (Linnaeus 1758). Acipenseridae. **Distribution:** Eastern Atlantic; Mediterranean Sea; Sea of Marmara; Black Sea; Sea of Azov; Caspian Sea. Introduced elsewhere. Habitat: freshwater, brackish, marine.

Acipenser albula Forster [J. R.] 1767:354 [Philosophical Transactions of the Royal Society of London v. 57 (art. 33); ref. [18088](#)] Volga River, Russia. No types known. Not available, as named alternative for *Acipenser beluga* Forster 1767. See *Acipenser beluga* Forster 1767. Current status: Synonym of *Huso huso* (Linnaeus 1758). Acipenseridae.

Acipenser beluga Forster [J. R.] 1767:354 [Philosophical Transactions of the Royal Society of London v. 57 (art. 33); ref. [18088](#)] Volga River, Russia. No types known. Not available, as

named alternative as *Acipenser albula* or *A. beluga*. See *Acipenser albula* Forster 1767.
Current status: Synonym of *Huso huso* (Linnaeus 1758). Acipenseridae.

Acipenser schypa Gmelin [J. F.] 1789:1484 [Caroli a Linné ... Systema Naturae per regna tria naturae v. 1 (pt 3); ref. [18139](#)] Turkey, Bosphore or Sea of Marmara (Mediterranean Sea).
Neotype: NRM 8946. Neotype designated by Kottelat 1997:34 [ref. [22952](#)]. Based in part on *Acipenser schypa* Gmelin 1774:516 [ref. [5066](#)], and on *Acipenser kostera* of Gmelin 1774:238 [ref. 18140, v. 3]. Objectively invalid; preoccupied by *Acipenser schypa* Bonnaterre 1788. 1°Homonym. Current status: Synonym of *Huso huso* (Linnaeus 1758). Acipenseridae.

Acipenser shyp Forster [J. R.] 1767:353 [Philosophical Transactions of the Royal Society of London v. 57 (art. 33); ref. [18088](#)] Turkey, Bosphore or Sea of Marmara (Mediterranean Sea).
Neotype: NRM 8946. Originally described from Volga River, Russia. Neotype designated by Kottelat 1997:34 [ref. [22952](#)]. Current status: Synonym of *Huso huso* (Linnaeus 1758).
Acipenseridae.

Acipenser ichthyocola Billberg [G. J.] 1833:52 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] Danube and the rivers of Russia. No types known. Unnecessary replacement name for "*Huso* Linn." [should read *Acipenser huso* Linnaeus 1758]; see Kullander 2016:113 [ref. [34147](#)]. Replacement Name. Current status: Synonym of *Huso huso* (Linnaeus 1758). Acipenseridae.

Acipenser schipa Lovetsky [A.] 1834:260, Pl. 17 (figs. 3-4) [Nouveaux mémoires de la Société impériale des naturalistes de Moscou v. 3; ref. [18085](#)] Possibly the same as *Acipenser schypa* Gmelin 1789. Current status: Uncertain synonym of *Huso huso* (Linnaeus 1758).
Acipenseridae.

Huso ichthyocola Bonaparte [C. L.] 1846:22 [Atti della Settima Adunanza degli Scienziati Italiani Sesta Riunione, Milano 7a Adunanza, Napoli, Part 2; ref. [519](#)] Unneeded new name for *Acipenser huso* Linnaeus 1758. Current status: Synonym of *Huso huso* (Linnaeus 1758).
Acipenseridae.

Acipenser vallisnerii Molin [R.] 1853:366, 371 [Rivista Periodica dei Lavori della I. R. Accademia di Scienze, Lettere ed Arti di Padova v. 1; ref. [17782](#)] Po River, Italy. Current status: Synonym of *Huso huso* (Linnaeus 1758). Acipenseridae.

Acipenser maeoticus Sal'nikov [N. I.] & Malyatskii [S. M.] 1934:44 [Trudy Nauchnoi rybokhozyaistvennoi biologicheskoi stantii Gruzii [Travaux de la Station piscicole et biologique de Géorgie] v. 1 (no. 1); ref. [21745](#)] Sea of Azov. No types known. Current status: Synonym of *Huso huso* (Linnaeus 1758). Acipenseridae.

Huso huso ponticus Sal'nikov [N. I.] & Malyatskii [S. M.] 1934:44 [Trudy Nauchnoi rybokhozyaistvennoi biologicheskoi stantii Gruzii [Travaux de la Station piscicole et biologique de Géorgie] v. 1 (no. 1); ref. [21745](#)] Black Sea. No types known. Current status: Synonym of *Huso huso* (Linnaeus 1758). Acipenseridae.

Huso huso caspicus Babushkin [N. Ya.] 1942:131 [Izvestiia Azerbaidzhankoi nauchno-issledovatel'skpi rybokhoziaistvennoi stantsii. Baku, Russia. No. 7; ref. [21746](#)] Caspian Sea. No types known. •Synonym of *Huso huso* (Linnaeus 1758), but a valid subspecies as described -- (Lelek 1987:55 [ref. [22962](#)], Esmaili et al. 2018:7 [ref. [36089](#)]). Current status: Synonym of *Huso huso* (Linnaeus 1758). Acipenseridae.

Huso huso orientalis Lelek [A.] 1987:55 [The freshwater fishes of Europe. Threatened fishes of Europe v. 9; ref. [22962](#)] Black Sea. Validates a name that first appeared as an infrasubspecific name; see *Huso huso ponticus natio orientalis*. But subjectively invalid; secondarily preoccupied in *Huso* by *Acipenser orientalis* Pallas 1814. Current status: Synonym of *Huso huso* (Linnaeus 1758). Acipenseridae.

Genus ***Pseudoscaphirhynchus*** Nikolskii [A. M.] 1900:257 [Ezhegodnik, Zoologicheskogo Muzeya, Sankt-Petersburg v. 5; ref. [3202](#)] Masc. *Pseudoscaphirhynchus rossikowi* Nikolskii 1900. Type by

monotypy. On Official List (Opinion 971). **Current status:** Valid as *Pseudoscaphirhynchus* Nikolskii 1900. Acipenseridae.

Hemiscaphirhynchus (subgenus of *Pseudoscaphirhynchus*) Berg [L. S.] 1911:309, 310 [Faune de la Russie et des pays limitrophes v. 1; ref. [272](#)] Masc. *Scaphirhynchus kaufmanni* Kessler 1877. Type by original designation. Current status: Synonym of *Pseudoscaphirhynchus* Nikolskii 1900. Acipenseridae.

Kessleria Jordan [D. S.] (ex Bogdanov) 1905:253 [A guide to the study of fishes v. 2; ref. [31955](#)] Fem. *Scaphirhynchus fedtschenkoi* Kessler 1872. Type by monotypy. Based on *Kessleria* of Bogdanov 1882:Caption (fig. 3) [ref. [499](#)], which is not available, unpublished; see Fricke & Zhukov 2021:2 [ref. [38903](#)]. Preoccupied by *Kessleria* Nowicki 1864 in Lepidoptera. Not replaced; see Myers 1940:35 [ref. [3118](#)]. 1°Homonym. Current status: Synonym of *Pseudoscaphirhynchus* Nikolskii 1900. Acipenseridae.

Pseudoscaphirhynchus fedtschenkoi (Kessler 1872)

Scaphirhynchus fedtschenkoi Kessler [K. F.] 1872:70 [26], Pl. 12 (figs. 36-41) [Izvestiia Imperatorskago Obschestva Liubitelei Estestvoznaniia, Antropologii i Etnografii v. 10 (no. 1); ref. [14134](#)] Syr Darya River near Chinaz, Kazakhstan. Syntypes: (12) ZMMU P-640 (2); none found at ZIN. Type catalog: Svetovidova 1978:256 [ref. [9011](#)], Vasil'eva et al. 2001:15 [ref. [25714](#)]. On p. 26 of separate. **Current status:** Valid as *Pseudoscaphirhynchus fedtschenkoi* (Kessler 1872). Acipenseridae. **Distribution:** Central Asia. Habitat: freshwater, brackish.

Pseudoscaphirhynchus hermanni (Kessler 1877)

Scaphirhynchus hermanni Kessler [K. F.] (ex Severtzov) 1877:190, Pl. 8 (fig. 25, 25a-b) [The Aralo-Caspian Expedition; ref. [2597](#)] Amu Darya River, Turkmenistan or Uzbekistan. Syntypes: ZIN 3690 (4). **Current status:** Valid as *Pseudoscaphirhynchus hermanni* (Kessler 1877). Acipenseridae. **Distribution:** Central Asia: endemic to Amu Darya River system (Afghanistan, Turkmenistan, Uzbekistan). Habitat: freshwater, brackish.

Pseudoscaphirhynchus rossikowi Nikolskii [A. M.] 1900:258 [Ezhegodnik, Zoologicheskogo Muzeya, Sankt-Petersburg v. 5; ref. [3202](#)] Lower Amu Darya, Uzbekistan. Holotype (unique): ZIN 11526. Current status: Synonym of *Pseudoscaphirhynchus hermanni* (Kessler 1877). Acipenseridae.

Pseudoscaphirhynchus kaufmanni (Kessler 1877)

Scaphirhynchus kaufmanni Kessler [K. F.] (ex Bogdanov) 1877:194 [The Aralo-Caspian Expedition; ref. [2597](#)] Lower Amu-Darya River, Uzbekistan. Syntypes: SPSU uncat. (1), ZIN 2707 (1, lost), ZMMU P-1456 (1). Type catalog: Svetovidova 1978:256 [ref. [9011](#)], Vasil'eva et al. 2001:15 [ref. [25714](#)], Zhidkov et al. 2019:402 [ref. [37215](#)]. Appeared first in Bogdanov 1874:XLVII [ref. [19624](#)] with no distinguishing features. **Current status:** Valid as *Pseudoscaphirhynchus kaufmanni* (Kessler 1877). Acipenseridae. **Distribution:** Central Asia: endemic to Amu Darya River system (Afghanistan, Turkmenistan, Uzbekistan). Habitat: freshwater, brackish.

Genus ***Scaphirhynchus*** Heckel [J. J.] 1836:71 [Annalen des Wiener Museums der Naturgeschichte v. 1; ref. [2062](#)] Masc. *Scaphirhynchus rafinesquii* Heckel 1836. Type by monotypy. Appeared twice (earliest not researched); as above and as Heckel in Müller 1836:77, footnote [ref. [3060](#)]. Several variant spellings and misprints. *Scaphirhynchops* Gill 1863 is an unneeded replacement, *Scaphirhynchus* not preoccupied. **Current status:** Valid as *Scaphirhynchus* Heckel 1836. Acipenseridae.

Parascaphirhynchus Forbes [S. A.] & Richardson [R. E.] 1905:38 [Bulletin of the Illinois State Laboratory of Natural History v. 7 (art. 4); ref. [1345](#)] Masc. *Parascaphirhynchus albus* Forbes &

Richardson 1905. Type by monotypy. Misspelled *Parascaphirhynchus* in Zoological Record for 1905. Current status: Synonym of *Scaphirhynchus* Heckel 1836. Acipenseridae.

Scaphyrhynchops Gill [T. N.] 1863:178 [Transactions of the American Philosophical Society (New Series) v. 12 (pt 1) (art. 1); ref. [1674](#)] Masc. *Accipenser platorynchus* Rafinesque 1820. Type by being a replacement name. Appeared as "*Scaphyrhynchops platyrhynchus*, Gill (*Scaphrhynchus rafinesquii*, Heckel.)." Apparently an unneeded replacement for *Scaphirhynchus* Heckel 1836 (not preoccupied by *Scaphorhynchus* Wied 1831 in Aves), but this is unclear from text (see also *Platygobio*, apparently not proposed as a replacement name in the same list). If a replacement name then type is *rafinesquii* Heckel. See Bailey & Cross 1954:174 [ref. [5358](#)] for variant spellings. Current status: Synonym of *Scaphirhynchus* Heckel 1836. Acipenseridae.

Scaphirhynchus albus (Forbes & Richardson 1905)

Parascaphirhynchus albus Forbes [S. A.] & Richardson [R. E.] 1905:38, Pls. 4, 5 (1), 6(1), 7(1) [Bulletin of the Illinois State Laboratory of Natural History v. 7 (art. 4); ref. [1345](#)] Mississippi River at or near Grafton, Jersey County, Illinois, U.S.A. Syntypes: (9) INHS 26944 (3 specimens, 2 heads). Type catalog: Smith & Bridges 1960:253 [ref. [21197](#)], Sabaj et al. 1997:260 [ref. [23225](#)]. **Current status:** Valid as *Scaphirhynchus albus* (Forbes & Richardson 1905). Acipenseridae. **Distribution:** North America: mostly main channels of Missouri and lower Mississippi rivers (U.S.A.). Habitat: freshwater.

Scaphirhynchus platorynchus (Rafinesque 1820)

Accipenser platorynchus Rafinesque [C. S.] 1820:247 [Western Review and Miscellaneous Magazine: a monthly publ., devoted to literature and science, Lexington, KY v. 3 (no. 4); ref. [5088](#)] Ohio, Wabash and Cumberland rivers, U.S.A. No types known. Described as belonging to subgenus *Sturio*, but listed as above. Also in Rafinesque 1820:80 [ref. [3592](#)]. Correct spelling of genus is *Accipenser*. **Current status:** Valid as *Scaphirhynchus platorynchus* (Rafinesque 1820). Acipenseridae. **Distribution:** North America: large rivers, United States. Habitat: freshwater.

Scaphirhynchus rafinesquii Heckel [J. J.] 1836:72, Pl. 8 [Annalen des Wiener Museums der Naturgeschichte v. 1; ref. [2062](#)] Ohio, Wabash, and Cumberland rivers, U.S.A. Syntypes: (3) NMW 63271 (2). Unneeded new name for *Accipenser platorynchus* Rafinesque 1820. Current status: Synonym of *Scaphirhynchus platorynchus* (Rafinesque 1820). Acipenseridae.

Scaphirhynchus mexicanus Giltay [L.] 1928:28, Figs. 1-2 [Annales de la Société Royale Zoologique de Belgique v. 59; ref. [15848](#)] Mexico. Holotype (unique): IRSNB 32 (mounted skin). Type catalog: Walschaerts 1987:7 [ref. [20755](#)]. Current status: Synonym of *Scaphirhynchus platorynchus* (Rafinesque 1820). Acipenseridae.

Scaphirhynchus suttkusi Williams & Clemmer 1991

Scaphirhynchus suttkusi Williams [J. D.] & Clemmer [G. H.] 1991:19, Figs. 1-2 [Alabama Museum of Natural History Bulletin No. 10; ref. [19118](#)] Overflow pool of Alabama River, just above mouth of Little River at Dixie Landing, Monroe County, Alabama, U.S.A. Holotype: TU 135000. Paratypes: (many) AU, UAIC, USNM 200617 (1), TU, UF 84888 [ex AU 25918] (1), UMMZ 218752-53 (1, 1). Plus additional material not designated as types. Type catalog: Bart & Taylor 1993:30 [ref. [20906](#)]. **Current status:** Valid as *Scaphirhynchus suttkusi* Williams & Clemmer 1991. Acipenseridae. **Distribution:** North America: Mississippi and Alabama (southeastern U.S.A.). Habitat: freshwater.

Family Acipenseridae – indeterminate names (presently not valid for CITES purposes):

Acipenser brandtii Günther [A.] 1870:336, 517 [Catalogue of the fishes in the British Museum v. 8; ref. [1995](#)] Black Sea; Caspian Sea. No types known. Based on *Acipenser schypa* (in part) of Brandt & Ratzeburg. •Based on a hybrid of *Huso huso* x *Acipenser nudiiventris* -- (Berg 1948:65 [ref. [12882](#)], Kottelat 1997:183 [ref. [22952](#)]). Hybrid. Acipenseridae.

Acipenser (Acipenser) cayennensis Duméril [A. H. A.] 1870:189 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Oyapock River and Cayenne, French Guiana. Holotype: MNHN 0000-3493 (dry). Type catalog: Bertin 1940:248-249 [ref. [293](#)]. Acipenseridae.

Acipenser chinensis Gray [J. E.] 1835:no page number, Pl. 98 (fig. 5) [Illustrations of Indian zoology; ref. [1878](#)] China. No types known. Published about 20 Feb. 1835. Acipenseridae.

Acipenser (Huso) gillii Duméril [A. H. A.] 1870:110, Pl. 15 (figs. 2, 2a-b) [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Holotype (unique): MCZ (whereabouts unknown). Acipenseridae.

Acipenser (Sterletus) helenae Duméril [A. H. A.] (ex Valenciennes) 1870:258 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] Russia. Syntypes: MNHN 0000-5176 (2). Type catalog: Bertin 1940:253 [ref. [293](#)]. •Hybrid between *Acipenser ruthenus* x *Acipenser gueldenstaedti* -- (Kottelat 1997:183 [ref. [22952](#)]). Hybrid. Current status: invalid. Acipenseridae.

Acipenser husoniformis Lovetsky [A.] 1834:258, Pl. 16 (fig. 1) [Nouveaux mémoires de la Société impériale des naturalistes de Moscou v. 3; ref. [18085](#)] Caspian Sea. Acipenseridae.

Acipenser kiangsinensis Dabry de Thiersant [P.] 1872:192, Pl. 50 (fig. 3) [La pisciculture et la pêche en Chine; ref. [12507](#)] Kiang-si, China. Acipenseridae.

Acipenser primigenius Chalikov [B. G.] 1944:47 [Zoologicheskii Zhurnal v. 23 (no. 1); ref. [13170](#)] Northern Caspian Sea. No types known. •Hybrid of *Acipenser ruthenus* x *Acipenser gueldenstaedti* -- (Berg 1948:77 [ref. [12882](#)], Kottelat 1997:183 [ref. [22952](#)], Çiçek et al. 2024:29 [ref. [40789](#)]). Hybrid. Current status: Synonym of *Acipenser*. Acipenseridae.

Acipenser schip Eichwald [C. E. von] 1841:172 [Fauna Caspio-Caucasia; ref. [1210](#)] Apparently not an original description, as *A. schip* Pall. = Schiph Pallas, Reis. Russ. Reich., I, 1771, 248, Ural River. Acipenseridae.

Acipenser sebae Duméril [A. H. A.] (ex Valenciennes) 1870:188 [Histoire naturelle des poissons ou ichthyologie générale v. 2; ref. [1147](#)] No locality. Holotype (unique): whereabouts unknown. Acipenseridae.

Class Actinopteri

- Order **Acipenseriformes**

- Family **Polyodontidae** Bonaparte 1835 (paddlefishes) (2 genera + 5 syn, 2 spp + 8 syn)

Genus **Polyodon** Lacepède [B. G. E.] 1797:49 [Bulletin des Sciences, par la Société Philomathique de Paris v. 1 (pt 2, no. 7); ref. [2707](#)] Masc. *Polyodon feuille* Lacepède 1797. Type by monotypy.

Current status: Valid as *Polyodon* Lacepède 1797. Polyodontidae.

Megarhinus Rafinesque [C. S.] 1820:251 [Western Review and Miscellaneous Magazine: a monthly publ., devoted to literature and science, Lexington, KY v. 3 (no. 4); ref. [5088](#)] Masc.

Megarhinus paradoxus Rafinesque 1820. Type by monotypy. Also in Rafinesque 1820:83 (Dec.) [ref. [3592](#)]. *Megarhinus paradoxus* mentioned in passing as "his" name for *Platirostra edentula* Lesueur 1818:227. Current status: Synonym of *Polyodon* Lacepède 1797. Polyodontidae.

Platirostra Lesueur [C. A.] 1818:227 [Journal of the Academy of Natural Sciences, Philadelphia v. 1 (pt 2); ref. [2735](#)] Fem. *Platirostra edentula* Lesueur 1818. Type by monotypy. *Planirostra*, *Planinostra*, and *Platyrostra* are misspellings. Current status: Synonym of *Polyodon* Lacepède 1797. Polyodontidae.

Polyodon Bloch [M. E.] & Schneider [J. G.] 1801:457 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] Masc. *Polyodon folium* Bloch & Schneider 1801. Type by monotypy. Current status: Synonym of *Polyodon* Lacepède 1797. Polyodontidae.

Proceros Rafinesque [C. S.] 1820:87 [Ichthyologia Ohiensis; ref. [3592](#)] Masc. *Proceros maculatus* Rafinesque 1820. Type by subsequent designation. Type designated by Jordan & Gilbert 1877:87 [ref. [4907](#)]. Description poor, second-hand; perhaps mythical. Usually regarded as a synonym of *Polyodon* Lacepède 1797. Current status: Synonym of *Polyodon* Lacepède 1797. Polyodontidae.

Spatularia Shaw [G.] 1804:362 [General zoology or systematic natural history; ref. [4015](#)] Fem. *Spatularia reticulata* Shaw 1804. Type by monotypy. Misspelled *Spathularia* by Billberg 1833:52 [ref. [34146](#)]; see Kullander 2016:109 [ref. [34147](#)]. Current status: Synonym of *Polyodon* Lacepède 1797. Polyodontidae.

Polyodon spathula (Walbaum 1792)

Squalus spathula Walbaum [J. J.] 1792:522 [Petri Artedi sueci genera piscium Part 3; ref. [4572](#)] Louisiana, the Mississippi River, U.S.A. No types known. Based on *Spathule* Maudit, J. Chim. H. Nat. Paris, 4, 1774: 384, Pl. 2. **Current status:** Valid as *Polyodon spathula* (Walbaum 1792). Polyodontidae. **Distribution:** North America; introduced elsewhere. Habitat: freshwater.

Polyodon feuille Lacepède [B. G. E.] 1797:49 [Bulletin des Sciences, par la Société Philomathique de Paris v. 1 (pt 2, no. 7); ref. [2707](#)] No locality. Holotype (unique): MNHN 0000-5177 (poor condition). Type catalog: Bertin 1940:248 [ref. [293](#)]. Also appeared in Lacepède 1798:402, Pl. 12 (fig. 3) [ref. [2708](#)]. Current status: Synonym of *Polyodon spathula* (Walbaum 1792). Polyodontidae. Habitat: freshwater.

Polyodon folium Bloch [M. E.] & Schneider [J. G.] 1801:457, Pl. 62 (fig. 1) [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] Mississippi River, American Louisiana., U.S.A. Unneeded substitute for *Polyodon feuille* of Lacepède 1798:402 [ref. [2707](#)]. Current status: Synonym of *Polyodon spathula* (Walbaum 1792). Polyodontidae. Habitat: freshwater.

Spatularia reticulata Shaw [G.] 1804:362, Pl. 156 [General zoology or systematic natural history; ref. [4015](#)] Probably Indian Seas. Based on "Polyodon feuille" of Lacepède and a specimen at BMNH. Current status: Synonym of *Polyodon spathula* (Walbaum 1792). Polyodontidae.

Platirostra edentula Lesueur [C. A.] 1818:228 [Journal of the Academy of Natural Sciences, Philadelphia v. 1 (pt 2); ref. [2735](#)] Ohio River, U.S.A. Syntypes: ANSP (1), Peale's Museum (1) whereabouts unknown. Current status: Synonym of *Polyodon spathula* (Walbaum 1792). Polyodontidae. Habitat: freshwater.

Accipenser lagenarius Rafinesque [C. S.] 1820:86 [Ichthyologia Ohiensis; ref. [3592](#)] Ohio, U.S.A. No types known. Current status: Synonym of *Polyodon spathula* (Walbaum 1792). Polyodontidae. Habitat: freshwater.

Proceros maculatus Rafinesque [C. S.] 1820:87 [Ichthyologia Ohiensis; ref. [3592](#)] St. Genevieve, Missouri, U.S.A. No types known. Current status: Synonym of *Polyodon spathula* (Walbaum 1792). Polyodontidae. Habitat: freshwater.

Proceros vittatus Rafinesque [C. S.] 1820:87 [Ichthyologia Ohiensis; ref. [3592](#)] Lake Ontario, North America. No types known. Current status: Synonym of *Polyodon spathula* (Walbaum 1792). Polyodontidae. Habitat: freshwater.

Genus ***Psephurus*** Günther [A.] 1873:250 [Annals and Magazine of Natural History (Series 4) v. 12 (no. 69) (art. 31); ref. [2004](#)] Masc. *Polyodon gladius* Martens 1862. Type by monotypy. **Current status:** Valid as *Psephurus* Günther 1873. Polyodontidae.

Psephurus gladius (Martens 1862)

Polyodon gladius Martens [E. von] 1862:476 [Monatsberichte der Königlichen Preussischen Akademie der Wissenschaften zu Berlin 1861 (pt. 1) (for 2 May 1861); ref. [17603](#)] Chang Jiang

[Yangtze River], China. No types known. **Current status:** Valid as *Psephurus gladius* (Martens 1862). Polyodontidae. **Distribution:** Yangtze River basin, China. Habitat: freshwater.

Spatularia (Polyodon) angustifolium Kaup [J. J.] 1862:278 [Archiv für Naturgeschichte v. 28 (pt 1); ref. [18375](#)] Japanese Sea. Current status: Synonym of *Psephurus gladius* (Martens 1862). Polyodontidae. Habitat: freshwater.

- Class **Actinopteri**
 - Order **Acanthuriformes** (was part of Perciformes)
 - Family **Pomacanthidae** Jordan & Evermann 1898 (angelfishes)

Genus **Holacanthus** Lacepède [B. G. E.] 1802:525 [Histoire naturelle des poissons (Lacepède) v. 4; ref. [4929](#)] Masc. *Chaetodon tricolor* Bloch 1795. Type by subsequent designation. Type designated by Desmarest 1856:227 [ref. [17401](#)] -- see Whitley 1939:223 [ref. [25866](#)] but Whitley has wrong date for Desmarest, also by Bleeker 1876:307-308 [ref. [448](#)]. *Holacantha* Rafinesque 1815:83 [ref. [3584](#)] and *Holocanthus* Gray 1831:35 (not investigated) are apparently incorrect subsequent spellings.

Current status: Valid as *Holacanthus* Lacepède 1802. Pomacanthidae.

Angelichthys Jordan [D. S.] & Evermann [B. W.] 1896:420 [United States Commission of Fish and Fisheries, Report of the Commissioner v. 21 (for 1895) Appendix 5; ref. [2442](#)] Masc. *Chaetodon ciliaris* Linnaeus 1758. Type by original designation. Current status: Synonym of *Holacanthus* Lacepède 1802. Pomacanthidae.

Holacanthus africanus Cadenat 1951

Holacanthus africanus Cadenat [J.] 1951:239, Fig. 175 [Initiations Africaines. III. Poissons de mer du Sénégal; ref. [12676](#)] Gorée, Senegal. Syntypes: (many) MNHN 1961-0958 (1). Type catalog: Bauchot 1963:140 [ref. [20718](#)] but wrongly as holotype and paratypes. **Current status:** Valid as *Holacanthus africanus* Cadenat 1951. Pomacanthidae. **Distribution:** Eastern Atlantic: Senegal south to central Angola, including Cape Verde Islands, and São Tomé and Príncipe; straying into southwestern Mediterranean Sea. Habitat: marine.

Holacanthus bermudensis Goode 1876

Holacanthus ciliaris var. *bermudensis* Goode [G. B.] 1876:43 [Bulletin of the United States National Museum [v. 1] No. 5; ref. [1832](#)] Key West, Florida, U.S.A. Neotype: CAS-SU 363. Original syntypes (USNM 154852 [3], Bermuda) were set aside and replaced by a neotype (SU 363; the holotype of *Angelichthys isabelita* Jordan & Rutter 1898), and the name *bermudensis* was placed on the Official List of Specific Names in Zoology (ICZN, Opinion 2003). Previously treated as *Angelichthys bermudensis* (Goode 1876) -- (Condé & Terver 1976:1 [ref. [37212](#)]).

Current status: Valid as *Holacanthus bermudensis* Goode 1876. Pomacanthidae.

Distribution: Western Atlantic: including Gulf of Mexico and Caribbean Sea. Habitat: marine.

Angelichthys isabelita Jordan [D. S.] & Rutter [C. L.] in Jordan & Evermann 1898:1685 [Bulletin of the United States National Museum No. 47; ref. [2444](#)] Key West, Florida, U.S.A. Holotype (unique): CAS-SU 363. Type catalog: Böhlke 1953:80 [ref. [12291](#)]. Appeared as name only in Jordan & Evermann 1896:420 [ref. [2442](#)]. The holotype of *Angelichthys isabelita* Jordan & Rutter 1898 was made the neotype of *Holacanthus ciliaris bermudensis* Goode, 1876, thus making the former a junior objective synonym of the latter, and the name *Angelichthys isabelita* was placed on the Official List of Rejected and Invalid Specific Names in Zoology (ICZN, Opinion 2003). Suppressed. Current status: Synonym of *Holacanthus bermudensis* Goode 1876. Pomacanthidae.

Angelichthys townsendi Nichols [J. T.] & Mowbray [L. L.] 1914:581 [Bulletin of the American Museum of Natural History v. 33 (art. 37); ref. [14162](#)] Key West, Florida, U.S.A. Holotype (unique): AMNH 4751. Current status: Synonym of *Holacanthus bermudensis* Goode 1876. Pomacanthidae.

Holacanthus ciliaris (Linnaeus 1758)

Chaetodon ciliaris Linnaeus [C.] 1758:276 [Systema Naturae, Ed. X v. 1; ref. [2787](#)] In Indiis' (should be western Atlantic). Syntypes: BMNH 1853.11.12.65 [Gronovius coll.] (1, skin), NRM 56 (1). Type catalog: Wheeler 1958:224 [ref. [13434](#)], Fernholm & Wheeler 1983:251-252 [ref. [20707](#)]. Based on the 'Chaetodon griseus fasciis quatuor fuscis' of Linnaeus 1754:62, pl. 33, fig.

1 [ref. [31115](#)]; the 'Chaetodon macrolepidotus, cauda subrotundata, aculeis utrinque duobus in operculis, ...' of Gronow 1756:26 [ref. [20783](#)], which was based on the 'Acarauna majore pinnis cornutis' of Willughby 1686:Pl. O3, fig. 1 [ref. [30164](#)]; and the 'Chaetodon saxatilis ?' of Osbeck 1757:273 [ref. [3311](#)]. **Current status:** Valid as *Holacanthus ciliaris* (Linnaeus 1758).

Pomacanthidae. Distribution: Western Atlantic: Florida (U.S.A.) and Bermuda south to southern Brazil, including Gulf of Mexico, Caribbean Sea and Saint Paul's Rocks; introduced in Adriatic Sea (Mediterranean Sea). IUCN (2010): Least Concern. Habitat: marine.

Chaetodon squamulosus Shaw [G.] in Shaw & Nodder 1796:no page number, Pl. 275 [The Naturalist's Miscellany; ref. [4013](#)] Coasts of America and West Indies. No types known. Current status: Synonym of *Holacanthus ciliaris* (Linnaeus 1758). Pomacanthidae.

Chaetodon parrae Bloch [M. E.] & Schneider [J. G.] 1801:235 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] Locality not stated [Havana, Cuba]. No types known. Based on the 'Isabelita' of Parra 1787:10, Pl. 7 (fig. 1) [ref. [6840](#)]. Current status: Synonym of *Holacanthus ciliaris* (Linnaeus 1758). Pomacanthidae.

Chaetodon catesbeii Shaw [G.] 1803:325 [General zoology or systematic natural history v. 4; ref. [4014](#)] Carolinas and Bahamas. No types known. On Catesby v. 2, pl. 31. *Chaetodon catesbaei* Cuvier 1816:336 (footnote 1) [ref. [993](#)] may be independent, but is based on same Catesby figure. Current status: Synonym of *Holacanthus ciliaris* (Linnaeus 1758). Pomacanthidae.

Holacanthus coronatus Desmarest [A. G.] 1823:204 [44], Pl. 3 (fig. 3) of separate [Mémoires de la Société linnéenne de Paris v. 2; ref. [1120](#)] Cuba. On p. 44 of separate, unnumbered Pl. after p. 48. Current status: Synonym of *Holacanthus ciliaris* (Linnaeus 1758). Pomacanthidae.

Chaetodon aculeatus Gronow [L. T.] in Gray 1854:72 [Catalogue of fish collected and described by Laurence Theodore Gronow; ref. [1911](#)] "Curassaviam in Oceano Americano". Syntypes: BMNH 1853.11.12.64 [Gronovius coll.] (1, skin), 1853.11.12.65 (1, skin). Type catalog: Wheeler 1958:224 [ref. [13434](#)]. Current status: Synonym of *Holacanthus ciliaris* (Linnaeus 1758). Pomacanthidae.

Holacanthus formosus Castelnau [F. L.] 1855:19, Pl. 11 (fig. 2) [Animaux nouveaux or rares v. 2; ref. [766](#)] Bahia, Brazil. Syntypes: MNHN A-0601 (2). Type catalog: Bauchot 1963:142 [ref. [20718](#)]. Current status: Synonym of *Holacanthus ciliaris* (Linnaeus 1758). Pomacanthidae.

Holacanthus iodocus Jordan [D. S.] & Rutter [C. L.] in Gilbert 1897:445 [Proceedings of the United States National Museum v. 19 (no. 1115); ref. [1629](#)] Galápagos Islands [?]. Holotype (unique): USNM 47747. Current status: Synonym of *Holacanthus ciliaris* (Linnaeus 1758). Pomacanthidae.

Holacanthus lunatus Blosser [C. B.] 1909:299, Pl. 12 (fig. 1) [Annals of the Carnegie Museum v. 6 (no. 1) (art. 5); ref. [14363](#)] St. Croix Island, Virgin Islands, West Indies. Holotype (unique): FMNH 52831 [ex CM 1235]. Type catalog: Henn 1928:93 [ref. [12305](#)], Ibarra & Stewart 1987:46 [ref. [12367](#)]. Original genus correctly as *Holacanthus*. Current status: Synonym of *Holacanthus ciliaris* (Linnaeus 1758). Pomacanthidae.

Holacanthus clarionensis Gilbert [C. H.] 1890:72 [Proceedings of the United States National Museum v. 13 (no. 797); ref. [1623](#)] Clarion, Socorro and San Benedicto Islands, Revillagigedo Islands, off western Mexico. Syntypes: CAS-SU 1986 (2) Socorro, 1987 (1) Clarion; ?? BMNH 1898.10.29.45-46 (2) Clarion. Type catalog: Böhlke 1953:81 [ref. [12291](#)]. **Current status:** Valid as *Holacanthus clarionensis* Gilbert 1890. Pomacanthidae. Distribution: Eastern Pacific: southern tip of Baja California Sur (Mexico), Guadalupe Island (Mexico), Revillagigedo Islands (Mexico). Habitat: marine.

Holacanthus limbaughi Baldwin 1963

Holacanthus limbaughi Baldwin [W. J.] 1963:3, Figs. 1-2 [Contributions in Science (Los Angeles) No. 74; ref. [4010](#)] Northwestern shore of Clipperton Island, eastern Pacific, 10°18'N, 109°13'W. Holotype: USNM 178998. Paratypes: LACM 3307-09 (1, 1, 1); SIO 15-1822 (3) (ex

UCLA W58-287), 59-3 (2) (ex UCLA W56-236), 59-9 (1) (ex UCLA W58-289). **Current status:** Valid as *Holacanthus limbaughi* Baldwin 1963. Pomacanthidae. **Distribution:** Eastern Pacific: Clipperton Island endemic. Habitat: marine.

Holacanthus passer Valenciennes 1846

Holacanthus passer Valenciennes [A.] 1846:no p., Pl. 6 [Voyage autour du monde sur la frégate "la Vénus"; ref. [6165](#)] Galápagos Islands. Holotype (unique): MNHN A-3559. Type catalog: Bauchot 1963:144 [ref. [20718](#)]. Dates to publication in plate; corresponding text published as Valenciennes 1855:327 [ref. [4504](#)]. **Current status:** Valid as *Holacanthus passer* Valenciennes 1846. Pomacanthidae. **Distribution:** Eastern Pacific: Pacific coast of southern Baja California Sur (Mexico) south to Peru, including Guadalupe Island (Mexico), Clipperton Atoll (France) and Galapagos Islands (Ecuador). Habitat: marine.

Holacanthus strigatus Gill [T. N.] 1862:243 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 14; ref. [1665](#)] Cape San Lucas, Baja California, Mexico. Holotype: USNM 3668. Current status: Synonym of *Holacanthus passer* Valenciennes 1846. Pomacanthidae.

Holacanthus tricolor (Bloch 1795)

Chaetodon tricolor Bloch [M. E.] (ex Markgraf von Liebstadt) 1795:103, Pl. 425 [Naturgeschichte der ausländischen Fische v. 9; ref. [464](#)] Northern Atlantic coast of Brazil. Lectotype: ZMB 1302. Paralectotypes: ZMB 8571 (1, dry, lost). Type catalog: Paepke 1999:118 [ref. [24282](#)]. Not Pl. 426 as stated in text. On p. 97 of Bloch's Ichthyologie, v. 12 [ref. [21381](#)]. Lectotype selected by Paepke 1999:118 [ref. [24282](#)]. Based on the 'Acaravna brasiliensibus' of Markgraf von Liebstadt 1648:144, fig. [ref. [30347](#)]. **Current status:** Valid as *Holacanthus tricolor* (Bloch 1795). Pomacanthidae. **Distribution:** Western Atlantic: Georgia (U.S.A.) and Bermuda south to Santa Catarina (Brazil), including Gulf of Mexico and Caribbean Sea. IUCN (2010): Least Concern. Habitat: marine.

- Class **Actinopteri**

- Order **Acanthuriformes** (was part of Perciformes)

- Family **Sciaenidae** Cuvier 1829 (croakers and drums)

Genus ***Totoaba*** Villamar [A.] 1980:130 [Anales de la Escuela Nacional de Ciencias Biológicas, México v. 23 (nos 1/4); ref. [6596](#)] Fem. *Cynoscion macdonaldi* Gilbert 1890. Type by original designation (also monotypic). **Current status:** Valid as *Totoaba* Villamar 1980. Sciaenidae.

Totoaba macdonaldi (Gilbert 1890)

Cynoscion macdonaldi Gilbert [C. H.] 1890:64 [Proceedings of the United States National Museum v. 13 (no. 797); ref. [1623](#)] Eastern shore of Gulf of California and near the mouth of Colorado River, northern Gulf of California, Mexico. Syntypes: USNM 43082 (1). **Current status:** Valid as *Totoaba macdonaldi* (Gilbert 1890). Sciaenidae. **Distribution:** Eastern Pacific: Gulf of California (Mexico).

- Class **Actinopteri**
 - Order **Anguilliformes**
 - Family **Anguillidae** Rafinesque 1810 (freshwater eels)

Genus **Anguilla** Schrank [F. von P.] 1798:304, 307 [Fauna Boica. Durchgedachte Geschichte der in Baieren einheimischen und zahmen Thiere. v. 1; ref. [6444](#)] Fem. *Muraena anguilla* Linnaeus 1758. Type by monotypy. Kottelat 2013:37 dates to *Anguilla* Garsault 1764, Pl. 661 with no species; it is here considered a forgotten name not used by current workers. Apparently appeared first as name only in Thunberg 1795 [not researched]. Schrank as author predates Shaw 1803. See Opinion 1672 in which *Anguilla* is placed on the Official List, and the type species is confirmed as *Muraena anguilla* Linnaeus 1758. **Current status:** Valid as *Anguilla* Schrank 1798. Anguillidae.

Anguilla Garsault [F. A. P. de] 1764:Pl. 661 [Les figures des plantes et animaux d'usage en medicine Tome V. Animaux table; ref. [1570](#)] Fem. *Muraena anguilla* Linnaeus 1758. Type by subsequent monotypy. Type designated by Schrank 1798: 304, 307 [ref. [6444](#)]. *Anguilla* Schrank 1798 is on official list [Opinion 1672]. Current status: Synonym of *Anguilla* Schrank 1798. Anguillidae.

Terpolepis (subgenus of *Anguilla*) McClelland [J.] 1844:225 [Calcutta Journal of Natural History v. 5 (no. 18); ref. [2928](#)] Fem. *Anguilla brevirostris* McClelland 1844. Type by subsequent designation. Proposed somewhat conditionally in a "Note" on p. 225 as a subgenus for Bengal species of the genus *Anguilla*, which includes more than one species mentioned on p. 208. Subsequent designation is by Blache 1973:220 [ref. [7185](#)] according to Smith 1989:32 [ref. [13285](#)]; genus not treated by Jordan. Current status: Synonym of *Anguilla* Schrank 1798. Anguillidae.

Tribranchus Peters [W. (C. H.)] in Müller 1846:193, footnote [Abhandlungen der Königlichen Akademie der Wissenschaften zu Berlin for 1844; ref. [13283](#)] Masc. *Tribranchus anguillaris* Peters 1846. Type by monotypy. Very brief description but regarded as available. •Synonym of *Anguilla* Garsault 1764 -- (Kottelat 2013:37 [ref. [32989](#)]). Current status: Synonym of *Anguilla* Schrank 1798. Anguillidae.

Anguilla anguilla (Linnaeus 1758)

Muraena anguilla Linnaeus [C.] 1758:245 [Systema Naturae, Ed. X v. 1; ref. [2787](#)] Europe, Mediterranean Sea, Baltic Sea, northeastern Atlantic [original: "in Europa; maxima in lacu Cornachio Ferrariensi"]; localities include Sweden; England; Belgium; Germany; Poland; France; Ferrara and Rome, Italy; Lesbos Island, Greece; Syria. No types known. Originally spelled *angvilla*, also *angvilla* in Linnaeus 1766:426 [ref. [2786](#)]. Neotype designated by Fricke 1999:19 [ref. [24101](#)], but withdrawn in Fricke 2000:639 [ref. [24537](#)]. Originally based on at least 34 pre-Linnaean sources. **Current status:** Valid as *Anguilla anguilla* (Linnaeus 1758). Anguillidae. **Distribution:** Western Atlantic: larvae in Sargasso Sea and Gulf Stream; eastern Atlantic, Baltic Sea, North Sea, White Sea, Mediterranean Sea, Sea of Marmara, Black Sea: European seas and adjacent watersheds, spawning and larval migration routes to and from the western Atlantic. Introduced in the Caspian Sea basin. Habitat: freshwater, brackish, marine.

Muraena anguilla var. *acerine* Schneider [J. G.] in Bloch & Schneider 1801:560 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] No locality. No types known. Based on "Acerine" (variety of *Muraena anguilla* Linnaeus 1758) of Lacepède 1800:261 [ref. [2709](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Muraena anguilla anguillechien Schneider [J. G.] in Bloch & Schneider 1801:560 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] No locality [Seine River, France]. No types known. Based on "Anguille chien" (variety of *Muraena anguilla* Linnaeus 1758) of Lacepède 1800:263 [ref. [2709](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Muraena anguilla guiseau Schneider [J. G.] in Bloch & Schneider 1801:560 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] "Sequanam" [Seine River, northern France]. No types known. Based on "Guiseau" (variety of *Muraena anguilla* Linnaeus 1758) of Lacepède

- 1800:262 [ref. [2709](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758).
Anguillidae.
- Anguilla vulgaris* Shaw [G.] 1803:15 [General zoology or systematic natural history v. 4; ref. [4014](#)] No locality. No types known. Neotype designated by Fricke 1999:18 [ref. [24101](#)], but withdrawn in Fricke 2000:639 [ref. [24537](#)]. Based in part on *Muraena anguilla* Linnaeus 1758. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla vulgaris* Rafinesque [C. S.] 1810:37 [Indice d'ittologia siciliana; ref. [3595](#)] Sicily, Italy, Mediterranean Sea. New name for *Muraena anguilla* Linnaeus 1758. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla acutirostris* Risso [A.] 1827:198 [Histoire naturelle des principales productions de l'Europe méridionale v. 3; ref. [3757](#)] Nice, France, northwestern Mediterranean Sea. Holotype (unique): MNHN (not found). Type catalog: Bauchot et al. 1993:124 [ref. [20810](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla latirostris* Risso [A.] 1827:199 [Histoire naturelle des principales productions de l'Europe méridionale v. 3; ref. [3757](#)] Nice, France, northwestern Mediterranean Sea. Holotype (unique): MNHN (not found). Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla mediorostris* Risso [A.] 1827:199 [Histoire naturelle des principales productions de l'Europe méridionale v. 3; ref. [3757](#)] Nice, France, northwestern Mediterranean Sea. Holotype (unique): MNHN (not found). Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla fluviatilis* Ansljijn [N.] 1828:226, Pl. 93 [Systematische Beschrijving der voor ons meest belangrijke visschen.; ref. [13455](#)] •Unneeded new name for *Anguilla anguilla* (Linnaeus 1758) -- (Blache et al. 1973:220 [ref. [7185](#)]). Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Muraena platyrhina* Ekström [C. U.] 1832:287 [Kongliga Vetenskaps-Academiens Handlingar, Stockholm; ref. [13467](#)] Mörkö Island, near Stockholm, Sweden. No types known. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Muraena oxyrhina* Ekström [C. U.] 1832:287 [Kongliga Vetenskaps-Academiens Handlingar, Stockholm; ref. [13467](#)] Mörkö Island, near Stockholm, Sweden. No types known. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla canariensis* Valenciennes [A.] 1843:88, Pl. 20 (fig. 1) [Ichthyologie des îles Canaries v. 2 (pt 2); ref. [4502](#)] Teneriffe, Canary Islands. Lectotype: MNHN 0000-3783. Paralectotypes: MNHN 0000-3784 (3). Type catalog: Bauchot et al. 1993:94 [ref. [20810](#)] as holotype and paratypes, but no type was established originally. Lectotype designated by Eschmeyer 1998:316 [ref. [23416](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla avisotis* Richardson [J.] 1845:no p., Pl. 51 (fig. 1) [Ichthyology.--Part 2. The zoology of the voyage of H. M. S. Sulphur; ref. [20574](#)] Canton, China. No types known. Available from plate. Text in Richardson 1845:104 [ref. [20275](#)]. Based solely on illustration by Reeves (see Whitehead 1970:297 [ref. [11606](#)]). Anguillidae.
- Anguilla cloacina* Bonaparte [C. L.] 1846:38 [Atti della Settima Adunanza degli Scienziati Italiani Sesta Riunione, Milano 7a Adunanza, Napoli, Part 2; ref. [519](#)] France. No types known. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla nilotica* Heckel [J. J.] 1847:313 [Reisen in Europa, Asien und Africa v. 2 (pt 3); ref. [2068](#)] Nile River, Egypt, North Africa. Syntypes: MNHN 0000-3769 to 0000-3771 (1, 1, 1). Type catalog: Bauchot et al. 1993:96 [ref. [20810](#)] but with authorship as Kaup 1857. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla fluviatilis* Gistel [J.] 1848:104 [Naturgeschichte des Thierreichs; ref. [1822](#)] Der Gauzen Erde. No types known. Perhaps not an original description. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

- Anguilla migratoria* Krøyer [H. N.] 1849:616 [Danmarks Fiske; ref. [18437](#)] Denmark. No types known. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla platyrhynchus* Costa [O. G.] 1850:Anguilla p. 50, Pls. 58, 60 (figs. 3a, 3b) [Fauna del regno di Napoli Part 1; ref. [976](#)] Lake Ligola, Italy. Syntypes: whereabouts unknown. Published 10 July 1850. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla callensis* Guichenot [A.] 1850:111, Pl. 7 (fig. 1) [Histoire naturelle des reptiles et poissons; ref. [1940](#)] La Calle, Algeria, western Mediterranean Sea. Syntypes: (10) MNHN 0000-3160 (5), 0000-3220 (1), 0000-3774 (4). Type catalog: Bauchot et al. 1993:93-94 [ref. [20810](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla bibroni* Kaup [J. J.] 1856:54 [Archiv für Naturgeschichte v. 22 (pt. 1); ref. [2572](#)] Sicily, Italy. Syntypes: MNHN 0000-3760 (1), 0000-3779 (3). Type catalog: Bauchot et al. 1993:93 [ref. [20810](#)]. Also in Kaup 1856:33, Pl. 3 (fig. 16) [ref. [2573](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla cuvieri* Kaup [J. J.] 1856:54 [Archiv für Naturgeschichte v. 22 (pt. 1); ref. [2572](#)] Abbeville, France. Syntypes: MNHN 0000-3758 (2), 0000-3759 (7). Type catalog: Bauchot et al. 1993:94 [ref. [20810](#)]. Also in Kaup 1856:33 [ref. [2573](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla kieneri* Kaup [J. J.] 1856:54 [Archiv für Naturgeschichte v. 22 (pt. 1); ref. [2572](#)] Toulon, France, northwestern Mediterranean Sea. Holotype: MNHN 0000-3757. Type information: Bauchot et al. 1993:95 [ref. [20810](#)]. Also in Kaup 1856:22, Fig. 15 [ref. [2573](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla savignyi* Kaup [J. J.] 1856:55 [Archiv für Naturgeschichte v. 22 (pt. 1); ref. [2572](#)] [Napoli] Naples, Italy, Mediterranean Sea. Holotype: MNHN 0000-3131 [?3731]. Type catalog: Bauchot et al. 1993:97 [ref. [20810](#)]. Also in Kaup 1856:34 [ref. [2573](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla eurystoma* Heckel [J. J.] & Kner [R.] 1857:325, Fig. 168 [Die Süßwasserfische der Monarchie; ref. [2078](#)] Dalmatia, Croatia, Adriatic Sea (Mediterranean Sea). Syntypes: (2) NMW 9284 (1). Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla aegyptiaca* Kaup [J. J.] 1857:40 [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Nile River, Egypt. Syntypes: MNHN 0000-3772 (1), 0000-3773 (1). Type catalog: Bauchot et al. 1993:93 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla altirostris* Kaup [J. J.] 1857:37, Pl. 4 (fig. 24) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Mouth of Seine River, France, La Manche/English Channel, northeastern Atlantic. Holotype (unique): MNHN 0000-3768. Type catalog: Bauchot et al. 1993:93 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla ancidda* Kaup [J. J.] 1857:37, Pl. 4 (fig. 22) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Sicily and Pergamont, Italy. Syntypes: MNHN 0000-3767 (1), 0000-3780 (1). Type catalog: Bauchot et al. 1993:93 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Leptocephalus brevirostris* Kaup [J. J.] 1857:150, Pl. 18 (fig. 15) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Messina, Sicily, Italy, Mediterranean Sea. Holotype: MNHN 0000-2901. Possible types: BMNH 1860.9.31.4 (1), ZMB 4742 (1) Messina. Type catalog: Bertin 1935:100 [ref. [21550](#)], Bauchot et al. 1993:120 [ref. [20810](#)]. Subjectively invalid; secondarily preoccupied in *Anguilla* by *Anguilla brevirostris* Cisternas 1877. 2°Homonym. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.
- Anguilla capitone* Kaup [J. J.] 1857:34, Pl. 3 (fig. 17) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Naples, Italy, Mediterranean Sea. Holotype

(unique): MNHN 0000-3762. Type catalog: Bauchot et al. 1993:94 [ref. [20810](#)]. Appeared first without description in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Anguilla eurylaema Kaup [J. J.] 1857:50, Pl. 8 (fig. 40) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] No locality. Holotype (unique): MNHN (not found). Type catalog: Bauchot et al. 1993:124 [ref. [20810](#)]. Appeared first without description in Kaup 1856:56 [ref. [2572](#)]. Anguillidae.

Anguilla fasciata Kaup [J. J.] 1857:48, Pl. 7 (fig. 37) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] No locality. Holotype (unique): RMNH ancient collection (whereabouts unknown). Appeared first without distinguishing features in Kaup 1856:56 [ref. [2572](#)]. Anguillidae.

Anguilla malgumora Kaup [J. J.] (ex Schlegel) 1857:42, Pl. 6 (fig. 30) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Borneo [in error]. Holotype (unique): MNHN A-9954. Type catalog: Bauchot et al. 1993:95 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Anguilla marginata Kaup [J. J.] 1857:36, Pl. 4 (fig. 20) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Valencia, Spain. Holotype (unique): MNHN 0000-3765. Type catalog: Bauchot et al. 1993:95 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Anguilla melanochir Kaup [J. J.] 1857:35, Pl. 4 (fig. 19) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Tiber River, Italy. Holotype (unique): MNHN 0000-3764. Type catalog: Bauchot et al. 1993:96 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Anguilla microptera Kaup [J. J.] 1857:36, Pl. 4 (fig. 21) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Bay of Algeciras, Spain, eastern Atlantic. Holotype (unique): MNHN 0000-3766. Type catalog: Bauchot et al. 1993:96 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Anguilla morena Kaup [J. J.] 1857:35, Pl. 3 (fig. 18) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Naples, Italy, Mediterranean Sea. Holotype (unique): MNHN 0000-3763. Type catalog: Bauchot et al. 1993:96 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Anguilla platycephala Kaup [J. J.] 1857:38, Pl. 5 (fig. 25) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Abbeville, France. Syntypes: MNHN 0000-3210 (1), 0000-5707 (now 4). Type catalog: Bauchot et al. 1993:97 [ref. [20810](#)] with 3210 as holotype. Appeared first as name only in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Anguilla hibernica Couch [J.] 1865:328, Pl. 235 [The history of the fishes of the British islands v. 4; ref. [18055](#)] Liffey River, Dublin, Ireland. No types known. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Anguilla oblongirostris Blanchard [C. E.] 1866:496 [Les poissons des eaux douces de la France; ref. [310](#)] Huveaune stream, near Marseille, France; Lot river; Lake Bourget, France. Syntypes: MNHN 1880-0343 (5), 9985 (1). Type catalog: Bauchot et al. 1993:96 [ref. [20810](#)]. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Anguilla anacamptoentera Balsamo-Crivelli [G. G.] & Maggi [L.] 1873:229, Pl. [Memorie del Reale Istituto Lombardo di Scienze e Lettere, Classe di Scienze Matematiche e Naturali v. 12 [= (Ser. 3) v. 3]; ref. [15763](#)] Italy. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Anguilla orthoentera Balsamo-Crivelli [G. G.] & Maggi [L.] 1873:229, Pl. [Memorie del Reale Istituto Lombardo di Scienze e Lettere, Classe di Scienze Matematiche e Naturali v. 12 [= (Ser. 3) v. 3]; ref. [15763](#)] Italy. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Anguilla brevirostris Cisternas [R.] 1877:108 [Anales de la Sociedad Española de Historia Natural, Madrid v. 6 (for 7 Mar. 1877); ref. [14239](#)] Valencia, Spain. No types known. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

Anguilla linnei Malm [A. W.] 1877:590 [ref. [2881](#)] Original as *Linnéi*. Unneeded replacement name for *Muraena anguilla* Linnaeus 1758 (to avoid "Strickland tautonomy"). Locality Sweden. Replacement Name. Current status: Synonym of *Anguilla anguilla* (Linnaeus 1758). Anguillidae.

***Anguilla australis* Richardson 1841**

Anguilla australis Richardson [J.] 1841:22 [Proceedings of the Zoological Society of London 1841 (pt 9); ref. [18626](#)] Port Arthur, Tasmania, Australia; Auckland Island Southern Ocean. Holotype (unique): BMNH 1848.3.18.236. Also described in Richardson 1844:157 [ref. [20295](#)]. **Current status:** Valid as *Anguilla australis* Richardson 1841. Anguillidae. **Distribution:** Southwestern Pacific. Introduced elsewhere. Habitat: freshwater, brackish, marine.

Anguilla schmidtii Phillipps [W. J.] 1925:30, Fig. 4 [The New Zealand Journal of Science and Technology v. 8 (no. 2); ref. [23932](#)] Foxton, western coast of Wellington, New Zealand. Holotype (unique): NMNZ. Current status: Synonym of *Anguilla australis* Richardson 1841. Anguillidae.

Anguilla australis forma *occidentalis* Schmidt [E. J.] 1928:198, 203, Fig. 9d-f [Records of the Australian Museum v. 16 (no. 4); ref. [18703](#)] Eastern Australia and Lord Howe Island. Syntypes: (several) ?AMS IA.3995-97 (3) Lord Howe I. Appeared first as a postscript in Schmidt 1928:388 [ref. [18704](#)] but without identifying characters. Described as a new "forma" along with *A. a. orientalis*, the forma occurring in New Zealand (for which features were provided). Current status: Synonym of *Anguilla australis* Richardson 1841. Anguillidae.

Anguilla australis forma *orientalis* Schmidt [E. J.] 1928:388 [Transactions of the New Zealand Institute v. 58 (no. 4); ref. [18704](#)] New Zealand. Syntypes: (several) Carlsberg Lab., Copenhagen or NMNZ. Name first mentioned in the postscript of the above reference, but treated in more detail in Schmidt 1928 [ref. [18703](#)]. Current status: Synonym of *Anguilla australis* Richardson 1841. Anguillidae.

***Anguilla bengalensis* (Gray 1831)**

Muraena bengalensis Gray [J. E.] 1831:no page number, Pl. 95 (fig. 5) [Illustrations of Indian zoology; ref. [1878](#)] India. No types known. •Questionably a synonym of *Anguilla nebulosa* McClelland 1844 -- (Ege 1939:36 [ref. [13172](#)]). **Current status:** Valid as *Anguilla bengalensis* (Gray 1831). Anguillidae. **Distribution:** Indian Ocean and adjacent freshwater habitats: South Africa north to Kenya, east to Malaysia, north to Nepal. Habitat: freshwater, brackish, marine.

Anguilla elphinstonei Sykes [W. H.] 1839:165 [Proceedings of the Zoological Society of London 1838 (pt 6) (for 27 Nov. 1838); ref. [18720](#)] Deccan, India. Appeared first as above, then in Sykes 1839:62 [ref. [4306](#)]; more complete treatment in Sykes 1841:377, Pl. 67 (fig. 3) [ref. [18868](#)]. Current status: Synonym of *Anguilla bengalensis* (Gray 1831). Anguillidae.

Anguilla arracana McClelland [J.] 1844:178, 202, 209, Pl. 6 (fig. 2) [Calcutta Journal of Natural History v. 5 (no. 18); ref. [2928](#)] Sandoway, Burma. Syntypes: SMF 768 (2). •Questionably a synonym of *Anguilla nebulosa* McClelland 1844 -- (Ege 1939:36 [ref. [13172](#)]). Current status: Synonym of *Anguilla bengalensis* (Gray 1831). Anguillidae.

Anguilla brevirostris McClelland [J.] 1844:177, 202, 208, Pl. 5 (fig. 1) [Calcutta Journal of Natural History v. 5 (no. 18); ref. [2928](#)] Bengal, India and Arrakan, Burma. Syntypes: lost. Current status: Synonym of *Anguilla bengalensis* (Gray 1831). Anguillidae.

Anguilla variegata McClelland [J.] 1844:179, 204, 208, Pl. 9 (fig. 7) [Calcutta Journal of Natural History v. 5 (no. 18); ref. [2928](#)] Ganges at Behar, Bengal, India. No types known. Current status: Synonym of *Anguilla bengalensis* (Gray 1831). Anguillidae.

Anguilla bicolor McClelland 1844

Anguilla bicolor McClelland [J.] 1844:178, 202, 209, Pl. 6 (fig. 1) [Calcutta Journal of Natural History v. 5 (no. 18); ref. [2928](#)] Sandoway, Malay coast, India. Syntypes: SMF 776 (1). **Current status:** Valid as *Anguilla bicolor* McClelland 1844. Anguillidae. **Distribution:** Indo-West Pacific: Socotra (Yemen), Seychelles, Mayotte (France), Madagascar and Mascarenes (La Réunion, Mauritius, Rodrigues) east to China, Philippines and New Britain (Papua New Guinea), south to northern Western Australia. Habitat: freshwater, brackish, marine.

Anguilla moa Bleeker [P.] 1849:22 [Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. v. 23 (no. 12); ref. [16883](#)] Jakarta, Banjumas, Ambarawa, Java, Indonesia. Syntypes: SMNS 10652 (1) Java. Current status: Synonym of *Anguilla bicolor* McClelland 1844. Anguillidae.

Muraena macrocephala Rapp [W. L. von] 1849:142, Pl. 2 [Jahreshefte des Vereins für Vaterländische Naturkunde in Württemberg v. 4; ref. [19492](#)] Umlaas River/Umlazi River, Durban, KwaZulu-Natal, South Africa, southwestern Indian Ocean. Holotype (unique): SMNS 26204. Objectively invalid; preoccupied by *Muraena macrocephala* Lesueur 1817. 1°Homonym. Current status: Synonym of *Anguilla bicolor* McClelland 1844. Anguillidae.

Anguilla mowa Bleeker [P.] 1852:16 [Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. v. 25 (art. 5); ref. [339](#)] Jakarta, Banjoemas, Ambarawa, and Java, Indonesia. Syntypes: (5). Unjustified emendation of *Anguilla moa* Bleeker 1849. Current status: Synonym of *Anguilla bicolor* McClelland 1844. Anguillidae.

Anguilla sidat Bleeker [P.] 1852:17 [Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. v. 25 (art. 5); ref. [339](#)] Tjikandi, Tjampea, Jakarta, and western Java, Indonesia. Syntypes and/or Bleeker specimens: (12) AMS B.8207 (1), BMNH 1867.11.28.231 [or .231] (1) no locality, NMV A947 (2). Current status: Synonym of *Anguilla bicolor* McClelland 1844. Anguillidae.

Muraena (Anguilla) virescens Peters [W. (C. H.)] 1852:684 [Bericht über die zur Bekanntmachung geeigneten Verhandlungen der Königlichen Preussischen Akademie der Wissenschaften zu Berlin 1852; ref. [18539](#)] Licuare River at Boror, Mozambique. Syntypes: ZMB 6229 (2). Also in Peters 1868:101, Pl. 18 (fig. 2) [ref. [3440](#)] as *Anguilla virescens*. Current status: Synonym of *Anguilla bicolor* McClelland 1844. Anguillidae.

Anguilla bleekeri Kaup [J. J.] 1856:56, Pl. 9 (fig. 45) [Archiv für Naturgeschichte v. 22 (pt. 1); ref. [2572](#)] India. Holotype: MNHN B-2099. Paratypes: MNHN B-3124 [ex B-2099]. Type catalog: Bauchot et al. 1993:93 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:56 [ref. [2572](#)]. Current status: Synonym of *Anguilla bicolor* McClelland 1844. Anguillidae.

Anguilla cantori Kaup [J. J.] 1857:52, Pl. 9 (fig. 46) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Mumbai, India. Syntypes: ?MNHN B-3125 [ex MNHN 0000-3207], 0000-3207 (1),. Type catalog: Bauchot et al. 1993:94 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:56 [ref. [2572](#)]. Current status: Synonym of *Anguilla bicolor* McClelland 1844. Anguillidae.

Anguilla dussumieri Kaup [J. J.] 1857:51, Pl. 8 (fig. 43) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Mahé, Malabar, India. Holotype (unique): MNHN 0000-3209. Type catalog: Bauchot et al. 1993:95 [ref. [20810](#)]. Appeared first without distinguishing features in Kaup 1856:56 [ref. [2572](#)]. Current status: Synonym of *Anguilla bicolor* McClelland 1844. Anguillidae.

Anguilla malabarica Kaup [J. J.] 1857:52, Pl. 9 (fig. 47) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Malabar, India. Holotype: MNHN 0000-3208. Type catalog: Bauchot et al. 1993:95 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:56 [ref. [2572](#)]. Current status: Synonym of *Anguilla bicolor* McClelland 1844. Anguillidae.

Muraena halmaherensis Bleeker [P.] 1863:158 [Nederlandsch Tijdschrift voor de Dierkunde v. 1; ref. [17001](#)] Galéla, Halmahera, Indonesia. Holotype (unique): whereabouts unknown. Current status: Synonym of *Anguilla bicolor* McClelland 1844. Anguillidae.

Anguilla spengeli Weber [M.] 1912:591, Fig. G [Zoologische Jahrbücher, Jena, Supplementband v. 15 (pt. 1); ref. [17832](#)] Java, Indonesia; Borneo. Syntypes: (several) ZMA 116466 (1). Type catalog: Nijssen et al. 1982:7 [ref. [19236](#)]. • Current status: Synonym of *Anguilla bicolor* McClelland 1844. Anguillidae.

Anguilla ambiodon Günther [A.] in Playfair & Günther 1867:125, Fig. [The fishes of Zanzibar; ref. [3490](#)] Seychelles. Holotype (unique): BMNH 1867.3.9.422 (stuffed). Current status: Synonym of *Anguilla bicolor* McClelland 1844. Anguillidae.

Anguilla foochowensis Chu [Y.-T.] & Jin [Y.-T.] in Chu 1984:187, Fig. 126 [ref. [8173](#)] Fuzhou [Fuchow], China. Holotype (unique): SFC 57-4104. Current status: Synonym of *Anguilla bicolor* McClelland 1844. Anguillidae.

Anguilla borneensis Popta 1924

Anguilla borneensis Popta [C. M. L.] 1924:73 [Zoologische Mededeelingen (Leiden) v. 8 (no. 2) (art. 7); ref. [15466](#)] Bo River, eastern Borneo. Syntypes: RMNH 7654 (2). •Synonym of *Anguilla malgumora* Kaup 1856 -- (authors). **Current status:** Valid as *Anguilla borneensis* Popta 1924. Anguillidae. **Distribution:** Western Pacific: northeast Borneo and western Philippines. Habitat: freshwater, brackish, marine.

Anguilla celebesensis Kaup 1857

Anguilla celebesensis Kaup [J. J.] 1857:42, Pl. 6 (fig. 31) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Lake Tondano, Sulawesi, Indonesia. Holotype (unique): MNHN 0000-2150. Type catalog: Bauchot et al. 1993:94 [ref. [20810](#)]. **Current status:** Valid as *Anguilla celebesensis* Kaup 1857. Anguillidae. **Distribution:** Western Pacific: Philippines to central Indonesia. Habitat: freshwater, brackish, marine.

Anguilla amboinensis Peters [W. (C. H.)] 1866:523 [Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1866; ref. [3439](#)] Ambon Island, Molucca Islands, Indonesia. Holotype: ZMB 6178. Current status: Synonym of *Anguilla celebesensis* Kaup 1857. Anguillidae.

Anguilla ancestralis Ege [V.] 1939:36, Pl. 4 (fig. 1) [Dana Report No. 16; ref. [13172](#)] Paigar River near Manado, Sulawesi, Indonesia. Syntypes: (158 elvers) ZMUC P31251-62 (12). Type catalog: Nielsen 1974:52 [ref. [9588](#)]. Current status: Synonym of *Anguilla celebesensis* Kaup 1857. Anguillidae. Habitat: freshwater.

Anguilla dieffenbachii Gray 1842

Anguilla dieffenbachii Gray [J. E.] 1842:73 [Zoological Miscellany [No. 1]; ref. [18157](#)] River Thames, New Zealand. Holotype (unique): BMNH 1965.11.5.9. **Current status:** Valid as *Anguilla dieffenbachii* Gray 1842. Anguillidae. **Distribution:** New Zealand. Habitat: freshwater, brackish, marine.

Anguilla aucklandii Richardson [J.] 1848:113, Pl. 45 (figs. 7-13) [Ichthyology of the voyage of H. M. S. Erebus & Terror v. 2 (2); ref. [3740](#)] Auckland Islands, New Zealand. Syntypes: BMNH 1848.3.18.230-231 (?). Current status: Synonym of *Anguilla dieffenbachii* Gray 1842. Anguillidae.

Anguilla waitei Phillipps [W. J.] 1925:28, Fig. 1 [The New Zealand Journal of Science and Technology v. 8 (no. 2); ref. [23932](#)] Smith's Bay, Makara, North Island, New Zealand. Holotype: NMNZ. Other material or paratypes: (1) Karori, (1) near Kaikohe. Current status: Synonym of *Anguilla dieffenbachii* Gray 1842. Anguillidae.

Anguilla interioris Whitley 1938

Anguilla interioris Whitley [G. P.] 1938:224, Fig. 1 [Records of the Australian Museum v. 20 (no. 3); ref. [4693](#)] Gumanj, a tributary of Wahgi River, Mt. Hagen District, upper Purari River, central New Guinea, elevation 5700 feet. Holotype (unique): AMS IA.6075. **Current status:** Valid as *Anguilla interioris* Whitley 1938. Anguillidae. **Distribution:** Eastern Indian Ocean, western Pacific: Sumatra (Indonesia) east to Philippines and New Guinea. Habitat: freshwater, brackish, marine.

Anguilla japonica Temminck & Schlegel 1846

Anguilla japonica Temminck [C. J.] & Schlegel [H.] 1846:258, Pl. 13 (fig. 1) [Fauna Japonica Parts 10-14; ref. [4374](#)] Japan. Lectotype: RMNH 3661a. Paralectotypes: RMNH 3659 (1), 3660 (2), 3661b (1). Lectotype selected by Boeseman 1947:185 [ref. [12876](#)]. On the Official List of specific names, Opinion 901. **Current status:** Valid as *Anguilla japonica* Temminck & Schlegel 1846. Anguillidae. **Distribution:** Northwestern Pacific. Habitat: freshwater, brackish, marine.

Anguilla sinensis McClelland [J.] 1843:406, Pl. 25 (fig. 2) [Calcutta Journal of Natural History v. 4 (no. 4) (for 1844); ref. [2927](#)] Chusan, China. No types known. Current status: Synonym of *Anguilla japonica* Temminck & Schlegel 1846. Anguillidae.

Anguilla angustidens Kaup [J. J.] 1846:49, Pl. 7 (fig. 39) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] No locality. Holotype (unique): MNHN B-3153. Type catalog: Bauchot et al. 1993:93 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:56 [ref. [2572](#)]. Current status: Synonym of *Anguilla japonica* Temminck & Schlegel 1846. Anguillidae.

Muraena pekinensis Basilewsky [S.] 1855:246, Pl. 3 (fig. 2) [Nouveaux mémoires de la Société impériale des naturalistes de Moscou v. 10; ref. [200](#)] China: streams near Tianjin and Beijing. No types at ZIN. Current status: Synonym of *Anguilla japonica* Temminck & Schlegel 1846. Anguillidae.

Anguilla remifera Jordan [D. S.] & Evermann [B. W.] 1902:325, Fig. 7 [Proceedings of the United States National Museum v. 25 (no. 1289); ref. [2447](#)] Hokoto [Hokuto, Taipei City], Taiwan. Holotype: ZUMT uncat. (lost) (ex. No. 12064). Type catalog: Ho & Shao 2011:21 [ref. [31432](#)], Aizawa et al. 2022:140 [ref. [39647](#)]. The holotype is apparently lost (Kazuo Sakamoto, pers. comm. 2007, cited in Ho & Shao 2011:21 [ref. [31432](#)]). Current status: Synonym of *Anguilla japonica* Temminck & Schlegel 1846. Anguillidae.

Anguilla manabei Jordan [D. S.] 1913:359, Pl. 57 [Proceedings of the United States National Museum v. 44 (no. 1957); ref. [14960](#)] Rapid in tributary of Yoshino River, near Koyadaira, a village at foot of Mt. Tsurugi, Awa, Shikoku, Japan. Holotype (unique): USNM 74118. Type catalog: Smith 1994:3 [ref. [21917](#)]. Current status: Synonym of *Anguilla japonica* Temminck & Schlegel 1846. Anguillidae.

Anguilla breviceps Chu [Y.-T.] & Jin [Y.-T.] in Chu 1984:183, Fig. 122 [ref. [8173](#)] Fuchow, China. Holotype (unique): SFC 57-2318. Current status: Synonym of *Anguilla japonica* Temminck & Schlegel 1846. Anguillidae.

Anguilla nigricans Chu [Y.-T.] & Wu [Y. T.] in Chu 1984:185, Fig. 124 [ref. [8173](#)] Xiamen, China. Holotype (unique): SFC 60-9452. Second author is H. W. Wu. Current status: Synonym of *Anguilla japonica* Temminck & Schlegel 1846. Anguillidae.

Anguilla labiata (Peters 1852)

Muraena (Anguilla) labiata Peters [W. (C. H.)] 1852:684 [Bericht über die zur Bekanntmachung geeigneten Verhandlungen der Königlichen Preussischen Akademie der Wissenschaften zu Berlin 1852; ref. [18539](#)] Zambezi and Licuare River, Mozambique. Syntypes: ZMB 6227 (1), 6228 (3, now 2). Also in Peters 1868:94, Pl. 17 [ref. [3440](#)] as *anguilla labiata*. **Current status:** Valid as *Anguilla labiata* (Peters 1852). Anguillidae. **Distribution:** Western Indian Ocean and Africa: South African, East African, Réunion and Mauritius (western Mascarenes) watersheds and adjacent waters of Western Indian Ocean. Habitat: freshwater, brackish, marine.

Muraena (Anguilla) macrophthalmos Peters [W. (C. H.)] 1852:684 [Bericht über die zur Bekanntmachung geeigneten Verhandlungen der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1852; ref. [18539](#)] Tette [Tete], Zambezi River, Mozambique. Holotype (unique): ZMB 6226. Also in Peters 1868:99, Pl. 19 [ref. [3440](#)] as *Anguilla macrophthalma*. Current status: Synonym of *Anguilla labiata* (Peters 1852). Anguillidae.

Anguilla luzonensis Watanabe, Aoyama & Tsukamoto 2009

Anguilla luzonensis Watanabe [S.], Aoyama [J.] & Tsukamoto [K.] 2009:389, Fig. 2 [Fisheries Science (Tokyo) v. 75; ref. [30611](#)] Upper reaches of the Pinacanauan River near Saua, north Luzon Island, Philippines. Holotype: NSMT-P 90000. Paratypes: NSMT-P 90001 (1), 90002 (1), 90003 (1), 90004-28 (25). Predates *Anguilla huangi* Lin & Tzeng 2009 (Nov.); *luzonensis* published in Mar. 2009. **Current status:** Valid as *Anguilla luzonensis* Watanabe, Aoyama & Tsukamoto 2009. Anguillidae. **Distribution:** Western Pacific: Philippines and Taiwan, north to Ryukyu Islands (Japan). Habitat: freshwater, brackish, marine.

Anguilla huangi Teng [H.-Y.], Lin [Y.-S.] & Tzeng [C.-S.] 2009:812, Figs. 1-2 [Zoological Studies v. 48 (no. 6); ref. [30569](#)] Cagayan River, Luzon Island, Philippines. Holotype: ASIZP 0069360. Paratypes: ASIZP 0069361-9 (9). *Anguilla huangi* was published Nov. 2009, *luzonensis* Mar. 2009. Current status: Synonym of *Anguilla luzonensis* Watanabe, Aoyama & Tsukamoto 2009. Anguillidae. Habitat: freshwater.

Anguilla marmorata Quoy & Gaimard 1824

Anguilla marmorata Quoy [J. R. C.] & Gaimard [J. P.] 1824:241, Pl. 51 (fig. 2) [Voyage autour du monde; ref. [3574](#)] Waigeo [Waigiou], Indonesia. Syntypes: MNHN A-4109 (1), 0000-3130 (1). Type catalog: Bauchot et al. 1993:95 [ref. [20810](#)]. **Current status:** Valid as *Anguilla marmorata* Quoy & Gaimard 1824. Anguillidae. **Distribution:** Indo-West Pacific: South Africa, East Africa, Mayotte (France), Madagascar and Mascarenes (La Réunion, Mauritius, Rodrigues) east to Caroline Islands (Micronesia), Mariana Islands, Gambier Islands and Marquesas Islands (French Polynesia), north to southern Japan, south to South Australia and New Caledonia. Habitat: freshwater, brackish, marine.

Anguilla mauritiana Bennett [E. T.] 1831:128 [Proceedings of the Committee of Science and Correspondence of the Zoological Society of London 1830-31 (pt 1); ref. [16794](#)] Mauritius, Mascarenes, southwestern Indian Ocean. No types known. Current status: Synonym of *Anguilla marmorata* Quoy & Gaimard 1824. Anguillidae.

Anguilla labrosa Richardson [J.] 1848:113 [Ichthyology of the voyage of H. M. S. Erebus & Terror v. 2 (2); ref. [3740](#)] South Seas. Holotype (unique): BMNH 1848.5.18.198. Current status: Synonym of *Anguilla marmorata* Quoy & Gaimard 1824. Anguillidae.

Muraena manillensis Bleeker [P.] 1864:31 [Nederlandsch Tijdschrift voor de Dierkunde v. 2; ref. [13922](#)] Manila, Philippines. No types known. Current status: Synonym of *Anguilla marmorata* Quoy & Gaimard 1824. Anguillidae.

Anguilla johannae Günther [A.] in Playfair & Günther 1867:124, fig'd. [The fishes of Zanzibar; ref. [3490](#)] Johanna Island, Anjouan Island, Comoro Islands. Holotype (unique): BMNH 1867.3.9.419 (stuffed). Current status: Synonym of *Anguilla marmorata* Quoy & Gaimard 1824. Anguillidae.

Anguilla fidjiensis Günther [A.] 1870:26 [Catalogue of the fishes in the British Museum v. 8; ref. [1995](#)] Fiji Islands: Kandavu, Nairai. Syntypes: (2) BMNH 1869.11.12.59 (1). Current status: Synonym of *Anguilla marmorata* Quoy & Gaimard 1824. Anguillidae.

Anguilla hildebrandti Peters [W. (C. H.)] 1881:19 [Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin 1881 (no. 2) (for 15 Feb. 1881); ref. [18546](#)] Northwestern Madagascar. Holotype: ZMB 11385. Paratypes: ?MNHN 1880-0508 (1). Type catalog: Bauchot et al. 1993:95 [ref. [20810](#)] but as MNHN A.4146, holotype, for Sauvage 1891:499; Fricke et al. 2018:31 [ref. [35805](#)]. Current status: Synonym of *Anguilla marmorata* Quoy & Gaimard 1824. Anguillidae.

***Anguilla megastoma* Kaup 1857**

Anguilla megastoma Kaup [J. J.] 1857:50, Pl. 8 (fig. 42) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Mangareva, Gambier Islands, French Polynesia. Holotype (unique): MNHN A-9952. Type catalog: Bauchot et al. 1993:96 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:56 [ref. [2572](#)]. **Current status:** Valid as *Anguilla megastoma* Kaup 1857. Anguillidae. **Distribution:** Western Pacific: New Britain (Papua New Guinea) and New Caledonia to Society and Gambier islands. Habitat: freshwater, brackish, marine.

Anguilla otaheitensis Kaup [J. J.] 1859:17, Pl. 2 (fig. 2) [Abhandlungen aus dem Gebiete der Naturwissenschaften herausgegeben von dem Naturwissenschaftlichen Verein in Hamburg v. 4 (no. 2); ref. [2586](#)] Tahiti, Society Islands. Holotype (unique): ZMH H388. Type catalog: Ladiges et al. 1958:160 [ref. [19181](#)], Wilkens & Dohse 1993:404 [ref. [21161](#)]. Current status: Synonym of *Anguilla megastoma* Kaup 1857. Anguillidae.

Anguilla aneitensis Günther [A.] 1870:34, Fig. [Catalogue of the fishes in the British Museum v. 8; ref. [1995](#)] Aneityum [Anatom] Island, Vanuatu. Holotype (unique): BMNH 1855.8.16.52. Current status: Synonym of *Anguilla megastoma* Kaup 1857. Anguillidae.

***Anguilla mossambica* (Peters 1852)**

Muraena (Anguilla) mossambica Peters [W. (C. H.)] 1852:684 [Bericht über die zur Bekanntmachung geeigneten Verhandlungen der Königlichen Preussischen Akademie der Wissenschaften zu Berlin 1852; ref. [18539](#)] Molumbo [Lumbo] River, Mozambique [East Africa]. Holotype (unique): ZMB 6230. Also in Peters 1868:98, Pl. 18 (fig. 1) [ref. [3440](#)] as *Anguilla mossambica*. **Current status:** Valid as *Anguilla mossambica* (Peters 1852). Anguillidae. **Distribution:** Western Indian Ocean: South Africa and East Africa, Mayotte (France), Madagascar and western Mascarenes (La Réunion, Mauritius). Habitat: freshwater, brackish, marine.

Tribranchus anguillararis Peters [W. (C. H.)] in Müller 1846:193, footnote [Abhandlungen der Königlichen Akademie der Wissenschaften zu Berlin for 1844; ref. [13283](#)] Perhaps available, very brief description in footnote. Current status: Synonym of *Anguilla mossambica* (Peters 1852). Anguillidae.

Anguilla delalandi Kaup [J. J.] 1857:50, Pl. 8 (fig. 41) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Great Fish River, Cape of Good Hope, South Africa. Holotype (unique): MNHN (not found). Type catalog: Bauchot et al. 1993:124 [ref. [20810](#)]. Appeared first without description in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla mossambica* (Peters 1852). Anguillidae.

Anguilla capensis Kaup [J. J.] 1859:18, Pl. 2 (fig. 3) [Abhandlungen aus dem Gebiete der Naturwissenschaften herausgegeben von dem Naturwissenschaftlichen Verein in Hamburg v. 4 (no. 2); ref. [2586](#)] Holotype (unique): ZSM [old collection] destroyed in WWII. Type catalog: Neumann 2006:265 [ref. [28925](#)]. Current status: Synonym of *Anguilla mossambica* (Peters 1852). Anguillidae.

Anguilla capensis Castelnau [F. L.] 1861:73 [Mémoire sur les poissons de l'Afrique australe; ref. [767](#)] Grand Namaquois (Namaquas), South Africa. Holotype (unique): MNHN A-2337. Type catalog: Bauchot et al. 1993:94 [ref. [20810](#)]. Objectively invalid; preoccupied by *Anguilla capensis* Kaup 1860. 1°Homonym. Current status: Synonym of *Anguilla mossambica* (Peters 1852). Anguillidae.

***Anguilla nebulosa* McClelland 1844**

Anguilla nebulosa McClelland [J.] 1844:179, 202, Pl. 5 (fig. 2) [Calcutta Journal of Natural History v. 5 (no. 18); ref. [2928](#)] Bengal, India and Sandoway, Burma. Syntypes: SMF 993 (1). **Current status:** Valid as *Anguilla nebulosa* McClelland 1844. Anguillidae. **Distribution:** Indo-West Pacific. Habitat: freshwater, brackish, marine.

Anguilla obscura Günther 1872

Anguilla obscura Günther [A.] 1872:673 [Proceedings of the Zoological Society of London 1871 (pt 3) (art. 1) (for 21 Nov. 1871); ref. [1997](#)] Kanathea, Fiji Islands. Holotype (unique): BMNH 1871.9.13.145. **Current status:** Valid as *Anguilla obscura* Günther 1872. Anguillidae.

Distribution: Western Pacific: eastern Australia and Papua New Guinea east to Tuamotu Archipelago and Gambier Islands. Habitat: freshwater, brackish, marine.

Anguilla marginipinnis Macleay [W.] 1883:210 [Proceedings of the Linnean Society of New South Wales v. 8 (pt 2); ref. [14342](#)] Lillesmere Lagoon, Burdekin River, Queensland, Australia. Syntypes: AMS A.17994 (1), A.17997-99 (1, 1, 1), A.18001 (1); QM I.3497 (1); Macleay Mus. [ex AMS I.17995] (1). Syntype AMS A.17998 is *Anguilla reinhardtii* Steindachner 1867 -- (Paxton et al. 1989:123 [ref. [12442](#)]). Current status: Synonym of *Anguilla obscura* Günther 1872. Anguillidae.

Anguilla pacifica Schmidt 1928

Anguilla pacifica Schmidt [E. J.] 1928:190, 206 [Records of the Australian Museum v. 16 (no. 4); ref. [18703](#)] Pacific, north of the equator. Syntypes: (several) whereabouts unknown. Written description of this species is apparently lacking in the text, but several tables within the work list meristic counts. Often seen dated to Schmidt 1932. **Current status:** Valid as *Anguilla pacifica* Schmidt 1928. Anguillidae. **Distribution:** Western Pacific; north of the equator, north to Iriomote Island (Japan). Habitat: freshwater, brackish, marine.

Anguilla reinhardtii Steindachner 1867

Anguilla reinhardtii Steindachner [F.] 1867:15, Figs. a-b [Sitzungsberichte der Mathematisch-Naturwissenschaftlichen Classe der Kaiserlichen Akademie der Wissenschaften v. 55 (1. Abth.); ref. [4214](#)] Fitzroy River, Rockhampton, Queensland, Australia. Holotype (unique): NMW 3307. **Current status:** Valid as *Anguilla reinhardtii* Steindachner 1867. Anguillidae.

Distribution: Southwestern Pacific: Australia, New Guinea and New Caledonia. Habitat: freshwater, brackish, marine.

Anguilla rostrata (Lesueur 1817)

Muraena rostrata Lesueur [C. A.] 1817:81 [Journal of the Academy of Natural Sciences, Philadelphia v. 1 (pt 1, no. 5) (19 Aug.); ref. [17509](#)] Cayuga and Geneva lakes, New York, U.S.A. No types known. See Smith 1989:35 [ref. [13285](#)] for nomenclatural discussion. **Current status:** Valid as *Anguilla rostrata* (Lesueur 1817). Anguillidae. **Distribution:** Western Atlantic: north to Newfoundland and Greenland; North, Central and South America; West Indies and in Atlantic and Caribbean draining rivers; eastern Atlantic: rarely Azores. Introduced in Italy. Habitat: freshwater, brackish, marine.

Muraena argentea Lesueur [C. A.] 1817:82 [Journal of the Academy of Natural Sciences, Philadelphia v. 1 (pt 1, no. 5) (19 Aug.); ref. [17509](#)] Boston Harbor, Massachusetts, U.S.A. No types known. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Muraena bostoniensis Lesueur [C. A.] 1817:81 [Journal of the Academy of Natural Sciences, Philadelphia v. 1 (pt 1, no. 5) (19 Aug.); ref. [17509](#)] Boston, Massachusetts, U.S.A. No types known. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Muraena macrocephala Lesueur [C. A.] 1817:82 [Journal of the Academy of Natural Sciences, Philadelphia v. 1 (pt 1, no. 5) (19 Aug.); ref. [17509](#)] Saratoga, New York; Philadelphia market, U.S.A. No types known. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Muraena serpentina Lesueur [C. A.] 1817:81 [Journal of the Academy of Natural Sciences, Philadelphia v. 1 (pt 1, no. 5) (19 Aug.); ref. [17509](#)] Harbor of Newport, Rhode Island, U.S.A. No types known. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla blephura Rafinesque [C. S.] 1817:120 [American Monthly Magazine and Critical Review v. 2 (no. 2); ref. [18584](#)] Southwestern shore of Long Island, New York, U.S.A. No

types known. As name only in Ref 1817:453 [ref. [18585](#)]. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla chrysypa Rafinesque [C. S.] 1817:120 [American Monthly Magazine and Critical Review v. 2 (no. 2); ref. [18584](#)] Lake George, Lake Champlain, and Hudson River above the Falls, U.S.A. No types known. Spelled *chrysypa* in early literature. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla laticanda Rafinesque [C. S.] 1818:447 [American Monthly Magazine and Critical Review v. 3 (no. 6) (art. 6) (Oct.); ref. [3587](#)] Ohio River, Wabash River, Green River, etc., U.S.A. No types known. Spelled *laticanda* twice but *laticauda* intended based on subsequent use by Rafinesque (e.g., 1820:245 [ref. [5088](#)]). See Smith 1989:35 [ref. [13285](#)] for nomenclatural discussion. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla aterrima Rafinesque [C. S.] 1820:245 [Western Review and Miscellaneous Magazine: a monthly publ., devoted to literature and science, Lexington, KY v. 3 (no. 4); ref. [5088](#)] Tennessee River, Cumberland River, etc., U.S.A. No types known. Also in Rafinesque 1820:78 [ref. [3592](#)]. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla lutea Rafinesque [C. S.] 1820:246 [Western Review and Miscellaneous Magazine: a monthly publ., devoted to literature and science, Lexington, KY v. 3 (no. 4); ref. [5088](#)] Cumberland, Green and Licking rivers, U.S.A. No types known. Also in Rafinesque 1820:78 [ref. [3592](#)]. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla xanthomelas Rafinesque [C. S.] 1820:245 [Western Review and Miscellaneous Magazine: a monthly publ., devoted to literature and science, Lexington, KY v. 3 (no. 4); ref. [5088](#)] Ohio River, U.S.A. No types known. Also in Rafinesque 1820:78 [ref. [3592](#)]. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla tenuirostris DeKay [J. E.] 1842:310, Pl. 53 (fig. 173) [Zoology of New-York; ref. [1098](#)] New York, U.S.A. No types known. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla cubana Kaup [J. J.] 1857:44 [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Cuba. Holotype (unique): MNHN B-2105. Type catalog: Bauchot et al. 1993:94 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla macrops Kaup [J. J.] 1857:49, Pl. 7 (fig. 38) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] No locality. Holotype (unique): MNHN B-3154. Type catalog: Bauchot et al. 1993:95 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:56 [ref. [2572](#)]. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla novaeorleanensis Kaup [J. J.] 1857:43, Pl. 6 (fig. 33) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] New Orleans, Louisiana, U.S.A. Syntypes: MNHN B-2111 (2). Type catalog: Bauchot et al. 1993:96 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla novaeterrae Kaup [J. J.] 1857:45, Pl. 7 (fig. 35) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Newfoundland, Canada. Holotype (unique): MNHN B-2106. Type catalog: Bauchot et al. 1993:96 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:55 [ref. [2572](#)] as *novaterrae*. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla punctatissima Kaup [J. J.] 1857:44 [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Niagara Falls, U.S.A. and Canada. Holotype (unique): MNHN (not found). Type catalog: Bauchot et al. 1993:124 [ref. [20810](#)]. Appeared first without description in Kaup 1856:55 [ref. [2572](#)]. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla texana Kaup [J. J.] 1857:45, Pl. 7 (fig. 36) [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Texas, U.S.A. Holotype (unique): MNHN B-2109.

Type catalog: Bauchot et al. 1993:97 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:56 [ref. [2572](#)]. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla wabashensis Kaup [J. J.] 1857:46 [Catalogue of the apodal fish in the collection of the British Museum; ref. [2573](#)] Wabash River, tributary of Ohio River, U.S.A. Holotype (unique): MNHN B-2117. Type catalog: Bauchot et al. 1993:97 [ref. [20810](#)]. Appeared first as name only in Kaup 1856:56 [ref. [2572](#)]. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Anguilla tyrannus Girard [C. F.] 1858:171 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 10; ref. [1813](#)] Mouth of Rio Grande del Norte (Rio Bravo), Texas, U.S.A. Holotype (unique): USNM 857 [= USNM 43108]. See also Girard 1859:75, Pl. 40 [ref. [13405](#)]. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Leptocephalus grassii Eigenmann [C. H.] & Kennedy [C. H.] 1902:84, Figs. 1, 1a-b [Bulletin of the U. S. Fish Commission v. 21 (1901); ref. [11071](#)] Atlantic, Albatross station 2103, 38°47'20"N, 72°37'W, depth 0-1091 fathoms; 38°25'N, 72°40'W. Syntypes USNM 49751-52 (1, 1). Type catalog: Smith 1994:3 [ref. [21917](#)]. Appeared as *Leptocephalus grassii*, sp. nov. = *Anguilla chrysypha*. Current status: Synonym of *Anguilla rostrata* (Lesueur 1817). Anguillidae.

Family Anguillidae – indeterminate names:

Anguilla latirostris Yarrell [W.] 1836:298 [A history of British fishes; ref. [4812](#)] Great Britain. No types known. Apparently independent of, and preoccupied by *Anguilla latirostris* Risso 1827; objectively invalid. Appeared earlier as the "Grig" without Latinization in Yarrell 1832 [ref. [17746](#)] and perhaps Jenyns 1835 [ref. [18335](#)] (not researched). 1°Homonym. Anguillidae.

Anguilla macroptera McClelland [J.] 1843:407, Pl. 25 (fig. 1) [Calcutta Journal of Natural History v. 4 (no. 4) (for 1844); ref. [2927](#)] Chusan, China. Anguillidae.

Anguilla isinglaena Kaup [J. J.] 1856:50, Pl. 8 (fig. 40) [Archiv für Naturgeschichte v. 22 (pt. 1); ref. [2572](#)] No locality. Anguillidae.

Anguilla porphyrea Günther [A.] (ex Hodgson) 1861:226 [Proceedings of the Zoological Society of London 1861 (pt 2) (art. 3) (for 28 May 1861); ref. [18214](#)] Rosi Khola, a clear hill-stream, central region of Nepal. No types known. Based on a drawing. Perhaps not intended as new by Günther, who cited Hodgson's species name. Anguillidae.

Anguilla caeca Smith [H. M.] 1904:121, Fig. 1 [Proceedings of the Biological Society of Washington v. 17; ref. [10233](#)] Western Atlantic, 60 miles south of Noman's Land, Massachusetts, U.S.A. Holotype: USNM 51483 (lost). Type lost; unidentifiable (D. G. Smith, pers. Comm. 12/2000). Anguillidae. Habitat: marine.

Leptocephalus inferior Shen [S.-C.] 1963:261, Figs. 1-3 [Quarterly Journal of the Taiwan Museum (Taipei) v. 16 (nos 3-4); ref. [5280](#)] Estuary of the Tam-sui River, northern Taiwan. Syntypes: NTUM uncat. (2). Type catalog: Ho & Shao 2011:63 [ref. [31432](#)]. •Larvae, may belong to a species of *Anguilla* -- (Ho & Shao 2011:63 [ref. [31432](#)]). Anguillidae. Habitat: marine.

- Class **Actinopteri**
 - Order **Cypriniformes**
 - Suborder **Catostomoidei**
 - Family **Catostomidae** Agassiz 1850 (suckers)
 - Subfamily **Catostominae** Agassiz 1850 (suckers)

Genus **Chasmistes** Jordan [D. S.] 1878:417 [Bulletin of the United States Geological and Geographical Survey of the Territories. v. 4 (no. 2, art. 18); ref. [2379](#)] Masc. *Catostomus fecundus* Jordan (not of Cope & Yarrow) 1878 (= *Chasmistes liorus* Jordan 1878). Type by original designation. First in Jordan 1878 with type in footnote *Catostomus fecundus*, then in Jordan 1878:219 [ref. [12254](#)] where he recognized that the type was based on a misidentified type species which he renamed *C. liorus* (see Miller & Smith 1981:5 [ref. [5465](#)]). •Generally considered valid as *Chasmistes* Jordan 1878 (e.g., Miller & Smith 1981 [ref. [5465](#)], Gilbert 1998:20 [ref. [23395](#)], Scharpf 2006:8 [ref. [30386](#)]). •Considered a synonym of *Catostomus* Lesueur 1817 – by Chen & Mayden 2012:195 [ref. [32391](#)].
Current status: Valid as *Chasmistes* Jordan 1878. Catostomidae: Catostominae.

Lipomyzon Cope [E. D.] 1881:59 [American Naturalist v. 15 (no. 1); ref. [949](#)] Masc. *Chasmistes brevirostris* Cope 1879. Type by subsequent designation. Type designated by Jordan & Gilbert 1883:132 [ref. [2476](#)]. Current status: Synonym of *Chasmistes* Jordan 1878. Catostomidae: Catostominae.

Pithecomyzon (subgenus of *Lipomyzon*) Fowler [H. W.] 1913:54 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 65; ref. [1388](#)] Masc. *Chasmistes cujus* Cope 1883. Type by original designation (also monotypic). Current status: Synonym of *Chasmistes* Jordan 1878. Catostomidae: Catostominae.

Chasmistes brevirostris Cope [E. D.] 1879:785 [American Naturalist v. 13 (no. 12); ref. [18034](#)] Upper Klamath Lake, Klamath County, Oregon, U.S.A. Lectotype: ANSP 20959. Paralectotypes: ANSP 20522 (1). Type catalog: Böhlke 1984:34 [ref. [13621](#)], Gilbert 1998:174 [ref. [23395](#)]. Lectotype established by Fowler 1913:53 [ref. [1388](#)]. **Current status:** Valid as *Chasmistes brevirostris* Cope 1879. Catostomidae: Catostominae. **Distribution:** Oregon and California, U.S.A. Habitat: freshwater.

Chasmistes stomias Gilbert [C. H.] 1898:5, Fig. [Bulletin of the U. S. Fish Commission v. 17 (art. 1) []; ref. [12349](#)] Upper Klamath Lake, Klamath County, Oregon, U.S.A. Holotype: USNM 48223 [ex CAS-SU 11757]. Paratypes: CAS-SU 4820 (2), 11758-59 (1, 1). Type catalog: Böhlke 1953:28 [ref. [12291](#)], Gilbert 1998:200-201 [ref. [23395](#)]. Current status: Synonym of *Chasmistes brevirostris* Cope 1879. Catostomidae: Catostominae.

Chasmistes copei Evermann [B. W.] & Meek [S. E.] 1898:70, Fig. 3 [Bulletin of the U. S. Fish Commission v. 17 (art. 2) [1897]; ref. [14683](#)] Northwestern part of Pelican Bay, Upper Klamath Lake, Klamath County, Oregon, U.S.A. Holotype (unique): USNM 48224. Type catalog: Gilbert 1998:178 [ref. [23395](#)]. Current status: Synonym of *Chasmistes brevirostris* Cope 1879. Catostomidae: Catostominae.

Chasmistes cujus Cope [E. D.] 1883:149 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 35; ref. [951](#)] Pyramid Lake, Washoe County, Nevada, U.S.A. Holotype (unique): ANSP 20523. Type catalog: Böhlke 1984:35 [ref. [13621](#)], Gilbert 1998:179 [ref. [23395](#)]. **Current status:** Valid as *Chasmistes cujus* Cope 1883. Catostomidae: Catostominae. **Distribution:** Nevada, U.S.A. Habitat: freshwater.

Chasmistes fecundus (Cope & Yarrow 1875). *Catostomus fecundus* Cope [E. D.] & Yarrow [H. C.] 1875:678, Pl. 32 (figs. 1, 1a-b) [Engineer Department, United States Army, Report upon the Geographical and Geological Explorations and Surveys west of the one hundredth Meridian v. 5 (Zoology) Chapter 6; ref. [968](#)] Utah Lake, Wasatch County, Utah, U.S.A. Lectotype: USNM

16988. Paralectotypes: USNM 12894 (1). Type catalog: Gilbert 1998:182-183 [ref. [23395](#)]. Lectotype selected by Miller & Smith 1981:11 [ref. [5465](#)] as accepted by Gilbert 1998:182-183 [ref. [23395](#)]. As *Catostomus fecundum* in legend to Pl. 32 (regarded as in error). •Valid or possible hybrid -- Lee et al. 1980:378 [ref. [22416](#)]. •Hybrid of *Catostomus ardens* x *Chasmistes liorus* -- Gilbert 1998:183 [ref. [23395](#)]. •Valid as *Chasmistes fecundus* (Cope & Yarrow 1875) -- Cook 2001:293 [ref. [25390](#)]. **Current status:** Valid as *Chasmistes fecundus* (Cope & Yarrow 1875). Catostomidae: Catostominae. **Distribution:** Utah, U.S.A. Habitat: freshwater.

Chasmistes liorus Jordan [D. S.] 1878:219 [Bulletin of the United States National Museum No. 12; ref. [12254](#)] Utah Lake, Wasatch County, Utah, U.S.A. Holotype (unique): USNM 75832 [ex USNM 20932]. Type catalog: Gilbert 1998:190 [ref. [23395](#)]. Added in addenda; based on *Chasmistes fecundus* of Jordan as treated on p. 150 of same reference. **Current status:** Valid as *Chasmistes liorus* Jordan 1878. Catostomidae: Catostominae. Distribution: Utah, U.S.A. Habitat: freshwater.

Chasmistes liorus mictus Miller [R. R.] & Smith [G. R.] 1981:15, Figs. 7B, 9B-C. [Occasional Papers of the Museum of Zoology University of Michigan No. 696; ref. [5465](#)] Utah Lake at Goshen, Wasatch County, Utah, U.S.A. Holotype: UMMZ 203995. Paratypes: UMMZ 138986 (7), 141458 (1), 141478 (6), 180680 (5, 2 skeletons), 203994 (3), 203996-97 (1, 3), 207720 (7). Type catalog: Gilbert 1998:192-193 [ref. [23395](#)]. •Synonym of *Chasmistes liorus* Jordan 1878, but a valid subspecies as described, according to most evaluations. Current status: Synonym of *Chasmistes liorus* Jordan 1878. Catostomidae: Catostominae. Distribution: North America: Utah (U.S.A.) [if valid.] Habitat: freshwater.

Chasmistes muriei Miller [R. R.] & Smith [G. R.] 1981:17, Fig. 9A [Occasional Papers of the Museum of Zoology University of Michigan No. 696; ref. [5465](#)] Snake River below Jackson Lake dam, Teton County, Wyoming, U.S.A. Holotype (unique): UMMZ 81530. **Current status:** Valid as *Chasmistes muriei* Miller & Smith 1981. Catostomidae: Catostominae. Distribution: Wyoming, U.S.A. [extinct]. Habitat: freshwater.

- Class **Actinopteri**

- Order **Cypriniformes**

- Suborder **Cyprinidae** Rafinesque 1815 (carps)

- Family **Cyprinidae** Rafinesque 1815 (carps)

- Subfamily **Smiliogastrinae** Bleeker 1863 (small barbs)

Genus ***Caecobarbus*** Boulenger [G. A.] 1921:252 [Revue de Zoologie Africaine v. 9 (pt 3); ref. [588](#)] Masc. *Caecobarbus geertsii* Boulenger 1921. Type by monotypy. **Current status:** Valid as *Caecobarbus* Boulenger 1921. Cyprinidae: Smiliogastrinae.

Caecobarbus geertsii Boulenger 1921

Caecobarbus geertsii Boulenger [G. A.] 1921:252, Fig. [Revue de Zoologie Africaine v. 9 (pt 3); ref. [588](#)] Grotto at Thysville, tributary of Kwilu River, itself a tributary to lower Congo River, Democratic Republic of Congo, 5°15'S, 14°52'E, elevation 700 meters. Syntypes: (4) MRAC 14610-612 (3); 1 young specimen. **Current status:** Valid as *Caecobarbus geertsii* Boulenger 1921. Cyprinidae: Smiliogastrinae. **Distribution:** Caves belonging to the lower Congo River system, Mbanza-Ngungu region, Democratic Republic of Congo. Habitat: freshwater.

- Class **Actinopteri**

- Order **Cypriniformes**
 - Suborder **Cyprinidae** Rafinesque 1815 (carps)
 - Family **Cyprinidae** Rafinesque 1815 (carps)
 - Subfamily **Probarbinae** Yang et al. 2015 (primitive cyprinids)

Probarbus Sauvage [H.-E.] 1880:232 [Bulletin de la Société philomathique de Paris (7th Série) v. 4; ref. [3889](#)] Masc. *Probarbus jullieni* Sauvage 1880. Type by monotypy. **Current status:** Valid as *Probarbus* Sauvage 1880. Cyprinidae: Probarbinae.

Probarbus jullieni Sauvage [H.-E.] 1880:232 [22] [Bulletin de la Société philomathique de Paris (7th Série) v. 4; ref. [3889](#)] Laos. Lectotype: MNHN 0000-9647 (1 of 2, 268 mm SL). Paralectotypes: MNHN 0000-9647 (1 of 2), A-4453 (1), A-6261 (1). Type catalog: Bertin & Estève 1948:21 [ref. [19574](#)]. Lectotype designated by Kottelat 1984:804 [ref. [11440](#)]. On p. 22 of separate. **Current status:** Valid as *Probarbus jullieni* Sauvage 1880. Cyprinidae: Probarbinae. Distribution: Southeast Asia: Malay Peninsula to Vietnam. Habitat: freshwater, brackish.

Cyclocheilichthys jullieni Sauvage [H.-E.] 1880:230 [20] [Bulletin de la Société philomathique de Paris (7th Série) v. 4; ref. [3889](#)] Laos. Neotype: MNHN 0000-9647. Syntypes: MNHN (2) lost. On p. 20 of separate. Neotype designated by Kottelat 2000:86 [ref. [25486](#)]. Current status: Synonym of *Probarbus jullieni* Sauvage 1880. Cyprinidae: Probarbinae. Habitat: freshwater, brackish.

Barbus pahangensis Duncker [G.] 1904:179, Pl. 1 (fig. 4) [Mitteilungen aus dem Naturhistorischen (Zoologischen) Museum in Hamburg v. 21; ref. [5560](#)] Pahang River above Kuala Kitchal, 88-120 kilometers above river mouth, Pahang, Malaysia. Lectotype: ZMH H362. Paralectotypes: BMNH 1905.5.6.11-13 [ex SSMKL] (3), ZMA 103213 (2), ZMH H363 (7), ZRC 914 (1). Type catalog: Ladiges et al. 1958:158 [ref. [19181](#)], Alfred 1963:165 [ref. [20555](#)], Alfred 1970:70 [ref. [23931](#)], Nijssen et al. 1982:27 [ref. [19236](#)], Wilkens & Dohse 1993:402 [ref. [21161](#)] as syntypes. Lectotype selected by Ladiges et al. 1958:158 [ref. [19181](#)]. Current status: Synonym of *Probarbus jullieni* Sauvage 1880. Cyprinidae: Probarbinae. Habitat: freshwater, brackish.

Probarbus labeamajor Roberts [T. R.] 1992:45, Figs. 3b, 5 [Ichthyological Exploration of Freshwaters v. 3 (no. 1); ref. [14387](#)] Mekong River near Khong Chiam, Thailand. Holotype: TISTR 2644. Paratypes: CAS 76172 (2); MNHN 1981-1343 (1, head preserved, photograph of entire fish); NIFI 1319 (1), 1356 (1); TISTR 2645 (4). **Current status:** Valid as *Probarbus labeamajor* Roberts 1992. Cyprinidae: Probarbinae. Distribution: Southeast Asia: Mekong River basin, Laos, Thailand and Cambodia. Habitat: freshwater.

Probarbus labeaminor Roberts [T. R.] 1992:46, Figs. 3c, 6 [Ichthyological Exploration of Freshwaters v. 3 (no. 1); ref. [14387](#)] Mekong River near That Phanom, Thailand. Holotype: TISTR 2647. Paratypes: CAS 76171 (2), NIFI 2145 (2), NIFI uncat. (1), TISTR 2448 (1), ZSM 40564 [ex CMK 6000] (1). Type catalog: Neumann 2011:255 [ref. [31652](#)]. ZSM 40564 is still at CMK as of 2010. **Current status:** Valid as *Probarbus labeaminor* Roberts 1992. Cyprinidae: Probarbinae. Distribution: Mekong River, Thailand. Habitat: freshwater.

- Class **Actinopteri**
 - Order **Osteoglossiformes**
 - Family **Arapaimidae** Bonaparte 1846 (arapaimas)

Genus **Arapaima** Müller [J.] 1843:326 [Archiv für Naturgeschichte v. 9 (pt. 1); ref. [3063](#)] Fem. *Sudis gigas* Schinz 1822. Type by being a replacement name. Replacement for *Sudis* Cuvier. On Official List (Opinion 1132). •Valid as *Arapaima* Müller 1843 -- (Lundberg & Chernoff 1992:2 [ref. [25493](#)], Hilton 2003:90 [ref. [26584](#)], Ferraris in Reis et al. 2003:31 [ref. [27061](#)], Stewart 2013:38 [ref. [32556](#)], Stewart 2013:470 [ref. [23923](#)], Kottelat 2013:31 [ref. [32989](#)]). **Current status:** Valid as *Arapaima* Müller 1843. Arapaimidae.

Sudis Cuvier [G.] 1816:180 [Le Règne Animal; ref. [993](#)] Fem. *Sudis gigas* Schinz 1822. Type by subsequent monotypy. Appeared without species. Earliest addition of species probably by Schinz 1822 or Cuvier 1829:327 [ref. [995](#)]. Objectively invalid; preoccupied by *Sudis* Rafinesque 1810 in fishes. *Vastres* Valenciennes 1846 later used for *Sudis* Cuvier. 1°Homonym. Current status: Synonym of *Arapaima* Müller 1843. Arapaimidae.

Vastres Valenciennes [A.] in Cuvier & Valenciennes 1847:433 [Histoire naturelle des poissons v. 19; ref. [4883](#)] Masc. *Vastres cuvieri* Valenciennes 1847. Type by subsequent designation. Earliest type designation apparently by Jordan 1919. Treated as masculine, Art. 30.2.4. Current status: Synonym of *Arapaima* Müller 1843. Arapaimidae.

Arapaima agassizii (Valenciennes 1847)

Vastres agassizii Valenciennes [A.] in Cuvier & Valenciennes 1847:456 [Histoire naturelle des poissons v. 19; ref. [4883](#)] Brazil. No types known. •Considered a synonym of *Arapaima gigas* (Schinz 1822) by Ferraris in Reis et al. 2003:31 [ref. [27061](#)]. •Considered valid as *Arapaima agassizii* Valenciennes 1847 by Stewart 2013:38 [ref. [32556](#)], Stewart 2013:471 [ref. [32923](#)]. **Current status:** Valid as *Arapaima agassizii* (Valenciennes 1847). Arapaimidae. **Distribution:** Brazil (known from holotype). Habitat: freshwater.

Arapaima arapaima (Valenciennes 1847)

Vastres arapaima Valenciennes [A.] In Cuvier & Valenciennes 1847:461 [Histoire naturelle des poissons v. 19; ref. [4883](#)] Rupununi River, British Guiana, South America. Syntypes: BMNH 2009.1.19.1 (1, dried and stuffed) Based on the description of *Sudis gigas* in Schomburgk 1841:198, Pl. 11 [ref. [18707](#)]. •Considered a synonym of *Arapaima gigas* (Schinz 1822) by Ferraris in Reis et al. 2003:31 [ref. [27061](#)]. •Considered valid as *Arapaima arapaima* (Valenciennes 1847) by Stewart 2013:38 [ref. [32556](#)], Stewart 2013:471 [ref. [32923](#)], Kottelat 2013:31 [ref. [32989](#)]. **Current status:** Valid as *Arapaima arapaima* (Valenciennes 1847). Arapaimidae. **Distribution:** South America: Rupununi River basin, Guyana. Habitat: freshwater.

Arapaima gigas (Schinz 1822)

Sudis gigas Schinz [H. R.] (ex Cuvier) 1822:305 [Das Thierreich v. 2; ref. [3926](#)] Brazil. Holotype: MNHN A-8837. Based on Cuvier, Regne Animal, pl. X. **Current status:** Valid as *Arapaima gigas* (Schinz 1822). Arapaimidae. **Distribution:** South America: Amazon River basin: Brazil, Colombia, Ecuador, ?Guyana and Peru. Introduced in Java (Indonesia) and the Philippines. Habitat: freshwater.

Sudis gigas Cuvier [G.] 1829:328 [Le Règne Animal (Edition 2) v. 2; ref. [995](#)] Brazil. Holotype (unique): MNHN A-8837 (dry). Type catalog: Bertin 1940:271 [ref. [293](#)]. As "*Sudis gigas*, n. S. *pirarucu*, Spix, xvi." See *Sudis gigas* Schinz 1822. 1°Homonym. Current status: Synonym of *Arapaima gigas* (Schinz 1822). Arapaimidae. Habitat: freshwater.

Vastres cuvieri Valenciennes [A.] in Cuvier & Valenciennes 1847:441, Pls. 579-580 [not 545-546] [Histoire naturelle des poissons v. 19; ref. [4883](#)] Pará state, Brazil. Holotype: MNHN A-

8837. Current status: Synonym of *Arapaima gigas* (Schinz 1822). Arapaimidae. Habitat: freshwater.

Arapaima leptosoma Stewart 2013

Arapaima leptosoma Stewart [D. J.] 2013:471, Figs. 1, 2A [Copeia 2013 (no. 3); ref. [32923](#)] Amazonas State, Solimões River about 200 km west Manaus and 21 km SW of confluence with Purus River, near Anori, approximately 3.75583°S. 61.67388°W, Brazil. Holotype (unique): INPA 16847. **Current status:** Valid as *Arapaima leptosoma* Stewart 2013. Arapaimidae. **Distribution:** Solimões River drainage, Brazil. Habitat: freshwater.

Arapaima mapae (Valenciennes 1847)

Vastres mapae Valenciennes [A.] in Cuvier & Valenciennes 1847:449, Pls. 581-582 [not 547-548] [Histoire naturelle des poissons v. 19; ref. [4883](#)] [Lago Mapa] now Lago do Amapá, Amapá State, Brazil. Holotype: MNHN A-8836 (dried and stuffed). Type catalog: Bertin 1940:271 [ref. [293](#)]. •Considered a synonym of *Arapaima gigas* (Schinz 1822) by Ferraris in Reis et al. 2003:31 [ref. [27061](#)]. •Considered valid as *Arapaima mapae* (Valenciennes 1847) by Stewart 2013:39 [ref. [32556](#)], Stewart 2013:471 [ref. [32923](#)]. **Current status:** Valid as *Arapaima mapae* (Valenciennes 1847). Arapaimidae. **Distribution:** Brazil (known from holotype). Habitat: freshwater.

Genus ***Heterotis*** Rüppell [W. P. E. S.] (ex Ehrenberg) 1829:10 (footnote) [Beschreibung und Abbildung mehrerer neuer Fische, im Nil entdeckt 1829; ref. [22233](#)] Masc. *Sudis niloticus* Cuvier 1829. Type by monotypy. On Official List (Opinion 1132); gender given as masculine by ICZN but is classically feminine. Ruled by ICZN to be available from publication in synonymy by Rüppell. Previously credited to Ehrenberg 1836:432 [ref. [5036](#)]. **Current status:** Valid as *Heterotis* Rüppell 1829. Arapaimidae.

Clupisudis (subgenus of *Sudis*) Swainson [W.] 1839:185, 286 [The natural history and classification v. 2; ref. [4303](#)] Fem. *Sudis niloticus* Cuvier 1829. Type by monotypy. Current status: Synonym of *Heterotis* Rüppell 1829. Arapaimidae.

Helicobranchus Hyrtl [C. J.] 1854:86 [Denkschriften der Kaiserlichen Akademie der Wissenschaften in Wien, Mathematisch-Naturwissenschaftliche Classe. v. 8; ref. [2290](#)] Masc. *Sudis niloticus* Cuvier 1829. Type by being a replacement name. Apparently an unneeded replacement for *Heterotis* Rüppell. Current status: Synonym of *Heterotis* Rüppell 1829. Arapaimidae.

Heterotis niloticus (Cuvier 1829)

Sudis niloticus Cuvier [G.] (ex Ehrenberg) 1829:328 [Le Règne Animal (Edition 2) v. 2; ref. [995](#)] Nile River. Presumed holotype: ZMB 3935. **Current status:** Valid as *Heterotis niloticus* (Cuvier 1829). Arapaimidae. **Distribution:** Africa: Nile River and West Africa. Introduced in Gabon and Madagascar. Habitat: freshwater.

Sudis adansonii Cuvier [G.] 1829:328 [Le Règne Animal (Edition 2) v. 2; ref. [995](#)] Senegal River, Senegal. Lectotype: MNHN 0000-3608. Paralectotypes: Rüppell specimen (1). Type catalog: Bertin 1940:272 [ref. [293](#)]. Bertin and authors regard MNHN 3608 as holotype; a Rüppell specimen is also mentioned so MNHN was designated lectotype by Eschmeyer 1998:39 [ref. [23416](#)]. Current status: Synonym of *Heterotis niloticus* (Cuvier 1829). Arapaimidae.

Sudis niloticus Rüppell [W. P. E. S.] 1829:10, Pl. 3 (fig. 2) [Beschreibung und Abbildung mehrerer neuer Fische, im Nil entdeckt 1829; ref. [22233](#)] Nile River, Dongola Province, Sudan. Apparently predated by Cuvier 1829; date for Rüppell possibly after 1829. 1°Homonym. Current status: Synonym of *Heterotis niloticus* (Cuvier 1829). Arapaimidae.

Heterotis adansoni Valenciennes [A.] in Cuvier & Valenciennes 1847:478 [Histoire naturelle des poissons v. 19; ref. [4883](#)] Senegal; Niger. Predated by *Sudis adansonii* Cuvier 1829. Current status: Synonym of *Heterotis niloticus* (Cuvier 1829). Arapaimidae.

Heterotis ehrenbergii Valenciennes [A.] in Cuvier & Valenciennes 1847:469, Pl. 584 [not 549] [Histoire naturelle des poissons v. 19; ref. [4883](#)] Nile River. Syntypes: MNHN A-0824 (1, dry), B-2221 (1, dry). •Synonym of *Heterotis niloticus* (Cuvier 1829) -- (Daget 1984:58 [ref. [6170](#)]). Current status: Synonym of *Heterotis niloticus* (Cuvier 1829). Arapaimidae. Habitat: freshwater.

- Class **Actinopteri**
 - Order **Osteoglossiformes**
 - Family **Osteoglossidae** Bonaparte 1845 (bonytongues)

Genus ***Osteoglossum*** Cuvier [G.] (ex Vandelli) 1829:328 [Le Règne Animal (Edition 2) v. 2; ref. [995](#)] Neut. *Osteoglossum bicirrhosum* Cuvier 1829. Type designated by the ICZN. Cuvier 1829 predates Spix and Agassiz 1829 [ref. [13](#)] (Whitehead & Myers 1971 [ref. [6584](#)] and Kottelat 1988:81 [ref. [13380](#)]). Authorship of species differs from Whitehead & Myers; see also treatment in 1990 edition of the "Genera." Type species and authorship as above established in Opinion 1621 in 1990. **Current status:** Valid as *Osteoglossum* Cuvier 1829. Osteoglossidae.

Osteoglossum Agassiz [L.] in Spix & Agassiz 1829:46 [Selecta genera et species piscium quos in itinere per Brasiliam; ref. [13](#)] Neut. *Osteoglossum bicirrhosum* Spix & Agassiz 1829. Type by monotypy. See account of *Osteoglossum* Cuvier 1829. Ferraris in Reis et al. 2003:30 [ref. [27061](#)] treats Spix & Agassiz as authors. Current status: Synonym of *Osteoglossum* Cuvier 1829. Osteoglossidae.

Ischnosoma Agassiz [L.] in Spix & Agassiz 1829:46, 47 [Selecta genera et species piscium quos in itinere per Brasiliam; ref. [13](#)] Neut. *Osteoglossum bicirrhosum* Spix & Agassiz 1829. Not available, name published in synonymy of *Osteoglossum* Cuvier 1829, and apparently never made available. Type as given by Jordan 1917:132 [ref. [2407](#)]; if not technically available then it would have no type species. Kottelat differs in that he feels Agassiz's use validates the name *Ischnosoma* back to Cuvier, but Agassiz used the name only in synonymy. See account of *Osteoglossum*. Current status: Synonym of *Osteoglossum* Cuvier 1829. Osteoglossidae.

Delsmania (subgenus of *Scleropages*) Fowler [H. W.] 1934:243 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 85 (for 1933); ref. [1416](#)] Fem. *Osteoglossum formosum* Müller & Schlegel 1840. Type by original designation (also monotypic). Considered a synonym of *Scleropages* but a valid subgenus *Delsmania* by Roberts 2012:114 [ref. [31952](#)]. Current status: Synonym of *Scleropages* Günther 1864. Osteoglossidae.

Osteoglossum bicirrhosum (Cuvier 1829)

Ischnosoma bicirrhosum Cuvier [G.] 1829:328 [Le Règne Animal (Edition 2) v. 2; ref. [995](#)] Brazil. Holotype (unique): MNHN A-9632. Appeared as, "On en connaît une espèce assez grande du Brésil (*Osteoglossum Vandellii*, n., ou *Ischnosoma bicirrhosum*, Spix, xxv)." See Opinion 1621 in which this species was established as the senior objective synonym of *Osteoglossum vandellii* Cuvier and established as the type species of the *Osteoglossum*.

Current status: Valid as *Osteoglossum bicirrhosum* (Cuvier 1829). Osteoglossidae.

Distribution: South America: Rupununi and Oyapock rivers, Amazon River basin (Brazil, Colombia, Ecuador, Guyana, French Guiana and Peru). Introduced in Hong Kong SAR of China and the Philippines. Habitat: freshwater.

Osteoglossum vandellii Cuvier [G.] 1829:328 [Le Règne Animal (Edition 2) v. 2; ref. [995](#)] Tributary of Amazon River, Brazil. Holotype (unique): MNHN A-9632 (dry). Type catalog: Bertin 1940:271 [ref. [293](#)]. This name is ruled to be a junior objective synonym of

Osteoglossum bicirrhosum Cuvier 1829 in Opinion 1621; name placed on the Official List. Current status: Synonym of *Osteoglossum bicirrhosum* (Cuvier 1829). Osteoglossidae. Habitat: freshwater.

Osteoglossum bicirrhosum Spix [J. B. von] & Agassiz [L.] 1829:47, Pl. 25 [Selecta genera et species piscium quos in itinere per Brasiliam; ref. [13](#)] Amazon River. Regarded as described independently of Cuvier 1829 of which it is an objective synonym. See Opinion 1621. Current status: Synonym of *Osteoglossum bicirrhosum* (Cuvier 1829). Osteoglossidae.

Osteoglossum arowana Jardine [W.] in Schomburgk 1841:205, Pl. 12 [The Natural history of fishes of Guiana; ref. [18707](#)] Río Rupununi, Essequibo River, Rio Branco, Rio Negro, South America. No types known. Current status: Synonym of *Osteoglossum bicirrhosum* (Cuvier 1829). Osteoglossidae.

Osteoglossum ferreirai Kanazawa 1966

Osteoglossum ferreirai Kanazawa [R. H.] 1966:166, Fig. 3 [Ichthyologica, the Aquarium Journal v. 37 (no. 4); ref. [9039](#)] Lago de Limao on lower Rio Branco, tributary of Rio Negro, Amazonas, Brazil. Holotype: USNM 198197. Paratypes: AMNH 27679 [ex USNM 198077] (5); BMNH 1966.6.30.19-22 [ex USNM 198077] (4); USNM 198077 (now 284), 198198 (5), 231715 (17).

Current status: Valid as *Osteoglossum ferreirai* Kanazawa 1966. Osteoglossidae. Distribution: Negro River basin, Brazil. Habitat: freshwater.

Genus ***Scleropages*** Günther [A.] 1864:196 [Annals and Magazine of Natural History (Series 3) v. 14 (no. 81) (art. 21); ref. [1978](#)] Masc. *Scleropages leichardti* Günther 1864. Type by monotypy. See Berra 1989 [ref. [13530](#)] for comments on spelling of specific name. **Current status:** Valid as *Scleropages* Günther 1864. Osteoglossidae.

Scleropages formosus (Müller & Schlegel 1840)

Osteoglossum formosum Müller [S.] & Schlegel [H.] 1840:7, Pl. 1 [Verhandelingen over de natuurlijke der Nederlandsche overzeesche bezittingen / door de Leden der Natuurkundige Commissie in Indië en andere schrijvers; uitgegeven ... door C. J. Temminck No. 2; ref. [19739](#)] Lake Mahoerenge, a small lake connected by a narrow canal to the river Pekoempai, Borneo. Lectotype: RMNH.PISC 3386a. Paralectotypes: RMNH. PISC, D.1646 (2), 3386b (1), SK.366 (1); BMNH 1846.2.16.34 (1). Authorship sometimes seen as Schlegel & Müller in Müller & Schlegel. Neotype designated by Pouyaud (MZB 11877) not needed, as types were reported by van Oijen and van der Meij 2013. Date changed to 1840 (July 2013). Lectotype selected by van Oijen and van der Meij 2013:370 [ref. [32950](#)]. **Current status:** Valid as *Scleropages formosus* (Müller & Schlegel 1840). Osteoglossidae. **Distribution:** Southeast Asia. Introduced in Hong Kong (China) and the Philippines. Habitat: freshwater.

Scleropages aureus Pouyaud [L.], Sudarto [no initials] & Teugels [G. G.] 2003:298, Figs. 10, 11A-B [Cybium v. 27 (no. 4); ref. [27527](#)] Pekanbaru market, wild specimen from Siak River, Sumatra, Indonesia. Holotype: MZB 11906. Paratypes: MZB 11907-11 (5). Current status: Synonym of *Scleropages formosus* (Müller & Schlegel 1840). Osteoglossidae. Distribution: Indonesia [if valid]. Habitat: freshwater.

Scleropages legendrei Pouyaud [L.], Sudarto [no initials] & Teugels [G. G.] 2003:300, Fig. 12, 13 A-C [Cybium v. 27 (no. 4); ref. [27527](#)] Semitau, area of Sentarum Lake, West Borneo, Indonesia. Holotype: MZB 11912. Paratypes: MZB 11913 (1), 11914-15 (2), 11916-17 (2). Current status: Synonym of *Scleropages formosus* (Müller & Schlegel 1840). Osteoglossidae. Distribution: Small forested lakes bordering Sentarum Lake in upper part of Kapuas River, West Borneo, Indonesia [if valid]. Habitat: freshwater.

Scleropages macrocephalus Pouyaud [L.], Sudarto [no initials] & Teugels [G. G.] 2003:296, Figs. 8, 9A-B [Cybium v. 27 (no. 4); ref. [27527](#)] Nango Pinoh market, wild specimen from Melawi River, West Kalimantan [Borneo], Indonesia. Holotype: MCZ 11989. Paratypes: MZB 11899 (1), 11900-02 (3), 11903-05 (3). Current status: Synonym of *Scleropages formosus*

(Müller & Schlegel 1840). Osteoglossidae. Distribution: Barito River and West Borneo [if valid]. Habitat: freshwater.

Scleropages inscriptus Roberts 2013

Scleropages inscriptus Roberts [T. R.] 2012:115, Figs. 1-2 [aqua, International Journal of Ichthyology v. 18 (no. 2); ref. [31952](#)] Supposedly from Tananthayi district, Tananthayi River basin, obtained dead from aquarium fish vendor at Meik. Holotype: THNHM-F-01521. Paratypes: THNHM-F-01522 (1). **Current status:** Valid as *Scleropages inscriptus* Roberts 2012. Osteoglossidae. Distribution: Myanmar. Habitat: freshwater.

Scleropages jardinii (Saville-Kent 1892)

Osteoglossum jardinii Saville-Kent [W.] 1892:105 [Proceedings of the Royal Society of Queensland v. 8 (pt 3); ref. [14535](#)] Batavia and Gregory rivers, Cape York, Gulf of Carpentaria, Queensland, Australia. Syntypes: BMNH 1911.4.1.33-34 (2), QM (1, not found in 1997). **Current status:** Valid as *Scleropages jardinii* (Saville-Kent 1892). Osteoglossidae. **Distribution:** Northern Australia and New Guinea. Habitat: freshwater.

Scleropages leichardti Günther 1864

Scleropages leichardti Günther [A.] 1864:196 [2], Pl. 7 [Annals and Magazine of Natural History (Series 3) v. 14 (no. 81) (art. 21); ref. [1978](#)] Fitzroy River, Queensland, Australia. Holotype (unique): BMNH 1846.8.27.4. On p. 2 of separate. See Berra 1989 [ref. [13530](#)] for spelling of specific name (Leichhardt), but the spelling above is used in text and on plate and probably should be used. See Pusey et al. 2016:75 et seq. for locality correction. **Current status:** Valid as *Scleropages leichardti* Günther 1864. Osteoglossidae. **Distribution:** Australia. Habitat: freshwater.

Osteoglossum guntheri Castelnau [F. L.] 1876:131 [Journal de Zoologie v. 5; ref. [760](#)] Burdekin River, Queensland, Australia. Holotype (unique): MNHN A-9210. Current status: Synonym of *Scleropages leichardti* Günther 1864. Osteoglossidae.

- Class **Actinopteri**
 - Order **Perciformes**
 - Suborder **Labroidae**
 - Family **Labridae** Cuvier 1816 (wrasses)

Cheilinus Lacepède [B. G. E.] 1801:529 [Histoire naturelle des poissons (Lacepède) v. 3; ref. [2710](#)] Masc. *Cheilinus trilobatus* Lacepède 1801. Type by subsequent designation. Type designated by Bonaparte 1841:puntata 156, fasc. 30 [ref. [512](#)]. *Cheilinas* and *Chilinus* are early misspellings.
Current status: Valid as *Cheilinus* Lacepède 1801. Labridae.

Crassilabrus (subgenus of *Zyrichthys*) Swainson [W.] 1839:172, 225 [The natural history and classification v. 2; ref. [4303](#)] Masc. *Cheilinus undulatus* Rüppell 1835. Type by monotypy. Subgenus should have been spelled *Xyrichtys*. Current status: Synonym of *Cheilinus* Lacepède 1801. Labridae.

Thalliurus (subgenus of *Crenilabrus*) Swainson [W.] 1839:230 [The natural history and classification v. 2; ref. [4303](#)] Masc. *Thalliurus blochii* Swainson 1839. Type by monotypy. status: Synonym of *Cheilinus* Lacepède 1801. Labridae.

Urichthys (subgenus of *Zyrichthys*) Swainson [W.] 1839:172, 224 [The natural history and classification v. 2; ref. [4303](#)] Masc. *Labrus lunulatus* Forsskål 1775. Type by subsequent designation. Spelled *Urichthys* on p. 172. Subgenus should have been spelled *Xyrichtys*. Type designated by Swain 1882:274 [ref. [5966](#)]. status: Synonym of *Cheilinus* Lacepède 1801. Labridae.

Cheilinus abudjubbe Rüppell 1835

Cheilinus abudjubbe Rüppell [W. P. E. S.] [ex Forsskål] 1835:18 [Neue Wirbelthiere zu der Fauna von Abyssinien gehörig. Fische des Rothen Meeres; ref. [3844](#)] [No locality stated] Jeddah, Saudi Arabia, Red Sea. Holotype (unique): ZMUC P.5847. Type catalog: Fricke 2008:47 [ref. [30182](#)]. Based on *Labrus lunulatus* var. β or var. b or [Scarus] abu djubbe of Fabricius [ex Forsskål] in Niebuhr 1775:xi, 37, 44 [ref. [1351](#)]; see Fricke 2008:47 [ref. [30182](#)].
Current status: Valid as *Cheilinus abudjubbe* Rüppell 1835. Labridae. **Distribution:** Red Sea; northwestern Indian Ocean: Gulf of Aden. Habitat: marine.

Cheilinus chlorourus (Bloch 1791)

Sparus chlorourus Bloch [M. E.] 1791:24, Pl. 260 [Naturgeschichte der ausländischen Fische v. 5; ref. [4867](#)] Japan. Lectotype: ZMB 8159 (right skin). Paralectotypes: ZMB 1661 (1), 8592 (1, dry, missing). Type catalog: Paepke 1999:92 [ref. [24282](#)]. On p. 21 of Bloch's Ichthyologie, v. 8 [ref. [21381](#)]. Spelled *chlorurus* in Bloch & Schneider 1801:269 [ref. [471](#)]. Lectotype selected by Paepke 1999:92 [ref. [24282](#)]. **Current status:** Valid as *Cheilinus chlorourus* (Bloch 1791). Labridae. **Distribution:** Indo-West Pacific: South Africa, East Africa (Mozambique, tanzania, Kenya), Seychelles, Mozambique Channel and Mascarenes (La Réunion, Mauritius, Rodrigues) east to Wake Atoll, Marquesas Islands and Gambier Islands (French Polynesia), north to Amami Islands and Osumi Islands (southern Japan) and Ogasawara Islands (Japan), south to Western Australia, Queensland (Australia), Elizabeth and Middleton reefs, New Caledonia and Rapa (French Polynesia). Habitat: marine.

Cheilinus punctatus Bennett [E. T.] 1832:167 [Proceedings of the Committee of Science and Correspondence of the Zoological Society of London 1830-31 (pt 1); ref. [4944](#)] Mauritius, Mascarenes, southwestern Indian Ocean. Syntypes: BMNH 1856.2.15.5 [ex Zool. Soc.] (1). Current status: Synonym of *Cheilinus chlorourus* (Bloch 1791). Labridae. Habitat: marine.

Crenilabrus (*Thalliurus*) *blochii* Swainson [W.] 1839:230 [The natural history and classification v. 2; ref. [4303](#)] Based on Bloch, Pl. 260 -- which is Bloch 1791:Pl. 260 [ref. [4867](#)]. Current status: Synonym of *Cheilinus chlorourus* (Bloch 1791). Labridae. Habitat: marine.

Cheilinus blochii Valenciennes [A.] in Cuvier & Valenciennes 1840:108 [Histoire naturelle des poissons v. 14; ref. [4882](#)] Japan. Subjectively invalid; secondarily preoccupied in *Cheilinus* by *Crenilabrus blochii* Swainson 1839. 2^o Homonym. Current status: Synonym of *Cheilinus chlorourus* (Bloch 1791). Labridae. Habitat: marine.

Cheilinus punctulatus Valenciennes [A.] in Cuvier & Valenciennes 1840:87, Pl. 396 [Histoire naturelle des poissons v. 14; ref. [4882](#)] Seychelles. Syntypes: MNHN A-8277 (2, dry), A-9044 (2). Type catalog: Bauchot 1963:15 [ref. [19171](#)]. Current status: Synonym of *Cheilinus chlorourus* (Bloch 1791). Labridae. Habitat: marine.

Cheilinus guttatus Bleeker [P.] 1847:161 [Natuur-en Geneeskundig Archief voor Neêrlandsch Indië v. 4 (no. 2); ref. [314](#)] Jakarta, Java, Indonesia. No types known. Also in Bleeker 1847:36 [ref. [317](#)]. Current status: Synonym of *Cheilinus chlorourus* (Bloch 1791). Labridae. Habitat: marine.

Cheilinus decacanthus Bleeker [P.] 1851:256 [Natuurkundig Tijdschrift voor Nederlandsch Indië v. 2 (no. 2); ref. [331](#)] Banda Neira, Banda Islands, Indonesia. No types known. Current status: Synonym of *Cheilinus chlorourus* (Bloch 1791). Labridae. Habitat: marine.

Cheilinus fasciatus (Bloch 1791)

Sparus fasciatus Bloch [M. E.] 1791:18, Pl. 257 [Naturgeschichte der ausländischen Fische v. 5; ref. [4867](#)] Japan. Lectotype: ZMB 8577 (right skin). Paralectotypes: ZMB 2651 (1), 8158 (1, right skin). Type catalog: Paepke 1999:93 [ref. [24282](#)]. On p. 15 of Bloch's Ichthyologie, v. 8 [ref. [21381](#)]. Lectotype selected by Paepke 1999:93 [ref. [24282](#)]. **Current status:** Valid as *Cheilinus fasciatus* (Bloch 1791). Labridae. **Distribution:** Indo-West Pacific: East Africa (Tanzania, Mozambique), Seychelles, Mozambique Channel, Madagascar and Mascarenes (La Réunion, Mauritius, Rodrigues) east to Wake Atoll and Marshall Islands, Samoa and Tonga, north to Ryukyu Islands (Japan), south to Western Australia, Queensland (Australia), Vanuatu and New Caledonia. Habitat: marine.

Labrus enneacanthus Lacepède [B. G. E.] 1801:433, 480 [Histoire naturelle des poissons (Lacepède) v. 3; ref. [2710](#)] No locality. No types known. Type catalog: Bauchot 1963:93 [ref. [19171](#)]. Neotype designation by Fricke 1999:402 [ref. [24106](#)] is invalid; see Fricke 2000:639 [ref. [24537](#)]. Current status: Synonym of *Cheilinus fasciatus* (Bloch 1791). Labridae. Habitat: marine.

Sparus bandatus Perry [G.] 1810:unnumbered page, Pl. VIII [Ichthyology. In: Arcana, or, The Museum of Natural History v. 1; ref. [12255](#)] Eastern Ocean. No types known. Original not seen. Published 1 Feb. 1810. Current status: Synonym of *Cheilinus fasciatus* (Bloch 1791). Labridae. Habitat: marine.

Cheilinus lunulatus (Forsskål 1775)

Labrus lunulatus Forsskål [P. S.] 1775:37, xi [Descriptiones animalium (Forsskål); ref. [1351](#)] [Locality not stated] Jeddah, Saudi Arabia, Red Sea. Lectotype: ZMUC P5846 (dry skin). Type catalog: Nielsen 1974:70 [ref. [9588](#)], Fricke 2008:47 [ref. [30182](#)]. Authorship according to Fricke 2008:47 [ref. [30182](#)]. Lectotype designated by Klausewitz & Nielsen 1965: 17 [ref. [20847](#)]; figured in Klausewitz & Nielsen 1965: Pl. 7 [ref. [20847](#)]. **Current status:** Valid as *Cheilinus lunulatus* (Forsskål 1775). Labridae. **Distribution:** Red Sea; northwestern Indian Ocean: Socotra (Yemen), Gulf of Oman, Persian Gulf. Habitat: marine.

Cheilinus lunifer Nichols [J. T.] 1923:3, Fig. 3 [American Museum Novitates No. 65; ref. [15414](#)] Djibouti, French Somaliland, East Africa. Holotype (unique): AMNH 8185. Current status: Synonym of *Cheilinus lunulatus* (Forsskål 1775). Labridae. Habitat: marine.

Cheilinus oxycephalus Bleeker 1854

Cheilinus oxycephalus Bleeker [P.] 1854:349 [Natuurkundig Tijdschrift voor Nederlandsch Indië v. 5 (no. 3); ref. [5117](#)] Ambon Island, Molucca Islands, Indonesia. Holotype (unique) (?): BMNH 1862.2.28.64. Bleeker specimens: AMS B.8184 [from Day] (1). •Nomen protectum from

Cheilinus ketlitzii Valenciennes 1840 and *Cheilinus sanguineus* Valenciennes 1840 -- Randall & Parenti 1999:29 [ref. [24276](#)]. **Nomen Protectum. Current status:** Valid as *Cheilinus oxycephalus* Bleeker 1854. Labridae. **Distribution:** Indo-West Pacific: KwaZulu-Natal (South Africa), East Africa, Socotra (Yemen), Seychelles, Comoros, Madagascar and Mascarenes (La Réunion, Mauritius, Rodrigues) east to Marquesas Islands and Gambier Islands (French Polynesia), north to southern Japan and Ogasawara Islands (Japan), south to Western Australia, Queensland (Australia), New Caledonia and Austral Islands (French Polynesia). Habitat: marine.

Cheilinus ketlitzii Valenciennes [A.] in Cuvier & Valenciennes 1840:105 [Histoire naturelle des poissons v. 14; ref. [4882](#)] Uléa, Caroline Islands, western Pacific, ca. 7°22'N, 143°54'E. No types preserved. Type catalog: Bauchot 1963:18 [ref. [19171](#)]. Based on a drawing by 'Ketlitz' (Friedrich Heinrich Freiherr von Kittlitz, 1799-1874, German ornithologist and naturalist). Nomen Oblitum. Current status: Synonym of *Cheilinus oxycephalus* Bleeker 1854. Labridae. Habitat: marine.

Cheilinus sanguineus Valenciennes [A.] in Cuvier & Valenciennes 1840:106 [Histoire naturelle des poissons v. 14; ref. [4882](#)] Uléa, Caroline Islands, western Pacific. No types preserved. Type catalog: Bauchot 1963:18 [ref. [19171](#)]. Based on a drawing, probably by Mertens (Franz Karl Mertens, 1764-1831, German botanist). Nomen Oblitum. Current status: Synonym of *Cheilinus oxycephalus* Bleeker 1854. Labridae. Habitat: marine.

Cheilinus calophthalmus Günther [A.] in Playfair & Günther 1867:90, Pl. 11 (fig. 4) [The fishes of Zanzibar; ref. [3490](#)] Zanzibar, Tanzania, western Indian Ocean. Holotype (unique): BMNH 1867.3.9.313 (skin). Spelled *callophthalmus* in list of fishes (p. xi). Current status: Synonym of *Cheilinus oxycephalus* Bleeker 1854. Labridae. Habitat: marine.

***Cheilinus quinquecinctus* Rüppell 1835**

Cheilinus quinquecinctus Rüppell [W. P. E. S.] 1835:19, Pl. 6 (fig. 1) [Neue Wirbelthiere zu der Fauna von Abyssinien gehörig. Fische des Rothen Meeres; ref. [3844](#)] Jeddah, Saudi Arabia, Red Sea. Lectotype: SMF 2701. Paralectotypes: SMF 2732 (1), 2740 (1). Lectotype designated by Bogorodsky et al. 2016:466 [ref. [34697](#)]. **Current status:** Valid as *Cheilinus quinquecinctus* Rüppell 1835. Labridae. **Distribution:** Red Sea, northwestern Indian Ocean: Gulf of Aden. Habitat: marine.

***Cheilinus trilobatus* Lacepède 1801**

Cheilinus trilobatus Lacepède [B. G. E.] (ex Commerson) 1801:529, 537, Pl. 31 (fig. 3) [Histoire naturelle des poissons (Lacepède) v. 3; ref. [2710](#)] Réunion, western Mascarenes; Mauritius, Mascarenes; Madagascar, western Indian Ocean. Syntypes: MNHN B-2129 (1, dry), B-2131 (1, dry). Type catalog: Bauchot 1963:16-17 [ref. [19171](#)]. Based on description and drawing in manuscript by Commerson (Philibedrt Commerson, 1727-1773, French explorer and naturalist). Unjustified emendation as *trilobus* by Schinz 1822:427 [ref. [3926](#)] (see Daget 1968:1058 [ref. [26392](#)]). **Current status:** Valid as *Cheilinus trilobatus* Lacepède 1801. Labridae. **Distribution:** Indo-West Pacific: KwaZulu-Natal (South Africa), East Africa, Socotra (Yemen), Seychelles, Comoros, Madagascar and Mascarenes (La Réunion, Mauritius, Rodrigues) east to Wake Atoll and Gambier Islands (French Polynesia), north to southern Japan, south to Western Australia, New Caledonia and Austral Islands (French Polynesia). Habitat: marine.

Cheilinus sinuosus Quoy [J. R. C.] & Gaimard [J. P.] 1824:278 [Voyage autour du monde; ref. [3574](#)] Madagascar; Hawaiian Islands; Marianas Islands. Syntypes: MNHN 0000-1577 (3) Hawaiian Is., A-9054 (1) Marianas Is., B-2131 (1, dry). Type catalog: Bauchot 1963:16 [ref. [19171](#)]. Current status: Synonym of *Cheilinus trilobatus* Lacepède 1801. Labridae. Habitat: marine.

Cheilinus festivus Valenciennes [A.] in Cuvier & Valenciennes 1840:104 [Histoire naturelle des poissons v. 14; ref. [4882](#)] Oualan, Caroline Islands, western Pacific. No types known. Type catalog: Bauchot 1963:18 [ref. [19171](#)]. Possibly based on a drawing. Current status: Synonym of *Cheilinus trilobatus* Lacepède 1801. Labridae. Habitat: marine.

Cheilinus maculosus Valenciennes [A.] in Cuvier & Valenciennes 1840:104 [Histoire naturelle des poissons v. 14; ref. [4882](#)] Kosrae, Caroline Islands, western Pacific. No types preserved. Type catalog: Bauchot 1963:18 [ref. [19171](#)]. Based on a drawing by Mertens (Karl Heinrich Mertens, 1796-2830, German explorer and naturalist). Current status: Synonym of *Cheilinus trilobatus* Lacepède 1801. Labridae. Habitat: marine.

Cheilinus rivulatus Valenciennes [A.] in Cuvier & Valenciennes 1840:86 [Histoire naturelle des poissons v. 14; ref. [4882](#)] New Ireland Island, Bismarck Archipelago. Syntypes: MNHN A-9051 (1) New Ireland, A-9052 (1) Vanikoro. Type catalog: Bauchot 1963:15-16 [ref. [19171](#)] as holotype and paratype. Current status: Synonym of *Cheilinus trilobatus* Lacepède 1801. Labridae. Habitat: marine.

Cheilinus nebulosus Richardson [J.] 1846:261 [Report of the British Association for the Advancement of Science 15th meeting [1845]; ref. [3742](#)] Sea of China. Syntypes: BMNH 1848.3.18.172. Current status: Synonym of *Cheilinus trilobatus* Lacepède 1801. Labridae. Habitat: marine.

Cheilinus tetrazona Bleeker [P.] 1853:293 [Natuurkundig Tijdschrift voor Nederlandsch Indië v. 4 (no. 2); ref. [12580](#)] Priaman, Sumatra, Indonesia. Syntypes: (2). Current status: Synonym of *Cheilinus trilobatus* Lacepède 1801. Labridae. Habitat: marine.

Cheilinus fasciopatunctatus Steindachner [F.] 1863:1114, Pl. 23 [Verhandlungen der K.-K. zoologisch-botanischen Gesellschaft in Wien v. 13; ref. [4206](#)] Red Sea. Holotype (unique): NMW 79067. Originally as *fasciato-punctatus*. Current status: Synonym of *Cheilinus trilobatus* Lacepède 1801. Labridae. Habitat: marine.

Cheilinus pulchellus Sauvage [H.-E.] 1880:224 [14] [Bulletin de la Société philomathique de Paris (7th Série) v. 4; ref. [3888](#)] Fiji Islands. Syntypes: MNHN A-1759 (3), A-9056 (2, poor condition). Type catalog: Bauchot 1963:15 [ref. [19171](#)]. On p. 14 of separate. Current status: Synonym of *Cheilinus trilobatus* Lacepède 1801. Labridae. Habitat: marine.

***Cheilinus undulatus* Rüppell 1835**

Cheilinus undulatus Rüppell [W. P. E. S.] 1835:20, Pl. 6 (fig. 2) [Neue Wirbelthiere zu der Fauna von Abyssinien gehörig. Fische des Rothen Meeres; ref. [3844](#)] Jeddah, Saudi Arabia, Red Sea. Holotype (unique): SMF 2733. **Current status:** Valid as *Cheilinus undulatus* Rüppell 1835. Labridae. **Distribution:** Red Sea; Indo-West Pacific: East Africa, Socotra (Yemen), Aldabra (Seychelles), Comoros, Madagascar and Mascarenes (La Réunion, Mauritius, Rodrigues) east to Tuamotu Archipelago (French Polynesia), north to Kagoshima Prefecture (southern Japan), south to northern Australia and New Caledonia; waifs at Hawaiian Islands (U.S.A.). Habitat: marine.

Cheilinus mertensii Valenciennes [A.] in Cuvier & Valenciennes 1840:102 [Histoire naturelle des poissons v. 14; ref. [4882](#)] Guam, Mariana Islands, western Pacific. No types known. Type catalog: Bauchot 1963:18 [ref. [19171](#)]. Based on a drawing. Current status: Synonym of *Cheilinus undulatus* Rüppell 1835. Labridae. Habitat: marine.

Chilinus godeffroyi Günther [A.] 1872:666, Pl. 66 [Proceedings of the Zoological Society of London 1871 (pt 3) (art. 1) (for 21 Nov. 1871); ref. [1997](#)] Tonga Islands. Holotype (unique): BMNH 1871.9.13.96. Original genus should have been *Cheilinus*. Current status: Synonym of *Cheilinus undulatus* Rüppell 1835. Labridae. Habitat: marine.

Cheilinus rostratus Cartier [O.] 1874:103 [Verhandlungen der Physikalisch-medizinischen Gesellschaft zu Würzburg, N. S. v. 5; ref. [17974](#)] Cebu, Philippines. Syntypes: (2) whereabouts unknown. Current status: Synonym of *Cheilinus undulatus* Rüppell 1835. Labridae. Habitat: marine.

- Class **Actinopteri**
 - Order **Siluriformes**
 - Suborder **Loricarioidei**
 - Family **Loricariidae** Rafinesque 1815 (suckermouth armored catfishes)
 - Subfamily **Hypostominae** Kner 1853 (suckermouth catfishes)

Genus ***Hypancistrus*** Isbrücker [I. J. H.] & Nijssen [H.] 1991:347 [Ichthyological Exploration of Freshwaters v. 1 (no. 4); ref. [19201](#)] Masc. *Hypancistrus zebra* Isbrücker & Nijssen 1991. Type by original designation (also monotypic). **Current status:** Valid as *Hypancistrus* Isbrücker & Nijssen 1991. Loricariidae: Hypostominae.

Hypancistrus contradens Armbruster [J. W.], Lujan [N. K.] & Taphorn [D. C.] 2007:64, Figs. 1A, 2 [Copeia 2007 (no. 1); ref. [29036](#)] Río Ventuari, 23 kilometers northeast of Macuruco, 94 kilometers east of San Fernando de Atabapo, 4°04'50"N, 66°51'31"W, Amazonas, Venezuela. Holotype: MCNG 54656. Paratypes: Many lots at ANSP, AUM, FMNH, and MCNG. Plus non-type material. **Current status:** Valid as *Hypancistrus contradens* Armbruster, Lujan & Taphorn 2007. Loricariidae: Hypostominae. **Distribution:** Orinoco River basin: Venezuela and Colombia. Habitat: freshwater.

Hypancistrus debilittera Armbruster [J. W.], Lujan [N. K.] & Taphorn [D. C.] 2007:68, Figs. 1D, 5 [Copeia 2007 (no. 1); ref. [29036](#)] Pasaganado, 38 kilometers north of San Fernando de Atabapo, 4°23'04"N, 67°46'28"W, Río Orinoco, Amazonas, Venezuela. Holotype: MNGN 54661. Paratypes: ANSP 182800 (2), AUM 42136 (3), MSNG 54662 (2). **Current status:** Valid as *Hypancistrus debilittera* Armbruster, Lujan & Taphorn 2007. Loricariidae: Hypostominae. **Distribution:** Orinoco River basin: Venezuela and Colombia. Habitat: freshwater.

Hypancistrus furunculus Armbruster [J. W.], Lujan [N. K.] & Taphorn [D. C.] 2007:71, Figs. 1C, 7 [Copeia 2007 (no. 1); ref. [29036](#)] Cucue Amerindian village on Río Orinoco, 60 kilometers east of San Juan de Atabapo, 3°58'26"N, 67°09'30"W, Amazonas, Venezuela. Holotype: MCNG 54658. Paratypes: Many lots at ANSP, AUM, and MCNG. **Current status:** Valid as *Hypancistrus furunculus* Armbruster, Lujan & Taphorn 2007. Loricariidae: Hypostominae. **Distribution:** Orinoco River basin: Venezuela and Colombia. Habitat: freshwater.

Hypancistrus inspector Armbruster [J. W.] 2002:87, Fig. 2 [Copeia 2002 (no. 1); ref. [25891](#)] Río Casiquiare, Río Negro, Río Amazonas drainage, about 10 river kilometers above the Río Negro, below Solano, 1°58'N, 67°05'W, Dpto. Casiquiare, Amazonas, Venezuela. Holotype: MCNG 12133. Paratypes: AUM 31019 (1), MCNG 37040 (3); plus nontypes. Type catalog: Ferraris 2007:249 [ref. [29155](#)]. **Current status:** Valid as *Hypancistrus inspector* Armbruster 2002. Loricariidae: Hypostominae. **Distribution:** Orinoco River basin: Venezuela and Colombia. Habitat: freshwater.

Hypancistrus lunaorum Armbruster [J. W.], Lujan [N. K.] & Taphorn [D. C.] 2007:74, Figs. 1B, 8 [Copeia 2007 (no. 1); ref. [29036](#)] Río Guapuchi, first major riffle complex, Río Ventrari drainage, 4°07'00"N, 66°46'00"W, Amazonas, Venezuela. Holotype: MCNG 54665. Paratypes: Many lots at ANSP, AUM, FMNH and MCNG. Plus non-type material. **Current status:** Valid as *Hypancistrus lunaorum* Armbruster, Lujan & Taphorn 2007. Loricariidae: Hypostominae. **Distribution:** Ventuari River and Orinoco River, Amazonas, Venezuela and Colombia. Habitat: freshwater.

Hypancistrus margaritatus Tan [M.] & Armbruster [J. W.] 2016:128, Figs. 3-4 [ZooKeys No. 552; ref. [34145](#)] Takutu River ca. 2.75 km W of Saint Ignatius, Rio Branco, Rio Negro drainage, Amazon basin, Guyana, 3.35500°N, 59.83077°W. Holotype (unique): CSBD F1701/AUM 35610. Holotype for the time being in AUM, eventually to be transferred to CSBD. **Current status:** Valid as *Hypancistrus margaritatus* Tan & Armbruster 2016. Loricariidae: Hypostominae. **Distribution:** Takutu River, tributary of the Rio Branco, Rio Negro drainage, Amazon basin, Guyana. Habitat: freshwater.

Hypancistrus phantasma Tan & Armbruster 2016
Hypancistrus phantasma Tan [M.] & Armbruster [J. W.] 2016:124, Fig. 1 [ZooKeys No. 552; ref. [34145](#)] Taracuá of the Rio Uaupes, Rio Negro drainage, Amazon basin, Brazil, 0.1°N, 68.46667°W. Holotype: MZUSP 116531. Paratypes: NRM. **Current status:** Valid as *Hypancistrus phantasma* Tan & Armbruster 2016. Loricariidae: Hypostominae. **Distribution:** Rio Uaupes, Rio Negro drainage, Amazon basin, Brazil. Habitat: freshwater.

Hypancistrus vandragti (Lujan & Armbruster 2011)
Micracanthicus vandragti Lujan [N. K.] & Armbruster [J. W.] 2011:217, Figs. 1-3 [Copeia 2011 (no. 2); ref. [31416](#)] Orinoco River at Cupaven Island, near the mouth of the Atabapo River, ca. 4°04'N, 66°42'W, Amazonas State, Venezuela. Holotype: MBUCV-V-32953. Paratypes (59): ANSP 182804 (9); AUM 42205 (11 + 4 c&s), 43273 (2); BUCV V-35365 (8); FMNH 117787 (8), 118041 (1); MCNG 55346 (8); MZUSP 99605 (8). **Current status:** Valid as *Hypancistrus vandragti* (Lujan & Armbruster 2011). Loricariidae: Hypostominae. **Distribution:** Lower Ventuari River and Orinoco River near confluence with Ventuari River, Venezuela. Habitat: freshwater.

Hypancistrus zebra Isbrücker & Nijssen 1991
Hypancistrus zebra Isbrücker [I. J. H.] & Nijssen [H.] 1991:348, Figs. 1-2 [Ichthyological Exploration of Freshwaters v. 1 (no. 4); ref. [19201](#)] About 1 hr. upstream of Altamira by speedboat, anastomoses of Rio Xingu, Pará State, Brazil. Holotype: MZUSP 41668 [ex ZSM 27328]. Paratypes: INPA 4338 (20); MHNG 2513.24 (8); MZUSP uncat. (20); ZMA 120457 (10), 120655 (8); ZSM 27328 (1), 27438 (22 now 21), 27769-70 (27, 48), 27962-63 (56 now 16, 43). Type catalog: Ferraris 2007:249 [ref. [29155](#)], Neumann 2011:267 [ref. [31652](#)] **Current status:** Valid as *Hypancistrus zebra* Isbrücker & Nijssen 1991. Loricariidae: Hypostominae. **Distribution:** Xingu River basin, Brazil. Habitat: freshwater.

- Class **Actinopteri**
 - Order **Siluriformes**
 - Suborder **Siluroidei**
 - Family **Pangasiidae** Bleeker 1858 (pangasid catfishes)

Genus ***Pangasianodon*** Chevey [P.] 1931:538 [Bulletin de la Société Zoologique de France v. 55 (no. 7) [for 1930]; ref. [830](#)] Masc. *Pangasianodon gigas* Chevey 1931. Type by monotypy. At times considered a synonym / part of *Pangasius* Valenciennes 1840. **Current status:** Valid as *Pangasianodon* Chevey 1931. Pangasiidae.

Pangasianodon gigas Chevey 1931
Pangasianodon gigas Chevey [P.] 1931:538, Figs. 1-2 [Bulletin de la Société Zoologique de France v. 55 (no. 7) [for 1930]; ref. [830](#)] Laos [original locality: Mekong River system, Pnom-Penh, Cambodia]. Neotype: MNHN A-8832 (dry). Type catalog: Ferraris 2007:325 [ref. [29155](#)]. Neotype selected by Gustiano 2003:56 [ref. [31337](#)]. •Considered as *Pangasius gigas* (Chevey 1931) by Roberts & Vidthayanon 1991:116 [ref. [19239](#)] and others; considered as

Pangasianodon gigas Chevey 1931 by Burgess 1989:105 [ref. [12860](#)] and others. **Current status:** Valid as *Pangasianodon gigas* Chevey 1931. Pangasiidae. **Distribution:** Southeast Asia: Mekong River basin, Thailand, Laos, Cambodia and Vietnam; stocked in various reservoirs in Thailand. Habitat: freshwater.

Pangasius paucidens Fang [P.-W.] & Chaux [J.] in Chaux & Fang 1949:344, Fig. 6 [Bulletin du Muséum National d'Histoire Naturelle (Série 2) v. 21 (no. 3); ref. [18875](#)] Cambodia. Holotype (unique): MNHN 1966-0730. Type catalog: Ferraris 2007:325 [ref. [29155](#)]. Current status: Synonym of *Pangasianodon gigas* Chevey 1931. Pangasiidae.

Pangasianodon hypophthalmus (Sauvage 1878)

Helicophagus hypophthalmus Sauvage [H.-E.] 1878:235 [3] [Bulletin de la Société philomathique de Paris (7th Série) v. 2; ref. [3879](#)] Laos. Lectotype: MNHN A-0745 (dry). Paralectotypes: MNHN A-0744 (1, dry), A-8832 (1, dry). Type catalog: Bertin & Estève 1950:42 [ref. [19575](#)], Ferraris 2007:325 [ref. [29155](#)]. On p. 3 of separate. Lectotype selected by Kottelat 1984:811 [ref. [11440](#)]. • Considered as *Helicophagus hypophthalmus* Sauvage 1878 by Kottelat 1984:811 [ref. [11440](#)] and Burgess 1989:105 [ref. [12860](#)]. • Considered as *Pangasius hypophthalmus* (Sauvage 1878) by Roberts & Vidthayanon 1991:121 [ref. [19239](#)], Pouyaud et al. 1999:249 [ref. [24245](#)], Pouyaud & Teugels 2000:197 [ref. [25066](#)], Hogan et al. 2004:230 [ref. [27683](#)], Rodríguez-Barrera et al. 2020:45 [ref. [37800](#)]. • Considered as *Pangasianodon hypophthalmus* (Sauvage 1878) by Rainboth 1996:153 [ref. [22772](#)]. **Current status:** Valid as *Pangasianodon hypophthalmus* (Sauvage 1878). Pangasiidae. **Distribution:** Southeast Asia: Mekong and Chao Phraya River basins, Thailand, Laos, Cambodia and Vietnam; introduced elsewhere in Israel, Iraq, southern Asia, Colombia, Costa Rica, and Puerto Rico (U.S.A.). Habitat: freshwater.

Pangasius sutchi Fowler [H. W.] 1937:141, Figs. 27-29 [Proceedings of the Academy of Natural Sciences of Philadelphia v. 89; ref. [1425](#)] Bangkok, Thailand. Holotype: ANSP 67902. Paratypes: ANSP 67903-05 (3). Type catalog: Böhlke 1984:136 [ref. [13621](#)], Ferraris 2007:325 [ref. [29155](#)]. Current status: Synonym of *Pangasianodon hypophthalmus* (Sauvage 1878). Pangasiidae.

- Class **Coelacanthi**
 - Order **Coelacanthiformes**
 - Family **Latimeriidae** Berg 1940 (coelacanths)

Genus **Latimeria** Smith [J. L. B.] 1939:455 [Nature (London) v. 143 (no. 3620); ref. [4068](#)] Fem. *Latimeria chalumnae* Smith 1939. Type by monotypy. •Valid as *Latimeria* Smith 1939 -- (see McCosker & Lagios (eds.) 1979 [ref. [6998](#)], Smith 1986:152 [ref. [5712](#)], Heemstra in Smith & Heemstra 1995:151 [ref. [21953](#)], Pouyaud et al. 1999:261 [ref. [23788](#)], Holder et al. 1999:12616 [ref. [25259](#)], Jewett 2001:3969 [ref. [26320](#)], Fricke et al. 2018:391 [ref. [35805](#)]). **Current status:** Valid as *Latimeria* Smith 1939. Latimeriidae.

Malania Smith [J. L. B.] 1953:99 [Nature (London) v. 171 (no. 4342); ref. [4088](#)] Fem. *Malania anjouanae* Smith 1953. Type by original designation (also monotypic). Based on an abnormal specimen of *Latimeria*. In describing the genus Smith proposed an alternate name *Malanius* (p. 99) which technically was a name in synonymy and never made available. Current status: Synonym of *Latimeria* Smith 1939. Latimeriidae.

Latimeria chalumnae Smith 1939

Latimeria chalumnae Smith [J. L. B.] 1939:455 [Nature (London) v. 143 (no. 3620); ref. [4068](#)] Southwest of East London, Eastern Cape Province, South Africa, depth 40 fathoms. Holotype (unique): ELM 47. Holotype parts: BMNH 1939.7.4.1-3 (scales), SAIAB 234126 (tissue), USNM 112258 (scales). **Current status:** Valid as *Latimeria chalumnae* Smith 1939. Latimeriidae. **Distribution:** Southwestern Indian Ocean: Eastern Cape and KwaZulu-Natal (South Africa) and East Africa (Mozambique, Tanzania) east to Comoros and Madagascar. Habitat: marine.

Malania anjouanae Smith [J. L. B.] 1953:100 [Nature (London) v. 171 (no. 4342); ref. [4088](#)] Comoro Islands, western Indian Ocean. Holotype (unique): SAIAB [formerly RUSI] 600. Specimen parts: USNM 163126 (2 scales). Possibly appeared first in Time Magazine, v. 61 (no. 2) dated 12 Jan. 1953; Nature dated 17 Jan. 1953. Current status: Synonym of *Latimeria chalumnae* Smith 1939. Latimeriidae. Habitat: marine.

Latimeria menadoensis Pouyaud, Wirjoatmodjo, Rachmatika, Tjakrawidjaja, Hadiaty & Hadie 1999

Latimeria menadoensis Pouyaud [L.], Wirjoatmodjo [S.], Rachmatika [I.], Tjakrawidjaja [A. H.], Hadiaty [R. K.] & Hadie [W.] 1999:266, Fig. [Comptes rendus de l'Académie des Sciences. Série 3, Sciences de la vie = Life Sciences Paris (Elsevier) No. 322; ref. [23788](#)] Menadotua Island, northern Sulawesi, Indonesia. Holotype (unique): LBN [Mus. Bogoriense Zool., Cibinog]. **Current status:** Valid as *Latimeria menadoensis* Pouyaud, Wirjoatmodjo, Rachmatika, Tjakrawidjaja, Hadiaty & Hadie 1999. Latimeriidae. **Distribution:** Western Pacific: northern Sulawesi (Indonesia); Biak Island (West Papua, Indonesia). Habitat: marine.

- Class **Dipneusti**
 - Order **Ceratodontiformes**
 - Family **Neoceratodontidae** Schultz 1948 (Australian lungfishes)

Genus **Neoceratodus** Castelnau [F. L.] 1876:130, 132 [Journal de Zoologie v. 5; ref. [760](#)] Masc. *Neoceratodus blanchardi* Castelnau 1876. Type by monotypy. Placed in the family Neoceratodontidae by Kemp 1997 [ref. [31059](#)] and others. **Current status:** Valid as *Neoceratodus* Castelnau 1876. Neoceratodontidae.

Epiceratodus Teller [F. J.] 1891:37 [Abhandlungen der Kaiserlich-Königlichen Geologischen Reichsanstalt Wien v. 15 (pt 3); ref. [4369](#)] Masc. *Ceratodus forsteri* Krefft 1870. Type by monotypy. The genus *Ceratodus* is not included in Eschmeyer's Catalog, because its type species is based on a fossil. Current status: Synonym of *Neoceratodus* Castelnau 1876. Neoceratodontidae.

Neoceratodus forsteri (Krefft 1870)

Ceratodus forsteri Krefft [J. L. G.] 1870:5 [Sydney Morning Herald [newspaper] 18 Jan. 1870; ref. [18433](#)] Wide-Bay District, Queensland, Australia. No types known. Description also appeared in Krefft 1870:221 [ref. [18434](#)]. **Current status:** Valid as *Neoceratodus forsteri* (Krefft 1870). Neoceratodontidae. **Distribution:** Australia: Queensland. Habitat: freshwater.

Ceratodus miolepis Günther [A.] 1871:222 [1] [Annals and Magazine of Natural History (Series 4) v. 7 (no. 39); ref. [19154](#)] Mary River, Queensland, Australia. Possible type or Günther specimen: AMS A.14079 (1). Also appeared in Günther 1871:377 [ref. [19155](#)] and in more detail in Günther 1872 [ref. [19153](#)]. Current status: Synonym of *Neoceratodus forsteri* (Krefft 1870). Neoceratodontidae. Habitat: freshwater.

Neoceratodus blanchardi Castelnau [F. L.] 1876:133 [Journal de Zoologie v. 5; ref. [760](#)] Fitzroy River, Queensland, Australia. Holotype (unique): MNHN A-0419. Type catalog: Bertin 1940:246 [ref. [293](#)]. Current status: Synonym of *Neoceratodus forsteri* (Krefft 1870). Neoceratodontidae. Habitat: freshwater.

Taxonomic Checklist of selected Sea Cucumber taxa
relevant for CITES following CoP19

Species information extracted from
WORLD REGISTER OF MARINE SPECIES

(<https://www.marinespecies.org> at VLIZ)

doi:10.14284/170

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Edited for compactness and with additional comments included by the
Nomenclature Specialist of the CITES Animals Committee

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Checklist contents:

Thelenota spp.

Holothuria fuscogilva

Holothuria nobilis

Holothuria whitmaei

Addendum: Simple list of taxa currently or previously placed in the genus *Holothuria*.

Genus *Thelenota* Brandt, 1835

Classification

Phylum Echinodermata
Subphylum Echinozoa
Class Holothuroidea
Subclass Actinopoda
Order Synallactida
Family Stichopodidae
Genus *Thelenota*

Status: Accepted
Rank: Genus
Typetaxon: *Trepang ananas* Jaeger, 1833, accepted as *Thelenota ananas* (Jaeger, 1833) (type by subsequent designation)

Synonymised names:

[Camarosoma Brandt, 1835](#) · unaccepted
[Holothuria \(*Thelenota*\)](#) · unaccepted
[Platysoma Brandt, 1835](#) · unaccepted

Genus content (3):

1. Species [Thelenota ananas \(Jaeger, 1833\)](#)
2. Species [Thelenota anax Clark, 1921](#)
3. Species [Thelenota rubralineata Massin & Lane, 1991](#)

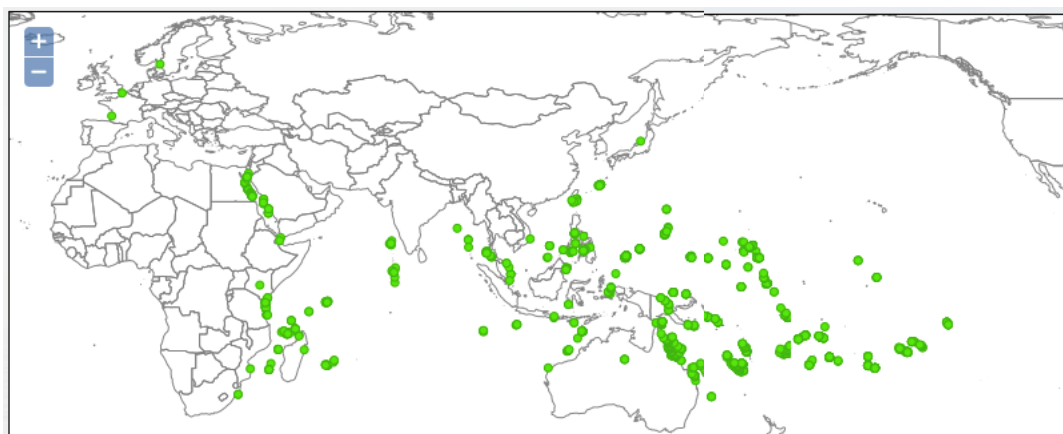
Environment: marine, ~~fresh~~, ~~terrestrial~~

Original genus description: Brandt, J. F. (1835). Echinodermata ordo Holothurina. In: *Prodromus Descriptionis Animalium ab H. Mertensio in Orbis Terrarum Circumnavigatione Observatorum. Fasc. I: 75 pps. Petropoli.* pp. 42-62., available online at <https://books.google.com/books?id=9-KK6BsniXcC>

Taxonomic citation: WoRMS (2024). *Thelenota* Brandt, 1835. Accessed at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=206469> on 2024-05-27

***Thelenota ananas* (Jaeger, 1833)**

Status: Accepted
Rank: Species
Original name: [Holothuria \(Holothuria\) ananas Jaeger, 1833](#)
Synonymised names:
[Actinopyga formosa \(Selenka, 1867\)](#) · unaccepted
[Holothuria \(Holothuria\) ananas Jaeger, 1833](#) · unaccepted
[Holothuria \(Thelenota\) grandis Brandt, 1835](#) · unaccepted
[Holothuria ananas Quoy & Gaimard, 1834](#) · unaccepted
[Holothuria hystrix Saville-Kent, 1890](#) · unaccepted
[Mülleria formosa Selenka, 1867](#) · uncertain > nomen dubium
[Trepang ananas Jaeger, 1833](#) · unaccepted



Environment: marine, brackish, fresh, terrestrial

Descriptive notes:

Appearance in life: shaggy, orange-brown above, light red band of tube feet about half the width of sole running longitudinally, lateral podia and oral tentacles orange-yellow, stems of podia deep red (Humphreys, 1981).

General distribution: tropical, Indo-west Pacific, depth range 3-20 m. (Rowe & Gates, 1995); widespread in the tropical Indo-Pacific, excluding Hawaii (Conand, 1998). Also distributed in Maldivian area, East Indies, north Australia, China, south Japan and South Pacific Is. (Clark & Rowe, 1971); Australia (Rowe & Gates, 1995).

Ecology: benthic, inshore, detritus feeder, deposit feeder (Rowe & Gates, 1995).

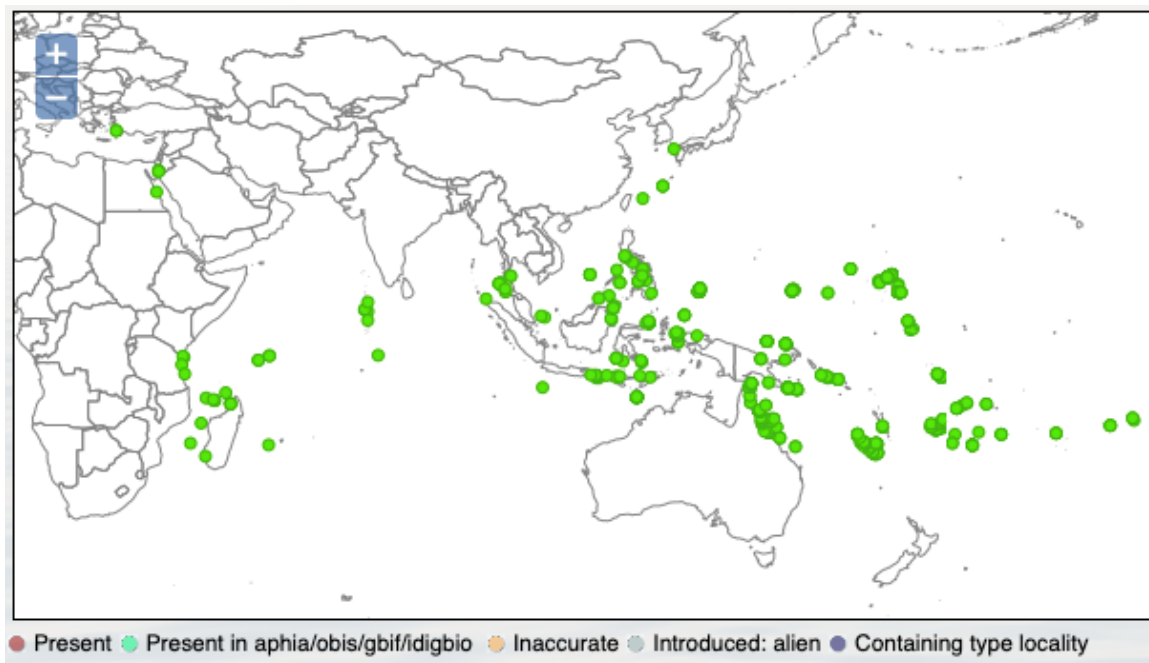
Habitat: hard bottoms, large rubble and coral patches, on reef slopes and near passes, depth range from surface down to 25 m. (Conand, 1998).

Original description of [Holothuria \(Holothuria\) ananas Jaeger, 1833](#): Jaeger, G.F. (1833). De Holothuriis. *Gessnerianis, Turici*. 40 pp., available online at <https://biodiversitylibrary.org/page/10588969>

Taxonomic citation: WoRMS (2024). *Thelenota ananas* (Jaeger, 1833). Accessed at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=210916> on 2024-05-27

***Thelenota anax* Clark, 1921**

Status: Accepted
Rank: Species
Original name: [Thelenota anax Clark, 1921](#)



Environment: marine, brackish, fresh, terrestrial

Descriptive notes:

General distribution: tropical, Indo-west Pacific Ocean, depth range 5-30 m. (Rowe & Gates, 1995); in the tropical Indian Ocean known from the Glorieuses Islands; in the tropical Pacific, from northern Australia to Enewetok, Guam, the China Sea, and the Ryukyu Islands southwards to New Caledonia, Fiji, and the Society Islands (Conand, 1998). Recorded in Australia in Clark & Rowe (1971) and Rowe & Gates (1995).

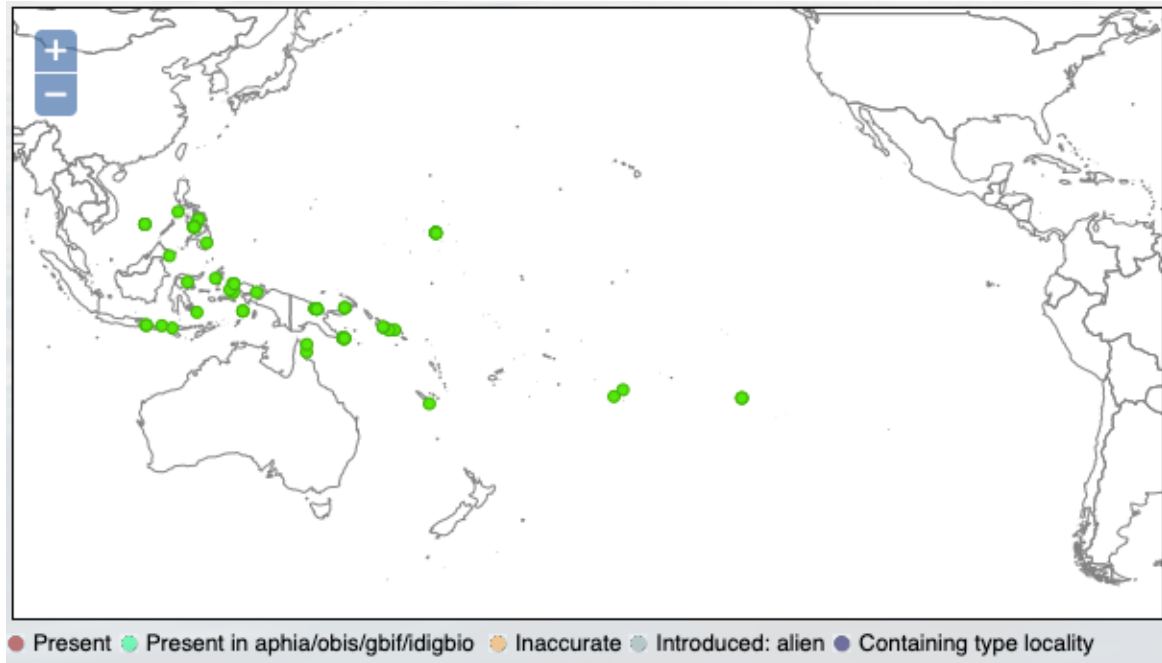
Ecology: benthic, inshore, detritus feeder, deposit feeder (Rowe & Gates, 1995).

Original description: Clark, H. L. (1921). The echinoderm fauna of Torres Strait: its composition and its origin. *Department of Marine Biology of the Carnegie Institute*. 10: vi + 223, 38 pls., available online at <https://www.biodiversitylibrary.org/page/14515937>

Taxonomic citation: WoRMS (2024). *Thelenota anax* Clark, 1921. Accessed at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=210915> on 2024-05-27

***Thelenota rubralineata* Massin & Lane, 1991**

Status: Accepted
Rank: Species
Original name: [Thelenota rubralineata Massin & Lane, 1991](#)



Environment: marine, brackish, fresh, terrestrial

Original description: Massin, C. and D. J. W. Lane (1991). Description of a new species of sea cucumber (Stichopodidae, Holothuroidea, Echinodermata) from the eastern Indo-Malayan archipelago: *Thelenota rubralineata* n. sp. *Micronesica* 24(1): 57-64.

Taxonomic citation: WoRMS (2024). *Thelenota rubralineata* Massin & Lane, 1991. Accessed at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=242080> on 2024-05-27

Genus *Holothuria* Linnaeus, 1767

Classification

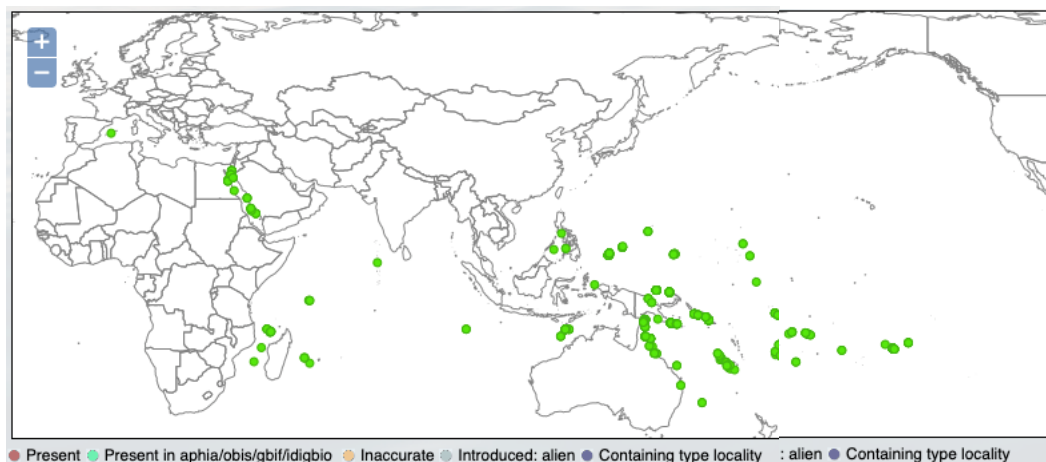
Phylum Echinodermata
Subphylum Echinozoa
Class Holothuroidea
Subclass Actinopoda
Order Holothuriida
Family Holothuriidae
Genus *Holothuria*

Status: accepted
Rank: Genus
Typetaxon: [Holothuria tremula Linnaeus, 1767](#) accepted as [Holothuria \(Holothuria\) tubulosa Gmelin, 1791](#) (type by subsequent designation)
Typetaxon of Family [Holothuriidae Ludwig, 1894](#)
Original name: [Holothuria Linnaeus, 1767](#)
Synonymised names: [Ananus Sluiter, 1880](#) - uncertain > nomen dubium

Contained taxa: See Addendum for list of 576 currently and previously included taxa.

Holothuria fuscogilva Cherbonnier, 1980

Status: Accepted
Rank: Species
Original name: [Holothuria \(Microthele\) fuscogilva Cherbonnier, 1980](#)
Synonymised name:
[Holothuria \(Microthele\) fuscogilva Cherbonnier, 1980](#) · alternative representation



Environment: marine, brackish, fresh, terrestrial

Descriptive notes:

Distribution Widespread in the tropical Indo-Pacific (Conand, 1998).
Habitat: outer barrier reefs and passes, shallow seagrass beds. Depth range 10-40 m. (Conand, 1998).

Original description of [Holothuria fuscogilva Cherbonnier, 1980](#): Cherbonnier, G. (1980). Holothuries de Nouvelle-Calédonie. Bulletin du Muséum national d'Histoire naturelle de Paris, Quatrième série, 2, section A (3): 659-700.

Source of synonymy Clark, A. M.; Rowe, F. W. E. (1971). Monograph of shallow-water indo-west Pacific Echinoderms. *Trustees of the British Museum (Natural History)*. London. x + 238 p. + 30 pls., available online at <http://www.abctaxa.be/downloads/additional-information-volume-1/works-famous-holothuroid-workers/fwe-rowe/MonographIndoWestPacific.pdf>

Source of synonymy Massin, C. (1999). Reef-dwelling Holothuroidea (Echinodermata) of the Spermonde Archipelago (South-West Sulawesi, Indonesia). Zoologische Verhandlungen 329, Leiden. 144 pp.

Source of synonymy Massin, C. (1996). The Holothurians of Easter Island, Bull. KBIN, Brussels, Vol. 66: 151-178.

Taxonomic citation: WoRMS (2024). *Holothuria (Microthele) fuscogilva* Cherbonnier, 1980. Accessed at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=210874> on 2024-05-27

***Holothuria nobilis* (Selenka, 1867)**

Status: Accepted

Rank: Species

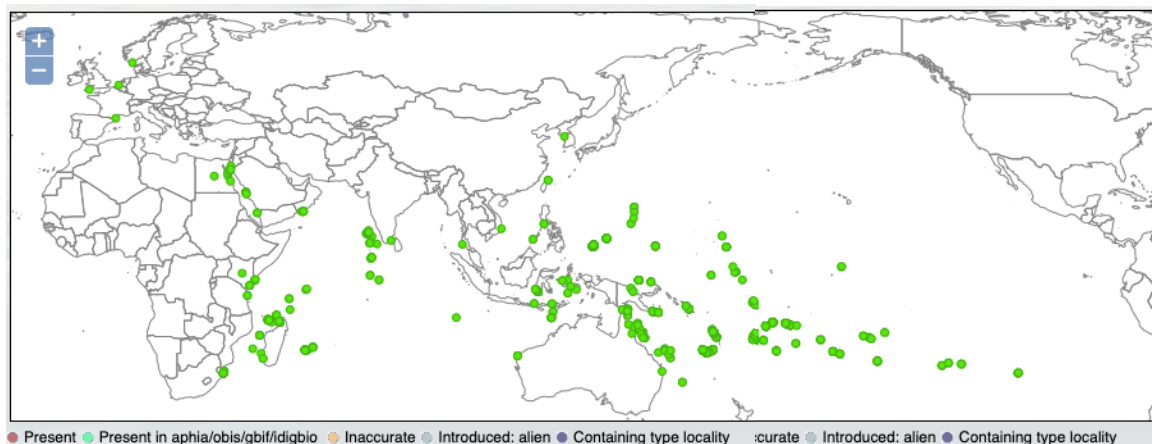
Original name: [Muelleria nobilis Selenka, 1867](#)

Synonymised names:

[Holothuria \(Microthele\) nobilis \(Selenka, 1867\)](#) · alternative representation

[Microthele nobilis \(Selenka, 1867\)](#) · unaccepted > superseded combination

[Muelleria nobilis Selenka, 1867](#) · unaccepted > superseded combination



Environment: marine, brackish, fresh, terrestrial

Descriptive notes:

Description: Colour in life: dark chocolate brown with large raised white areas adjacent to sole, tube feet milk white but background brown. Some with commensal polynoid *Gastrolepidia clavigera* SCHMARDA, 1861 with mottled black and white scales (Humphreys, 1981).

The distribution of this species ranges from the Red Sea and Madagascar to Hawaii and Easter Island, and from Japan to Northern Australia and New Caledonia (Massin, 1996). Widespread in the tropical Indo-west Pacific, shallow waters (Rowe & Gates (1995) and Conand (1998)). Also recorded in Maldivian area, Ceylon, East Indies, north Australia, Philippine, China, south Japan, South Pacific Is. and Hawaiian Is. (Clark & Rowe, 1971); Australia (Rowe & Gates, 1995 Ecology: benthic, inshore, detritus feeder, deposit feeder (Rowe & Gates, 1995).

Habitat: reef flats, slopes, shallow seagrass beds, depth range from surface down to 20 m. (Conand, 1998); rocky bottoms, depth range 5-45 m. (Massin, 1996).

Original description of [Muelleria nobilis Selenka, 1867](#): Selenka, E. (1867). Beiträge zur Anatomie und Systematik der Holothurien. *Zeitschrift für wissenschaftliche Zoologie*. 17(2): 291-374, pls. XVII-XX., available online at <https://www.biodiversitylibrary.org/page/45007590#page/321/mode/1up>

Taxonomic citation: WoRMS (2024). *Holothuria nobilis* (Selenka, 1867). Accessed at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=1672772> on 2024-05-27

***Holothuria whitmaei* Bell, 1887**

Status: Accepted

Rank: Species

Original name: [Holothuria whitmaei Bell, 1887](#)

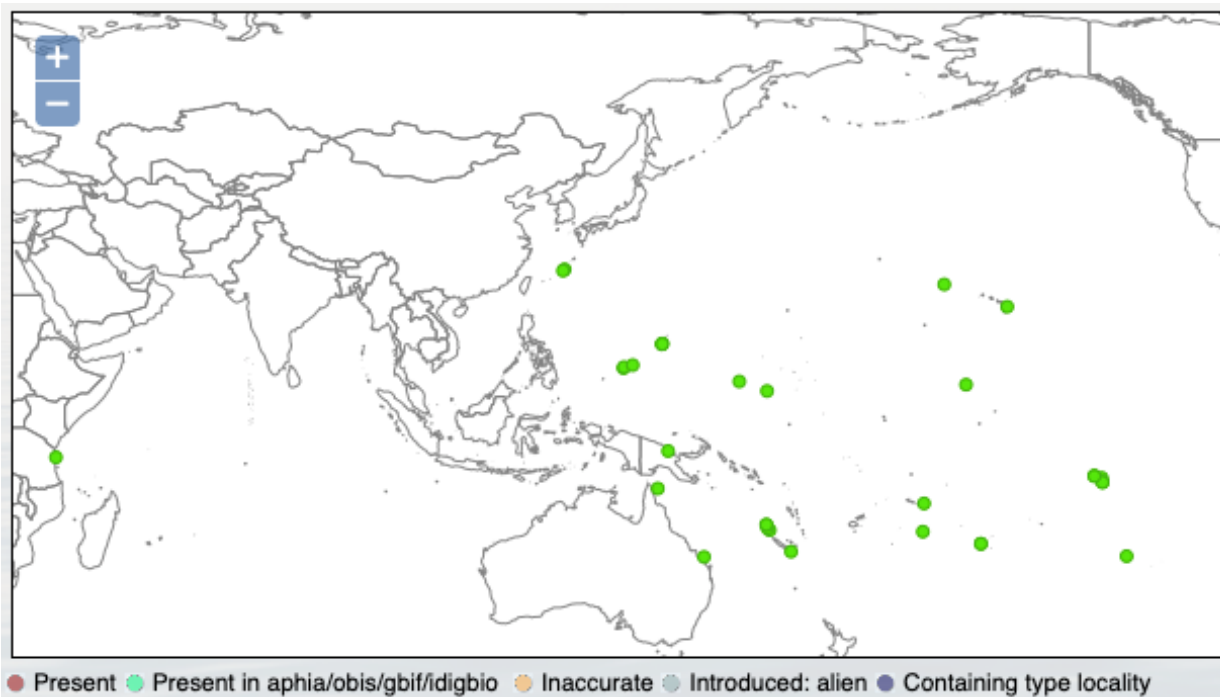
Synonymised names:

[Holothuria \(Bohadschia\) whitmaei Bell, 1887](#) · alternative representation

[Holothuria \(Microthele\) whitmaei Bell, 1887](#) · alternative representation

[Holothuria mammifera Saville-Kent, 1890](#) · unaccepted

[Mülleria maculata \(Brandt\)](#) · unaccepted (or *H. (M.) fuscogilva*; jr homonym...)



Environment: marine, brackish, fresh, terrestrial

original description Bell, F. J. (1887). Studies in the Holothuroidea. vi. Description of New Species. Proc. Zool. Soc.: pp. 531-534.

original description (of [Holothuria mammifera Saville-Kent, 1890](#)) Saville-Kent, W., 1890. Bêche-de-mer and pearl-shell fisheries of northern Queensland. Queensland Government Publisher, Brisbane. 8 pps. 2 pls.

original description (of [Holothuria \(Bohadschia\) whitmaei Bell, 1887](#)) Bell, F. J. (1887). Studies in the Holothuroidea. vi. Description of New Species. Proc. Zool. Soc.: pp. 531-534.

Taxonomic citation: WoRMS (2024). *Holothuria whitmaei* Bell, 1887. Accessed at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=1672780> on 2024-05-27

Addendum: The following pages contain the WoRMS taxon listing of all species currently (May 2024) considered valid within the genus *Holothuria*, as well as the current placement of taxa synonymised into *Holothuria*, or previously placed in *Holothuria* but now placed in different genera.

Genus *Holothuria* Linnaeus, 1767

Contained taxa (576):

1. Subgenus [Holothuria \(Acanthotrapeza\) Rowe, 1969](#)
 1. Species [Holothuria \(Acanthotrapeza\) coluber Semper, 1868](#)
 2. Species [Holothuria \(Acanthotrapeza\) kubaryi Ludwig, 1875](#)
 3. Species [Holothuria \(Acanthotrapeza\) pyxis Selenka, 1867](#)
 4. Species [Holothuria \(Acanthotrapeza\) tripilata Massin, 1987](#)
2. Subgenus [Holothuria \(Cystipus\) Haacke, 1880](#)
 1. Species [Holothuria \(Cystipus\) casoae Laguarda-Figueras & Solís-Marín, 2009](#)
 2. Species [Holothuria \(Cystipus\) cubana Ludwig, 1875](#)
 3. Species [Holothuria \(Cystipus\) dura Cherbonnier & Féral, 1981](#)
 4. Species [Holothuria \(Cystipus\) hartmeyeri \(Helfer, 1912\)](#)
 5. Species [Holothuria \(Cystipus\) inhabilis Selenka, 1867](#)
 6. Species [Holothuria \(Cystipus\) jousseaumei Cherbonnier, 1954](#)
 7. Species [Holothuria \(Cystipus\) mammosa Cherbonnier, 1988](#)
 8. Species [Holothuria \(Cystipus\) occidentalis Ludwig, 1875](#)
 9. Species [Holothuria \(Cystipus\) pseudofossor Deichmann, 1930](#)
 10. Species [Holothuria \(Cystipus\) rigida \(Selenka, 1867\)](#)
 11. Species [Holothuria \(Cystipus\) sucosa Erwe, 1919](#)
 12. Species [Holothuria \(Cystipus\) turrisimperfecta Cherbonnier, 1965](#)
 13. Species [Holothuria \(Cystipus\) yann Samyn in Samyn & Vandenspiegel, 2016](#)
 14. Species [Holothuria \(Cystipus\) sulcata Ludwig, 1875](#) accepted as [Holothuria \(Cystipus\) occidentalis Ludwig, 1875](#)
3. Subgenus [Holothuria \(Halodeima\) Pearson, 1914](#)
 1. Species [Holothuria \(Halodeima\) enalia Lampert, 1885](#)
 2. Species [Holothuria \(Halodeima\) floridana \(Pourtalès, 1851\)](#)
 3. Species [Holothuria \(Halodeima\) grisea Selenka, 1867](#)
 4. Species [Holothuria \(Halodeima\) inornata Semper, 1868](#)
 5. Species [Holothuria \(Halodeima\) manningi Pawson, 1978](#)
 6. Species [Holothuria \(Halodeima\) mexicana Ludwig, 1875](#)
 7. Species [Holothuria \(Halodeima\) nigralutea O'Loughlin in O'Loughlin, Paulay, Vandenspiegel & Samyn, 2007](#)
 8. Species [Holothuria \(Halodeima\) pulla Selenka, 1867](#)
 9. Species [Holothuria \(Halodeima\) signata Ludwig, 1875](#)
 10. Species [Holothuria \(Halodeima\) dicorona \(Heding, 1934\)](#) accepted as [Holothuria leucospilota \(Brandt, 1835\)](#) (unaccepted > junior subjective synonym)
 11. Species [Holothuria \(Halodeima\) pseudoimitans \(Cherbonnier, 1951\)](#) accepted as [Holothuria \(Semperothuria\) imitans Ludwig, 1875](#)
 12. Species [Holothuria \(Halodeima\) stocki Cherbonnier, 1964](#) accepted as [Holothuria \(Semperothuria\) surinamensis Ludwig, 1875](#)
 13. Species [Holothuria \(Halodeima\) atra Jaeger, 1833](#) represented as [Holothuria atra Jaeger, 1833](#)
 14. Species [Holothuria \(Halodeima\) edulis Lesson, 1830](#) represented as [Holothuria edulis Lesson, 1830](#)
 15. Species [Holothuria \(Halodeima\) kefersteinii \(Selenka, 1867\)](#) represented as [Holothuria kefersteinii \(Selenka, 1867\)](#)
 16. Species [Holothuria \(Halodeima\) chilensis Semper, 1868](#) (uncertain > nomen dubium)
4. Subgenus [Holothuria \(Holothuria\) Linnaeus, 1767](#)
 1. Species [Holothuria \(Holothuria\) algeriensis Mezali, Thandar & Khodja, 2021](#)
 2. Species [Holothuria \(Holothuria\) caparti Cherbonnier, 1964](#)
 3. Species [Holothuria \(Holothuria\) dakarensis Panning, 1939](#)
 4. Species [Holothuria \(Holothuria\) fungosa Helfer, 1912](#)
 5. Species [Holothuria \(Holothuria\) helleri Marenzeller von, 1877](#)
 6. Species [Holothuria \(Holothuria\) mammata Grube, 1840](#)

7. Species [Holothuria \(Holothuria\) massaspicula](#) Cherbonnier, 1954
8. Species [Holothuria \(Holothuria\) stellati](#) Delle Chiaje, 1824
9. Species [Holothuria \(Holothuria\) tubulosa](#) Gmelin, 1791
10. Species [Holothuria \(Holothuria\) ananas](#) Jaeger, 1833 accepted as [Thelenota ananas](#) (Jaeger, 1833)
11. Species [Holothuria \(Holothuria\) argus](#) Jaeger, 1833 accepted as [Bohadschia argus](#) Jaeger, 1833
12. Species [Holothuria \(Holothuria\) echinites](#) Jaeger, 1833 accepted as [Actinopyga echinites](#) (Jaeger, 1833)
13. Species [Holothuria \(Holothuria\) fuscocinerea](#) Jaeger, 1833 accepted as [Holothuria \(Stauropora\) fuscocinerea](#) Jaeger, 1833
14. Species [Holothuria \(Holothuria\) fuscopunctata](#) Jaeger, 1833 accepted as [Holothuria \(Microthele\) fuscopunctata](#) Jaeger, 1833
15. Species [Holothuria \(Holothuria\) lecanora](#) Jaeger, 1833 accepted as [Actinopyga lecanora](#) (Jaeger, 1833)
16. Species [Holothuria \(Holothuria\) marmorata](#) Jaeger, 1833 accepted as [Bohadschia marmorata](#) Jaeger, 1833
17. Species [Holothuria \(Holothuria\) ocellata](#) Jaeger, 1833 accepted as [Bohadschia ocellata](#) Jaeger, 1833
18. Species [Holothuria \(Holothuria\) timama](#) Lesson, 1830 accepted as [Holothuria \(Metriatyla\) lessoni](#) Massin, Uthicke, Purcell, Rowe & Samyn, 2009
19. Species [Holothuria \(Holothuria\) atra](#) Jaeger, 1833 represented as [Holothuria atra](#) Jaeger, 1833
20. Species [Holothuria \(Holothuria\) scabra](#) Jaeger, 1833 represented as [Holothuria scabra](#) Jaeger, 1833
21. Species [Holothuria \(Holothuria\) albiguttata](#) Jaeger, 1833 (uncertain > nomen dubium, Bohadschia unidentifiable)
22. Species [Holothuria \(Holothuria\) lineolata](#) Jaeger, 1833 (uncertain > nomen dubium, Bohadschia unidentifiable)
23. Species [Holothuria \(Holothuria\) quadrangularis](#) Lesson, 1830 (uncertain > taxon inquirendum, A species of Stichopus)
5. Subgenus [Holothuria \(Lessonothuria\)](#) Deichmann, 1958
 1. Species [Holothuria \(Lessonothuria\) cavans](#) Massin & Tomascik, 1996
 2. Species [Holothuria \(Lessonothuria\) coronata](#) Yáñez Villanueva, Solís-Marín & Laguarda-Figuera, 2022
 3. Species [Holothuria \(Lessonothuria\) cumulus](#) Clark, 1921
 4. Species [Holothuria \(Lessonothuria\) duoturricula](#) Cherbonnier, 1988
 5. Species [Holothuria \(Lessonothuria\) glandifera](#) Cherbonnier, 1955
 6. Species [Holothuria \(Lessonothuria\) immobilis](#) Semper, 1868
 7. Species [Holothuria \(Lessonothuria\) insignis](#) Ludwig, 1875
 8. Species [Holothuria \(Lessonothuria\) lineata](#) Ludwig, 1875
 9. Species [Holothuria \(Lessonothuria\) multipilula](#) Liao, 1975
 10. Species [Holothuria \(Lessonothuria\) pardalis](#) Selenka, 1867
 11. Species [Holothuria \(Lessonothuria\) tuberculata](#) Thandar, 2007
 12. Species [Holothuria \(Lessonothuria\) verrucosa](#) Selenka, 1867
6. Subgenus [Holothuria \(Mertensiothuria\)](#) Deichmann, 1958
 1. Species [Holothuria \(Mertensiothuria\) albofusca](#) Cherbonnier, 1988
 2. Species [Holothuria \(Mertensiothuria\) aphanes](#) Lampert, 1885
 3. Species [Holothuria \(Mertensiothuria\) artensis](#) Cherbonnier & Féral, 1984
 4. Species [Holothuria \(Mertensiothuria\) fuscobrunnea](#) Théel, 1886
 5. Species [Holothuria \(Mertensiothuria\) hilla](#) Lesson, 1830
 6. Species [Holothuria \(Mertensiothuria\) isuga](#) Mitsukuri, 1912
 7. Species [Holothuria \(Mertensiothuria\) viridiaurantia](#) Borrero-Pérez & Vanegas-González, 2019
 8. Species [Holothuria \(Mertensiothuria\) canaliculata](#) Tan Tiu, 1981 accepted as [Holothuria \(Stauropora\) dofleinii](#) Augustin, 1908
 9. Species [Holothuria \(Mertensiothuria\) pervicax](#) Selenka, 1867 accepted as [Holothuria \(Stauropora\) pervicax](#) Selenka, 1867
 10. Species [Holothuria \(Mertensiothuria\) arenacava](#) Samyn, Massin & Muthiga, 2001 represented as [Holothuria arenacava](#) Samyn, Massin & Muthiga, 2001

11. Species [Holothuria \(Mertensiothuria\) leucospilota \(Brandt, 1835\)](#) represented as [Holothuria leucospilota \(Brandt, 1835\)](#)
12. Species [Holothuria \(Mertensiothuria\) platei Ludwig, 1898](#) represented as [Holothuria platei Ludwig, 1898](#)
13. Species [Holothuria \(Mertensiothuria\) papillifera Heding in Mortensen, 1938](#) (uncertain > taxon inquirendum)
7. Subgenus [Holothuria \(Metriatyla\) Rowe, 1969](#)
 1. Species [Holothuria \(Metriatyla\) aculeata Semper, 1868](#)
 2. Species [Holothuria \(Metriatyla\) albiventer Semper, 1868](#)
 3. Species [Holothuria \(Metriatyla\) alex Samyn in Samyn & Vandenspiegel, 2016](#)
 4. Species [Holothuria \(Metriatyla\) brauni Helfer, 1912](#)
 5. Species [Holothuria \(Metriatyla\) conica Clark, 1938](#)
 6. Species [Holothuria \(Metriatyla\) cyrielle Vandenspiegel in Samyn & Vandenspiegel, 2016](#)
 7. Species [Holothuria \(Metriatyla\) horrida Massin, 1987](#)
 8. Species [Holothuria \(Metriatyla\) keesingi O'Loughlin in O'Loughlin et al., 2016](#)
 9. Species [Holothuria \(Metriatyla\) lessoni Massin, Uthicke, Purcell, Rowe & Samyn, 2009](#)
 10. Species [Holothuria \(Metriatyla\) martensii Semper, 1868](#)
 11. Species [Holothuria \(Metriatyla\) submersa Sluiter, 1901](#)
 12. Species [Holothuria \(Metriatyla\) tortonesei Cherbonnier, 1979](#)
 13. Species [Holothuria \(Metriatyla\) fuligina Cherbonnier, 1988](#) accepted as [Holothuria \(Metriatyla\) scabra Jaeger, 1833](#) represented as [Holothuria scabra Jaeger, 1833](#)
 14. Species [Holothuria \(Metriatyla\) scabra Jaeger, 1833](#) represented as [Holothuria scabra Jaeger, 1833](#)
8. Subgenus [Holothuria \(Microthele\) Brandt, 1835](#)
 1. Species [Holothuria \(Microthele\) fuscogilva Cherbonnier, 1980](#)
 2. Species [Holothuria \(Microthele\) fuscopunctata Jaeger, 1833](#)
 3. Species [Holothuria \(Microthele\) aethiops Brandt, 1835](#) accepted as [Holothuria \(Halodeima\) pulla Selenka, 1867](#)
 4. Species [Holothuria \(Microthele\) affinis Heller, 1868](#) accepted as [Holothuria \(Holothuria\) helleri Marenzeller von, 1877](#) (synonym)
 5. Species [Holothuria \(Microthele\) affinis Brandt, 1835](#) accepted as [Holothuria \(Halodeima\) atra Jaeger, 1833](#) represented as [Holothuria atra Jaeger, 1833](#)
 6. Species [Holothuria \(Microthele\) dubia Brandt, 1835](#) accepted as [Actinopyga lecanora \(Jaeger, 1833\)](#)
 7. Species [Holothuria \(Microthele\) maculata Brandt, 1835](#) (Holothuria (Microthele) whitmaei or fuscogilva)
 8. Species [Holothuria \(Microthele\) tigris Brandt, 1835](#) accepted as [Holothuria \(Metriatyla\) scabra Jaeger, 1833](#) represented as [Holothuria scabra Jaeger, 1833](#)
 9. Species [Holothuria \(Microthele\) nobilis \(Selenka, 1867\)](#) represented as [Holothuria nobilis \(Selenka, 1867\)](#)
 10. Species [Holothuria \(Microthele\) whitmaei Bell, 1887](#) represented as [Holothuria whitmaei Bell, 1887](#)
 11. Species [Holothuria \(Microthele\) sordida Brandt, 1835](#) (uncertain > nomen dubium, Holothuria unidentifiable)
9. Subgenus [Holothuria \(Panningothuria\) Rowe, 1969](#)
 1. Species [Holothuria \(Panningothuria\) austrinabassa O'Loughlin in O'Loughlin, Paulay, Vandenspiegel & Samyn, 2007](#)
 2. Species [Holothuria \(Panningothuria\) forskali Delle Chiaje, 1823](#) represented as [Holothuria forskali Delle Chiaje, 1824](#)
10. Subgenus [Holothuria \(Platyperona\) Rowe, 1969](#)
 1. Species [Holothuria \(Platyperona\) crosnieri Cherbonnier, 1988](#)
 2. Species [Holothuria \(Platyperona\) difficilis Semper, 1868](#)
 3. Species [Holothuria \(Platyperona\) excellens \(Ludwig, 1875\)](#)
 4. Species [Holothuria \(Platyperona\) insolita Cherbonnier, 1988](#)
 5. Species [Holothuria \(Platyperona\) parvula \(Selenka, 1867\)](#)
 6. Species [Holothuria \(Platyperona\) rowei Pawson & Gust, 1981](#)
 7. Species [Holothuria \(Platyperona\) samoana Ludwig, 1875](#)
 8. Species [Holothuria \(Platyperona\) sanctori Delle Chiaje, 1823](#)

9. Species [Holothuria \(Platyperona\) strigosa Selenka, 1867](#) accepted as [Holothuria \(Thymiosycia\) strigosa Selenka, 1867](#)
11. Subgenus [Holothuria \(Roweothuria\) Thandar, 1988](#)
 1. Species [Holothuria \(Roweothuria\) arguinensis Koehler & Vaney, 1906](#)
 2. Species [Holothuria \(Roweothuria\) poli Delle Chiaje, 1824](#)
 3. Species [Holothuria \(Roweothuria\) vemaie Thandar, 1988](#)
12. Subgenus [Holothuria \(Selenkothuria\) Deichmann, 1958](#)
 1. Species [Holothuria \(Selenkothuria\) bacilla Cherbonnier, 1988](#)
 2. Species [Holothuria \(Selenkothuria\) carere Honey-Escandón, Solís-Marín & Laguarda-Figueras, 2011](#)
 3. Species [Holothuria \(Selenkothuria\) erinacea Semper, 1868](#)
 4. Species [Holothuria \(Selenkothuria\) glaberrima Selenka, 1867](#)
 5. Species [Holothuria \(Selenkothuria\) lubrica Selenka, 1867](#)
 6. Species [Holothuria \(Selenkothuria\) mactanensis Tan Tiu, 1981](#)
 7. Species [Holothuria \(Selenkothuria\) moebii Ludwig, 1883](#)
 8. Species [Holothuria \(Selenkothuria\) parva Krauss in Lampert, 1885](#)
 9. Species [Holothuria \(Selenkothuria\) parvispinea Massin, 2013](#)
 10. Species [Holothuria \(Selenkothuria\) portovallartensis Caso, 1954](#)
 11. Species [Holothuria \(Selenkothuria\) sinica Liao, 1980](#)
 12. Species [Holothuria \(Selenkothuria\) theeli Deichmann, 1938](#)
 13. Species [Holothuria \(Selenkothuria\) vittalonga Cherbonnier, 1988](#)
 14. Species [Holothuria \(Selenkothuria\) perrieri Thandar, 1977](#) accepted as [Holothuria \(Selenkothuria\) parva Krauss in Lampert, 1885](#)
 15. Species [Holothuria \(Selenkothuria\) spinea Cherbonnier, 1988](#) accepted as [Holothuria \(Selenkothuria\) bacilla Cherbonnier, 1988](#)
13. Subgenus [Holothuria \(Semperothuria\) Deichmann, 1958](#)
 1. Species [Holothuria \(Semperothuria\) granosa Cherbonnier, 1988](#)
 2. Species [Holothuria \(Semperothuria\) imitans Ludwig, 1875](#)
 3. Species [Holothuria \(Semperothuria\) languens Selenka, 1867](#)
 4. Species [Holothuria \(Semperothuria\) roseomaculata Kerr, 2013](#)
 5. Species [Holothuria \(Semperothuria\) surinamensis Ludwig, 1875](#)
 6. Species [Holothuria \(Semperothuria\) densipedes Clark, 1901](#) accepted as [Holothuria \(Thymiosycia\) unicolor Selenka, 1867](#) (junior synonym and incorrect subgeneric assignment)
 7. Species [Holothuria \(Semperothuria\) pseudoimitans Cherbonnier, 1951](#) accepted as [Holothuria \(Semperothuria\) imitans Ludwig, 1875](#)
 8. Species [Holothuria \(Semperothuria\) cinerascens \(Brandt, 1835\)](#) represented as [Holothuria cinerascens \(Brandt, 1835\)](#)
 9. Species [Holothuria \(Semperothuria\) flavomaculata Semper, 1868](#) represented as [Holothuria flavomaculata Semper, 1868](#)
14. Subgenus [Holothuria \(Stauropora\) Rowe, 1969](#)
 1. Species [Holothuria \(Stauropora\) aemula Sluiter, 1914](#)
 2. Species [Holothuria \(Stauropora\) anulifera Fisher, 1907](#)
 3. Species [Holothuria \(Stauropora\) bo Samyn in Samyn & Vandenspiegel, 2016](#)
 4. Species [Holothuria \(Stauropora\) discrepans Semper, 1868](#)
 5. Species [Holothuria \(Stauropora\) dofleinii Augustin, 1908](#)
 6. Species [Holothuria \(Stauropora\) fuscocinerea Jaeger, 1833](#)
 7. Species [Holothuria \(Stauropora\) hawaiiensis Fisher, 1907](#)
 8. Species [Holothuria \(Stauropora\) mitis Sluiter, 1901](#)
 9. Species [Holothuria \(Stauropora\) modesta Ludwig, 1875](#)
 10. Species [Holothuria \(Stauropora\) olivacea Ludwig, 1888](#)
 11. Species [Holothuria \(Stauropora\) pervicax Selenka, 1867](#)
 12. Species [Holothuria \(Stauropora\) pluricuriosa Deichmann, 1937](#)
 13. Species [Holothuria \(Stauropora\) exilis Koehler & Vaney, 1908](#) (uncertain > nomen dubium)
15. Subgenus [Holothuria \(Stichothuria\) Cherbonnier, 1980](#)
 1. Species [Holothuria \(Stichothuria\) coronopertusa Cherbonnier, 1980](#)
16. Subgenus [Holothuria \(Theelothuria\) Deichmann, 1958](#)
 1. Species [Holothuria \(Theelothuria\) asperita Cherbonnier & Féral, 1981](#)
 2. Species [Holothuria \(Theelothuria\) cadelli Bell, 1887](#)

3. Species [Holothuria \(Theelothuria\) duoturriiforma](#) Thandar, 2007
4. Species [Holothuria \(Theelothuria\) foresti](#) Cherbonnier & Féral, 1981
5. Species [Holothuria \(Theelothuria\) hamata](#) Pearson, 1913
6. Species [Holothuria \(Theelothuria\) imperator](#) Deichmann, 1930
7. Species [Holothuria \(Theelothuria\) klunzingeri](#) Lampert, 1885
8. Species [Holothuria \(Theelothuria\) kurti](#) Ludwig, 1891
9. Species [Holothuria \(Theelothuria\) longicosta](#) Thandar, 2007
10. Species [Holothuria \(Theelothuria\) maculosa](#) Pearson, 1913
11. Species [Holothuria \(Theelothuria\) michaelseni](#) Erwe, 1913
12. Species [Holothuria \(Theelothuria\) notabilis](#) Ludwig, 1875
13. Species [Holothuria \(Theelothuria\) paraprinceps](#) Deichmann, 1937
14. Species [Holothuria \(Theelothuria\) princeps](#) Selenka, 1867
15. Species [Holothuria \(Theelothuria\) pseudonotabilis](#) Thandar, 2007
16. Species [Holothuria \(Theelothuria\) spinifera](#) Théel, 1886
17. Species [Holothuria \(Theelothuria\) squamifera](#) Semper, 1868
18. Species [Holothuria \(Theelothuria\) turriscelsa](#) Cherbonnier, 1980
19. Species [Holothuria \(Theelothuria\) ocellata](#) of authors, not Jaeger, 1833 accepted as [Holothuria \(Theelothuria\) kurti](#) Ludwig, 1891
20. Species [Holothuria \(Theelothuria\) viridia](#) Cherbonnier, 1986 accepted as [Holothuria \(Theelothuria\) turriscelsa](#) Cherbonnier, 1980
17. Subgenus [Holothuria \(Thymiosycia\)](#) Pearson, 1914
 1. Species [Holothuria \(Thymiosycia\) altaturricula](#) Cherbonnier & Féral, 1984
 2. Species [Holothuria \(Thymiosycia\) arenicola](#) Semper, 1868
 3. Species [Holothuria \(Thymiosycia\) conusalba](#) Cherbonnier & Féral, 1984
 4. Species [Holothuria \(Thymiosycia\) gracilis](#) Semper, 1868
 5. Species [Holothuria \(Thymiosycia\) impatiens](#) (Forsskål, 1775)
 6. Species [Holothuria \(Thymiosycia\) macroperona](#) Clark, 1938
 7. Species [Holothuria \(Thymiosycia\) marginata](#) Sluiter, 1901
 8. Species [Holothuria \(Thymiosycia\) milloti](#) Cherbonnier, 1988
 9. Species [Holothuria \(Thymiosycia\) minax](#) Théel, 1886
 10. Species [Holothuria \(Thymiosycia\) remollescens](#) Lampert, 1885
 11. Species [Holothuria \(Thymiosycia\) strigosa](#) Selenka, 1867
 12. Species [Holothuria \(Thymiosycia\) thomasi](#) Pawson & Caycedo, 1980
 13. Species [Holothuria \(Thymiosycia\) truncata](#) Lampert, 1885
 14. Species [Holothuria \(Thymiosycia\) unicolor](#) Selenka, 1867
 15. Species [Holothuria \(Thymiosycia\) zihuatanensis](#) (Caso, 1965)
 16. Species [Holothuria \(Thymiosycia\) decorata](#) von Marenzeller, 1882 accepted as [Holothuria \(Mertensiothuria\) hilla](#) Lesson, 1830
 17. Species [Holothuria \(Thymiosycia\) hartmeyer](#) Erwe, 1913 accepted as [Holothuria \(Thymiosycia\) macroperona](#) Clark, 1938
 18. Species [Holothuria \(Thymiosycia\) rathbunii](#) Lampert, 1885 accepted as [Holothuria \(Thymiosycia\) unicolor](#) Selenka, 1867
18. Subgenus [Holothuria \(Vaneyothuria\)](#) Deichmann, 1958
 1. Species [Holothuria \(Vaneyothuria\) integra](#) Koehler & Vaney, 1908
 2. Species [Holothuria \(Vaneyothuria\) lentiginosa](#) Marenzeller von, 1892
 3. Species [Holothuria \(Vaneyothuria\) sinifibula](#) Cherbonnier, 1964
 4. Species [Holothuria \(Vaneyothuria\) suspecta](#) Cherbonnier, 1958
 5. Species [Holothuria \(Vaneyothuria\) uncia](#) Rowe, 1989
 6. Species [Holothuria \(Vaneyothuria\) zacae](#) Deichmann, 1937
19. Species [Holothuria arenacava](#) Samyn, Massin & Muthiga, 2001
20. Species [Holothuria atra](#) Jaeger, 1833
21. Species [Holothuria cinerascens](#) (Brandt, 1835)
22. Species [Holothuria edulis](#) Lesson, 1830
23. Species [Holothuria flavomaculata](#) Semper, 1868
24. Species [Holothuria forskali](#) Delle Chiaje, 1824
25. Species [Holothuria kefersteini](#) (Selenka, 1867)
26. Species [Holothuria leucospilota](#) (Brandt, 1835)
27. Species [Holothuria nobilis](#) (Selenka, 1867)
28. Species [Holothuria platei](#) Ludwig, 1898
29. Species [Holothuria pyxoides](#) Ludwig, 1888

30. Species [Holothuria scabra Jaeger, 1833](#)
31. Species [Holothuria whitmaei Bell, 1887](#)
32. Subgenus [Holothuria \(Bohadschia\)](#) accepted as [Bohadschia Jaeger, 1833](#)
 1. Species [Holothuria \(Bohadschia\) whitmaei Bell, 1887](#) represented as [Holothuria whitmaei Bell, 1887](#)
 2. Species [Holothuria \(Bohadschia\) inermis Bell, 1887](#) (uncertain > nomen dubium)
33. Subgenus [Holothuria \(Cucumaria\)](#) accepted as [Cucumaria de Blainville, 1830](#)
 1. Species [Holothuria \(Cucumaria\) crocea Lesson, 1830](#) accepted as [Cladodactyla crocea crocea \(Lesson, 1830\)](#)
34. Subgenus [Holothuria \(Fistularia\)](#) accepted as [Fistularia Forsskål, 1775](#)
 1. Species [Holothuria \(Fistularia\) hilla Lesson, 1830](#) accepted as [Holothuria \(Mertensiothuria\) hilla Lesson, 1830](#)
 2. Species [Holothuria \(Fistularia\) oceanica Lesson, 1830](#) accepted as [Synapta maculata \(Chamisso & Eysenhardt, 1821\)](#)
 3. Species [Holothuria \(Fistularia\) purpurea Lesson, 1830](#) accepted as [Trochodota purpurea Pawson, 1969](#) accepted as [Taeniogyrus purpureus \(Lesson, 1830\)](#)
35. Subgenus [Holothuria \(Irenothuria\)](#) Deichmann, 1958 accepted as [Labidodemas Selenka, 1867](#)
 1. Species [Holothuria \(Irenothuria\) maccullochi \(Deichmann, 1958\)](#) accepted as [Labidodemas maccullochi \(Deichmann, 1958\)](#)
36. Subgenus [Holothuria \(Minyas\)](#) accepted as [Minyas Cuvier, 1817](#) accepted as [Actinecta de Blainville, 1830](#)
 1. Species [Holothuria \(Minyas\) flava Rathke, 1843](#) accepted as [Leptosynapta inhaerens \(O.F. Müller, 1776\)](#)
37. Subgenus [Holothuria \(Mulleria\)](#) Fleming, 1828 accepted as [Mulleria Fleming, 1828](#) accepted as [Oestergrenia Heding, 1931](#) (Subgeneric citation of Fleming's genus by Lesson (1830))
 1. Species [Holothuria \(Mulleria\) peruviana Lesson, 1830](#) accepted as [Anaperus peruvianus \(Lesson, 1830\)](#)
38. Subgenus [Holothuria \(Paraholothuria\)](#) Caso, 1963 accepted as [Holothuria \(Halodeima\) Pearson, 1914](#)
 1. Species [Holothuria \(Paraholothuria\) riojai Caso, 1964](#) accepted as [Holothuria \(Halodeima\) kefersteinii \(Selenka, 1867\)](#) represented as [Holothuria kefersteini \(Selenka, 1867\)](#)
39. Subgenus [Holothuria \(Paramicrothele\)](#) Caso, 1964 accepted as [Holothuria \(Thymiosycia\) Pearson, 1914](#)
 1. Species [Holothuria \(Paramicrothele\) zihuatanensis \(Caso, 1965\)](#) accepted as [Holothuria \(Thymiosycia\) zihuatanensis \(Caso, 1965\)](#)
40. Subgenus [Holothuria \(Psolus\)](#) accepted as [Psolus Oken, 1815](#)
 1. Species [Holothuria \(Psolus\) monacaria Lesson, 1830](#) accepted as [Actinopyga varians \(Selenka, 1867\)](#) (Name suppressed by ICZN Opinion 914)
41. Subgenus [Holothuria \(Rowethuria\)](#) accepted as [Holothuria \(Roweothuria\) Thandar, 1988](#)
42. Subgenus [Holothuria \(Thelenota\)](#) accepted as [Thelenota Brandt, 1835](#)
 1. Species [Holothuria \(Thelenota\) grandis Brandt, 1835](#) accepted as [Thelenota ananas \(Jaeger, 1833\)](#)
43. Subgenus [Holothuria \(Thyone\)](#) accepted as [Thyone Oken, 1815](#)
 1. Species [Holothuria \(Thyone\) eaouari Lesson, 1830](#) accepted as [Ochetostoma eaouari \(Lesson, 1830\)](#)
 2. Species [Holothuria \(Thyone\) edulis Lesson, 1830](#) represented as [Holothuria edulis Lesson, 1830](#)
44. Subgenus [Holothuria \(Tiedemannia\)](#) accepted as [Tiedemannia Leuckart, 1830](#)
 1. Species [Holothuria \(Tiedemannia\) beselii Jaeger, 1833](#) accepted as [Synapta maculata \(Chamisso & Eysenhardt, 1821\)](#)
45. Species [Holothuria abbreviata Heilprin, 1888](#) accepted as [Holothuria \(Platyperona\) parvula \(Selenka, 1867\)](#)
46. Species [Holothuria aegyptiana \(Helfer, 1912\)](#) accepted as [Holothuria \(Cystipus\) rigida \(Selenka, 1867\)](#)
47. Species [Holothuria africana Théel, 1886](#) accepted as [Holothuria \(Halodeima\) mexicana Ludwig, 1875](#)
48. Species [Holothuria albida Bell, 1887](#) accepted as [Holothuria \(Halodeima\) edulis Lesson, 1830](#) represented as [Holothuria edulis Lesson, 1830](#)

49. Species [Holothuria albida Savigny in Selenka, 1867](#) accepted as [Holothuria \(Metriatyla\) scabra Jaeger, 1833](#) represented as [Holothuria scabra Jaeger, 1833](#)
50. Species [Holothuria altimensis Clark, 1921](#) accepted as [Holothuria \(Platyperona\) difficilis Semper, 1868](#)
51. Species [Holothuria amboinensis Semper, 1868](#) accepted as [Holothuria \(Halodeima\) atra Jaeger, 1833](#) represented as [Holothuria atra Jaeger, 1833](#)
52. Species [Holothuria ananas Quoy & Gaimard, 1834](#) accepted as [Thelenota ananas \(Jaeger, 1833\)](#)
53. Species [Holothuria andersoni Bell, 1886](#) accepted as [Holothuria \(Selenkothuria\) erinacea Semper, 1868](#)
54. Species [Holothuria appendiculata de Blainville, 1821](#) accepted as [Psolidium appendiculatus \(de Blainville, 1821\)](#)
55. Species [Holothuria armata Selenka, 1867](#) accepted as [Apostichopus japonicus \(Selenka, 1867\)](#)
56. Species [Holothuria aurea Quoy & Gaimard, 1834](#) accepted as [Thyone aurea \(Quoy & Gaimard, 1834\)](#)
57. Species [Holothuria axiologa Clark, 1921](#) accepted as [Holothuria \(Microthele\) fuscopunctata Jaeger, 1833](#)
58. Species [Holothuria bataviae Ludwig, 1889](#) accepted as [Holothuria \(Theelothuria\) kurti Ludwig, 1891](#) (nomen oblitum)
59. Species [Holothuria bivittata Mitsukuri, 1912](#) accepted as [Bohadschia vitiensis \(Semper, 1868\)](#)
60. Species [Holothuria bodotriae Dalyell, 1851](#) accepted as [Ocnus lacteus \(Forbes & Goodsir, 1839\)](#)
61. Species [Holothuria botellus Selenka, 1867](#) accepted as [Holothuria \(Thymiosycia\) impatiens \(Forsskål, 1775\)](#) (synonym)
62. Species [Holothuria boutani Hérouard, 1893](#) accepted as [Holothuria \(Thymiosycia\) arenicola boutani Hérouard, 1893](#)
63. Species [Holothuria bowensis Ludwig, 1875](#) accepted as [Holothuria \(Metriatyla\) martensii Semper, 1868](#)
64. Species [Holothuria brandtii Selenka, 1867](#) accepted as [Holothuria \(Thymiosycia\) arenicola Semper, 1868](#)
65. Species [Holothuria briareus Lesueur, 1824](#) accepted as [Sclerodactyla briareus \(Lesueur, 1824\)](#)
66. Species [Holothuria brunnea Forbes in Thompson, 1840](#) accepted as [Ocnus brunneus \(Forbes in Thompson, 1840\)](#)
67. Species [Holothuria brunneus \(W. Thompson, 1840, ex Forbes MS\), non Chamisso & Eysenhardt, 1821](#) accepted as [Ocnus brunneus \(Forbes in Thompson, 1840\)](#) (synonym and misspelling)
68. Species [Holothuria caesarea Ludwig, 1875](#) accepted as [Holothuria \(Lessonothuria\) verrucosa Selenka, 1867](#)
69. Species [Holothuria californica Stimpson, 1857](#) accepted as [Apostichopus californicus \(Stimpson, 1857\)](#)
70. Species [Holothuria captiva Ludwig, 1875](#) accepted as [Holothuria \(Platyperona\) parvula \(Selenka, 1867\)](#)
71. Species [Holothuria catanensis Grube, 1840](#) accepted as [Holothuria \(Panningothuria\) forskali Delle Chiaje, 1823](#) represented as [Holothuria forskali Delle Chiaje, 1824](#) (synonym)
72. Species [Holothuria cavolini Delle Chiaje, 1824](#) accepted as [Holothuria \(Holothuria\) tubulosa Gmelin, 1791](#) (synonym)
73. Species [Holothuria clemens Ludwig, 1875](#) accepted as [Bohadschia vitiensis \(Semper, 1868\)](#)
74. Species [Holothuria collaris Haacke, 1880](#) accepted as [Holothuria \(Lessonothuria\) verrucosa Selenka, 1867](#)
75. Species [Holothuria columnae de Blainville, 1821](#) accepted as [Holothuria \(Holothuria\) tubulosa Gmelin, 1791](#)
76. Species [Holothuria columnae Delle Chiaje, 1824](#) accepted as [Holothuria \(Holothuria\) tubulosa Gmelin, 1791](#) (synonym)
77. Species [Holothuria columnae Cuvier, 1817](#) accepted as [Parastichopus regalis \(Cuvier, 1817\)](#) (incorrect author attribution)
78. Species [Holothuria cucumer Risso, 1826](#) accepted as [Leptopentacta cucumis \(Risso, 1826\)](#) accepted as [Paraleptopentacta cucumis \(Risso, 1826\)](#)
79. Species [Holothuria curiosa Ludwig, 1875](#) accepted as [Holothuria \(Stauropora\) fuscocinerea Jaeger, 1833](#)

80. Species [Holothuria cuvieria Cuvier, 1817](#) accepted as [Ceto cuvieria \(Cuvier, 1817\)](#)
81. Species [Holothuria densipedes Clark, 1900](#) accepted as [Holothuria \(Thymiosycia\) unicolor Selenka, 1867](#)
82. Species [Holothuria denudata Forsskål, 1775](#) accepted as [Porpita porpita \(Linnaeus, 1758\)](#)
83. Species [Holothuria depressa Ludwig, 1875](#) accepted as [Holothuria \(Stauropora\) pervicax Selenka, 1867](#)
84. Species [Holothuria dietrichii Ludwig, 1875](#) accepted as [Thyone papuensis Théel, 1886](#)
85. Species [Holothuria digitata Montagu, 1815](#) accepted as [Labidoplax digitata \(Montagu, 1815\)](#) accepted as [Oestergrenia digitata \(Montagu, 1815\)](#) (synonym)
86. Species [Holothuria drummondii Thompson, 1840](#) accepted as [Thyonidium drummondii \(Thompson, 1840\)](#) (synonym)
87. Species [Holothuria ecalcareo Sars M, 1859](#) accepted as [Parastichopus tremulus \(Gunnerus, 1767\)](#) (synonym)
88. Species [Holothuria elegans O.F. Müller, 1776](#) accepted as [Parastichopus tremulus \(Gunnerus, 1767\)](#) (synonym)
89. Species [Holothuria farcimen Selenka, 1867](#) accepted as [Holothuria \(Platyperona\) sanctori Delle Chiaje, 1823](#) (synonym)
90. Species [Holothuria fisheri Domantay, 1953](#) (unaccepted > nomen nudum)
91. Species [Holothuria flavocastanea \(Théel, 1886\)](#) accepted as [Holothuria \(Platyperona\) sanctori Delle Chiaje, 1823](#)
92. Species [Holothuria flavo-maculata Semper, 1868](#) accepted as [Holothuria flavomaculata Semper, 1868](#)
93. Species [Holothuria forskahli Delle Chiaje, 1824](#) accepted as [Holothuria \(Panningothuria\) forskali Delle Chiaje, 1823](#) represented as [Holothuria forskali Delle Chiaje, 1824](#) (on of two original spellings (other is forskaolii) emended to forskali)
94. Species [Holothuria fossor Deichmann, 1926](#) accepted as [Holothuria \(Cystipus\) cubana Ludwig, 1875](#)
95. Species [Holothuria frequentamentis Clark, 1902](#) accepted as [Holothuria \(Platyperona\) difficilis Semper, 1868](#)
96. Species [Holothuria frondosa Gunnerus, 1767](#) accepted as [Cucumaria frondosa \(Gunnerus, 1767\)](#) (synonym)
97. Species [Holothuria fucicola Forbes & Goodsir, 1839](#) accepted as [Cucumaria frondosa \(Gunnerus, 1767\)](#) (synonym)
98. Species [Holothuria fulva Quoy & Gaimard, 1834](#) accepted as [Holothuria \(Thymiosycia\) impatiens \(Forsskål, 1775\)](#)
99. Species [Holothuria fusco-coerulea Théel, 1886](#) accepted as [Holothuria flavomaculata Semper, 1868](#)
100. Species [Holothuria fusco-olivacea Fisher, 1907](#) accepted as [Holothuria \(Stauropora\) olivacea Ludwig, 1888](#)
101. Species [Holothuria fuscopunctata Quoy & Gaimard, 1834](#) accepted as [Holothuria \(Mertensiothuria\) hilla Lesson, 1830](#)
102. Species [Holothuria fusco-rubra Théel, 1886](#) accepted as [Holothuria \(Mertensiothuria\) fusciorubra Théel, 1886](#)
103. Species [Holothuria fusiformis Forbes & Goodsir, 1839](#) accepted as [Leptopentacta elongata \(Düben & Koren, 1846\)](#) accepted as [Paraleptopentacta elongata \(Düben & Koren, 1846\)](#)
104. Species [Holothuria fusus O.F. Müller, 1776](#) accepted as [Thyone fusus \(O.F. Müller, 1776\)](#) (superseded original combination)
105. Species [Holothuria gallensis Pearson, 1903](#) accepted as [Holothuria \(Metriatyla\) scabra Jaeger, 1833](#) represented as [Holothuria scabra Jaeger, 1833](#)
106. Species [Holothuria gelatinosa Heding, 1939](#) accepted as [Holothuria leucospilota \(Brandt, 1835\)](#) (unaccepted > junior subjective synonym)
107. Species [Holothuria glutinosa Lamarck, 1816](#) accepted as [Synaptula reciprocans \(Forsskål, 1775\)](#)
108. Species [Holothuria Gräffei Semper, 1868](#) accepted as [Pearsonothuria graeffei \(Semper, 1868\)](#)
109. Species [Holothuria grammata H.L. Clark, 1923](#) accepted as [Neostichopus grammatus \(H.L. Clark, 1923\)](#)
110. Species [Holothuria grandis Forbes & Goodsir, 1839](#) accepted as [Cucumaria frondosa \(Gunnerus, 1767\)](#) (synonym)

111. Species [Holothuria guamensis Quoy & Gaimard, 1834](#) accepted as [Actinopyga varians \(Selenka, 1867\)](#) (suppressed)
112. Species [Holothuria Hartmeyeri Erwe, 1913](#) accepted as [Holothuria \(Thymiosycia\) macroperona Clark, 1938](#)
113. Species [Holothuria heilprini Ives, 1890](#) accepted as [Holothuria \(Halodeima\) floridana \(Pourtales, 1851\)](#)
114. Species [Holothuria heros Agassiz, 1852](#) (unaccepted > nomen nudum)
115. Species [Holothuria hjalmari Deichmann in Maluf, 1988](#) (unaccepted > nomen nudum)
116. Species [Holothuria homoea Clark, 1938](#) accepted as [Holothuria leucospilota \(Brandt, 1835\)](#) (unaccepted > junior subjective synonym)
117. Species [Holothuria huberti Russo, 1899](#) accepted as [Holothuria \(Holothuria\) helleri Marenzeller von, 1877](#)
118. Species [Holothuria humilis Selenka, 1867](#) accepted as [Holothuria \(Thymiosycia\) arenicola Semper, 1868](#)
119. Species [Holothuria hydriformis Lesueur, 1824](#) accepted as [Synaptula hydriformis \(Lesueur, 1824\)](#)
120. Species [Holothuria hyndmani Thompson, 1840](#) accepted as [Panningia hyndmanni \(W. Thompson, 1840\)](#) accepted as [Panningia hyndmani \(Thompson, 1840\)](#)
121. Species [Holothuria hypamma Clark, 1921](#) accepted as [Holothuria \(Cystipus\) inhabilis Selenka, 1867](#)
122. Species [Holothuria hystrix Saville-Kent, 1890](#) accepted as [Thelenota ananas \(Jaeger, 1833\)](#)
123. Species [Holothuria infesta Sluiter, 1901](#) accepted as [Holothuria leucospilota \(Brandt, 1835\)](#) (unaccepted > junior subjective synonym)
124. Species [Holothuria inhaerens O.F. Müller, 1776](#) accepted as [Leptosynapta inhaerens \(O.F. Müller, 1776\)](#) (synonym)
125. Species [Holothuria insignis Ludwig, 1875](#) accepted as [Holothuria \(Lessonothuria\) insignis Ludwig, 1875](#)
126. Species [Holothuria intestinalis Ascanius, 1805](#) accepted as [Mesothuria intestinalis \(Ascanius, 1805\)](#) (synonym)
127. Species [Holothuria kapiolaniae Bell, 1887](#) accepted as [Holothuria \(Selenkothuria\) lubrica Selenka, 1867](#)
128. Species [Holothuria koellikeri Semper, 1868](#) accepted as [Bohadschia koellikeri \(Semper, 1868\)](#)
129. Species [Holothuria kurti Ludwig, 1891](#) accepted as [Holothuria \(Theelothuria\) kurti Ludwig, 1891](#)
130. Species [Holothuria lactea Théel, 1886](#) accepted as [Zygothuria lactea \(Théel, 1886\)](#)
131. Species [Holothuria lactea Forbes & Goodsir, 1839](#) accepted as [Ocnus lacteus \(Forbes & Goodsir, 1839\)](#) (synonym)
132. Species [Holothuria laevis Fabricius, 1780](#) accepted as [Chiridota laevis \(O. Fabricius, 1780\)](#) (synonym)
133. Species [Holothuria lagena O.F. Müller, 1776](#) accepted as [Manania auricula \(Fabricius, 1780\)](#) (not a holothuroid)
134. Species [Holothuria lagoena Haacke, 1880](#) accepted as [Holothuria leucospilota \(Brandt, 1835\)](#) (unaccepted > junior subjective synonym)
135. Species [Holothuria lamperti Sluiter, 1890](#) accepted as [Holothuria \(Theelothuria\) kurti Ludwig, 1891](#)
136. Species [Holothuria lamperti Ludwig, 1886](#) accepted as [Holothuria leucospilota \(Brandt, 1835\)](#) (unaccepted > junior subjective synonym)
137. Species [Holothuria lengtiginosa Marenzeller von, 1892](#) accepted as [Holothuria lentiginosa Marenzeller von, 1892](#) represented as [Holothuria \(Vaneyothuria\) lentiginosa Marenzeller von, 1892](#) (misspelling)
138. Species [Holothuria leopardus Saville-Kent, 1890](#) (unaccepted > nomen nudum)
139. Species [Holothuria limbata Perrier R., 1898](#) accepted as [Parastichopus regalis \(Cuvier, 1817\)](#)
140. Species [Holothuria lineolata Quoy & Gaimard, 1834](#) accepted as [Actinopyga lecanora \(Jaeger, 1833\)](#)
141. Species [Holothuria longipes H. & E. in Lampert, 1885](#) (unaccepted > nomen nudum)
142. Species [Holothuria lucifuga Quoy & Gaimard, 1834](#) accepted as [Holothuria \(Selenkothuria\) moebii Ludwig, 1883](#)

143. Species [Holothuria ludwigi](#) Lampert, 1889 accepted as [Holothuria \(Stauropora\) olivacea](#) Ludwig, 1888
144. Species [Holothuria lutea](#) Quoy & Gaimard, 1834 accepted as [Stichopus variegatus Semper](#), 1868 accepted as [Stichopus horrens](#) Selenka, 1867
145. Species [Holothuria macleari](#) Bell, 1884 accepted as [Holothuria \(Mertensiothuria\) hilla Lesson](#), 1830
146. Species [Holothuria maculata](#) Chamisso & Eysenhardt, 1821 accepted as [Synapta maculata](#) (Chamisso & Eysenhardt, 1821)
147. Species [Holothuria magellani](#) Ludwig, 1883 accepted as [Mesothuria \(Mesothuria\) magellani](#) Ludwig, 1883 accepted as [Mesothuria magellani](#) (Ludwig, 1883)
148. Species [Holothuria mammiculata](#) Haacke, 1880 (unaccepted)
149. Species [Holothuria mammifera](#) Saville-Kent, 1890 (unaccepted)
150. Species [Holothuria marenzelleri](#) Ludwig, 1883 (unaccepted)
151. Species [Holothuria mauritiana](#) Quoy & Gaimard, 1834 (unaccepted)
152. Species [Holothuria maxima](#) Delle Chiaje, 1823 (unaccepted, synonym)
153. Species [Holothuria miliaris](#) Quoy & Gaimard, 1834 (unaccepted, Basionym)
154. Species [Holothuria mollis](#) Hutton, 1872 (unaccepted)
155. Species [Holothuria monotuberculata](#) Quoy & Gaimard, 1834 (unaccepted)
156. Species [Holothuria monsuni](#) Heding, 1939 (unaccepted)
157. Species [Holothuria montaquii](#) Fleming, 1828 (unaccepted, pro parte synonym of *Pawsonia saxicola* (Brady & Robertson, 1871), pro parte synonym of *Aslia lefevrei* (Barrois, 1882))
158. Species [Holothuria mortenseni](#) Domantay, 1953 (unaccepted > nomen nudum)
159. Species [Holothuria murrayi](#) Théel, 1886 (unaccepted)
160. Species [Holothuria natans](#) Sars M., 1868 (unaccepted, synonym)
161. Species [Holothuria neozelanica](#) Mortensen, 1925 (unaccepted)
162. Species [Holothuria nigra](#) Gray, 1848 (unaccepted)
163. Species [Holothuria nigra](#) Peach, 1845 (unaccepted, synonym)
164. Species [Holothuria nitida](#) Ives, 1890 (unaccepted)
165. Species [Holothuria nuda](#) Gmelin, 1791 (unaccepted)
166. Species [Holothuria ophidiana](#) Quoy & Gaimard, 1834 (unaccepted)
167. Species [Holothuria oxurropa](#) Sluiter, 1887 (unaccepted > junior subjective synonym)
168. Species [Holothuria papillata](#) Bell, 1887 (unaccepted)
169. Species [Holothuria papillifera](#) Heding in Mortensen, 1938 (unaccepted)
170. Species [Holothuria papillosa](#) Abildgaard in Müller, 1789 (unaccepted, synonym)
171. Species [Holothuria paradoxa](#) Selenka, 1867 (unaccepted)
172. Species [Holothuria parinhabilis](#) Cherbonnier, 1951 (unaccepted)
173. Species [Holothuria patagonica](#) Perrier R., 1904 (unaccepted)
174. Species [Holothuria pellucida](#) Vahl, 1806 (unaccepted, synonym)
175. Species [Holothuria pellucida](#) Fleming, 1828, non Vahl, 1806 (unaccepted, synonym)
176. Species [Holothuria penicillus](#) O.F. Müller, 1776 (unaccepted, synonym)
177. Species [Holothuria pentacta](#) Gmelin, 1791 (unaccepted, New citation of *Holothuria pentactes* Linnaeus, 1767; type of *Cucumaria*)
178. Species [Holothuria pentactes](#) Linnaeus, 1767 (unaccepted, synonym)
179. Species [Holothuria pentactes](#) O.F. Müller, 1776 (unaccepted)
180. Species [Holothuria pentagona](#) Quoy & Gaimard, 1834 (unaccepted)
181. Species [Holothuria peregrina](#) Ludwig, 1875 (unaccepted)
182. Species [Holothuria pertinax](#) Ludwig, 1875 (unaccepted)
183. Species [Holothuria petagnae](#) Delle Chiaje, 1824 (unaccepted, synonym)
184. Species [Holothuria phantapus](#) Strussenfelt, 1765 (unaccepted, basionym)
185. Species [Holothuria phantapus](#) Linnaeus, 1767 (unaccepted)
186. Species [Holothuria phantapus](#) O.F. Müller, 1776 (unaccepted)
187. Species [Holothuria proceraspina](#) Cherbonnier, 1967 (unaccepted)
188. Species [Holothuria prompta](#) Koehler & Vaney, 1908 (unaccepted)
189. Species [Holothuria pseudo-lubrica](#) Cherbonnier, 1951 (unaccepted)
190. Species [Holothuria pseudo-zacae](#) Cherbonnier, 1951 (unaccepted)
191. Species [Holothuria pulchella](#) Selenka, 1867 (unaccepted > junior subjective synonym)
192. Species [Holothuria radackensis](#) Chamisso & Eysenhardt, 1821 (unaccepted)
193. Species [Holothuria radiosa](#) Lesson, 1830 (unaccepted)
194. Species [Holothuria Rathbunii](#) Lampert, 1885 (unaccepted)

195. Species [Holothuria regalis Cuvier, 1817](#) (unaccepted, synonym)
 196. Species [Holothuria riojai Caso, 1964](#) (unaccepted)
 197. Species [Holothuria robsoni Hutton, 1879](#) (unaccepted)
 198. Species [Holothuria roulei Koehler, 1895](#) (unaccepted, synonym)
 199. Species [Holothuria rugosa Ludwig, 1875](#) (unaccepted)
 200. Species [Holothuria saecularis Bell, 1887](#) (unaccepted)
 201. Species [Holothuria sanguinolenta Saville-Kent, 1893](#) (unaccepted)
 202. Species [Holothuria scotica Dalyell, 1851](#) (unaccepted)
 203. Species [Holothuria silamensis Ives, 1890](#) (unaccepted)
 204. Species [Holothuria similis Semper, 1868](#) (unaccepted)
 205. Species [Holothuria sluiteri Ludwig, 1888](#) (unaccepted)
 206. Species [Holothuria spinosa Quoy & Gaimard, 1834](#) (unaccepted)
 207. Species [Holothuria spirans Forsskål, 1775](#) (unaccepted, synonym)
 208. Species [Holothuria squamata O.F. Müller, 1776](#) (unaccepted, synonym)
 209. Species [Holothuria squamifera Semper, 1868](#) (unaccepted)
 210. Species [Holothuria subditiva Selenka, 1867](#) (unaccepted, in parte *Holothuria unicolor*,
 in parte *Holothuria* (*Semperothuria*) *surinamensis*)
 211. Species [Holothuria subrubra Quoy & Gaimard, 1834](#) (unaccepted, Basionym)
 212. Species [Holothuria subverta Clark, 1921](#) (unaccepted)
 213. Species [Holothuria sulcata Ludwig, 1875](#) (unaccepted)
 214. Species [Holothuria tenuicornis Helfer, 1913](#) (unaccepted)
 215. Species [Holothuria tenuissima Semper, 1868](#) (unaccepted)
 216. Species [Holothuria thomsoni Théel, 1886](#) (unaccepted)
 217. Species [Holothuria tremula Gunnerus, 1767](#) (unaccepted, synonym)
 218. Species [Holothuria tremula Linnaeus, 1767](#) (unaccepted)
 219. Species [Holothuria triquetra Delle Chiaje, 1828](#) (unaccepted, synonym)
 220. Species [Holothuria triremis Sluiter, 1901](#) (unaccepted)
 221. Species [Holothuria truncata Lampert, 1885](#) (unaccepted, synonym)
 222. Species [Holothuria utrimquestigmosa Haacke, 1880](#) (unaccepted)
 223. Species [Holothuria vagabunda Selenka, 1867](#) (unaccepted > junior subjective
 synonym)
 224. Species [Holothuria verrilli Théel, 1886](#) (unaccepted, synonym)
 225. Species [Holothuria victoriae Bell, 1887](#) (unaccepted)
 226. Species [Holothuria viridis Lesueur, 1824](#) (unaccepted)
 227. Species [Holothuria viridis Quoy & Gaimard in Cherbonnier, 1952](#) (unaccepted)
 228. Species [Holothuria vitiensis Semper, 1868](#) (unaccepted)
 229. Species [Holothuria willeyi Bedford, 1899](#) (unaccepted > junior subjective synonym)
 230. Species [Holothuria aculeata Semper, 1868](#) (alternative representation)
 231. Species [Holothuria aemula Sluiter, 1914](#) (alternative representation)
 232. Species [Holothuria affinis Heller, 1868](#) (alternative representation)
 233. Species [Holothuria albiventer Semper, 1868](#) (alternative representation)
 234. Species [Holothuria anulifera Fisher, 1907](#) (alternative representation)
 235. Species [Holothuria aphanes Lampert, 1885](#) (alternative representation)
 236. Species [Holothuria arenicola Semper, 1868](#) (alternative representation)
 237. Species [Holothuria arguinensis Koehler & Vaney, 1906](#) (alternative representation)
 238. Species [Holothuria brauni Helfer, 1912](#) (alternative representation)
 239. Species [Holothuria cadelli Bell, 1887](#) (alternative representation)
 240. Species [Holothuria caparti Cherbonnier, 1964](#) (alternative representation)
 241. Species [Holothuria chilensis Semper, 1868](#) (alternative representation)
 242. Species [Holothuria coluber Semper, 1868](#) (alternative representation)
 243. Species [Holothuria conica Clark, 1938](#) (alternative representation)
 244. Species [Holothuria cubana Ludwig, 1875](#) (alternative representation)
 245. Species [Holothuria cumulus Clark, 1921](#) (alternative representation)
 246. Species [Holothuria decorata von Marenzeller, 1882](#) (alternative representation)
 247. Species [Holothuria difficilis Semper, 1868](#) (alternative representation)
 248. Species [Holothuria discrepans Semper, 1868](#) (alternative representation)
 249. Species [Holothuria Dofleinii Augustin, 1908](#) (alternative representation)
 250. Species [Holothuria enalia Lampert, 1885](#) (alternative representation)
 251. Species [Holothuria erinaceus Semper, 1868](#) (alternative representation)
 252. Species [Holothuria exilis Koehler & Vaney, 1908](#) (alternative representation)

253. Species [Holothuria fungosa Helfer, 1912](#) (alternative representation)
254. Species [Holothuria fuscocinerea Jaeger, 1833](#) (alternative representation)
255. Species [Holothuria fuscogilva Cherbonnier, 1980](#) (alternative representation)
256. Species [Holothuria glaberrima Selenka, 1867](#) (alternative representation)
257. Species [Holothuria glandifera Cherbonnier, 1955](#) (alternative representation)
258. Species [Holothuria gracilis Semper, 1868](#) (alternative representation)
259. Species [Holothuria grisea Selenka, 1867](#) (alternative representation)
260. Species [Holothuria hamata Pearson, 1913](#) (alternative representation)
261. Species [Holothuria hawaiiensis Fisher, 1907](#) (alternative representation)
262. Species [Holothuria Helleri Marenzeller von, 1877](#) (alternative representation)
263. Species [Holothuria hilla Lesson, 1830](#) (alternative representation)
264. Species [Holothuria imitans Ludwig, 1875](#) (alternative representation)
265. Species [Holothuria immobilis Semper, 1868](#) (alternative representation)
266. Species [Holothuria impatiens \(Forsskål, 1775\)](#) (alternative representation)
267. Species [Holothuria imperator Deichmann, 1930](#) (alternative representation)
268. Species [Holothuria inhabilis Selenka, 1867](#) (alternative representation)
269. Species [Holothuria inornata Semper, 1868](#) (alternative representation)
270. Species [Holothuria integra Koehler & Vaney, 1908](#) (alternative representation)
271. Species [Holothuria isuga Mitsukuri, 1912](#) (alternative representation)
272. Species [Holothuria jousseaumei Cherbonnier, 1954](#) (alternative representation)
273. Species [Holothuria Klunzingeri Lampert, 1885](#) (alternative representation)
274. Species [Holothuria Kubaryi Ludwig, 1875](#) (alternative representation)
275. Species [Holothuria languens Selenka, 1867](#) (alternative representation)
276. Species [Holothuria lentiginosa Marenzeller von, 1892](#) (alternative representation)
277. Species [Holothuria lessoni Massin, Uthicke, Purcell, Rowe & Samyn, 2009](#) (alternative representation)
278. Species [Holothuria lineata Ludwig, 1875](#) (alternative representation)
279. Species [Holothuria lubrica Selenka, 1867](#) (alternative representation)
280. Species [Holothuria macropersona Clark, 1938](#) (alternative representation)
281. Species [Holothuria maculosa Pearson, 1913](#) (alternative representation)
282. Species [Holothuria mammata Grube, 1840](#) (alternative representation)
283. Species [Holothuria marginata Sluiter, 1901](#) (alternative representation)
284. Species [Holothuria Martensii Semper, 1868](#) (alternative representation)
285. Species [Holothuria massaspicula Cherbonnier, 1954](#) (alternative representation)
286. Species [Holothuria mexicana Ludwig, 1875](#) (alternative representation)
287. Species [Holothuria Michaelsoni Erwe, 1913](#) (alternative representation)
288. Species [Holothuria minax Théel, 1886](#) (alternative representation)
289. Species [Holothuria mitis Sluiter, 1901](#) (alternative representation)
290. Species [Holothuria modesta Ludwig, 1875](#) (alternative representation)
291. Species [Holothuria Moebii Ludwig, 1883](#) (alternative representation)
292. Species [Holothuria notabilis Ludwig, 1875](#) (alternative representation)
293. Species [Holothuria occidentalis Ludwig, 1875](#) (alternative representation)
294. Species [Holothuria ocellata of authors, not Jaeger, 1833](#) (alternative representation)
295. Species [Holothuria olivacea Ludwig, 1888](#) (alternative representation)
296. Species [Holothuria paraprinceps Deichmann, 1937](#) (alternative representation)
297. Species [Holothuria pardalis Selenka, 1867](#) (alternative representation)
298. Species [Holothuria parva Krauss in Lampert, 1885](#) (alternative representation)
299. Species [Holothuria pervicax Selenka, 1867](#) (alternative representation)
300. Species [Holothuria pluricuriosa Deichmann, 1937](#) (alternative representation)
301. Species [Holothuria poli Delle Chiaje, 1824](#) (alternative representation)
302. Species [Holothuria portovallartensis Caso, 1954](#) (alternative representation)
303. Species [Holothuria princeps Selenka, 1867](#) (alternative representation)
304. Species [Holothuria pseudofossor Deichmann, 1930](#) (alternative representation)
305. Species [Holothuria pulla Selenka, 1867](#) (alternative representation)
306. Species [Holothuria pyxis Selenka, 1867](#) (alternative representation)
307. Species [Holothuria remollescens Lampert, 1885](#) (alternative representation)
308. Species [Holothuria samoana Ludwig, 1875](#) (alternative representation)
309. Species [Holothuria sanctori Delle Chiaje, 1824](#) (alternative representation)
310. Species [Holothuria signata Ludwig, 1875](#) (alternative representation)
311. Species [Holothuria sinfibula Cherbonnier, 1964](#) (alternative representation)

312. Species [Holothuria spinifera Théel, 1886](#) (alternative representation)
 313. Species [Holothuria Stellati Delle Chiaje, 1824](#) (alternative representation)
 314. Species [Holothuria strigosa Selenka, 1867](#) (alternative representation)
 315. Species [Holothuria submersa Sluiter, 1901](#) (alternative representation)
 316. Species [Holothuria sucosa Erwe, 1919](#) (alternative representation)
 317. Species [Holothuria surinamensis Ludwig, 1875](#) (alternative representation)
 318. Species [Holothuria suspecta Cherbonnier, 1958](#) (alternative representation)
 319. Species [Holothuria tubulosa Gmelin, 1791](#) (alternative representation)
 320. Species [Holothuria turrisimperfecta Cherbonnier, 1965](#) (alternative representation)
 321. Species [Holothuria unicolor Selenka, 1867](#) (alternative representation)
 322. Species [Holothuria verrucosa Selenka, 1867](#) (alternative representation)
 323. Species [Holothuria zacaе Deichmann, 1937](#) (alternative representation)
 324. Species [Holothuria aglutinata Lesueur, 1824](#) (uncertain > nomen dubium, Holothuria unidentifiable)
 325. Species [Holothuria albifasciata Quoy & Gaimard, 1834](#) (uncertain > nomen dubium)
 326. Species [Holothuria anapinusa Lampert, 1885](#) (uncertain > taxon inquirendum)
 327. Species [Holothuria aspera Bell, 1889](#) (uncertain > taxon inquirendum)
 328. Species [Holothuria brevis Forbes & Goodsir, 1839](#) (uncertain > nomen dubium)
 329. Species [Holothuria brunnea Chamisso & Eysenhardt, 1821](#) (uncertain > nomen dubium, Holothuria? unidentifiable)
 330. Species [Holothuria calcarea Saville-Kent, 1890](#) (uncertain > nomen dubium, Holothuria unidentifiable)
 331. Species [Holothuria dicquemarii de Blainville, 1821](#) (uncertain > nomen dubium, Cucumaria unidentified)
 332. Species [Holothuria dissimilis Fleming, 1828](#) (uncertain > nomen dubium, Cucumariidae unidentifiable)
 333. Species [Holothuria fasciata Quoy & Gaimard, 1834](#) (uncertain > nomen dubium, Holothuria unidentifiable)
 334. Species [Holothuria fasciata Lesueur, 1824](#) (uncertain > nomen dubium, Holothuriidae unidentifiable)
 335. Species [Holothuria fasciola Quoy & Gaimard, 1834](#) (uncertain > nomen dubium)
 336. Species [Holothuria flammea Quoy & Gaimard, 1834](#) (uncertain > taxon inquirendum)
 337. Species [Holothuria gaertneri de Blainville, 1821](#) (uncertain > nomen dubium)
 338. Species [Holothuria glaberrima Risso, 1826](#) (uncertain > nomen dubium)
 339. Species [Holothuria lapidifera Lesueur, 1824](#) (uncertain > nomen dubium, Dendrochirotida unidentifiable)
 340. Species [Holothuria littoralis Risso, 1826](#) (uncertain > nomen dubium)
 341. Species [Holothuria maculata Lesueur, 1824](#) (uncertain > nomen dubium)
 342. Species [Holothuria maculata Kuhl & van Hasselt, 1869](#) (uncertain > nomen dubium, Holothuria unidentified)
 343. Species [Holothuria mamillata Risso, 1826](#) (uncertain > nomen dubium)
 344. Species [Holothuria marmorata Saville-Kent, 1893](#) (uncertain > nomen dubium, Holothuria? unidentifiable)
 345. Species [Holothuria minuta Fabricius, 1780](#) (uncertain > nomen dubium, Cucumariidae unidentifiable)
 346. Species [Holothuria monosticha Haacke, 1880](#) (uncertain > nomen dubium)
 347. Species [Holothuria neillii Fleming, 1828](#) (uncertain > nomen dubium, Cucumariidae? unidentifiable)
 348. Species [Holothuria obscura Lesueur, 1824](#) (uncertain > nomen dubium, Holothuriidae unidentifiable)
 349. Species [Holothuria ondatjei Bell, 1887](#) (uncertain > nomen dubium, Holothuria unidentifiable)
 350. Species [Holothuria ovata Risso, 1826](#) (uncertain > nomen dubium)
 351. Species [Holothuria punctata Risso, 1826](#) (uncertain > nomen dubium)
 352. Species [Holothuria pusilla Sars M., 1828](#) (uncertain > nomen dubium, Cucumaria unidentifiable)
 353. Species [Holothuria rugosa Saville-Kent, 1890](#) (uncertain > nomen dubium)
 354. Species [Holothuria stellata Risso, 1826](#) (uncertain > nomen dubium)
 355. Species [Holothuria tentaculata de Blainville, 1821](#) (uncertain > nomen dubium, Synaptidae unidentifiable)

356. Species [Holothuria tuberculosa Quoy & Gaimard, 1834](#) (uncertain > nomen dubium, Stichopus unidentifiable)
357. Species [Holothuria umbrina Rüppell & Leuckart, 1828](#) (uncertain > nomen dubium, hilla or difficilis or sanctori?)

Environment: marine, ~~fresh, terrestrial~~

Original description Linnaeus, C. (1767). Systema naturae per regna tria naturae: secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis. Ed. 12. 1., Regnum Animale. 1 & 2. *Holmiae [Stockholm], Laurentii Salvii*. pp. 1-532 [1766] pp. 533-1327 [1767]., available online at <http://www.biodiversitylibrary.org/item/83650#5>

Original description of [Ananus Sluiter, 1880](#): Sluiter, C. 1880. Ueber einige neue Holothurien von der West-kueste Java's. *Natuurkundig tijdschrift voor Nederlandsch Indië*, Bd. xl., pp. 1-26, pls. i-vii.

Context source (PeRMS) Solís-Marín, F. A.; Alvarado, J. J.; Abreu-Pérez, M.; Aguilera, O.; Alió, J.; Bacallado-Aránega, J. J.; Barraza, E.; Benavides-Serrato, M.; Benítez-Villalobos, F.; Betancourt-Fernández, L.; Borges, M.; Brandt, M.; Brogger, M. I.; Borrero-Pérez, G. H.; Buitrón-Sánchez, E.; Campos, L. S.; Cantera, J.; Clemente, S.; Cohen-Renjifo, M.; Coppard, S.; Costa-Lotufo, L. V.; del Valle-García, R.; Díaz, Y.; Díaz de Vivar, M. E.; Díaz-Martínez, J. P.; Durán-González, A.; Epherra, L.; Escolar, M.; Francisco, V.; Freire, C. A.; García-Arrarás, E.; Gil, D. G.; Guarderas, P.; Hadel, V. F.; Hearn, A.; Hernández, J. C.; Hernández-Delgado, E. A.; Herrera-Moreno, A.; Herrero-Pérezrul, M. D.; Hooker, Y.; Honey-Escandón, M. B. I.; Lodeiros, C.; Luzuriaga, M.; Manso, C. L. C.; Martín, A.; Martínez, M. I.; Martínez, S.; Moro-Abad; Mutschke, E.; Navarro, J. C.; Neira, R.; Noriega, N.; Palleiro-Nayar, J. S.; Pérez, A. F.; Pérez-Ruzafa, A.; Prieto-Rios, E.; Reyes, J.; Rodríguez, R.; Rubilar, T.; Sancho-Mejía, T.; Sangil, C.; Silva, J. R. M. C.; Sonnenholzner, J. I.; Ventura, C. R.; Tablado, A.; Tavares, Y.; Tiago, C. G.; Tuya, F.; Williams, S. M. (2013). Appendix. In: J. J. Alvarado & F. A. Solís-Marín (eds), *Echinoderm Research and Diversity in Latin America*. pp. 471-510. Springer; Berlin & Heidelberg. page(s): 543-654.

Basis of record Hansson, H.G. (2001). Echinodermata, *in*: Costello, M.J. *et al.* (Ed.) (2001). *European register of marine species: a check-list of the marine species in Europe and a bibliography of guides to their identification*. *Collection Patrimoines Naturels*,. 50: pp. 336-351.

Additional source Rowe, F. W. E.; Gates, J. (1995). Echinodermata. In *'Zoological Catalogue of Australia'*. 33 (Ed A. Wells.) pp xiii + 510 (CSIRO Australia, Melbourne).

Taxonomic citation: WoRMS (2024). *Holothuria* Linnaeus, 1767. Accessed at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=123456> on 2024-05-27

Taxonomic placement	Present situation (after CITES CoP19)			Proposed change in literature		Effect on CITES IF adopted		History	Notes
	Name in Appendices	Appendix / EU Annex	Checklist & Species+	Description of change	Citation / potential nomenclature standard reference	Changes to name in Appendices	Changes to CITES Checklist & Species+		
Mammalia: Artiodactyla: Bovidae	<i>Budorcas taxicolor</i>	II	<i>Budorcas taxicolor</i>	Species split: subspecies <i>tibetana</i> elevated to species rank, subspecies <i>bedfordi</i> placed as subspecies of <i>Budorcas tibetana</i>	Yang, L., Wei, F., Zhan, X., Fan, H., Zhao, P., Huang, G., Chang, J., Lei, Y., Hu, Y. 2022. Evolutionary Conservation Genomics Reveals Recent Speciation and Local Adaptation in Threatened Takins. <i>Molecular Biology and Evolution</i> 39(6):msac111, DOI: 10.1093/molbev/msac111	App.II: add <i>Budorcas tibetana</i>	Add <i>Budorcas tibetana</i> , remove subspecies <i>tibetana</i> and <i>bedfordi</i> from synonymy of <i>B. taxicolor</i> , list <i>bedfordi</i> as subspecies under <i>tibetana</i>	New at AC33	
Mammalia: Carnivora: Ailuridae	<i>Ailurus fulgens</i>	I	<i>Ailurus fulgens</i>	Species split: taxon <i>styani</i> elevated to species rank.	Hu, Y., Thapa, A., Fan, H., Ma, T., Wu, Q., Ma, S., Zhang, D., Wang, B., Li, M., Yan, L., Wei, F. 2020. Genomic evidence for two phylogenetic species and long-term population bottlenecks in red pandas. <i>Science Advances</i> 6 (9), eaax5751. DOI: 10.1126/sciadv.aax5751.	App.I: add <i>Ailurus styani</i>	Add <i>Ailurus styani</i> <i>Thomas 1902</i> as valid species.	New at AC33	Problematic: taxon <i>styani</i> usually considered a junior subjective synonym of <i>Ailurus fulgens</i> <i>refulgens</i> Milne-Edwards 1874; Hu et al 2020 do not consider <i>refulgens</i> .
Mammalia: Carnivora: Phocidae	<i>Monachus</i> spp.	I	<i>Monachus</i> spp: <i>Monachus monachus</i> (Hermann, 1779), <i>Monachus schauinslandi</i> Matschie 1905, <i>Monachus tropicalis</i> (Gray 1850)	Genus split: <i>Monachus monachus</i> remains in <i>Monachus</i> , <i>M. schauinslandi</i> and <i>M. tropicalis</i> are placed in new genus <i>Neomonachus</i> .	Scheel, D.-M., Slater, G. J., Kolokotronis, S.-O., Potter, C. W., Rotstein, D. S., Tsangaras, K., Greenwood, A. D. & Helgen, K. M. 2014. Biogeography and taxonomy of extinct and endangered monk seals illuminated by ancient DNA and skull morphology. - <i>ZooKeys</i> 409: 1-33	App.I: <i>Monachus</i> spp. + <i>Neomonachus</i> spp.	List new name combinations <i>Neomonachus schauinslandi</i> (Matschie 1905) and <i>Neomonachus tropicalis</i> (Gray 1850), and list older names as synonyms	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	
Mammalia: Cetacea: Balaenopteridae	<i>Balaenoptera edeni</i>	I	<i>Balaenoptera edeni</i> Anderson 1879	Species split: Gulf of Mexico population of Bryde's Whale split off as a separate species, <i>Balaenoptera ricei</i> .	Rosel, P. E.; Wilcox, L. A.; Yamada, T. K.; Mullin, K. D. 2021. A new species of baleen whale (<i>Balaenoptera</i>) from the Gulf of Mexico, with a review of its geographic distribution. <i>Marine Mammal Science</i> . 37(2): 577-610	App.I: add <i>Balaenoptera ricei</i>	Add <i>Balaenoptera ricei</i> Rosel, Wilcox, Yamada & Mullin 2021 as valid species	noted in AC31 WG	
Mammalia: Primates: Cebidae	PRIMATES spp.	II/B	<i>Cebus albifrons</i> (Humboldt 1812)	Species split: <i>Cebus versicolor</i> resurrected from synonymy of <i>Cebus albifrons</i>	Boubli, J.P., Rylands, A.B., Farias, I., Alfaro, M. and Lynch Alfaro, J. 2012. Cebus phylogenetic relationships: a preliminary reassessment of the diversity of the untufted capuchin monkeys. <i>American Journal of Primatology</i> 74(4): 381-393.	None: part of PRIMATES spp.	List <i>Cebus versicolor</i> Pucheran 1845 as valid species, remove it from synonymy of <i>Cebus albifrons</i>		
Mammalia: Primates: Cebidae	PRIMATES spp.	II/B	<i>Cebus apella</i> (Linnaeus 1758)	Genus change, to <i>Sapajus apella</i>	Lima, M.G.M., Buckner, J.C., Silva-Junior, J.S., Aleixo, A., Amely B., Martins, A.B., Boubli, J.P., Link, A., Farias, I.P., Silva, M.N., Röhe, F., Queiroz, H., Chiou, K.L., Di Fiore, A., Alfaro, M.E. and Lynch Alfaro, J.W. 2017. Capuchin monkey biogeography: understanding <i>Sapajus</i> Pleistocene range expansion and the current sympatry between <i>Cebus</i> and <i>Sapajus</i> . <i>Journal of Biogeography</i> 44(4): 810-820. doi:10.1111/jbi.12945	None: part of PRIMATES spp.	Change valid name to <i>Sapajus apella</i> (Linnaeus 1758), list previous name as synonym		
Mammalia: Primates: Cebidae	PRIMATES spp.	II/B	<i>Cebus flavius</i> (Schreber 1774)	Genus change, to <i>Sapajus flavius</i> (Schreber 1774)	Lima, et al. 2018. Molecular Phylogenetics and Evolution 124: 137-150.	None: part of PRIMATES spp.	Change valid name to <i>Sapajus flavius</i> (Schreber 1774), list previous name as synonym		
Mammalia: Primates: Cebidae	PRIMATES spp.	II/B	<i>Cebus libidinosus</i> Spix, 1823	Genus change, to <i>Sapajus libidinosus</i>	Lima, et al. 2018. Molecular Phylogenetics and Evolution 124: 137-150.	None: part of PRIMATES spp.	Change valid name to <i>Sapajus libidinosus</i> (Spix, 1823), list previous name as synonym		

Taxonomic placement	Present situation (after CITES CoP19)			Proposed change in literature		Effect on CITES IF adopted		History	Notes
	Name in Appendices	Appendix / EU Annex	Checklist & Species+	Description of change	Citation / potential nomenclature standard reference	Changes to name in Appendices	Changes to CITES Checklist & Species+		
Mammalia: Primates: Cebidae	PRIMATES spp.	II/B	<i>Cebus nigrilus</i> (Goldfuss 1809)	Genus change, to <i>Sapajus nigrilus</i>	Lima, et al. 2018. Molecular Phylogenetics and Evolution 124: 137-150.	None: part of PRIMATES spp.	Change valid name to <i>Sapajus nigrilus</i> (Goldfuss 1809), list previous name as synonym		
Mammalia: Primates: Cebidae	PRIMATES spp.	II/B	<i>Cebus nigrilus</i> (Goldfuss 1809)	Species split and genus change: <i>Sapajus cucullatus</i> (Spix, 1823) elevated to species rank, from subspecies <i>Cebus nigrilus cucullatus</i> .	Lynch Alfaro, J.W., Boubli, J.P., Olson, L.E., Di Fiore, A., Wilson, B., Gutiérrez-Espeleta, G.A., Chiou, K.L., Schulte, M., Neitzel, S., Ross, V., Schwochow, D., Nguyen, M., Farias, I., Janson, C. & Alfaro, M.E. 2012. Explosive Pleistocene range expansion leads to widespread Amazonian sympatry between robust and gracile capuchin monkeys. Journal of Biogeography 39: 272–288.	None: part of PRIMATES spp.	List <i>Cebus</i> or <i>Sapajus cucullatus</i> (Spix, 1823) as valid species, remove it from synonymy of <i>Cebus nigrilus</i>		
Mammalia: Primates: Cebidae	PRIMATES spp.	II/B	<i>Cebus xanthostemos</i> Wied-Neuwied, 1826	Genus change, to <i>Sapajus xanthostemos</i>	Lima, M.G.M., Silva-Júnior, J.S., Čemýc, D., Buckner, J.C., Aleixo, A., Chang, J., Zheng, J., Alfaro, M.E., Martins, A. Di Fiore, A., Boubli, J.P. and Lynch Alfaro, J.W. 2018. A phylogenomic perspective on the robust capuchin monkey (<i>Sapajus</i>) radiation: first evidence for extensive population admixture across South America. Molecular Phylogenetics and Evolution 124: 137-150	None: part of PRIMATES spp.	Change valid name to <i>Sapajus xanthostemos</i> (Wied-Neuwied, 1826), list previous name as synonym		
Mammalia: Primates: Cebidae	PRIMATES spp.	II/B	N/A	New species: <i>Mico munduruku</i> Costa-Araújo, Farias & Hrbek in Costa-Araújo, Melo, Canale, Hernández-Rangel, Messias et al., 2019	Costa-Araújo, R., Melo, F. R. de, Canale, G. R., Hernández-Rangel, S. M., Messias, M. R., Rossi, R. V., Silva, F. E. Silva, M. N. F. da, Nash, S. D., Boubli, J. P., Farias, I. P. and Hrbek, T. 2019. The Munduruku marmoset: a new monkey species from southern Amazonia. PeerJ. 7: e7019. DOI 10.7717/peerj.7019. 18pp	None: part of PRIMATES spp.	Add <i>Mico munduruku</i> Costa-Araújo, Farias & Hrbek in Costa-Araújo, Melo, Canale, Hernández-Rangel, Messias et al., 2019		
Mammalia: Primates: Cebidae	PRIMATES spp.	II/B	not listed in Species+	Species synonymisation: <i>Cebus macrocephalus</i> (Spix 1823) considered a subspecies of <i>Sapajus apella</i> (Linnaeus 1758)	Lima et al. 2017. Journal of Biogeography 44(4): 810-820. doi:10.1111/jbi.12945 and Lima et al. 2018. Molecular Phylogenetics and Evolution 124: 137-150.	None: part of PRIMATES spp.	List <i>Sapajus apella macrocephalus</i> (Spix 1823) at subspecies rank and ensure that <i>Cebus macrocephalus</i> (Spix 1823) and <i>Sapajus macrocephalus</i> (Spix 1823) are listed as synonyms.		
Mammalia: Primates: Cercopitheciidae	PRIMATES spp.	II/B	<i>Cercocebus atys</i> (Audebert, 1797)	Species split: <i>Cercocebus lunulatus</i> (Temminck, 1853) considered a valid species	Mittermeier, R. A., Rylands, A. B. & Wilson, D. E. 2013. Handbook of the Mammals of the World: Volume 3 Primates. Lynx Edicions, Barcelona	None: part of PRIMATES spp.	Add <i>Cercocebus lunulatus</i> (Temminck, 1853)	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	Note: EN in IUCN Red List
Mammalia: Primates: Cercopitheciidae	PRIMATES spp.	II/B	<i>Colobus guereza</i> Rüppell 1835	Species split: <i>Colobus caudatus</i> Thomas 1885 elevated to species rank, from subspecies <i>Colobus guereza caudatus</i>	Butynski, T.M. and De Jong, Y.A. 2018. Geographic range, taxonomy, and conservation of the Mount Kilimanjaro guereza colobus monkey (Primates: Cercopitheciidae: <i>Colobus</i>). Hystrix, the Italian Journal of Mammalogy 29(1): 81–85. doi:10.4404/hystrix-00043-2018	None: part of PRIMATES spp.	List <i>Colobus caudatus</i> Thomas 1885 as valid species, and remove name from synonymy of <i>Colobus guereza</i> Rüppell 1835		

Taxonomic placement	Present situation (after CITES CoP19)			Proposed change in literature Description of change	Citation / potential nomenclature standard reference	Effect on CITES IF adopted		History	Notes
	Name in Appendices	Appendix / EU Annex	Checklist & Species+			Changes to name in Appendices	Changes to CITES Checklist & Species+		
Mammalia: Primates: Cercopitheciidae	PRIMATES spp.	II/B	<i>Erythrocebus patas</i> (Schreber 1775)	Species split: <i>Erythrocebus patas</i> split into 3 species: <i>E. baumstarki</i> Matschie 1905, <i>E. poliophaeus</i> (Reichenbach, 1862), and <i>E. patas</i> (Schreber 1775)	Gippoliti, S. 2017. On the taxonomy of <i>Erythrocebus</i> with a re-evaluation of <i>Erythrocebus poliophaeus</i> (Reichenbach, 1862) from the Blue Nile region of Sudan and Ethiopia. Primate Conservation 31: 53-59	None: part of PRIMATES spp.	List <i>Erythrocebus baumstarki</i> Matschie 1905 and <i>Erythrocebus poliophaeus</i> (Reichenbach, 1862) as valid, and remove names from synonymy of <i>E. patas</i> (Schreber 1775).		
Mammalia: Primates: Cercopitheciidae	PRIMATES spp.	II/B	<i>Papio cynocephalus</i> (Linnaeus, 1766)	Species split: <i>Papio kindae</i> Lönnberg, 1919 considered a valid species	Mittermeier, R. A., Rylands, A. B. & Wilson, D. E. 2013. Handbook of the Mammals of the World: Volume 3 Primates. Lynx Edicions, Barcelona	None: part of PRIMATES spp.	Add <i>Papio kindae</i> Lönnberg, 1919	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	
Mammalia: Primates: Cheirogaleidae	Cheirogaleidae spp.	I/A	N/A	New species, based mainly on genetic data but supported by morphological differences: <i>Microcebus boraha</i> Hotaling, Foley, Lawrence, Bocanegra, Blanco, Rasoloarison, Kappeler, Barrett, Yoder & Weisrock, 2016	Hotaling, S., Foley, M. E., Lawrence, N. M. Bocanegra, J. Blanco, M. B., Rasoloarison, R., Kappeler, P. M., Barrett, M. A., Yoder, A. D. & Weisrock, D. W. 2016. Species discovery and validation in a cryptic radiation of endangered primates: coalescent-based species delimitation in Madagascar's mouse lemurs. - Molecular Ecology 25: 2029–2045	None: part of Cheirogaleidae spp.	Add <i>Microcebus boraha</i> Hotaling, Foley, Lawrence, Bocanegra, Blanco, Rasoloarison, Kappeler, Barrett, Yoder & Weisrock, 2016	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	
Mammalia: Primates: Cheirogaleidae	Cheirogaleidae spp.	I/A	N/A	New species: <i>Microcebus jonahi</i> Schüssler, Blanco, Salmons, Poelstra, Andriambeloson, Miller, Randrianambinina et al., 2020	Schüssler, D., Salmons, J., Blanco, M. B., Poelstra, J., Tiley, G. P., Andriambeloson, J. B., Bouchez, K. E. O., Campbell, C. R., Etter, P. D., Iribar, A., Hohenlohe, P. A., Hunnicutt, K. E., Johnson, E. A., Larsen, P. A., Mantilla-Contreras, J., Manzi, S., Miller, A., Randrianambinina, B., Rasolofofon, D. W., Amanda R., Stahlke, A. R., Weisrock, D., Williams, R. C., Chikhi, L., Louis Jr., E. E., Yoder, A. D. and Radespiel, U. 2020. Complex processes of cryptic speciation in mouse lemurs from a micro-endemism hotspot in Madagascar. American Journal of Primatology 82: e23180.	None: part of Cheirogaleidae spp.	Add <i>Microcebus jonahi</i> Schüssler, Blanco, Salmons, Poelstra, Andriambeloson, Miller, Randrianambinina et al., 2020		
Mammalia: Primates: Hylobatidae	Hylobatidae spp.	I/A	N/A	New species: <i>Hoolock tianxing</i> Fan, He, Chen, Ortiz, Zhang, Zhao, Li, Zhang, Kimock, Wang, Groves, Turvey, Roos, Helgen & Jiang, 2016, based on genetic and morphological data	Fan, P.-F., He, K., Chen, X., Ortiz, A., Zgang, B., Zhao, C., Li, Y.-Q., Zhang, H.-B., Kimock, C., Wang, W.-Z., Groves, C., Turvey, S. T., Roos, C., Helgen, K. M. & Jiang, X.-L. 2016. Description of a new species of Hoolock gibbon (Primates: Hylobatidae) based on integrative taxonomy. – American Journal of Primatology 79: e22631	None: part of Hylobatidae spp.	Add <i>Hoolock tianxing</i> Fan, He, Chen, Ortiz, Zhang, Zhao, Li, Zhang, Kimock, Wang, Groves, Turvey, Roos, Helgen & Jiang, 2016	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	Note1: Genus <i>Hoolock</i> not recognised as separate from <i>Hylobates</i> by CITES. Note 2: likely a split-out rather than a new discovery
Mammalia: Primates: Pitheciidae	PRIMATES spp.	II/B	<i>Callicebus stephennashi</i> van Roosmalen, van Roosmalen & Mittermeier, 2002	Genus transfer, to <i>Plecturocebus stephennashi</i> (van Roosmalen, van Roosmalen & Mittermeier, 2002)	Byrne, H., Rylands, A. B., Cameiro, J. C., Alfaro, J. W. L., Bertuol, F., da Silva, M. N. F., Messias, M., Groves, C. P., Mittermeier, R. A., Farias, I., Hrbek, T., Schneider, H., Sampaio, I. & Boubli, J. P. 2016. Phylogenetic relationships of the New World titi monkeys (<i>Callicebus</i>): first appraisal of taxonomy based on molecular evidence. - Frontiers in Zoology 13 (10): 1-25. https://doi.org/10.1186/s12983-016-0142-4	None: part of PRIMATES spp.	Change name, list old name as synonym – but see next line	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	Currently still in <i>Callicebus</i> , many other species transferred to <i>Plecturocebus</i>

Taxonomic placement	Present situation (after CITES CoP19)			Proposed change in literature Description of change	Citation / potential nomenclature standard reference	Effect on CITES IF adopted		History	Notes
	Name in Appendices	Appendix / EU Annex	Checklist & Species+			Changes to name in Appendices	Changes to CITES Checklist & Species+		
Mammalia: Primates: Pitheciidae	PRIMATES spp.	II/B	<i>Callicebus stehennashi</i> van Roosmalen, van Roosmalen & Mittermeier, 2002	Synonymisation of <i>Callicebus stehennashi</i> under <i>C. caligatus</i> (Wagner, 1842)	Serrano-Villavicencio, J. E., Vendramel, R. L. & Garbino, G. S. T. 2017. Species, subspecies, or color morphs? Reconsidering the taxonomy of <i>Callicebus</i> Thomas, 1903 in the Purus-Madeira interfluvium. - <i>Primates</i> 58: 159-167	None: part of PRIMATES spp.	List <i>C. stehennashi</i> as synonym under <i>Plecturocebus caligatus</i>	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	
Mammalia: Primates: Pitheciidae	PRIMATES spp.	II/B	N/A	new species <i>Plecturocebus parecis</i> (Gusmão et al., 2019)	Gusmão, A.C., Messias, M.R., Cameiro, J.C., Schneider, H., de Alencar, T.B., Calouro, A.M., Dalponte, J.C., de Souza Mattos, F., Ferrari, S.F., Buss, G. and de Azevedo, R.B., 2019. A new species of Titi monkey, <i>Plecturocebus</i> Byrne et al., 2016 (<i>Primates</i> , Pitheciidae), from southwestern Amazonia, Brazil. <i>Primate Conserv</i> , 33, pp.21-35	None: part of PRIMATES spp.	add <i>Plecturocebus parecis</i> (Gusmão et al., 2019)	noted in AC31 WG	
Mammalia: Primates: Pitheciidae	PRIMATES spp.	II/B	N/A	New species: <i>Plecturocebus parecis</i> Gusmão, Messias, Cameiro, Schneider, de Alencar, Caluro, Dalponte, Mattos, Ferrari et al., 2019	Gusmão, A. C., Messias, M. R. de, Cameiro, J. C., Schneider, H., Alencar, T. B. de, Calouro, A. M., Dalponte, J. C., Mattos, F. de S., Ferrari, S. F., Buss, G., Azevedo, R. B. de, Santos Jr, E. M., Nash, S. D., Rylands A. B. & Barnett, A. A. 2019. A new species of titi monkey, <i>Plecturocebus</i> Byrne et al., 2016 (<i>Primates</i> , Pitheciidae) from southwestern Amazonian, Brazil. <i>Primate Conservation</i> (33): 21–35	None: part of PRIMATES spp.	Add <i>Plecturocebus parecis</i> Gusmão, Messias, Cameiro, Schneider, de Alencar, Caluro, Dalponte, Mattos, Ferrari et al., 2019		
Mammalia: Primates: Pitheciidae	PRIMATES spp.	II/B	<i>Plecturocebus cupreus</i> (Spix, 1823)	Species split: <i>Callicebus toppini</i> Thomas, 1914 considered a valid species based on morphological data (V&T-A 2015; B& 2016) and transferred to genus <i>Plecturocebus</i> (B& 2016)	Vermeer, J. & Tello-Alvarado, J. C. 2015. The distribution and taxonomy of titi monkeys (<i>Callicebus</i>) in Central and Southern Peru, with the description of a new species. <i>Primate Conservation</i> 29: 1–21; Byrne, H., Rylands, A. B., Cameiro, J. C., Alfaro, J. W. L., Bertuol, F., da Silva, M. N. F., Messias, M., Groves, C. P., Mittermeier, R. A., Farias, I., Hrbek, T., Schneider, H., Sampaio, I. & Boubli, J. P. 2016. Phylogenetic relationships of the New World titi monkeys (<i>Callicebus</i>): first appraisal of taxonomy based on molecular evidence. - <i>Frontiers in Zoology</i> 13 (10): 1-25. https://doi.org/10.1186/s12983-016-0142-4	None: part of PRIMATES spp.	Add <i>Plecturocebus toppini</i> (Thomas 1914) as valid species	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	
Mammalia: Primates: Tarsiidae	PRIMATES spp.	II/B	N/A	New species: <i>Tarsius niemitzii</i> Shekelle, Groves, Maryanto, Mittermeier, Salim and Springer, 2019	Shekelle, M., Groves, C. P., Maryanto, I., Mittermeier, R. A., Salim, A. and Springer, M. S. 2019. A new tarsier species from the Togean Islands of Central Sulawesi, Indonesia, with reference to Wallacea and conservation on Sulawesi. <i>Primate Conservation</i> (33): 65–73	None: part of PRIMATES spp.	Add <i>Tarsius niemitzii</i> Shekelle, Groves, Maryanto, Mittermeier, Salim and Springer, 2019		
Mammalia: Proboscidea: Elephantidae	<i>Loxodonta africana</i> *	I-II/A-B	<i>Loxodonta africana</i> (Blumenbach 1797)	Species split: <i>Loxodonta cyclotis</i> elevated to full species status	Wilson & Reeder 2005	App.I: add <i>Loxodonta cyclotis</i> [NOT added to App. II]	Add <i>Loxodonta cyclotis</i> (Matschie 1900), remove from synonymy of <i>L. africana</i>	CoP19 Doc.84.1, AC32 Doc.46 para. 6-12.	See paragraphs x-x of main Nomenclature document AC33 Doc.xx. No populations attributed to <i>L. cyclotis</i> occur in Parties whose Elephant populations are in Appendix II.
Aves: Falconiformes: Accipitridae	FALCONIFORMES spp.	II/B	<i>Leucopternis occidentalis</i> (Salvin, 1876)	Genus transfer, to <i>Pseudastur occidentalis</i> (Salvin, 1876)	del Hoyo & Collar (2014)	None: part of FALCONIFORMES spp.	Change name, list old name as synonym	AC31 Doc.37 Annex 5	<i>Leucopternis albicollis</i> was transferred to <i>Pseudastur</i> at CoP19, but these two closely related species (former subspecies) were not.

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	Name in Appendices	Appendix / EU Annex	Checklist & Species+			Changes to name in Appendices	Changes to CITES Checklist & Species+		
Aves: Falconiformes: Accipitridae	FALCONIFORMES spp.	II/B	<i>Leucopternis polionotus</i> (Kaup, 1847)	Genus transfer, to <i>Pseudastur polionotus</i> (Kaup, 1847)	del Hoyo & Collar (2014)	None: part of FALCONIFORMES spp.	Change name, list old name as synonym	AC31 Doc.37 Annex 5	as above
Reptilia: Sauria: Chamaeleonidae	<i>Furcifer</i> spp.	II/B	<i>Furcifer rhinoceros</i> (Gray, 1845)	Species split: <i>Furcifer monoceros</i> (Boettger, 1913) treated as valid and distinct from <i>F. rhinoceros</i>	Sentis, M., Chang, Y., Scherz, M. D., Prötzel, D. & Glaw, F. 2018. Rising from the ashes: resurrection of the Malagasy chameleons <i>Furcifer monoceros</i> and <i>F. voeltzkowi</i> (Squamata: Chamaeleonidae), based on micro-CT scans and external morphology. <i>Zootaxa</i> 4483 (3): 549-566.	None: part of <i>Furcifer</i> spp.	Add <i>Furcifer monoceros</i> (Boettger, 1913)	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	
Reptilia: Sauria: Chamaeleonidae	<i>Furcifer</i> spp.	II/B	<i>Furcifer rhinoceros</i> (Gray, 1845)	Species split: <i>Furcifer voeltzkowi</i> (Boettger, 1893) treated as valid and distinct from <i>F. rhinoceros</i>	Sentis <i>et al.</i> 2018.	None: part of <i>Furcifer</i> spp.	Add <i>Furcifer voeltzkowi</i> (Boettger, 1893)	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	
Reptilia: Sauria: Cordylidae	<i>Cordylus</i> spp.	II/B	<i>Cordylus namakuiyus</i> Stanley <i>et al.</i> 2016.	Species split: <i>Cordylus phonolithos</i> described as sister species to the lineage containing <i>C. machadoi</i> and <i>C. namakuiyus</i>	Marques, M.P., Ceriaco, L.M., Stanley, E.L., Bandeira, S., Agarwal, I. and Bauer, A.M., 2019. A new species of girdled lizard (Squamata: Cordylidae) from the Serra da Neve Inselberg, Namibe Province, southwestern Angola. <i>Zootaxa</i> , 4668(4), pp.503-524.	None: part of <i>Cordylus</i> spp.	Add <i>Cordylus phonolithos</i> Marques, Ceriaco, Stanley, Bandeira, Agarwal & Bauer 2019	noted in AC31 WG	
Reptilia: Sauria: Cordylidae	<i>Smaug</i> spp.	II/B	<i>Smaug warreni</i> (Boulenger, 1908)	Species split: <i>Smaug barbertonensis</i> (van Dam, 1921) treated as valid and distinct from <i>S. warreni</i>	Stanley, E. L. and Bates, M. F. 2014. Here be dragons: a phylogenetic and biogeographical study of the <i>Smaug warreni</i> species complex (Squamata: Cordylidae) in southern Africa. <i>Zoological Journal of the Linnean Society</i> 172 (4): 892–909; doi: 10.1111/zoi.12187	None: part of <i>Smaug</i> spp.	Add <i>Smaug barbertonensis</i> (van Dam, 1921)	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	
Reptilia: Sauria: Cordylidae	<i>Smaug</i> spp.	II/B	<i>Smaug warreni</i> (Boulenger, 1908)	Species split: <i>Smaug depressus</i> (van Dam, 1921) treated as valid and distinct from <i>S. warreni</i>	Stanley, E. L. and Bates, M. F. 2014. Here be dragons: a phylogenetic and biogeographical study of the <i>Smaug warreni</i> species complex (Squamata: Cordylidae) in southern Africa. <i>Zoological Journal of the Linnean Society</i> 172 (4): 892–909; doi: 10.1111/zoi.12187	None: part of <i>Smaug</i> spp.	Add <i>Smaug depressus</i> (van Dam, 1921)	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	
Reptilia: Sauria: Cordylidae	<i>Smaug</i> spp.	II/B	<i>Smaug warreni</i> (Boulenger, 1908)	Species split: <i>Smaug swazicus</i> described as new species, after being previously known as the 'Swaziland Lineage' of <i>S. warreni</i> / <i>S. barbertonensis</i> .	Bates, M.F. and Stanley, E.L., 2020. A taxonomic revision of the south-eastern dragon lizards of the <i>Smaug warreni</i> (Boulenger) species complex in southern Africa, with the description of a new species (Squamata: Cordylidae). <i>PeerJ</i> , 8, p.e8526.	None: part of <i>Smaug</i> spp.	Add <i>Smaug swazicus</i> Bates & Stanley 2020	noted in AC31 WG	
Reptilia: Sauria: Gekkonidae	<i>Gekko gekko</i>	II	<i>Gekko gekko</i> (Linnaeus 1758)	Species split: <i>Gekko reevesii</i> elevated from synonym of <i>Gekko gekko</i> to full species	Wood, P. L., Guo, X., Travers, S. L., Su, Y. C., Olson, K. V., Bauer, A. M., Grismer, L. L., Siler, C. D., Moyle, R. G., Andersen, M. J. and Brown, R. M. 2020. Parachute geckos free fall into synonymy: <i>Gekko</i> phylogeny, and a new subgeneric classification, inferred from thousands of ultraconserved elements. <i>Molecular Phylogenetics and Evolution</i> 146: 106731 [corrigendum: MPE 164: 107255]	App.II: add <i>Gekko reevesii</i>	Add <i>Gekko reevesii</i> (Gray, 1831), remove from synonymy of <i>Gekko gekko</i>	noted in AC31 WG	
Reptilia: Sauria: Gekkonidae	<i>Uroplatus</i> spp.	II/B	N/A	New species: <i>Uroplatus fangom</i> Ratsoavina, Glaw, Raselimanana, Rakotoarison, Vieites, Hawlitschek, Vences & Scherz, 2020	Ratsoavina, Glaw, Raselimanana, Rakotoarison, Vieites, Hawlitschek, Vences & Scherz, 2020. Towards completion of the species inventory of small-sized leaf-tailed geckos: two new species of <i>Uroplatus</i> from northern Madagascar. <i>Zootaxa</i> 4895 (2): 251–271.	None: part of <i>Uroplatus</i> spp.	Add <i>Uroplatus fangom</i> Ratsoavina, Glaw, Raselimanana, Rakotoarison, Vieites, Hawlitschek, Vences & Scherz, 2020	noted in AC31 WG	New species, based on genetic and morphological data

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	Name in Appendices	Appendix / EU Annex	Checklist & Species+	Description of change	Citation / potential nomenclature standard reference	Changes to name in Appendices	Changes to CITES Checklist & Species+		
Reptilia: Sauria: Gekkonidae	<i>Uroplatus</i> spp.	II/B	N/A	New split-out species: <i>Uroplatus fetsy</i> Ratsoavina, Scherz, Tolley, Raselimanana, Glaw & Vences 2019 separated from <i>U. ebenau</i> .	Ratsoavina, Scherz, Tolley, Raselimanana, Glaw & Vences. 2019. A new species of <i>Uroplatus</i> (Gekkonidae) from Ankarana National Park, Madagascar, of remarkably high genetic divergence. <i>Zootaxa</i> 4683 (1): 084–096.	None: part of <i>Uroplatus</i> spp.	Add <i>Uroplatus fetsy</i> Ratsoavina, Scherz, Tolley, Raselimanana, Glaw & Vences 2019	AC32 New item	New species, based on genetic and morphological data
Reptilia: Sauria: Gekkonidae	<i>Uroplatus</i> spp.	II/B	N/A	New species: <i>Uroplatus finaritra</i> Ratsoavina, Raselimanana, Scherz, Rakotoarison, Razafindraibe, Glaw & Vences, 2019	Ratsoavina, Raselimanana, Scherz, Rakotoarison, Razafindraibe, Glaw & Vences. 2019. Finaritra! A splendid new leaf-tailed gecko (<i>Uroplatus</i>) species from Marojey National Park in north-eastern Madagascar. <i>Zootaxa</i> 4545 (4): 563–577.	None: part of <i>Uroplatus</i> spp.	Add <i>Uroplatus finaritra</i> Ratsoavina, Raselimanana, Scherz, Rakotoarison, Razafindraibe, Glaw & Vences, 2019	noted in AC31 WG	New species, based on genetic and morphological data
Reptilia: Sauria: Gekkonidae	<i>Uroplatus</i> spp.	II/B	N/A	New species: <i>Uroplatus fivehy</i> Ratsoavina, Glaw, Raselimanana, Rakotoarison, Vieites, Hawlitschek, Vences & Scherz, 2020	Ratsoavina, Glaw, Raselimanana, Rakotoarison, Vieites, Hawlitschek, Vences & Scherz. 2020. Towards completion of the species inventory of small-sized leaf-tailed geckos: two new species of <i>Uroplatus</i> from northern Madagascar. <i>Zootaxa</i> 4895 (2): 251–271.	None: part of <i>Uroplatus</i> spp.	Add <i>Uroplatus fivehy</i> Ratsoavina, Glaw, Raselimanana, Rakotoarison, Vieites, Hawlitschek, Vences & Scherz, 2020	noted in AC31 WG	New species, based on genetic and morphological data
Reptilia: Sauria: Iguanidae	<i>Ctenosaura</i> spp.	II/B	<i>Ctenosaura alfredschmidti</i> , <i>Ctenosaura defensor</i>	Genus split: <i>Ctenosaura</i> split into <i>Cachryx</i> for <i>alfredschmidti</i> and <i>defensor</i> , all other species retained in <i>Ctenosaura</i>	Malone, C.L., V.H. Reynoso, and L.J. Buckley. 2017. Never judge an iguana by its spines: Systematics of the Yucatán Spiny-tailed Iguana, <i>Ctenosaura defensor</i> (Cope, 1866). <i>Molecular Phylogenetics and Evolution</i> 115:27–39	Add ' <i>Cachryx</i> spp.' to Appendix II	Transfer <i>defensor</i> and <i>alfredschmidti</i> to <i>Cachryx</i> , list <i>Ctenosaura</i> names in synonymy		
Reptilia: Sauria: Iguanidae	<i>Iguana</i> spp.	II	<i>Iguana iguana</i> (Linnaeus 1758)	Species split: <i>Iguana insularis</i> elevated to species rank, after earlier (2019) description as subspecies of <i>Iguana iguana</i> .	Breuil, Schikorski, Vuillaume, Krauss, Morton, Cory, Bech, Jelic, & Grandjean. 2020. Painted black: <i>Iguana melanoderma</i> (Reptilia, Squamata, Iguanidae) a new melanistic endemic species from Saba and Montserrat islands (Lesser Antilles). <i>ZooKeys</i> 926: 95–131 (2020) doi: 10.3897/zookeys.926.48679.	None: part of <i>Iguana</i> spp.	Add <i>Iguana insularis</i> Breuil, Vuillaume, Schikorski, Krauss, Morton, Haynes, Daltry, Cory, Gaymes, Gaymes, Bech, Jelic & Grandjean 2019	AC32 New item	See paragraph 20 of main nomenclature document and Iguana Taxonomy WG 2022 at https://www.iucn-isg.org/wp-content/uploads/2022/05/ITWG_Checklist_2022_Supplement.pdf
Reptilia: Sauria: Iguanidae	<i>Iguana</i> spp.	II	<i>Iguana iguana</i> (Linnaeus 1758)	Species split: new species <i>Iguana melanoderma</i> recognised as distinct from <i>Iguana iguana</i>	Breuil, Schikorski, Vuillaume, Krauss, Morton, Cory, Bech, Jelic, & Grandjean. 2020. Painted black: <i>Iguana melanoderma</i> (Reptilia, Squamata, Iguanidae) a new melanistic endemic species from Saba and Montserrat islands (Lesser Antilles). <i>ZooKeys</i> 926: 95–131 (2020) doi: 10.3897/zookeys.926.48679.	None: part of <i>Iguana</i> spp.	Add <i>Iguana rhinolopha</i> Breuil, Schikorski, Vuillaume, Krauss, Morton, Cory, Bech, Jelic, & Grandjean 2020	noted in AC31 WG	Preliminary discussion at AC31; see also paragraph 20 of main nomenclature document and Iguana Taxonomy WG 2022 at https://www.iucn-isg.org/wp-content/uploads/2022/05/ITWG_Checklist_2022_Supplement.pdf
Reptilia: Sauria: Iguanidae	<i>Iguana</i> spp.	II	<i>Iguana iguana</i> (Linnaeus 1758)	Species split: <i>Iguana rhinolopha</i> elevated to species rank, after earlier recognition as subspecies of <i>Iguana iguana</i> .	Breuil, Vuillaume, Schikorski, Krauss, Morton, Haynes, Daltry, Cory, Gaymes, Gaymes, Bech, Jelic & Grandjean. 2019. A story of nasal horns: two new subspecies of <i>Iguana</i> Laurenti, 1768 (Squamata, Iguanidae) in Saint Lucia, St Vincent & the Grenadines, and Grenada (southern Lesser Antilles). <i>Zootaxa</i> 4608 (2): 201–232, https://doi.org/10.11646/zootaxa.4608.2.1 .	None: part of <i>Iguana</i> spp.	Add <i>Iguana rhinolopha</i> Duméril & Bibron 1837	AC32 New item	See paragraph 20 of main nomenclature document and Iguana Taxonomy WG 2022 at https://www.iucn-isg.org/wp-content/uploads/2022/05/ITWG_Checklist_2022_Supplement.pdf
Reptilia: Sauria: Varanidae	Varanidae spp.	II/B	<i>Varanus indicus</i>	Species split: monitor lizards of the <i>Varanus indicus</i> Group in Palau and the Mariana Islands recognised as separate species: <i>V. tsukamotoi</i> in the Mariana Islands, and <i>V. bennettii</i> in Palau, the Western Carolines and Sarigan Island in the Northern Marianas	Weijola, V., Vahtera, V., Koch, A., Schmitz, A. and Kraus, F., 2020. Taxonomy of Micronesian monitors (Reptilia: Squamata: Varanus): endemic status of new species argues for caution in pursuing eradication plans. <i>Royal Society Open Science</i> , 7(5), p.200092.	None: part of <i>Varanus</i> spp.	Add <i>Varanus tsukamotoi</i> Kishida 1929 and <i>Varanus bennettii</i> Weijola, Vahtera, Koch, Schmitz & Kraus 2020	noted by AC31 WG	

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	Name in Appendices	Appendix / EU Annex	Checklist & Species+			Changes to name in Appendices	Changes to CITES Checklist & Species+		
Reptilia: Sauria: Varanidae	Varanidae spp.	II/B	<i>Varanus indicus</i> (Daudin, 1802)	Species split: <i>Varanus douartha</i> Lesson, 1830 considered a valid species distinct from <i>V. indicus</i>	Weijola, V., Kraus, F., Vahtera, V., Lindqvist, C. & Donnellan, S. C. 2017. Reinstatement of <i>Varanus douartha</i> Lesson, 1830 as a valid species with comments on the zoogeography of monitor lizards (Squamata: Varanidae) in the Bismarck Archipelago, Papua New Guinea. - Australian Journal of Zoology, doi: 10.1071/ZO16038.	None: part of <i>Varanus</i> spp.	Add <i>Varanus douartha</i> Lesson, 1830	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	
Reptilia: Serpentes: Boidae	<i>Acranthophis</i> spp.	I/A	<i>Acranthophis dumerili</i> Jan 1860, A. <i>madagascariensis</i> (Duméril & Bibron 1844)	May need updating of Standard Nomenclature Reference	Pyron, R. A., R. G. Reynolds & F. T. Burbrink.2014. A Taxonomic Revision of Boas (Serpentes: Boidae). Zootaxa, 3846 (2): 249–260. http://dx.doi.org/10.11646/zootaxa.3846.2.5			noted in AC31 WG	To be addressed as part of the revision of Higher Nomenclature for Sauria and Serpentes
Reptilia: Serpentes: Boidae	Boidae	I, II	N/A	May need updating of family-level nomenclature	Pyron, R. A., R. G. Reynolds & F. T. Burbrink.2014. A Taxonomic Revision of Boas (Serpentes: Boidae). Zootaxa, 3846 (2): 249–260. http://dx.doi.org/10.11646/zootaxa.3846.2.5			noted in AC31 WG	To be addressed as part of the revision of Higher Nomenclature for Sauria and Serpentes
Reptilia: Serpentes: Boidae	Boidae spp.	II/B	<i>Lichanura trivirgata</i> Cope 1861	May need updating of Standard Nomenclature Reference	Pyron, R. A., R. G. Reynolds & F. T. Burbrink.2014. A Taxonomic Revision of Boas (Serpentes: Boidae). Zootaxa, 3846 (2): 249–260. http://dx.doi.org/10.11646/zootaxa.3846.2.5			noted in AC31 WG	To be addressed as part of the revision of Higher Nomenclature for Sauria and Serpentes
Reptilia: Serpentes: Boidae	Boidae spp.	II/B	<i>Lichanura trivirgata</i> Cope 1861	Species split: <i>Lichanura orcutti</i> removed from synonymy of <i>L. trivirgata</i>	Reynolds, R. Graham and Robert W. Henderson 2018. Boas of the World (Superfamily Booidae): A Checklist With Systematic, Taxonomic, and Conservation Assessments. Bulletin of the Museum of Comparative Zoology Sep 2018, Vol. 162, No. 1: 1-5	None: part of Boidae spp.	Add <i>Lichanura orcutti</i> Stejneger 1889 as valid species, remove from synonymy of <i>L. trivirgata</i>	AC32 New item	
Reptilia: Serpentes: Boidae	Boidae spp.	II/B	N/A	New species: <i>Chilabothrus argentum</i> Reynolds, Puente-Rolón, Geneva, Aviles-Rodríguez & Hermann, 2016, based on genetic and morphological data	Reynolds, R. G., Puente-Rolón, A. R., Geneva, A. J., Aviles-Rodríguez, K. J. & Hermann, N. C. 2016. Discovery of a remarkable new boa from the Conception Island Bank, Bahamas. - Breviora 549 (1): 1-19 or Reynolds, R.G. and Henderson, R.W., 2018. Boas of the world (superfamily Booidae): a checklist with systematic, taxonomic, and conservation assessments. Bulletin of the Museum of Comparative Zoology, 162(1), pp.1-58.	None: part of Boidae spp.	Add <i>Chilabothrus argentum</i> Reynolds, Puente-Rolón, Geneva, Aviles-Rodríguez & Hermann, 2016	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	
Reptilia: Serpentes: Boidae	<i>Calabaria</i> spp.	II/B	<i>Calabaria reinhardtii</i> (Schlegel 1848)	May need updating of Standard Nomenclature Reference	Pyron, R. A., R. G. Reynolds & F. T. Burbrink.2014. A Taxonomic Revision of Boas (Serpentes: Boidae). Zootaxa, 3846 (2): 249–260. http://dx.doi.org/10.11646/zootaxa.3846.2.5			noted in AC31 WG	To be addressed as part of the revision of Higher Nomenclature for Sauria and Serpentes
Reptilia: Serpentes: Boidae	<i>Sanzinia madagascariensis</i>	I/A	<i>Sanzinia madagascariensis</i>	Species split: subspecies <i>S. m. voluntary</i> elevated to species rank	Reynolds, Niemiller & Revell. 2013 "2014". Toward a Tree-of-Life for the boas and pythons: Multilocus species-level phylogeny with unprecedented taxon sampling. Molecular Phylogenetics and Evolution 71: 201–213.	App. I: add <i>Sanzinia voluntary</i>	Add <i>Sanzinia voluntary</i> Vences & Glaw 2004, remove from synonymy of <i>S. madagascariensis</i>	AC32 new item	

Taxonomic placement	Present situation (after CITES CoP19)			Proposed change in literature Description of change	Citation / potential nomenclature standard reference	Effect on CITES IF adopted		History	Notes
	Name in Appendices	Appendix / EU Annex	Checklist & Species+			Changes to name in Appendices	Changes to CITES Checklist & Species+		
Reptilia: Serpentes: Bolyeriidae	Bolyeriidae	I, II		May need updating of family-level nomenclature	Hoffstetter, R. 1946. Remarques sur la classification des Ophidiens et particulièrement des Boides des Mascareignes (Boyerinae subfam. nov.). Bulletin du Muséum National d'Histoire Naturelle, Serie 2, 18(1): 132-135; Porter, K. R. 1972. Herpetology. W. B. Saunders Co., Philadelphia, 524 pp; Goin, C. J., O. B. Goin & G. R. Zug. Introduction to Herpetology, Third Ed., W. H. Freeman & Co., San Francisco, 378 pp; Seigel, R. A., J. T. Collins & S. S. Novak (eds.). 1987. Snakes, ecology, and evolutionary biology. McGraw-Hill, New York, 529 pp; Pyron, R. A., Burbrink, F. T. & Wiens, J. J. 2013. A phylogeny and revised classification of Squamata, including 4161 species of lizards and snakes. BMC Evolutionary Biology, 13, 93; Pyron, R. A., R. G. Reynolds & F. T. Burbrink. 2014. A Taxonomic Revision of Boas (Serpentes: Boidae). Zootaxa, 846 (2): 249–260; Integrated Taxonomic Information System (online, USGS-Smithsonian Institution, 2020.			noted in AC31 WG	To be addressed as part of the revision of Higher Nomenclature for Sauria and Serpentes; note 'empty' family listing in Appendices
Reptilia: Serpentes: Colubridae	<i>Xenochrophis piscator</i> , <i>X. schnurrenbergeri</i> , <i>X. tytleri</i>	III (India)	<i>Xenochrophis piscator</i> (Schneider 1799), <i>X. schnurrenbergeri</i> Kramer 1977, <i>X. tytleri</i> (Blyth 1863)	Genus split: <i>Xenochrophis</i> split into two genera, with <i>piscator</i> , <i>schnurrenbergeri</i> and <i>tytleri</i> placed in new genus <i>Fowlea</i>	Purkayastha, J., J. Kalita, R. K. Brahma, R. Doley & M. Das. 2018. A review of the relationships of <i>Xenochrophis cerasogaster</i> Cantor, 1839 (Serpentes: Colubridae) to its congeners. Zootaxa, 4514 (1): 126–136	Appendix III: change genus names of <i>piscator</i> , <i>schnurrenbergeri</i> and <i>tytleri</i> from <i>Xenochrophis</i> to <i>Fowlea</i>	Update genus assignment and list <i>Xenochrophis</i> combinations as synonyms (with corrected brackets for <i>piscator</i>)	noted in AC31 WG	Pending input from India
Reptilia: Serpentes: Colubridae	<i>Cyclagras gigas</i>	II	<i>Cyclagras gigas</i> , (Duméril, Bibron & Duméril, 1854)	May need updating of genus-level nomenclature	Grazziotin, F. G., H. Zaher, R. W. Murphy, G. Scrocchi, M. A. Benavides, Y.-P. Zhang & S. L. Bonatto. 2012. Molecular phylogeny of the New World Dipsadidae (Serpentes: Colubroidea): a reappraisal. Cladistics, 1:1-23.	None. Only genus name would change to <i>Hydrodynastes</i> .	Change name to <i>Hydrodynastes gigas</i> , list <i>C. gigas</i> as synonym	noted in AC31 WG	To be addressed as part of the revision of Higher Nomenclature for Sauria and Serpentes
Reptilia: Serpentes: Colubridae	<i>Elachistodon westermanni</i>	II	<i>Elachistodon westermanni</i> , Reinhardt 1863	Genus transfer: placed in <i>Boiga</i>	Mohan, A. V., A. C. Visvanathan & K. Vasudevan. 2018. Phylogeny and conservation status of the Indian egg-eater snake, <i>Elachistodon westermanni</i> Reinhardt, 1863 (Serpentes, Colubridae). Amphibia-Reptilia, 39 (3): 317–324.	App. II: Change name from <i>Elachistodon westermanni</i> to <i>Boiga westermanni</i> .	Change name to <i>Boiga westermanni</i> (Reinhardt 1863), list <i>E. westermanni</i> as synonym	noted in AC31 WG	
Reptilia: Serpentes: Colubridae	Colubridae	II, III		May need updating of family-level nomenclature				noted in AC31 WG	To be addressed as part of the revision of Higher Nomenclature for Sauria and Serpentes
Reptilia: Serpentes: Pythonidae	Pythonidae spp.	II/B	<i>Morelia viridis</i> (Schlegel 1872)	New species: resurrection of synonym to full species, as <i>Morelia azurea</i> (Meyer 1874)	Natusch, Esquerré, Lyons, Hamidy, Lemmon, Moriarty Lemmon, Riyanto, Keogh & Donnellan. 2020. Species delimitation and systematics of the green pythons (<i>Morelia viridis</i> complex) of melanesia and Australia. Molecular Phylogenetics and Evolution 142: 106640. https://doi.org/10.1016/j.ympev.2019.106640	None: part of Pythonidae spp.	Add name, transfer synonyms <i>azurea</i> and <i>pulcher</i> from <i>M. viridis</i>	AC31 Doc.37 Annex 5	

Taxonomic placement	Present situation (after CITES CoP19)			Proposed change in literature Description of change	Citation / potential nomenclature standard reference	Effect on CITES IF adopted		History	Notes
	Name in Appendices	Appendix / EU Annex	Checklist & Species+			Changes to name in Appendices	Changes to CITES Checklist & Species+		
Reptilia: Serpentes: Viperidae	<i>Crotalus durissus</i>	(III) Honduras		Split of <i>Crotalus durissus</i> in a series of cryptic species; The populations present in Honduras are currently referable to the species <i>Crotalus simus</i> .	Carbajal-Márquez, R. A., J. R. Cedeño-Vázquez, A. Martínez-Arce, E. Neri-Castro & S. C. Machkour-M'Rabet. 2020. Accessing cryptic diversity in Neotropical rattlesnakes (Serpentes: Viperidae: Crotalus) with the description of two new species. <i>Zootaxa</i> , 4729 (4): 451–481.	Appendix III: change name to <i>Crotalus simus</i>	Include <i>Crotalus simus</i> as valid species; list <i>Crotalus durissus</i> as a superseded name for the population of Honduras and 'demote' its species entry	noted in AC31 WG	Pending input from Honduras
Reptilia: Serpentes: Viperidae	<i>Daboia russelii</i>	III (India)	<i>Daboia russelii</i>	Split of <i>D. russelii</i> into two species, based on molecular and colour pattern differences: <i>D. russelii</i> restricted to populations of Bangladesh, India, Nepal, Pakistan, and Sri Lanka, <i>D. siamensis</i> represented by populations of Cambodia, China, Indonesia, Myanmar, and Thailand.	Thorpe, R.S., Pook, C.E. & Malhotra, A. (2007). Phylogeography of the Russell's viper (<i>Daboia russelii</i>) complex in relation to variation in the colour patterns and symptoms of envenoming. <i>Herpetological Journal</i> 17: 209-218.	App.III: No editorial changes; Substantive change: Populations of China, Cambodia, Indonesia, Myanmar and Thailand no longer part of Appendix III listing	Remove <i>Daboia siamensis</i> (Smith, 1917) from synonymy of <i>D. russelii</i>	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	NS(F) notes the substantive change that would result from adoption of this. See also document PC26 Doc 42.1/AC32 Doc. 45.1. Pending input from India.
Reptilia: Testudines: Chelidae	<i>Chelus fimbriatus</i> {includes <i>Chelus orinocensis</i> }	II	<i>Chelus fimbriatus</i> "Mertens 1934"[in error]	Spelling correction of species name to " <i>fimbriata</i> ", and author correction to "(Schneider, 1783)"	TTWG (Turtle Taxonomy Working Group). 2021. Checklist - Modern Turtle and Tortoise Taxa Extant since 1500 CE. Pp. 28-341 in <i>Turtles of the World</i> (9th Ed.). CRF & TC. doi:10.3854/crm.8.checklist.atlas.v9.2021, and references therein	App.II: Correct spelling to <i>Chelus fimbriata</i>	Correct spelling to " <i>Chelus fimbriata</i> ", correct authorship to "Schneider, 1783"	new	
Reptilia: Testudines: Chelidae	<i>Chelus fimbriatus</i> {includes <i>Chelus orinocensis</i> }	II	<i>Chelus fimbriatus</i> "Mertens 1934"	Species split: northwestern populations recognised as <i>Chelus orinocensis</i> Vargas-Ramírez, Caballero, Morales-Betancourt, Lasso, Amaya, Martínez, Viana, Vogt, ,Farias, Hrbek, Campbell & Fritz, 2020	TTWG (Turtle Taxonomy Working Group). 2021. Checklist - Modern Turtle and Tortoise Taxa Extant since 1500 CE. Pp. 28-341 in <i>Turtles of the World</i> (9th Ed.). CRF & TC. doi:10.3854/crm.8.checklist.atlas.v9.2021, and references therein	App.II: add <i>Chelus orinocensis</i> as a full separate listing.	Elevate <i>Chelus orinocensis</i> Vargas-Ramírez, Caballero, Morales-Betancourt, Lasso, Amaya, Martínez, Viana, Vogt, ,Farias, Hrbek, Campbell & Fritz, 2020, from synonymy under <i>C. fimbriata</i>	new	Species split already acknowledged at the time of listing, see Proposal CoP19 Prop. 22
Reptilia: Testudines: Chelydridae	<i>Macrochelys temminckii</i>	II	<i>Macrochelys temminckii</i> (Troost, 1835)	Species split: eastern population recognized at species rank, as <i>Macrochelys suwanniensis</i> Thomas, Granatosky, Bourque, Krysko, Moler, Gamble, Suarez, Leone, Enge & Roman, 2014	TTWG (Turtle Taxonomy Working Group). 2021. Checklist - Modern Turtle and Tortoise Taxa Extant since 1500 CE. Pp. 28-341 in <i>Turtles of the World</i> (9th Ed.). CRF & TC. doi:10.3854/crm.8.checklist.atlas.v9.2021, and references therein	App.II: add <i>Macrochelys suwanniensis</i>	Add <i>Macrochelys suwanniensis</i> Thomas, Granatosky, Bourque, Krysko, Moler, Gamble, Suarez, Leone, Enge & Roman, 2014	new	
Reptilia: Testudines: Emydidae	<i>Graptemys</i> spp.	III (USA)	<i>Graptemys ouachitensis sabinensis</i> Cagle 1953	New species: elevation of <i>G. o. sabinensis</i> to full species rank	Lindeman 2013, TTWG 2021; but see Praschag et al 2017 <i>Zoologica Scripta</i> , 2017: 1–8, DOI: 10.1111/zsc.12249; TTWG (Turtle Taxonomy Working Group). 2021. Checklist - Modern Turtle and Tortoise Taxa Extant since 1500 CE. Pp. 28-341 in <i>Turtles of the World</i> (9th Ed.). CRF & TC. doi:10.3854/crm.8.checklist.atlas.v9.2021.	App.III: None: part of <i>Graptemys</i> spp.	Add <i>Graptemys sabinensis</i> Cagle 1953	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	NS(F) aware of the diverging morphological and molecular patterns in <i>Graptemys</i> , and resulting different taxonomic interpretations. As an Appendix III species, pending input from USA.

Taxonomic placement	Present situation (after CITES CoP19)			Proposed change in literature		Effect on CITES IF adopted		History	Notes
	Name in Appendices	Appendix / EU Annex	Checklist & Species+	Description of change	Citation / potential nomenclature standard reference	Changes to name in Appendices	Changes to CITES Checklist & Species+		
Reptilia: Testudines: Emyidae	<i>Terrapene</i> spp. *	II	<i>Terrapene carolina</i> (Linnaeus 1758)	Species split: subspecies <i>mexicana</i> , <i>triunguis</i> and <i>yucatanana</i> elevated to species rank	TTWG (Turtle Taxonomy Working Group). 2021. Checklist - Modern Turtle and Tortoise Taxa Extant since 1500 CE. Pp. 28-341 in Turtles of the World (9th Ed.). CRF & TC. doi:10.3854/crm.8.checklist.atlas.v9.2021, and references therein	App.II: None: Part of <i>Terrapene</i> spp. *	Add <i>Terrapene mexicana</i> (Gray1849), <i>Terrapene triunguis</i> (Agassiz 1857) and <i>Terrapene yucatanana</i> (Boulenger 1895); remove these as subspecies from synonymy of <i>Terrapene carolina</i>	new	
Reptilia: Testudines: Geoemydidae	<i>Cuora</i> spp.	II*	<i>Cuora trifasciata</i> (Bell 1825)	Split of <i>Cuora trifasciata</i> into <i>C. trifasciata</i> (China) and <i>C. cyclomata</i> (Viet Nam) based on molecular and colouration characteristics	Tiedemann, R, Schneider, A.R.R., Havenstein, K., Blanck, T., Meier, E., Raffel, M., Zwartepoorte, H., & Plath, M. (2014). New microsatellite markers allow high-resolution taxon delimitation in critically endangered Asian box turtles, genus <i>Cuora</i> . Salamandra 50(3):139-146. Also TTWG 2021 (doi:10.3854/crm.8.checklist.atlas.v9.2021)	App.II: add <i>C. cyclomata</i> to the list of <i>Cuora</i> spp. subject to zero quota for wild specimens for commercial purposes	Move <i>C. cyclomata</i> (and its subspecies) from synonym under <i>C. trifasciata</i> to valid species status	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5	
Reptilia: Testudines: Geoemydidae	<i>Mauremys iversoni</i> , <i>M. megaloccephala</i> , <i>M. pritchardi</i> , <i>Ocadia glyphistoma</i> , <i>O. philippeni</i> , <i>Sacalia pseudocellata</i>	III (China)	<i>Mauremys iversoni</i> , <i>M. megaloccephala</i> , <i>M. pritchardi</i> , <i>Ocadia glyphistoma</i> , <i>O. philippeni</i> , <i>Sacalia pseudocellata</i>	Considered hybrids of no taxonomic standing	TTWG (Turtle Taxonomy Working Group). 2021. Checklist - Modern Turtle and Tortoise Taxa Extant since 1500 CE. Pp. 28-341 in Turtles of the World (9th Ed.). CRF & TC. doi:10.3854/crm.8.checklist.atlas.v9.2021, and references therein	[Appendix III: subject to China's willingness to amend, could be deleted]	pending Party action		Appendix III listings, pending input from China
Reptilia: Testudines: Kinostemidae	<i>Stemotherus</i> spp.	II/B	<i>Stemotherus minor</i> (Agassiz, 1857)	Species split: subspecies <i>peltifer</i> elevated to species rank, and 'intergrade' population described as new species <i>S. intermedius</i>	TTWG (Turtle Taxonomy Working Group). 2021. Checklist - Modern Turtle and Tortoise Taxa Extant since 1500 CE. Pp. 28-341 in Turtles of the World (9th Ed.). CRF & TC. doi:10.3854/crm.8.checklist.atlas.v9.2021, and references therein	App.II: None: Part of <i>Stemotherus</i> spp.	Add <i>Stemotherus intermedius</i> Scott, Glenn & Rissler 2018 and <i>Stemotherus peltifer</i> Smith & Glass 1947; remove subspecies from synonymy of <i>S. minor</i>	new	Species split already acknowledged at the time of listing, see Proposal CoP19 Prop. 22
Reptilia: Testudines: Testudinidae	Testudinidae spp *	II/B	<i>Gopherus morafkai</i> Murphy, Berry, Edwards, Leviton, Lathrop & Riedle, 2011	Species split: southern thomscrub population split off as a separate species, <i>Gopherus evgoodei</i> Edwards, Karl, Vaughn, Rosen, Meléndez Torres & Murphy, 2016	TTWG (Turtle Taxonomy Working Group). 2021. Checklist - Modern Turtle and Tortoise Taxa Extant since 1500 CE. Pp. 28-341 in Turtles of the World (9th Ed.). CRF & TC. doi:10.3854/crm.8.checklist.atlas.v9.2021, and references therein	App.II: None: part of Testudinidae spp. *	Add <i>Gopherus evgoodei</i> Edwards, Karl, Vaughn, Rosen, Meléndez Torres & Murphy, 2016	new	
Reptilia: Testudines: Trionychidae	<i>Amyda cartilaginea</i>	II/B	<i>Amyda cartilaginea</i> (Boddaert, 1770)	Species split: northern populations elevated to species rank, using formerly synonymised name <i>Amyda omata</i> (Gray, 1861)	TTWG (Turtle Taxonomy Working Group). 2021. Checklist - Modern Turtle and Tortoise Taxa Extant since 1500 CE. Pp. 28-341 in Turtles of the World (9th Ed.). CRF & TC. doi:10.3854/crm.8.checklist.atlas.v9.2021, and references therein	App.II: Add <i>Amyda omata</i>	Add <i>Amyda omata</i> (Gray, 1861), remove from synonymy of <i>A. cartilaginea</i>	new	
Reptilia: Testudines: Trionychidae	<i>Pelodiscus axenaria</i>	II/B	<i>Pelodiscus axenaria</i> (Zhou, Zhang & Fang, 1991)	Species split: eastern population recognised as separate species <i>Pelodiscus huangshanensis</i> Gong, Peng, Huang & Nie, 2021	TTWG (Turtle Taxonomy Working Group). 2021. Checklist - Modern Turtle and Tortoise Taxa Extant since 1500 CE. Pp. 28-341 in Turtles of the World (9th Ed.). CRF & TC. doi:10.3854/crm.8.checklist.atlas.v9.2021, and references therein	App.II: add <i>Pelodiscus huangshanensis</i>	Add <i>Pelodiscus huangshanensis</i> Gong, Peng, Huang & Nie, 2021	new	

Taxonomic placement	Present situation (after CITES CoP19)			Proposed change in literature		Effect on CITES IF adopted		History	Notes
	Name in Appendices	Appendix / EU Annex	Checklist & Species+	Description of change	Citation / potential nomenclature standard reference	Changes to name in Appendices	Changes to CITES Checklist & Species+		
Reptilia: Testudines: Trionychidae	<i>Pelodiscus parviformis</i>	II/B	<i>Pelodiscus parviformis</i> Tang 1997	Species split: southern populations recognised as separate species <i>Pelodiscus variegatus</i> Farkas, Ziegler, Pham, Ong & Fritz, 2019	TTWG (Turtle Taxonomy Working Group). 2021. Checklist - Modern Turtle and Tortoise Taxa Extant since 1500 CE. Pp. 28-341 in <i>Turtles of the World</i> (9th Ed.). CRF & TC. doi:10.3854/crm.8.checklist.atlas.v9.2021, and references therein	App.II: add <i>Pelodiscus variegatus</i>	Add <i>Pelodiscus variegatus</i> Farkas, Ziegler, Pham, Ong & Fritz, 2019	new	
Amphibia: Anura: Hylidae	<i>Agalychnis</i> spp.	II/B	<i>Agalychnis callidryas</i> (Cope 1862)	Species split: <i>Agalychnis taylori</i> Funkhouser, 1957 elevated to species rank (was a subspecies of <i>A. callidryas</i>)	McCranie, J. R., J. Sunyer, and J. G. Martínez-Fonseca. 2019. Comments and updates to "Guía Ilustrada de Anfibios y Reptiles de Nicaragua" along with taxonomic and related suggestions associated with the herpetofauna of Nicaragua. <i>Revista Nicaraguense de Biodiversidad</i> 52: 1–44.	Add <i>A. taylori</i> to the species listed in brackets after ' <i>Agalychnis</i> spp.'	Add <i>Agalychnis taylori</i> Funkhouser, 1957	AC32 Annex	
Elasmobranchii: Carcharhiniformes: Carcharhinidae	Carcharhinidae spp.	II/B	not included	Species split: <i>Carcharhinus acarenatus</i> Moreno & Hoyos 1983 elevated from synonymy of <i>Carcharhinus brachyurus</i>	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, W.N., R. Fricke, and R. van der Laan (eds.) 2024. <i>ESCHMEYER'S CATALOG OF FISHES: GENERA, SPECIES, REFERENCES</i> . (http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp). Electronic version accessed 27 March 2024	App.II: None: part of Carcharhinidae spp.	Add <i>Carcharhinus acarenatus</i> Moreno & Hoyos 1983 as a valid species	new	
Elasmobranchii: Carcharhiniformes: Carcharhinidae	Carcharhinidae spp.	II/B	not included	Species split: <i>Carcharhinus japonicus</i> Temminck & Schlegel 1850 elevated from synonymy of <i>Carcharhinus plumbeus</i> (Nardo 1827).	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	App.II: None: part of Carcharhinidae spp.	Add <i>Carcharhinus japonicus</i> Temminck & Schlegel 1850 as a valid species	new	
Elasmobranchii: Carcharhiniformes: Carcharhinidae	Carcharhinidae spp.	II/B	<i>Isogomphodon oxyrinchus</i> (Valenciennes, 1839)	Genus synonymisation: <i>Isogomphodon</i> becomes a synonym of <i>Carcharhinus</i> by placing its single species <i>oxyrinchus</i> in <i>Carcharhinus</i> .	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	App.II: None: part of Carcharhinidae spp.	Transfer <i>oxyrinchus</i> to genus <i>Carcharias</i> , list <i>Isogomphodon oxyrinchus</i> as synonym	new	
Elasmobranchii: Carcharhiniformes: Carcharhinidae	Carcharhinidae spp.	II/B	<i>Negaprion brevirostris</i> (Poey 1868)	Species split: <i>Negaprion fronto</i> (Jordan & Gilbert 1882) elevated from synonymy of <i>Negaprion brevirostris</i> (Poey 1868)	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	App.II: None: part of Carcharhinidae spp.	Add <i>Negaprion fronto</i> (Jordan & Gilbert 1882) as valid species	new	
Elasmobranchii: Carcharhiniformes: Sphymidae	Sphymidae spp.	II/B	<i>Eusphya blochii</i> (Cuvier 1816).	Species split: <i>Eusphya laticeps</i> (Cantor 1837) elevated from synonymy of <i>Eusphya blochii</i> (Cuvier 1816)	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	App.II: None: part of Sphymidae spp.	Add <i>Eusphya laticeps</i> (Cantor 1837) as a valid species	new	
Elasmobranchii: Carcharhiniformes: Sphymidae	Sphymidae spp.	II/B	<i>Sphyma tiburo</i> (Linnaeus 1758)	Species split: <i>Sphyma vespertina</i> Springer 1940 elevated from synonymy of <i>Sphyma tiburo</i> (Linnaeus 1758)	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	App.II: None: part of Sphymidae spp.	Add <i>Sphyma vespertina</i> Springer 1940 as a valid species	new	
Elasmobranchii: Myliobatiformes: Myliobatidae	[<i>Mobula</i> spp.]	II/B	Elasmobranchii: Myliobatiformes: Myliobatidae	Family split: Family Mobulidae split out as a separate family from family Myliobatidae	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	Taxonomic hierarchy: Replace grey name 'Myliobatidae' with 'Mobulidae'	Replace family assignment for <i>Mobula</i> spp.	new	

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	Name in Appendices	Appendix / EU Annex	Checklist & Species+	Description of change	Citation / potential nomenclature standard reference	Changes to name in Appendices	Changes to CITES Checklist & Species+		
Elasmobranchii: Myliobatiformes: Myliobatidae	<i>Mobula</i> spp.	II	<i>Mobula eregoodootenkee</i> Bleeker 1859 [sic]	Species name <i>Mobula eregoodootenkee</i> (Bleeker 1859) has been superseded by the name <i>Mobula eregoodoo</i> (Cantor 1849).	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	App.II: None: part of <i>Mobula</i> spp.	Add <i>Mobula eregoodoo</i> (Cantor 1849) as valid species, list <i>Mobula eregoodootenkee</i> as synonym	CoP18 Doc99 Annex 6; AC31 Doc.37 Annex 5; AC32 Doc. 46 Annex 1	
Elasmobranchii: Myliobatiformes: Myliobatidae	<i>Mobula</i> spp.	II	<i>Mobula japonica</i> Müller & Henle 1841 [sic]	Species merge: <i>Mobula japonica</i> (Müller & Henle 1841) was synonymised under <i>Mobula mobular</i> (Bonnaterre 1788)	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	App.II: None: part of <i>Mobula</i> spp.	list <i>Mobula japonica</i> (Müller & Henle 1841) as a synonym under <i>Mobula mobular</i> (Bonnaterre 1788). Note author brackets for this and other <i>Mobula</i> spp.	new	
Elasmobranchii: Myliobatiformes: Potamotrygonidae		unclear		New species: <i>Paratrygon orinocensis</i> Loboda, Lasso, Rosa & Carvalho 2021, and <i>Paratrygon parvaspina</i> Loboda, Lasso, Rosa & Carvalho 2021	Loboda, T. S., C. A. Lasso, R. S. Rosa & M. R. de Carvalho. 2021. Two new species of freshwater stingrays of the genus <i>Paratrygon</i> (Chondrichthyes: Potamotrygonidae) from the Orinoco basin, with comments on the taxonomy of <i>Paratrygon aiereba</i> . Neotropical Ichthyology v. 19 (no. 2): 1-80.	Colombia to evaluate whether part of their Appendix III listing of <i>Paratrygon aiereba</i>		new	
Elasmobranchii: Myliobatiformes: Potamotrygonidae		unclear		New species: <i>Potamotrygon adamastor</i> Fontenelle & Carvalho 2017, <i>Potamotrygon amazona</i> Fontenelle & Carvalho 2017, and <i>Potamotrygon gamani</i> Fontenelle & Carvalho 2017	Fontenelle, J. P. & M. R. de Carvalho. 2017. Systematic revision of the <i>Potamotrygon scobina</i> Garman, 1913 species-complex (Chondrichthyes: Myliobatiformes: Potamotrygonidae), with the description of three new freshwater stingray species from Brazil and comments on their distribution and biogeography. Zootaxa 4310 (no. 1): 1-63.	Brazil to evaluate whether part of their Appendix III listing of <i>Potamotrygon</i> spp.		new	
Elasmobranchii: Pristiformes: Pristidae	[Pristidae spp.]	I/A	Elasmobranchii: Pristiformes: Pristidae	Family Pristidae transferred into Order Rhinopristiformes (thus abandoning Order Pristiformes)	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	Taxonomic hierarchy: Delete grey name 'Pristiformes' and place [family] Pristidae under [order] Rhinopristiformes	Replace order assignment for <i>Pristis</i> spp.	new	
Elasmobranchii: Pristiformes: Pristidae	Pristidae spp.	I/A	<i>Pristis microdon</i> Latham 1794	Species merge: <i>Pristis microdon</i> Latham 1794 has been synonymised under <i>Pristis pristis</i> (Linnaeus 1758).	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	App.I: None: Part of Pristidae spp.	List <i>Pristis microdon</i> Latham 1794 as a synonym under <i>Pristis pristis</i> (Linnaeus 1758).	new	
Elasmobranchii: Rhinopristiformes: Glaucostegidae	<i>Glaucostegus</i> spp.	II/B	<i>Glaucostegus petiti</i> (Chabanaud 1929)	Species merge: <i>Glaucostegus petiti</i> (Chabanaud 1929) was synonymised under <i>Glaucostegus cemiculus</i> (Geoffroy St. Hilaire 1817)	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	App.II: None: part of <i>Glaucostegus</i> spp.	List <i>Glaucostegus petiti</i> (Chabanaud 1929) as synonym under <i>Glaucostegus cemiculus</i> (Geoffroy St. Hilaire 1817)	new	
Elasmobranchii: Rhinopristiformes: Glaucostegidae	<i>Glaucostegus</i> spp.	II/B	not included	New species: <i>Glaucostegus younholeei</i> Habib & Islam 2021	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	App.II: None: part of <i>Glaucostegus</i> spp.	Add <i>Glaucostegus younholeei</i> Habib & Islam 2021	new	

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Elasmobranchii: Rhinopristiformes: Rhinidae	Rhinidae spp.	II/B	not included	New species: <i>Rhynchobatus mononoke</i> Koeda, Itou, Yamada & Motomura 2020	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	App.II: None: part of Rhinidae spp.	Add <i>Rhynchobatus mononoke</i> Koeda, Itou, Yamada & Motomura 2020	new	
Actinopteri	Perciformes: Pomacanthidae, and Sciaenidae	n/a	Perciformes: Pomacanthidae, and Sciaenidae	Order split: Order Acanthuriformes recognised, with families Pomacanthidae and Sciaenidae (and several others) transferred from Perciformes. Labridae remains in Perciformes	Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	Taxonomic hierarchy: Create new order Acanthuriformes and place Pomacanthidae and Sciaenidae under it	Adjust taxonomic hierarchy as appropriate	new	
Actinopteri: Cypriniformes: Cyprinidae	<i>Probarbus jullieni</i>	I/A	<i>Probarbus jullieni</i> Sauvage, 1880	Possible species split: <i>Probarbus labeamajor</i> Roberts 1992 and <i>Probarbus labeamajor</i> Roberts 1992 described, but unclear if these are split-outs from <i>Probarbus jullieni</i> , or new discoveries	Roberts, T. R. 1992. Revision of the southeast Asian cyprinid fish genus <i>Probarbus</i> , with two new species threatened by proposed construction of dams on the Mekong River. Ichthyological Exploration of Freshwaters v. 3 (no. 1): 37-48. Noted in Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	Unclear	to be determined	new	
Actinopteri: Osteoglossiformes: Arapaimidae	<i>Arapaima gigas</i>	II/B	<i>Arapaima gigas</i> (Cuvier, 1829)	Possible species split: Stewart 2013 described one new species of <i>Arapaima</i> (<i>A. leptosoma</i>) and resurrected three former synonyms (<i>agassizii</i> , <i>arapaima</i> , <i>mapae</i>) from <i>A. gigas</i> .	Stewart, D. J. 2013. A new species of <i>Arapaima</i> (Osteoglossomorpha: Osteoglossidae) from the Solimões River, Amazonas State, Brazil. Copeia 2013 (no. 3): 470-476. Noted in Taxonomic Checklist of selected Fish taxa relevant for CITES following CoP19, extracted from Eschmeyer, Fricke & van der Laan (eds.) 2024	App.II: Add <i>Arapaima agassizii</i> , <i>Arapaima arapaima</i> , <i>Arapaima leptosoma</i> , and <i>Arapaima mapae</i>	Add <i>Arapaima agassizii</i> (Valenciennes, 1847), <i>Arapaima arapaima</i> (Valenciennes, 1847), <i>Arapaima leptosoma</i> Stewart, 2013, and <i>Arapaima mapae</i> (Valenciennes, 1847) as valid species		Parties have previously rejected acceptance of this taxonomy and retained <i>agassizii</i> , <i>arapaima</i> , and <i>mapae</i> in synonymy of <i>gigas</i> ; <i>leptosoma</i> is a split-out and would be covered under the original listing of <i>A. gigas</i> , but has not been listed as a synonym in SpeciesPlus
Actinopteri: Syngnathiformes: Syngnathidae	<i>Hippocampus</i> spp.	II/B	<i>Hippocampus histrix</i> Kaup 1856	Species split: <i>Hippocampus curvicaudus</i> Fricke, 2004 recognized as valid species, not a synonym of <i>Hippocampus histrix</i>	Froese, R. and D. Pauly. Editors. (2023). FishBase. <i>Hippocampus curvicaudus</i> Fricke, 2004. Accessed through: World Register of Marine Species at: https://www.marinespecies.org/aphia.php?p=taxdet&ails&id=388711 on 2023-05-24	None: part of <i>Hippocampus</i> spp.	Add <i>Hippocampus curvicaudus</i> Fricke, 2004, remove from synonymy of <i>H. histrix</i>		
Actinopteri: Syngnathiformes: Syngnathidae	<i>Hippocampus</i> spp.	II/B	<i>Hippocampus kelloggi</i> Jordan & Snyder, 1901	Species split: <i>Hippocampus suezensis</i> Duncker, 1940 recognized as valid species, not a synonym of <i>Hippocampus kelloggi</i> Jordan & Snyder, 1901	Froese, R. and D. Pauly. Editors. (2023). FishBase. <i>Hippocampus suezensis</i> Duncker, 1940. Accessed through: World Register of Marine Species at: https://www.marinespecies.org/aphia.php?p=taxdet&ails&id=306822 on 2023-05-24	None: part of <i>Hippocampus</i> spp.	Add <i>Hippocampus suezensis</i> Duncker, 1940, remove from synonymy of <i>H. kelloggi</i>		
Actinopteri: Syngnathiformes: Syngnathidae	<i>Hippocampus</i> spp.	II/B	<i>Hippocampus kuda</i> Bleeker, 1852	Species split: <i>Hippocampus borboniensis</i> Duméril 1870 recognized as valid species, not a synonym of <i>Hippocampus kuda</i> Bleeker, 1852	Froese, R. and D. Pauly. Editors. (2023). FishBase. <i>Hippocampus borboniensis</i> Duméril, 1870. Accessed through: World Register of Marine Species at: https://www.marinespecies.org/aphia.php?p=taxdet&ails&id=212238 on 2023-05-24	None: part of <i>Hippocampus</i> spp.	Add <i>Hippocampus borboniensis</i> Duméril 1870, remove from synonymy of <i>H. kuda</i>		
Actinopteri: Syngnathiformes: Syngnathidae	<i>Hippocampus</i> spp.	II/B	<i>Hippocampus kuda</i> Bleeker, 1852	Species split: <i>Hippocampus fuscus</i> Rüppell, 1838 recognized as valid species, not a synonym of <i>Hippocampus kuda</i> Bleeker, 1852	Froese, R. and D. Pauly. Editors. (2023). FishBase. <i>Hippocampus fuscus</i> Rüppell, 1838. Accessed through: World Register of Marine Species at: https://www.marinespecies.org/aphia.php?p=taxdet&ails&id=212230 on 2023-05-24	None: part of <i>Hippocampus</i> spp.	Add <i>Hippocampus fuscus</i> Rüppell, 1838, remove from synonymy of <i>H. kuda</i>		

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	Name in Appendices	Appendix / EU Annex	Checklist & Species+			Changes to name in Appendices	Changes to CITES Checklist & Species+		
Actinopteri: Syngnathiformes: Syngnathidae	<i>Hippocampus</i> spp.	II/B	<i>Hippocampus kuda</i> Bleeker, 1852	Nomenclatural correction: <i>Hippocampus kuda multiannularis</i> Bleeker, 1852: correct taxon author is Raj, 1941, not Bleeker 1852	Froese, R. and D. Pauly. Editors. (2023). FishBase. <i>Hippocampus kuda multiannularis</i> Raj, 1941. Accessed through: World Register of Marine Species at: https://www.marinespecies.org/aphia.php?p=taxdet&ids&id=323205 on 2023-05-24	None	Correct authorship in 'Names' tab		
Actinopteri: Syngnathiformes: Syngnathidae	<i>Hippocampus</i> spp.	II/B	<i>Hippocampus kuda</i> Bleeker, 1852	Species split: <i>Hippocampus taeniopterus</i> Bleeker, 1852 - now recognized as valid species, not a synonym of <i>Hippocampus kuda</i> Bleeker, 1852. However, not accepted by the WoRMS editors	Froese, R. and D. Pauly. Editors. (2023). FishBase. <i>Hippocampus taeniopterus</i> Bleeker, 1852. Accessed through: World Register of Marine Species at: https://www.marinespecies.org/aphia.php?p=taxdet&ids&id=306824 on 2023-05-24	None: part of <i>Hippocampus</i> spp.	Add <i>Hippocampus taeniopterus</i> Bleeker, 1852, remove from synonymy of <i>H. kuda</i>		Disagreement between FishBase and WoRMS about validity of taxon
Actinopteri: Syngnathiformes: Syngnathidae	<i>Hippocampus</i> spp.	II/B	<i>Hippocampus satomiae</i> Lourie & Kuitert, 2008	Species split: <i>Hippocampus waleananus</i> Gomon & Kuitert, 2009 recognized as valid species, not a synonym of <i>Hippocampus satomiae</i> Lourie & Kuitert, 2008	Froese, R. and D. Pauly. Editors. (2023). FishBase. <i>Hippocampus waleananus</i> Gomon & Kuitert, 2009. Accessed through: World Register of Marine Species at: https://www.marinespecies.org/aphia.php?p=taxdet&ids&id=398436 on 2023-05-24	None: part of <i>Hippocampus</i> spp.	Add <i>Hippocampus waleananus</i> Gomon & Kuitert, 2009, remove from synonymy of <i>H. satomiae</i>		
Actinopteri: Syngnathiformes: Syngnathidae	<i>Hippocampus</i> spp.	II/B	N/A	New species: <i>Hippocampus nalu</i> Short, Claassens, Smith, De Brauwer, Hamilton, Stat, & Harasti 2020	Short G, Claassens L, Smith R, De Brauwer M, Hamilton H, Stat M, Harasti D. 2020. <i>Hippocampus nalu</i> , a new species of pygmy seahorse from South Africa, and the first record of a pygmy seahorse from the Indian Ocean (Teleostei, Syngnathidae). ZooKeys 934: 141-156. Doi: 10.3897/zookeys.934.50924	None: part of <i>Hippocampus</i> spp.	Add <i>Hippocampus nalu</i> Short, Claassens, Smith, De Brauwer, Hamilton, Stat, & Harasti 2020		
Cnidaria: Anthozoa: Scleractinia: Faviidae	SCLERACTINIA spp	II	<i>Montastrea</i> spp. (12 species)	Spelling correction to <i>Montastraea</i>	WoRMS https://www.marinespecies.org/aphia.php?p=taxdet&ids&id=204717#notes	None: part of SCLERACTINIA spp.	Correct spelling of genus name.		WoRMS uses an updated taxonomy that leaves only <i>Montastraea cavernosa</i> in the genus, and disperses all other species to different genera. For CITES purposes these species may be retained in <i>Montastraea</i> until a comprehensive update to coral taxonomy is adopted.