Bibliography database of living/fossil sharks, rays and chimaeras (Chondrichthyes: Elasmobranchii, Holocephali)

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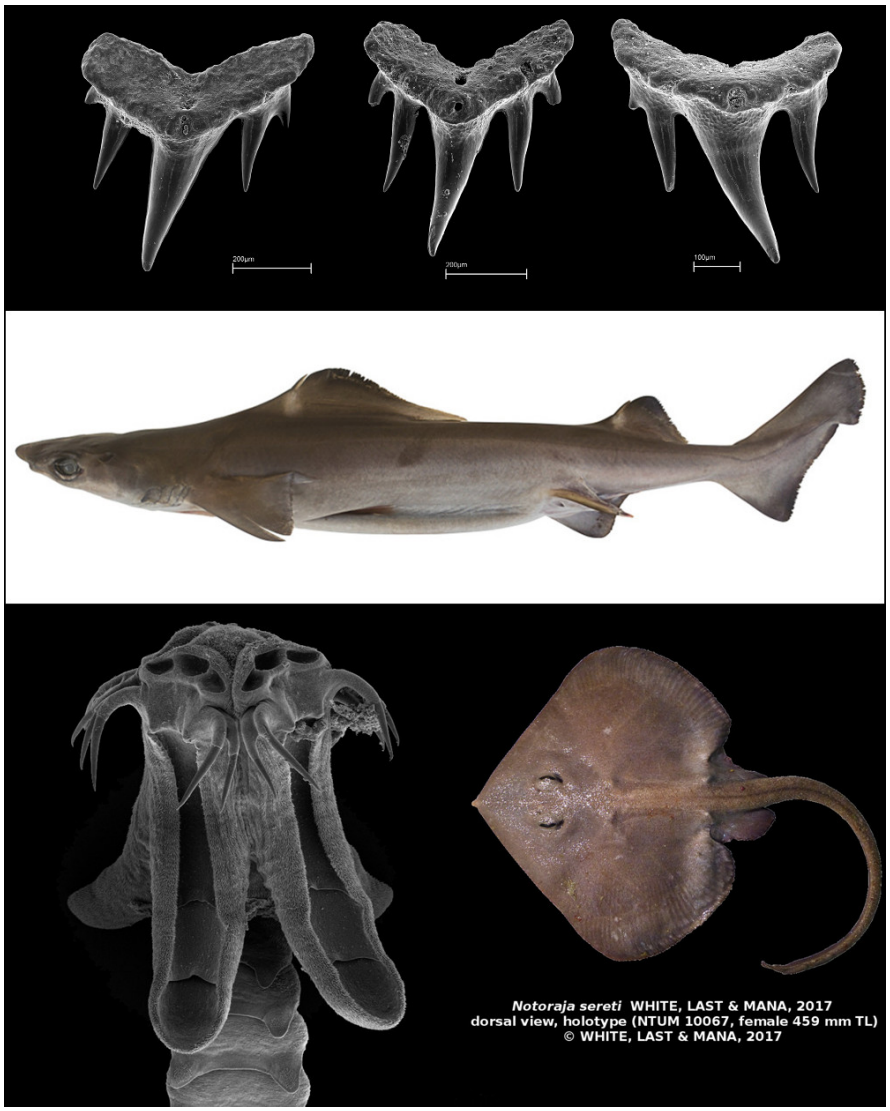

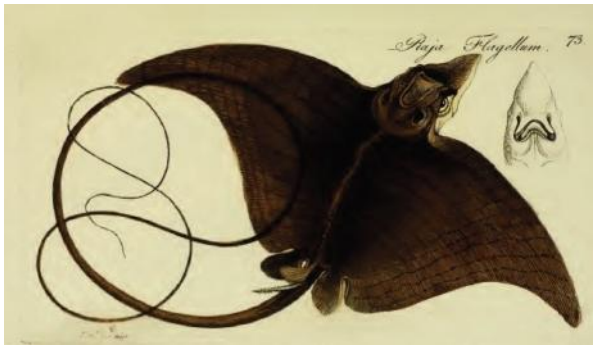

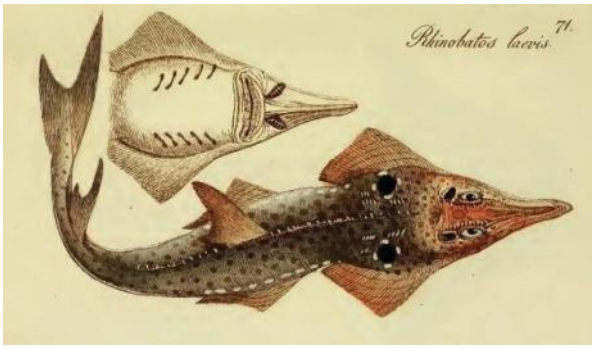

Abstract: This paper contains a collection of 817 citations (no conference abstracts) on topics related to extant and extinct Chondrichthyes (sharks, rays, and chimaeras) as well as a list of Chondrichthyan species and hosted parasites newly described in 2017. The list is the result of regular queries in numerous journals, books and online publications. It provides a complete list of publication citations as well as a database report containing rearranged subsets of the list sorted by the keyword statistics, extant and extinct genera and species descriptions from the years 2000 to 2017, list of descriptions of extinct and extant species from 2017, parasitology, reproduction, distribution, diet, conservation, and taxonomy. The paper is intended to be consulted for information. In addition, we provide data information on the geographic and depth distribution of newly described species, i.e. the type specimens from the years 1990 to 2017 in a hot spot analysis. New in this year's POTY is the subheader "biodiversity" comprising a complete list of all valid chimaeriform, selachian and batoid species, as well as a list of the top 20 most researched chondrichthyan species.

Please note that the content of this paper has been compiled to the best of our abilities based on current knowledge and practice, however, possible errors cannot entirely be excluded.

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3. Database Reports

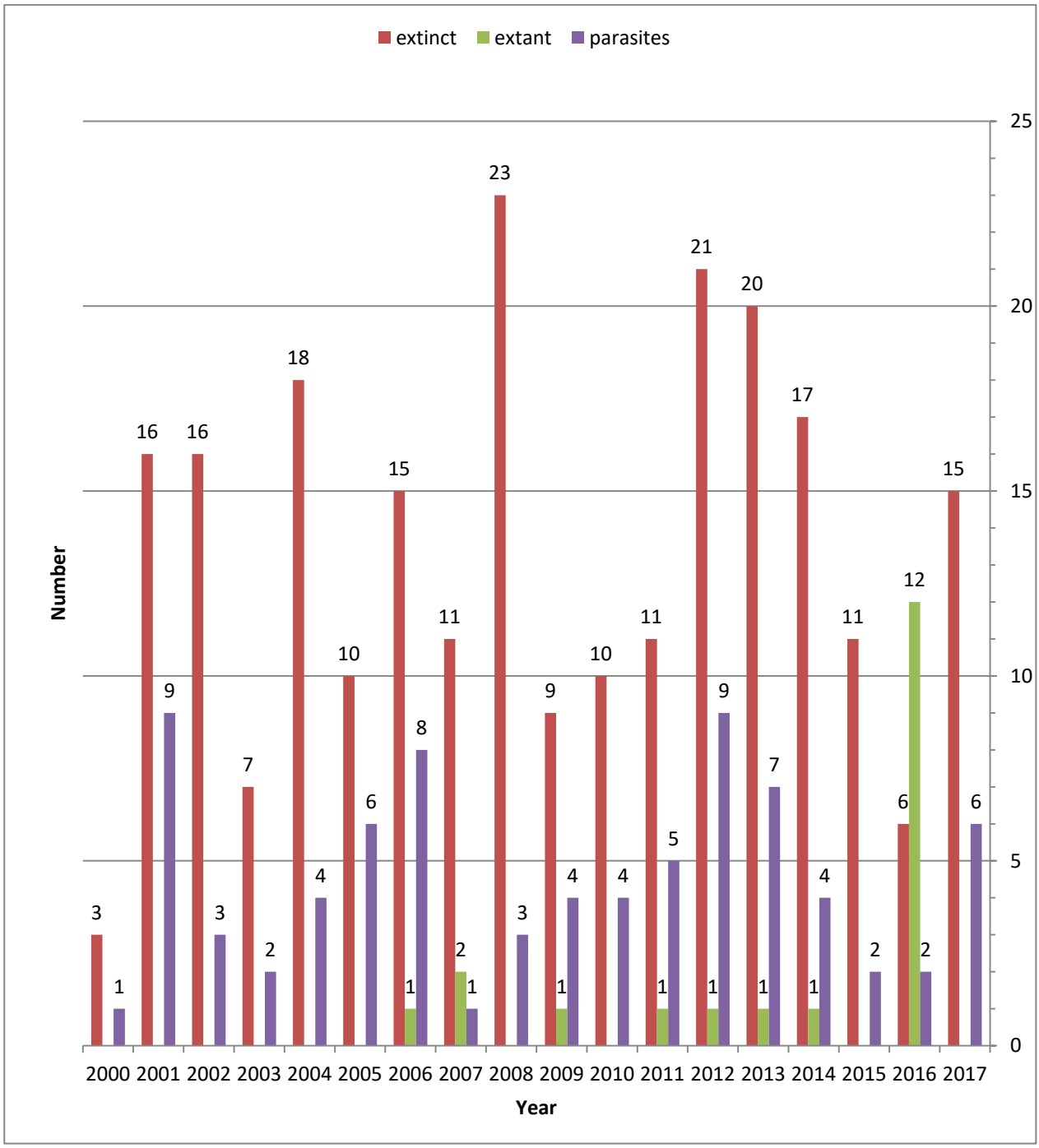
3.1 Statistics

3.1.1 Newly described genera 2000 – 2017

Table 1: Describes extinct, extant and parasite genera in the years 2000 to 2017.

year	extinct	extant	parasites
2000	3		1
2001	16		9
2002	16		3
2003	7		2
2004	18		4
2005	10		6
2006	15	1	8
2007	11	2	1
2008	23		3
2009	9	1	4
2010	10		4
2011	11	1	5
2012	21	1	9
2013	20	1	7
2014	17	1	4
2015	11		2
2016	6	12	2
2017	15		6

Figure 1: Barchart showing comparisons of genus descriptions in the three categories extinct, extant, and parasites. Extinct genus descriptions clearly dominate the descriptions record.

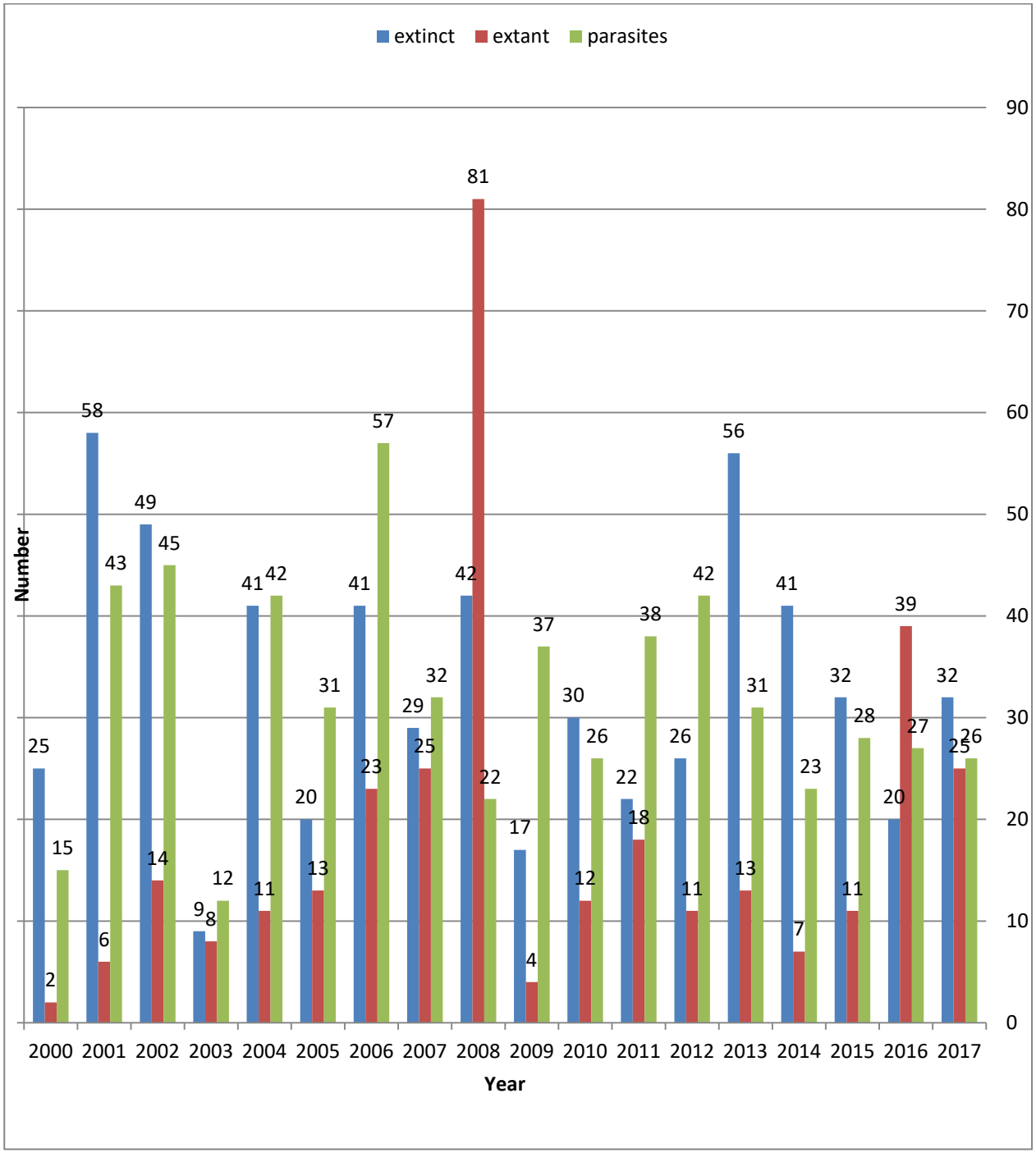


3.1.2 Newly described species 2000 – 2017

Table 2: Describes extinct, extant and parasite species in the years 2000 to 2017.

year	extinct	extant	parasites
2000	25	2	15
2001	58	6	43
2002	49	14	45
2003	9	8	12
2004	41	11	42
2005	20	13	31
2006	41	23	57
2007	29	25	32
2008	42	81	22
2009	17	4	37
2010	30	12	26
2011	22	18	38
2012	26	11	42
2013	56	13	31
2014	41	7	23
2015	32	11	28
2016	20	39	27
2017	32	25	26

Figure 2: Barchart showing comparisons of species descriptions in the three categories extinct, extant, and parasites. Extinct and parasite species descriptions dominate the descriptions record with the exception of the year 2008 and 2016.



3.1.3 Hot spots (types)

3.1.3.1 Hot spots (types): Summary

Table 3: Summary of collection and specimen numbers of type specimens of Chondrichthyes recorded and described in the years 1990 to 2017.

Year	Number		Without coordinates		Without FAO area	
	# Zoological collection entries	# specimen	# Zoological collection entries	# specimen	# Zoological collection entries	# specimen
1990-1999	409	515	56	59	2	2
2000-2009	1736	1981	119	130	21	29
2010-2017	1002	1081	305	242	6	6
Total:	**3147**	**3577**	**480**	**431**	**29**	**37**

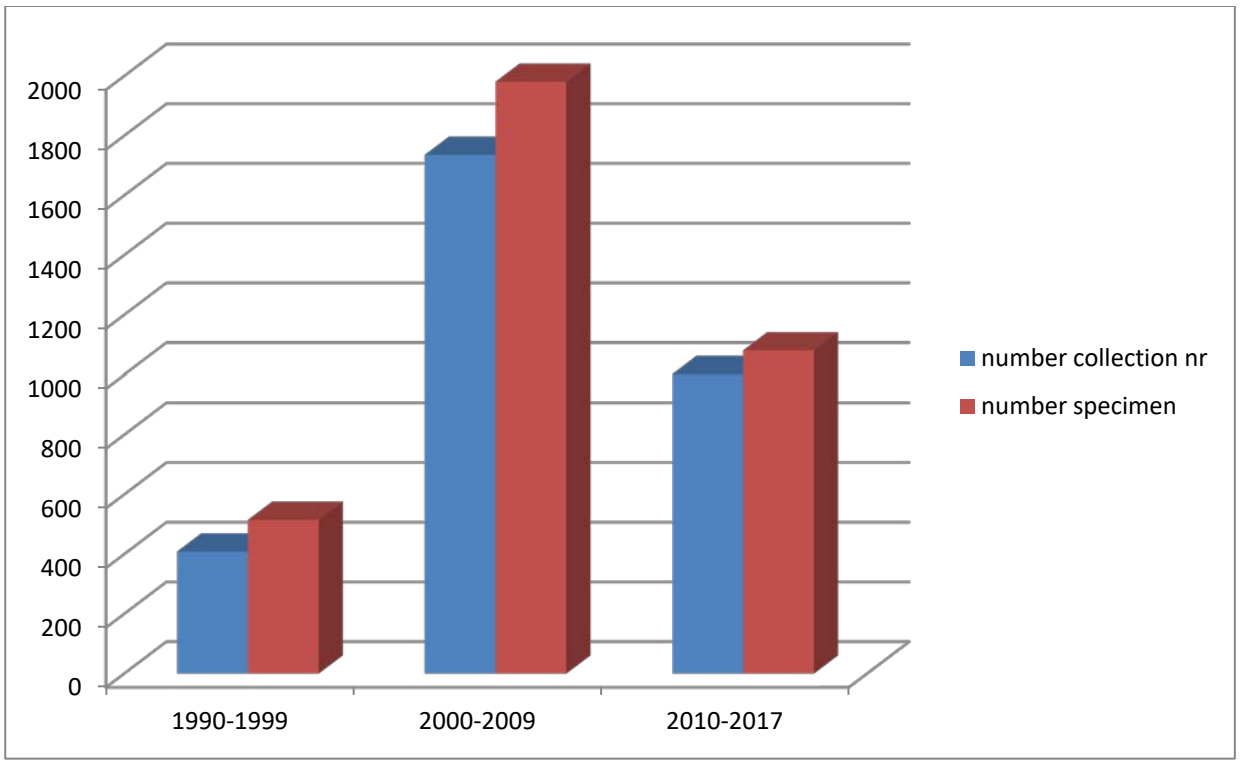


Figure 3: Barchart comparisons of zoological collection and specimen numbers from the years 1990 to 2017 from newly described extant species. Number of species descriptions peak in the years 2000-2009.

3.1.3.2 Hot spots (types): FAO areas - Map -

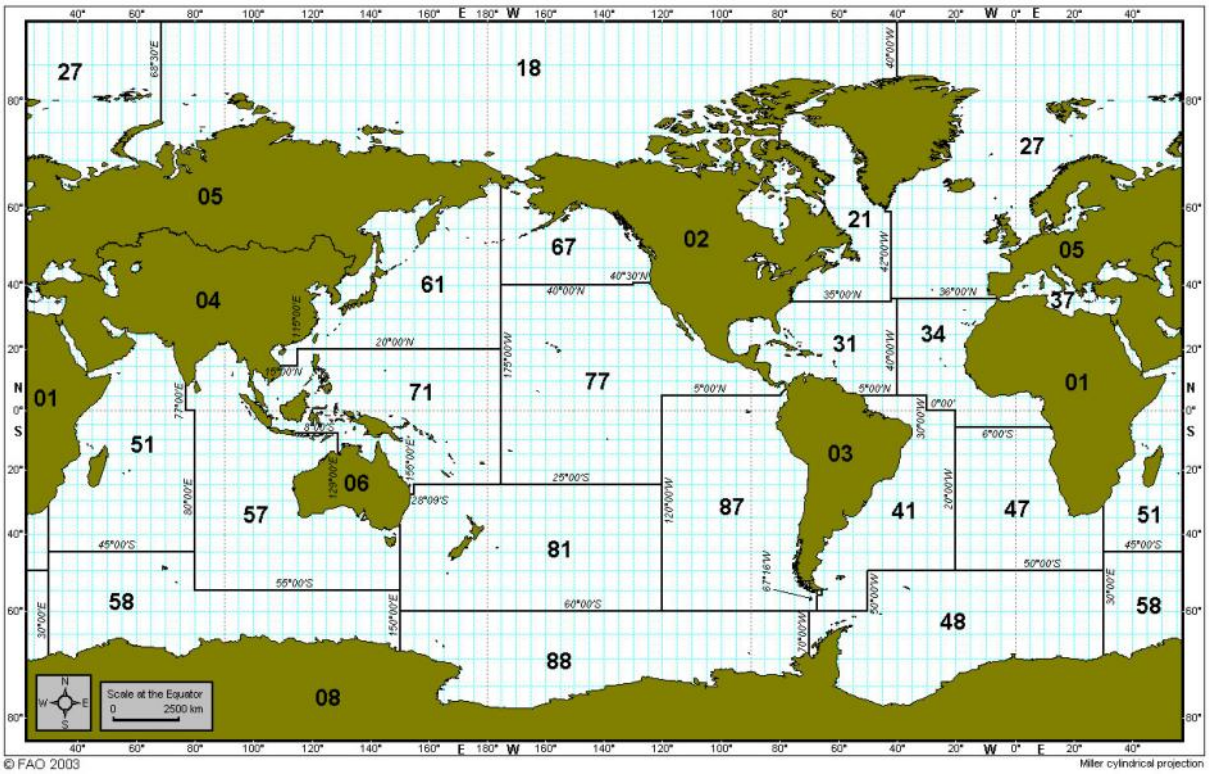


Figure 4: FAO fishing areas of the world's oceans:

Browse FAO Fishing Areas Fact Sheets by list:

Area 18 (Arctic Sea)
Area 21 (Atlantic, Northwest)
Area 27 (Atlantic, Northeast)
Area 31 (Atlantic, Western Central)
Area 34 (Atlantic, Eastern Central)
Area 37 (Mediterranean and Black Sea)
Area 41 (Atlantic, Southwest)
Area 47 (Atlantic, Southeast)
Area 48 (Atlantic, Antarctic)
Area 51 (Indian Ocean, Western)
Area 57 (Indian Ocean, Eastern)
Area 58 (Indian Ocean, Antarctic and Southern)
Area 61 (Pacific, Northwest)
Area 67 (Pacific, Northeast)
Area 71 (Pacific, Western Central)
Area 77 (Pacific, Eastern Central)
Area 81 (Pacific, Southwest)
Area 87 (Pacific, Southeast)
Area 88 (Pacific, Antarctic)

3.1.3.3 Hot spots (types): FAO areas - number of types/specimens/species/FAO area

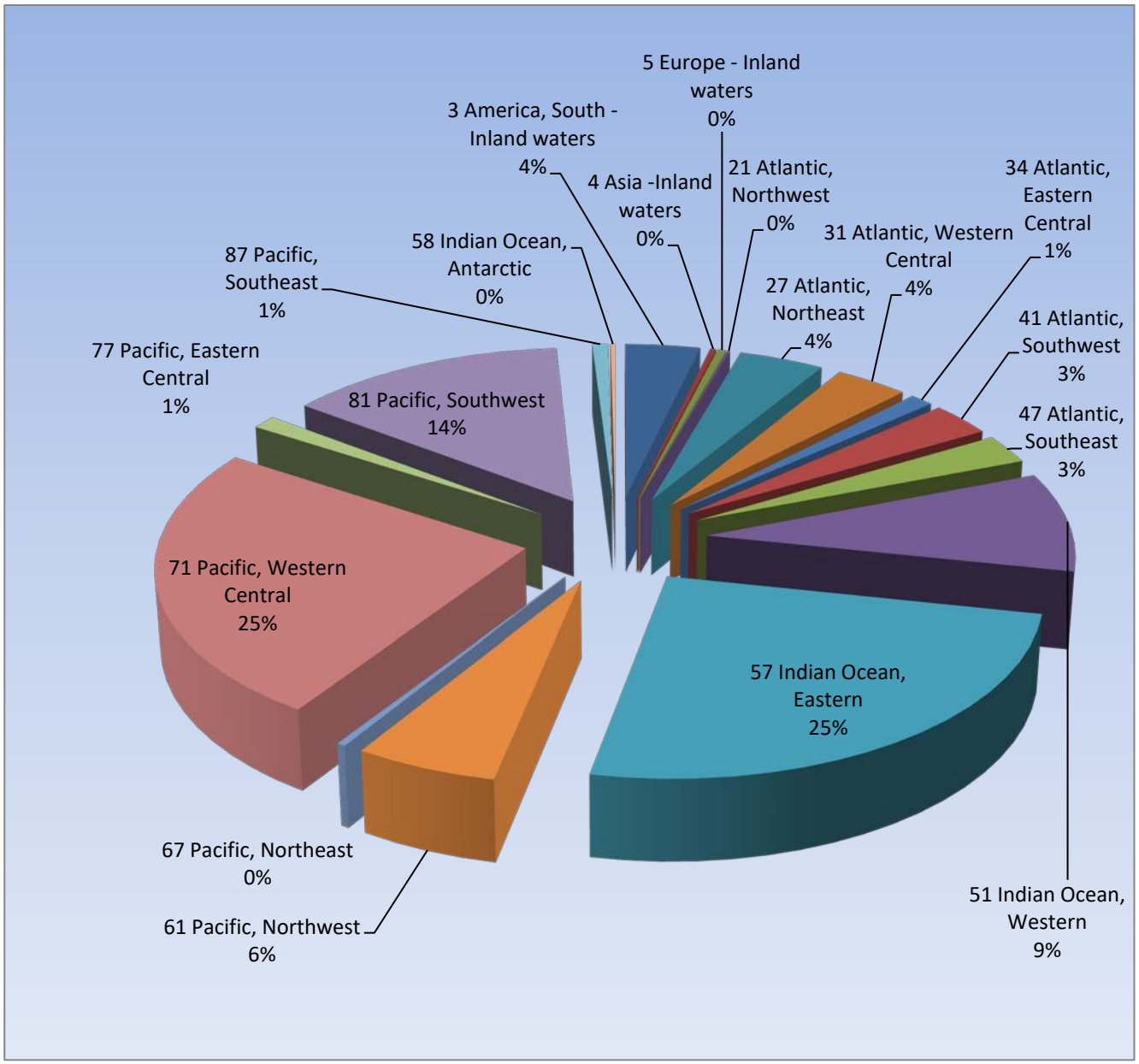
Table 4: List of zoological collection entries, specimen and species numbers from the years 1990 to 2017 and associated FAO areas.

	nr. of FAO area	FAO area	nr. of collection numbers	nr. of specimen	nr. of species
		INLAND WATERS			
	1	Africa - Inland waters	0	0	0
	2	America, North - Inland waters	0	0	0
	3	America, South - Inland waters	115	117	16
	4	Asia -Inland waters	9	9	3
	5	Europe - Inland waters	0	0	0
	6	Oceania - Inland waters	13	13	1
	7	(Former USSR area – Inland waters)	0	0	0
	8	Antarctica - Inland waters	0	0	0
		MARINE AREAS			
Atlantic Ocean and adjacent seas	18	Arctic Sea	0	0	0
	21	Atlantic, Northwest	4	9	2
	27	Atlantic, Northeast	131	148	23
	31	Atlantic, Western Central	113	168	11
	34	Atlantic, Eastern Central	36	37	7
	37	Mediterranean and Black Sea	0	0	0
	41	Atlantic, Southwest	96	97	15
	47	Atlantic, Southeast	83	92	14
Indian Ocean	51	Indian Ocean, Western	284	322	46
	57	Indian Ocean, Eastern	781	873	98
Pacific Ocean	61	Pacific, Northwest	177	191	32
	67	Pacific, Northeast	11	24	3

	71	Pacific, Western Central	778	807	117
	77	Pacific, Eastern Central	38	46	9
	81	Pacific, Southwest	429	540	59
	87	Pacific, Southeast	24	51	9
Southern Ocean	48	Atlantic, Antarctic	0	0	0
	58	Indian Ocean, Antarctic	7	7	1
	88	Pacific, Antarctic	0	0	0

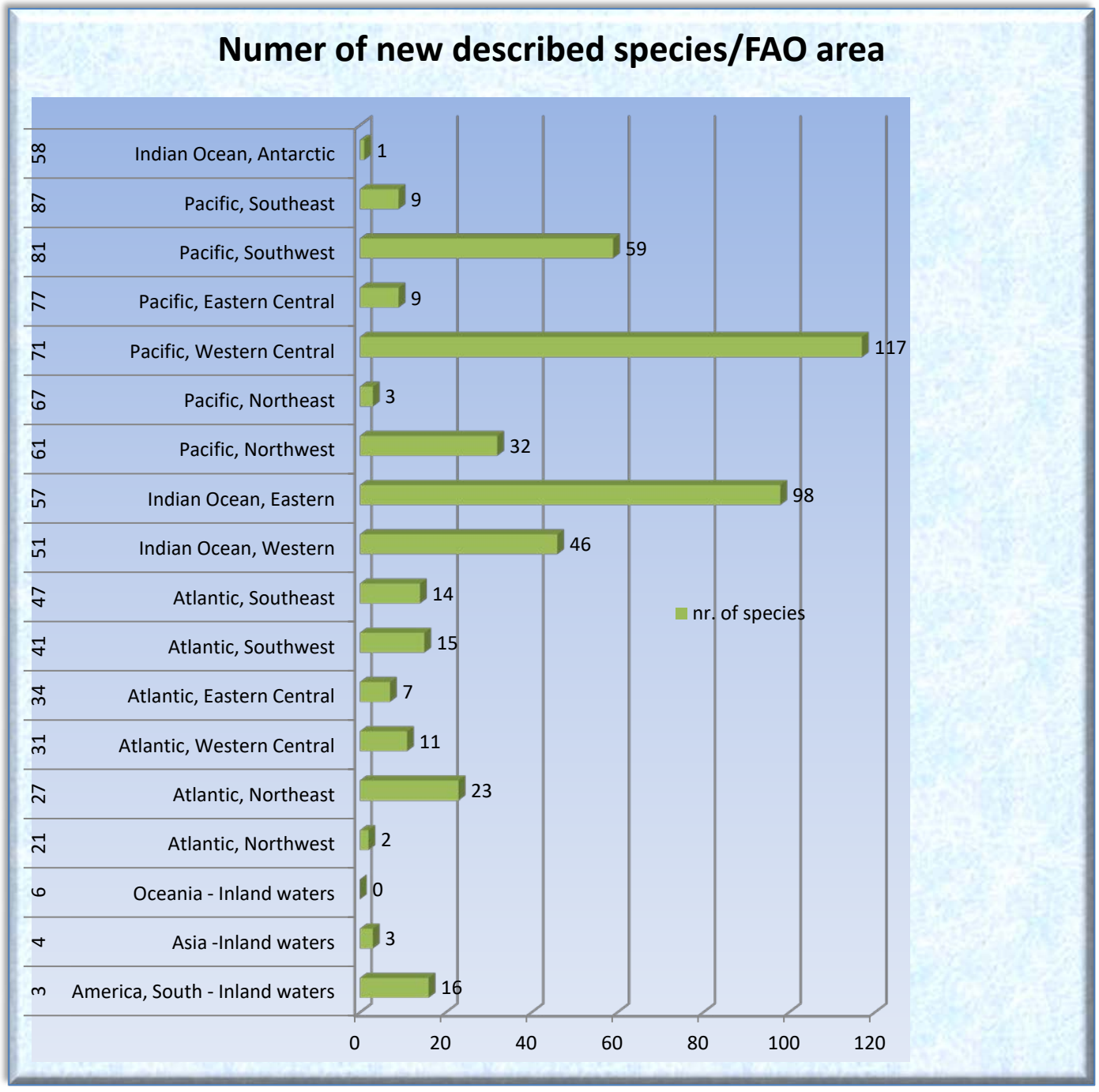
3.1.3.4 Hot spots (types): FAO areas - number of types/FAO area

Figure 5: Piechart showing percentage of all deposited type material from extant species descriptions in associated FAO fishing areas (please see Figure 4 for geographical details).



3.1.3.5 Hot spots (types): FAO areas - number of newly described species/FAO area

Figure 6: Numbers of newly described species and associated FAO fishing areas (please see Figure 4 for geographical explanations). FAO areas 71 (Western Central Pacific) and 57 (Eastern Indian Ocean) appear as highly diverse areas.

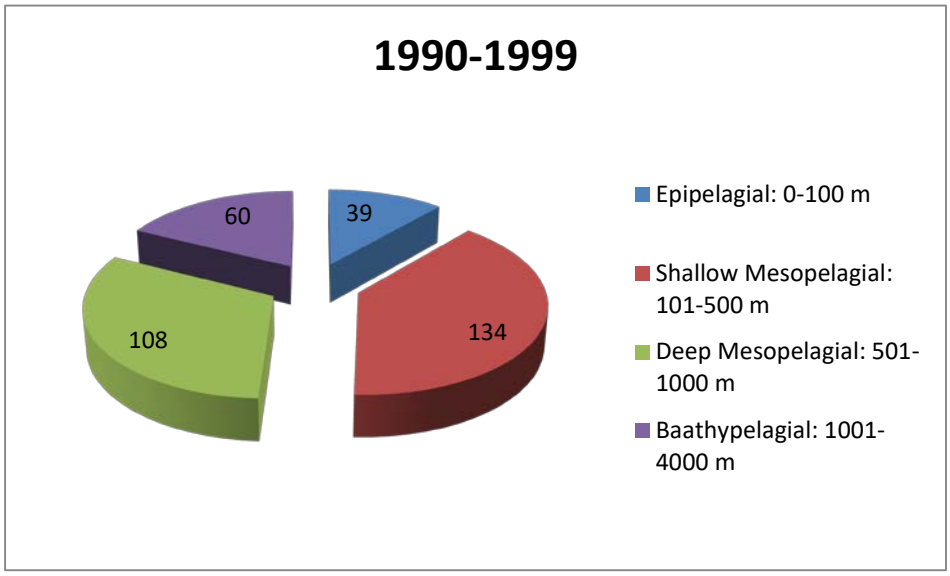


3.1.3.5 Hot spots (types): depth

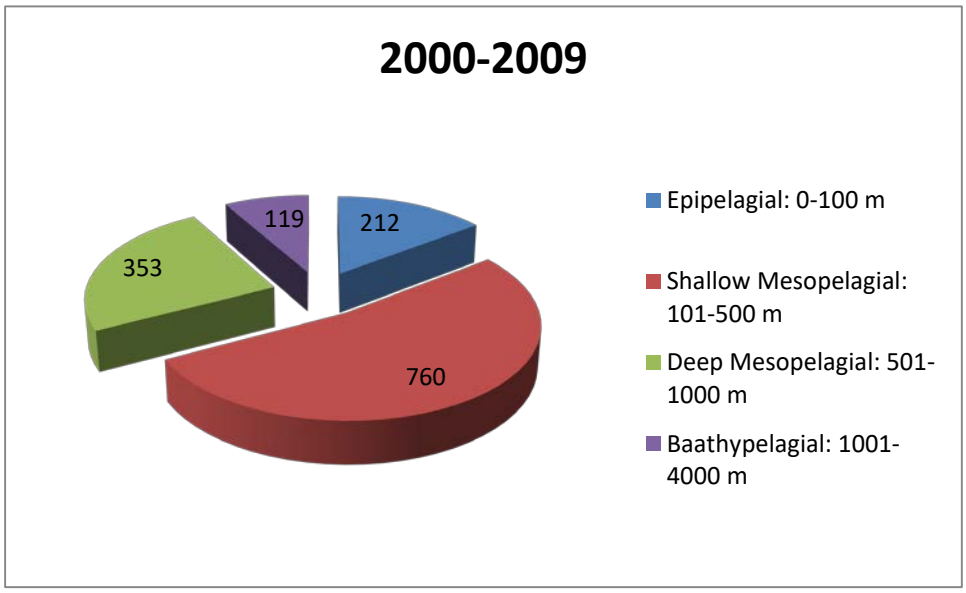
Types/depth	1990-1999	2000-2009	2010-2017	Total	percentage rate
number of types	409	1735	856	3000	
number of types with depth	341	1444	547	2332	77,34%
Epipelagial: 0-100 m	39	212	86	337	16,22%
Shallow Mesopelagial: 101-500 m	134	760	56	950	45,72%
Deep Mesopelagial: 501-1000 m	108	353	78	539	25,94%
Bathypelagial: 1001-4000 m	60	119	73	252	12,13%

Figure 7:

A: distribution of type specimen in bathymetric profiles in the years 1990-1999.



B: distribution of type specimen in bathymetric profiles in the years 2000-2009.



C: distribution of type specimen in bathymetric profiles in the years 2010-2017.

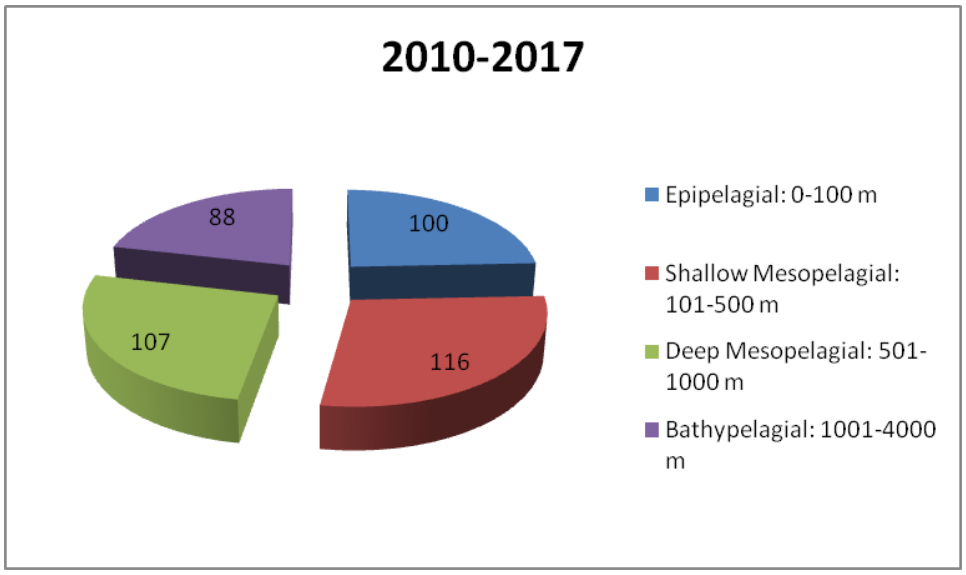
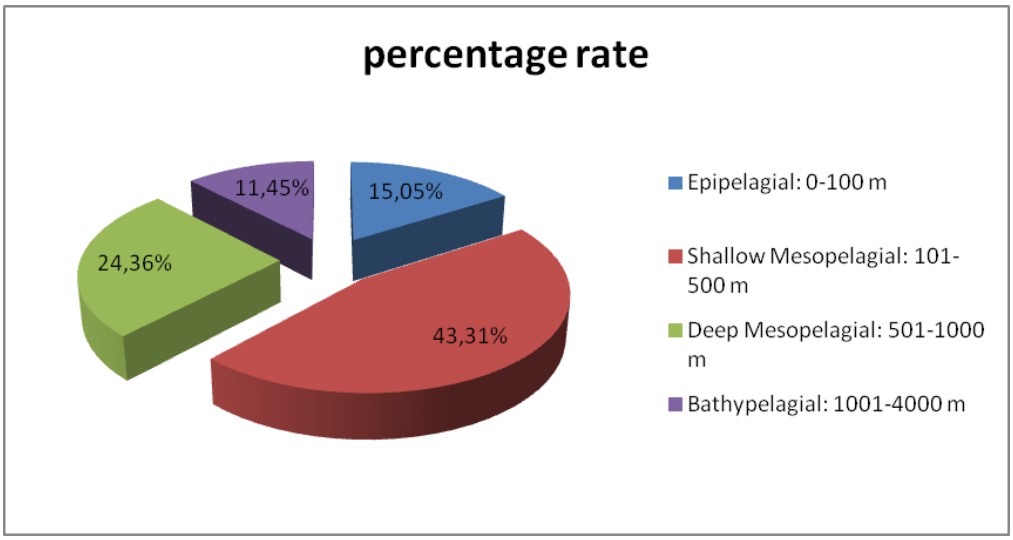


Figure 8: Percentage of type specimen in bathymetric profiles from 1990 to 2017.



3.2 Descriptions of extinct genera/species

3.2.1 List of new extinct genera

Altusmirus	FUCHS, ENGELBRECHT, LUKENEDER & KRIWET, 2017	(Carcharhiniformes)
Artiodus	IVANOV & DUFFIN, 2017	(incert. sedis: incert. fam.)
Coelometlaouia	ENGELBRECHT, MÖRS, REGUERO & KRIWET, 2017	(Orectolobiformes: Orectolobidae)
Cypripediodens	DUFFIN & WARD, 2017	(Petalodontiformes: Janassidae)
Deltalepis	ANDREEV, COATES, KARATAJUTE-TALIMAA, SHELTON, COOPER & SANSOM, 2017	(Elegestolepidida: Elegestolepididae)
Eodalatias	ENGELBRECHT, MÖRS, REGUERO & KRIWET, 2017	(Squaliformes: Dalatiidae)
Fornicatus	FUCHS, ENGELBRECHT, LUKENEDER & KRIWET, 2017	(Carcharhiniformes: incert. fam.)
Kallodentis	ENGELBRECHT, MÖRS, REGUERO & KRIWET, 2017	(Carcharhiniformes: Triakidae)
Kimmerobatis	UNDERWOOD & CLAESON, 2017	(Spathobatidae)
Megalolamna	SHIMADA, CHANDLER, LAM, TANAKA & WARD, 2017	(Lamniformes: Otodontidae)
Meridiogaleus	ENGELBRECHT, MÖRS, REGUERO & KRIWET, 2017	(Carcharhiniformes: Triakidae)
Notoramphoscyllium	ENGELBRECHT, MÖRS, REGUERO & KRIWET, 2017	(Orectolobiformes: Hemiscylliidae)
Oblidens	DUFFIN & MILÀN, 2017	(Chimaeriformes: Myriacanthidae)
Pristrisodus	BHAT, RAY & DATTA, 2017	(Hybodontiformes: Lonchidiidae)
Pseudoapristurus	POLLERSPÖCK & STRAUBE, 2017	(Carcharhiniformes: Pentanchidae)
Rubencanthus	FIGUEROA & GALLO, 2017	(Sphenacanthidae)
Similiteroscyllium	FUCHS, ENGELBRECHT, LUKENEDER & KRIWET, 2017	(Orectolobiformes: incert. fam.)
Sulcidens	UNDERWOOD,KOLMANN & WARD, 2017	(Myliobatiformes: incert. fam.)

3.2.2 List of new extinct species

Abdounia mesetae	ENGELBRECHT, MÖRS, REGUERO & KRIWET, 2017	(Carcharhiniformes: Carcharhinidae)
Abdounia richteri	ENGELBRECHT, MÖRS, REGUERO & KRIWET, 2017	(Carcharhiniformes: Carcharhinidae)
Altusmirus triquetrus	FUCHS, ENGELBRECHT, LUKENEDER & KRIWET, 2017	(Carcharhiniformes: incert. fam.)
Artiodus prominens	IVANOV & DUFFIN, 2017	(incert. sedis: incert. fam.)
Asteracanthus udulfensis	LEUZINGER, CUNY, POPOV & BILLON-BRUYAT, 2017	(Hybodontiformes: Acrodontidae)
Bythiacanthus lopesi	FIGUEROA & GALLO, 2017	(Ctenacanthiformes: Heslerodidae)
Coelometlaouia pannucea	ENGELBRECHT, MÖRS, REGUERO & KRIWET, 2017	(Orectolobiformes: Orectolobidae)
Cypripediodens cristatus	DUFFIN & WARD, 2017	(Petalodontiformes: Janassidae)
Deltalepis magna	ANDREEV, COATES, KARATAJUTE-TALIMAA, SHELTON, COOPER & SANSOM, 2017	(Elegestolepidida: Elegestolepididae)
Deltalepis parva	ANDREEV, COATES, KARATAJUTE-TALIMAA, SHELTON, COOPER & SANSOM, 2017	(Elegestolepidida: Elegestolepididae)
Echinorhinus maremagnum	BOGAN, AGNOLIN, OTERO, EGLI, SUÁREZ, SOTO-ACUÑA & NOVAS, 2017	(Echinorhiniformes: Echinorhinidae)
Eodalatias austrinalis	ENGELBRECHT, MÖRS, REGUERO & KRIWET, 2017	(Squaliformes: Dalatiidae)
Fornicatus austriacus	FUCHS, ENGELBRECHT, LUKENEDER & KRIWET, 2017	(Carcharhiniformes: incert. fam.)
Kallodentis rhytistemma	ENGELBRECHT, MÖRS, REGUERO & KRIWET, 2017	(Carcharhiniformes: Triakidae)
Kimmerobatis etchesi	UNDERWOOD & CLAESON, 2017	(Spathobatidae)
Lonchidion derenzii	MANZANARES, PLA, MARTINEZ-PEREZ, FERRON, H. & BOTELLA, 2017	(Hybodontiformes: Lonchidiidae)
Megalolamna paradoxodon	SHIMADA, CHANDLER, LAM, TANAKA & WARD, 2017	(Lamniformes: Otodontidae)
Meridiogaleus cristatus	ENGELBRECHT, MÖRS, REGUERO & KRIWET, 2017	(Carcharhiniformes: Triakidae)
Notoramphoscyllium woodwardi	ENGELBRECHT, MÖRS, REGUERO & KRIWET, 2017	(Orectolobiformes: Hemiscylliidae)
Oblidens bornholmensis	DUFFIN & MILÀN, 2017	(Chimaeriformes: Myriacanthidae)
Potamotrygon canaanorum	CHABAIN, ANTOINE, ALTAMIRANO-SIERRA, MARIVAUX, PUJOS, GISMONDIB & ADNET, 2017	(Rajiformes: Potamotrygonidae)
Potamotrygon contamanensis	CHABAIN, ANTOINE, ALTAMIRANO-SIERRA, MARIVAUX, PUJOS, GISMONDIB & ADNET, 2017	(Rajiformes: Potamotrygonidae)
Potamotrygon rajachloeae	CHABAIN, ANTOINE, ALTAMIRANO-SIERRA, MARIVAUX, PUJOS, GISMONDIB & ADNET, 2017	(Rajiformes: Potamotrygonidae)
Pristrisodus tikiensis	BHAT, RAY & DATTA, 2017	(Hybodontiformes: Lonchidiidae)

Pseudoapristurus nonstriatus	POLLERSPÖCK & STRAUBE, 2017	(Carcharhiniformes: Pentanchidae)
Ptychotrygon clementsi	CASE, COOK, SAFORD & SHANNON, 2017	(Rajiformes: Ptychotrygonidae)
Rubencanthus diplotuberculatus	FIGUEROA & GALLO, 2017	(Sphenacanthidae)
Similiteroscyllium iniquus	FUCHS, ENGELBRECHT, LUKENEDER & KRIWET, 2017	(Orectolobiformes: incert. fam.)
Sphenacanthus ignis	FIGUEROA & GALLO, 2017	(Sphenacanthidae)
Titanonarke megapterygia	MARRAMA, CLAESON, CARNEVALE & KRIWET, 2017	(Torpediniformes: Narcinidae)
Triodus richterae	PAULIV, MARTINELLI, FRANCISCHINI, DENTZIEN-DIAS, SOARES, SCHULTZ & RIBEIRO, 2017	(Xenacanthiformes: Xenacanthidae)

3.2.3 Papers of new extinct genera/species

ANDREEV, P.S. & COATES, M.I. & KARATAJUTE-TALIMAA, V. & SHELTON, R.M. & COOPER, P.R. & SANSOM, I.J. (2017): *Elegestolepis* and its kin, the earliest monodontode chondrichthyans. *Journal of Vertebrate Paleontology, 37 (1): e1245664*

New genus: *Deltalepis*

New species: *Deltalepis magna, Deltalepis parva*

Abstract: Chondrichthyan-like scales with simple, single-odontode crowns, reminiscent of those of euselachians, have been reported from Silurian strata in a number of previous studies. These specimens comprise the genera *Elegestolepis* (from Siberia, Mongolia, and Tuva) and *Kannathalepis* (from the Canadian Arctic) and have been considered to exhibit contrasting patterns of ontogenetic development. A study of elegestolepid microremains from the Chargat Formation of Mongolia (Llandovery–lower Wenlock) and the Baital Formation of Tuva (Wenlock–Ludlow) has been undertaken using scanning electron microscopy and micro-computed tomography to examine scale canal system and hard tissue structure. These investigations revealed scales at different stages of development, whose morphogenesis is characterized by growth (elongation) of the crown odontode and formation of neck canals. This ontogenetic pattern (*Elegestolepis*-type morphogenesis) is also recognized in *Kannathalepis* and the Lower Devonian species *Ellesmereia schultzei* and forms the basis for the unification of these taxa into a new chondrichthyan order Elegestolepidida, ordo nov. Similarities in crown vascularization (branching pulp, single neck canal) shared by *Elegestolepis*, *Ellesmereia*, and *Deltalepis*, gen. nov. (*D. magna*, sp. nov., and *D. parva*, sp. nov., erected herein for Mongolian specimens), require the erection of the family Elegestolepididae, fam. nov., that is distinguished from the monogeneric Kannathalepididae (non-branching pulp, multiple neck canals). Elegestolepid scales exhibit characteristics (neck canal formation and lack of enamel and basal bone osteons) consistent with those of the chondrichthyan dermal skeleton. This establishes Elegestolepidida as the stratigraphically oldest chondrichthyan taxon to develop monodontode scales, which, in contrast to the ‘placoid’ scales of euselachians, are growing structures.

BHAT, M.S. & RAY, S. & DATTA, P.M. (2017): A new hybodont shark (Chondrichthyes, Elasmobranchii) from the Upper Triassic Tiki Formation of India with remarks on its dental histology and biostratigraphy. *Journal of Paleontology, in press*

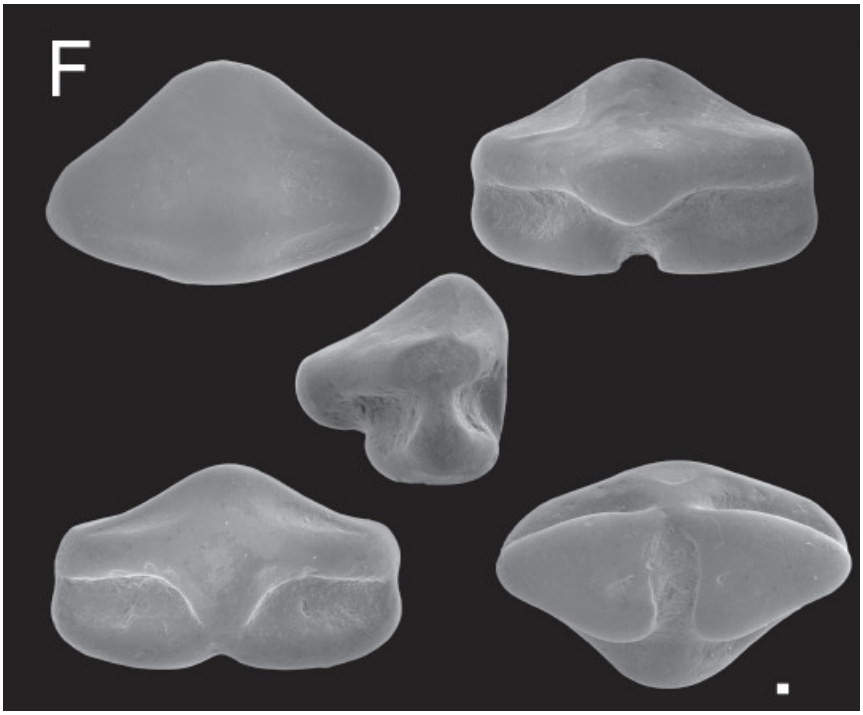
New genus: *Pristrisodus*

Abstract: A new lonchidiid genus, *Pristrisodus*, from the Upper Triassic Tiki Formation of India is described based on multiple, well-preserved, isolated teeth. Comparative analysis resulted in synonymizing *Parvodus tikiensis* and *Lissodus duffini,* which are known from the same horizon and resulted in a new taxon, *Pristrisodus tikiensis* n. comb. These teeth are elongated with mesiodistal length greater than or equal to twice the labiolingual width and have a high principal cusp, lateral cusplets, a distinct ridge near the crown-root junction labially and higher up on the crown lingually, weak ornamentation, and linear depression along the crown-root junction. Five morphotypes based on overall shape, robustness and crown height are determined. The teeth show a gradual monognathic heterodonty. The anterolateral teeth (morphotypes I−II) have high, pyramidal principal cusp with two or three small but pointed cusplets, and triangular labial and lingual protuberance. The posterolateral teeth (morphotypes III−IV) have four incipient cusplets, relatively low principal cusp, bilobed/rounded, hanging labial and incipient lingual protuberances. Morphotype V comprises anterior teeth that are broad, triangular and robust, and have rounded/blunt principal cusp, one cusplet, and low, hanging labial peg. Multivariate analyses corroborate the qualitative assessment of the Indian hybodonts. Dental histology of *Pristrisodus* n. gen., shows that it is distinctly different from other lonchidiid genera. The assemblage of freshwater sharks, along with other vertebrate microfossils of the Tiki Formation, shows similarity with that of the lower Tecovas Formation of the Chinle Group, USA. The euryhaline nature resulted in the adaptation of the hybodonts to freshwater systems in India during the Carnian.

BOGAN, S. & AGNOLIN, F.L. & OTERO, R.A. & EGLI, F.B. & SUÁREZ, M.E. & SOTO-ACUÑA, S. & NOVAS, F.E. (2017): A new species of the genus *Echinorhinus* (Chondrichthyes, Echinorhiniformes) from the upper cretaceous of southern South America (Argentina-Chile). *Cretaceous Research, 78: 89-94*

New species: *Echinorhinus maremagnum*

Abstract: We describe isolated shark teeth collected from levels of the Calafate Formation at the SE coast of the Argentino Lake, Calafate city, Santa Cruz province, Argentina (Atlantic Ocean), and from the Algarrobo coast at the Valparaíso Region in central Chile (Pacific Ocean). The teeth belong to a new species of the echinorhiniform genus *Echinorhinus*. *Echinorhinus maremagnum* n. sp. was a taxon distributed in both the southwestern Atlantic and the southeastern Pacific. This new taxon constitutes the oldest record of echinorhiniforms from South America and one of the few Mesozoic records at a worldwide scale.



CASE, G.R. & COOK, T.D. & SAFORD, E.M. & SHANNON, K.R. (2017): A late Maastrichtian selachian assemblage from the Peedee Formation of North Carolina, USA. *Vertebrate Anatomy Morphology Palaeontology, 3: 63–80*

New species: *Ptychotrygon clementsi*

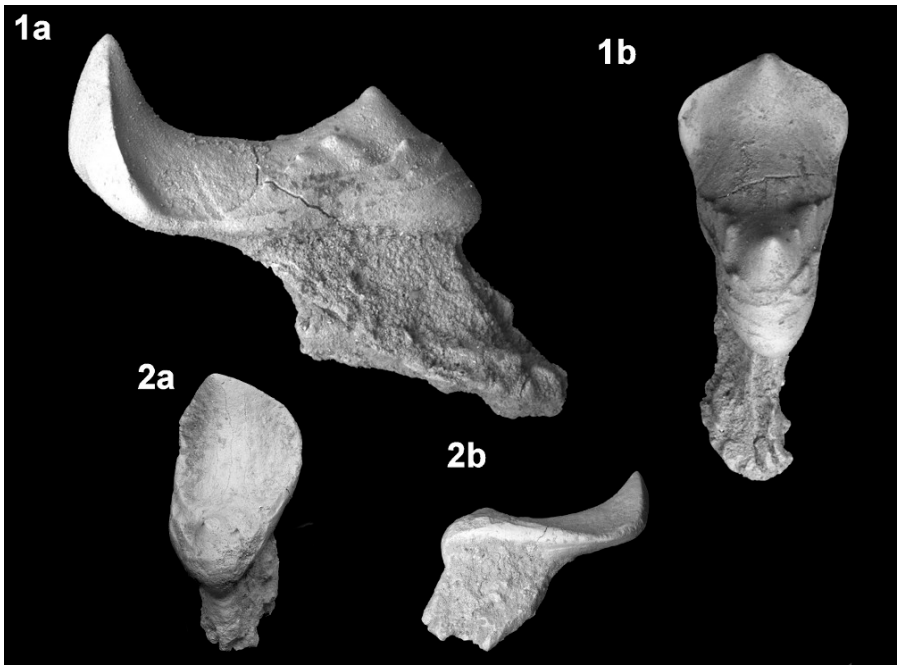
Abstract: A diverse selachian fauna was collected from the Island Creek Member of the Peedee Formation at Castle Hayne, New Hanover County, North Carolina, USA. This inner neritic assemblage consists of 23 species from 20 genera, 17 families and eight orders and includes the new species *Ptychotrygon clementsi* sp. nov. The dentitions of a few, large, macrophagous species with large palaeobiogeographical ranges is described. However, the majority of the reported specimens belong to relatively small species that are endemic to the southern regions of the Western Interior Seaway and the Atlantic and Gulf Coastal plains of North America.

CHABAIN, J. & ANTOINE, P.-O. & ALTAMIRANO-SIERRA, A.J. & MARIVAUX, L. & PUJOS, F. & GISMONDIB, R.S. & ADNET, S. (2017): Cenozoic batoids from Contamana (Peruvian Amazonia) with focus on freshwater potamotrygonins and their paleoenvironmental significance. *Geobios, in press*

New species: *Potamotrygon contamanensis, Potamotrygon rajachloeae, Potamotrygon canaanorum,*

Abstract: Among the ichthyofaunal remains collected in the Tertiary deposits of Peruvian Amazonia, elasmobranchs show an unexpected richness of rays, consisting primarily of mostly potamotrygonins (river stingrays), but also pristids (sawfishes) and rhinopterids (cownose rays). Among the Potamotrygoninae

subfamily and in addition to the middle Eocene *Potamotrygon ucayalensis* found in oldest levels, three new fossil species of *Potamotrygon*, namely *P. contamanensis* nov. sp., *P. canaanorum* nov. sp., and *P. rajachloeae* nov. sp. are described from late Oligocene-late Miocene deposits along the Quebrada Cachiyacu, near Contamana, Peru. These new fossils fill a substantial gap in the sporadic fossil record of this exclusive freshwater elasmobranch subfamily, native to South America, thereby highlighting their ancient biological and ecological diversity. In the absence of sharks, the occurrence of obligate freshwater potamotrygonins, along with additional marine to brackish batoids from nine successive fossiliferous levels, supports the predominance of fluvio-lacustrine environments in that region throughout the considered period, with a peak of marine influence around the middle-late Miocene transition, as recorded in other areas of Western Amazonia.

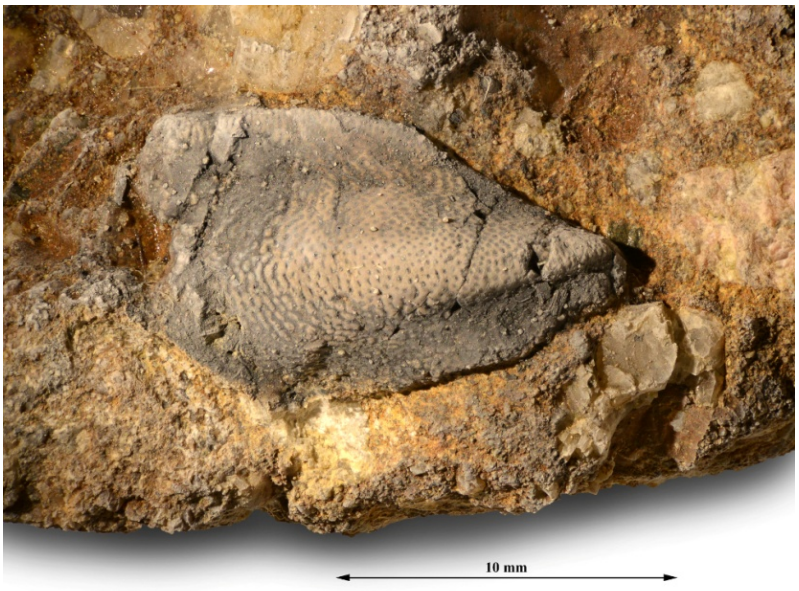


DUFFIN, C.J. & WARD, D.J. (2017): A new janassid petalodont chondrichthyan from the Early Carboniferous of Derbyshire, UK. *Proceedings of the Geologists' Association, 128 (5–6): 809-814*

New genus: *Cypripediodens*

New species: *Cypripediodens cristatus*

Abstract: The very small teeth of a new petalodont chondrichthyan are described from the Lower Carboniferous Eyam Limestone Formation (Peak Limestone Group, Carboniferous Limestone Supergroup; Brigantian, Early Carboniferous) of Derbyshire. *Cypripediodens cristatus* gen. et sp. nov. belongs to the Family Janassidae on the basis of the angle formed between the base and the crown. Presumed lower symphyseal teeth are *Fissodus*-like, possessing two labial cusps, whilst the rest of the dentition is relatively homodont. Individual crowns measure up to 1.3 mm labiolingually and possess a single labial cusp with virtually circular cross-section, separated from a prominent lingual cusp with circumferential cristae from which it is separated by a central trough.



DUFFIN, C.J. & MILÀN, J. (2017): A new myriacanthid holocephalian from the Early Jurassic of Denmark. *Bulletin of the Geological Society of Denmark, 65: 161–170*

New genus: *Oblidens*

New species: *Oblidens bornholmensis*

Abstract: A new myriacanthid holocephalian is described from the Hasle Formation (probably the *Uptonia jamesoni* subzone to the *Acanthopleuroceras valdani* subzone, Early Pliensbachian, Early Jurassic) of Bornholm, Denmark, on the basis of isolated upper posterior (palatine) and lower posterior (mandibular) tooth plates. *Oblidens bornholmensis* gen. et sp. nov. differs from all other myriacanthids for which the same dental elements are known, in the distribution of the hypermineralised tissue covering the occlusal surfaces of the tooth plates, and the arrangement of the ridges transecting the tooth plate surface and so varying their surface relief. *Oblidens* is the first myriacanthid holocephalian to be recorded both from the Pliensbachian and from Denmark. The presence of a further, undetermined myriacanthid tooth plate is noted from the same locality.

ENGELBRECHT, A. & MÖRS, T. & REGUERO, M.A. & KRIWET, J. (2017): New carcharhiniform sharks (Chondrichthyes, Elasmobranchii) from the early to middle Eocene of Seymour Island, Antarctic Peninsula. *Journal of Vertebrate Paleontology, e1371724*

New genus: *Meridiogaleus, Kallodentis*

New species: *Meridiogaleus cristatus, Kallodentis rhytistemma, Abdounia mesetae, Abdounia richteri*

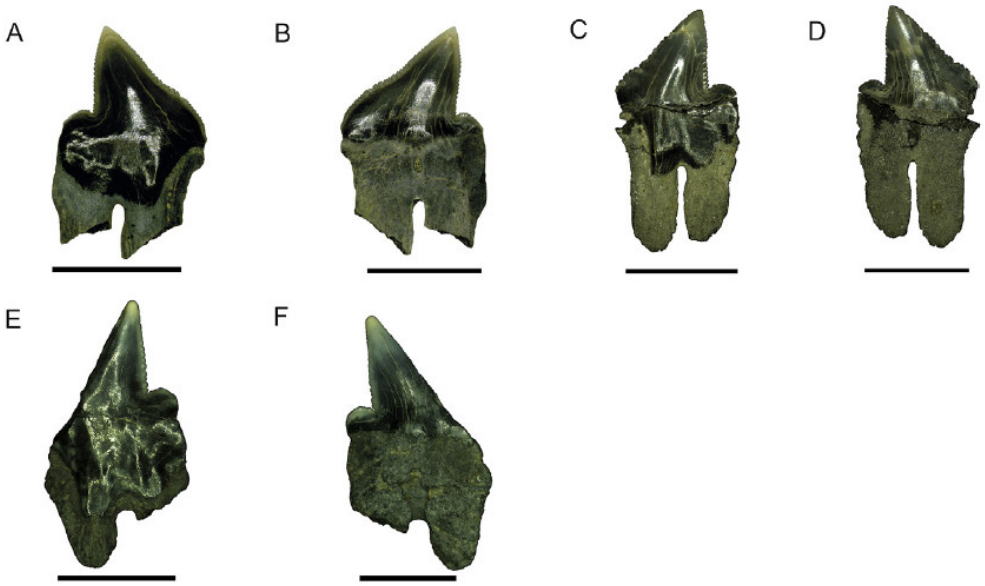
Abstract: Seymour Island, Antarctic Peninsula, is known for its wealth of fossil remains. This island provides one of the richest fossiliferous Paleogene sequences in the world. Chondrichthyans seemingly dominate this Eocene marine fauna and offer a rare insight into high-latitude faunas during the Palaeogene. So far, only a few isolated teeth of carcharhinid sharks have been reported from Seymour Island. Bulk sampling in the well-exposed La Meseta and Submeseta formations yielded new and abundant chondrichthyan material, including numerous teeth of carcharhinid and triakid sharks. Here, we present a reevaluation of the previously described carcharhinid remains and a description of new taxa: *Meridiogaleus cristatus*, gen. et sp. nov., *Kallodentis rythistemma*, gen. et sp. nov., *Abdounia richteri*, sp. nov., and *Abdounia mesetae*, sp. nov. The carcharhiniforms *Mustelus* sp. and *Galeorhinus* sp. are reported based on rare material, whereas teeth previously assigned to *Scoliodon* represent a nomen dubium.

ENGELBRECHT, A. & MÖRS, T. & REGUERO, M.A. & KRIWET, J. (2017): Revision of Eocene Antarctic carpet sharks (Elasmobranchii, Orectolobiformes) from Seymour Island, Antarctic Peninsula. *Journal of Systematic Palaeontology, 15 (12): 969-990*

New genus: *Notoramphoscyllium, Coelometlaouia*

New species: *Notoramphoscyllium woodwardi, Coelometlaouia pannucea*

Abstract: Seymour Island, Antarctic Peninsula, was once called the 'Rosetta Stone' of Southern Hemisphere palaeobiology, because this small island provides the most complete and richly fossiliferous Palaeogene sequence in Antarctica. Among fossil marine vertebrate remains, chondrichthyans seemingly were dominant elements in the Eocene Antarctic fish fauna. The fossiliferous sediments on Seymour Island are from the La Meseta Formation, which was originally divided into seven stratigraphical levels, TELMs 1–7 (acronym for Tertiary Eocene La Meseta) ranging from the upper Ypresian (early Eocene) to the late Priabonian (late Eocene). Bulk sampling of unconsolidated sediments from TELMs 5 and 6, which are Ypresian (early Eocene) and Lutetian (middle Eocene) in age, respectively, yielded very rich and diverse chondrichthyan assemblages including over 40 teeth of carpet sharks representing two new taxa, *Notoramphoscyllium woodwardi* gen. et sp. nov. and *Ceolometlaouia pannucae* gen. et sp. nov. Two additional teeth from TELM 5 represent two different taxa that cannot be assigned to any specific taxon and thus are left in open nomenclature. The new material not only increases the diversity of Eocene Antarctic selachian faunas but also allows two previous orectolobiform records to be re-evaluated. Accordingly, *Stegostoma* cf. *faciatum* is synonymized with *Notoramphoscyllium woodwardi* gen. et sp. nov., whereas *Pseudoginglymostoma* cf. *brevicaudatum* represents a *nomen dubium*. The two new taxa, and probably the additional two unidentified taxa, are interpreted as permanent residents, which most likely were endemic to Antarctic waters during the Eocene and adapted to shallow and estuarine environments.

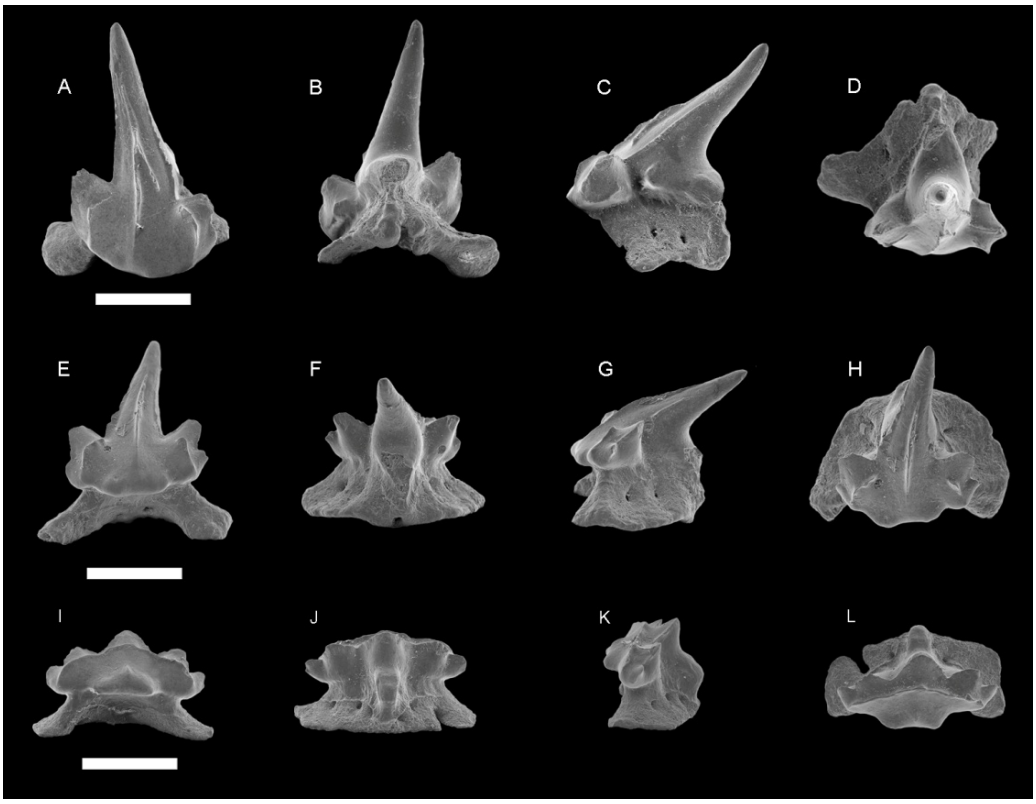


ENGELBRECHT, A. & MÖRS, T. & REGUERO, M.A. & KRIWET, J. (2017): Eocene squalomorph sharks (Chondrichthyes, Elasmobranchii) from Antarctica. *Journal of South American Earth Sciences, 78: 175–189*

New genus: *Eodalatias*

New species: *Eodalatias austrinalis*

Abstract: Rare remains of predominantly deep-water sharks of the families Hexanchidae, Squalidae, Dalatidae, Centrophoridae, and Squatinidae are described from the Eocene La Meseta Formation, Seymour Island, Antarctic Peninsula, which has yielded the most abundant chondrichthyan assemblage from the Southern Hemisphere to date. Previously described representatives of *Hexanchus* sp., *Squalus weltoni*, *Squalus woodburnei*, *Centrophorus* sp., and *Squatina* sp. are confirmed and dental variations are documented. Although the teeth of *Squatina* differ from other Palaeogene squatinid species we refrain from introducing a new species. A new daliatid taxon, *Eodalatias austrinalis* gen. et sp. nov. is described. This new material not only increases the diversity of Eocene Antarctic elasmobranchs but also allows assuming that favourable deep-water habitats were available in the Eocene Antarctic Ocean off Antarctica in the Eocene. The occurrences of deep-water inhabitants in shallow, near-coastal waters of the Antarctic Peninsula agrees well with extant distribution patterns.



FUCHS, I. & ENGELBRECHT, A. & LUKENEDER, A. & KRIWET, J. (2017): New Early Cretaceous sharks (Chondrichthyes, Elasmobranchii) from deep-water deposits of Austria. *Cretaceous Research, in press*

New genus: *Altusmirus, Fornicatus, Similiteroscyllium*

New species: *Altusmirus triquetrus, Similiteroscyllium iniquus, Fornicatus austriacus*

Abstract: Early Cretaceous elasmobranchs still are very insufficiently known despite all progress that has been accomplished in recent years. Here, a small elasmobranch assemblage is presented from the Valanginian of Austria that contributes significantly to a better understanding of early Cretaceous elasmobranch diversity. The new assemblage comprises two new carcharhiniform sharks, *Altusmirus triquetrus* gen. et sp. nov. and *Fornicatus austriacus* gen. et sp. nov., a new orectolobiform shark, *Similiteroscyllium iniquus* gen. et sp. nov., and a galeomorph shark tooth of uncertain affinities. The recent identification of *Similiteroscyllium* gen. nov. has shown that it has strong similarities with *Ornatoscyllium rugasimulatum* from the Lower Cretaceous of France. Significant differences of the tooth morphology of *O. rugasimulatum* and the type specimen *O. freemani*justify full reconsideration of the systematic position of *O.*

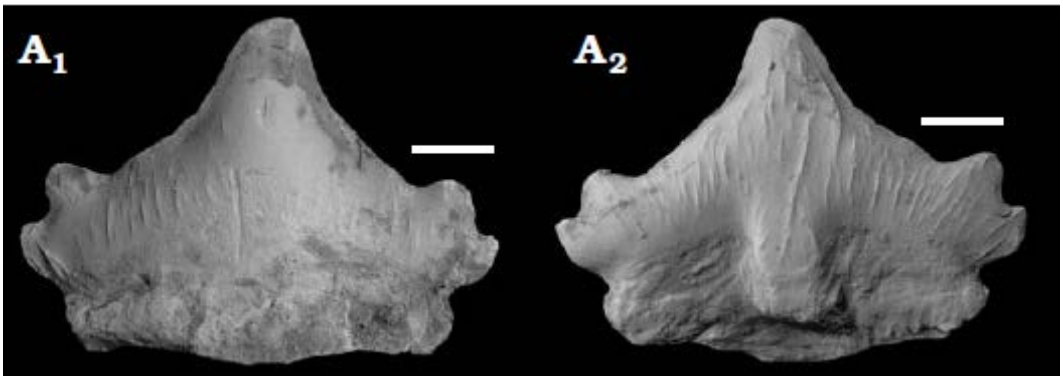
rugasimulatum and require it to be reassigned to *Similiteroscyllium*gen. nov. described in this paper. The new assemblage described here, and those from the Valanginian of France and Poland comprising 30 additional taxa, indicates that Early Cretaceous elasmobranch diversity was significantly higher than previously assumed. Consequently, the supposed diversity decline of elasmobranchs across the Jurassic-Cretaceous boundary represents a collecting bias rather than a real pattern.

FIGUEROA, R.T. & GALLO, V. (2017): New chondrichthyan fin spines from the Pedra de Fogo Formation, Brazil. *Journal of South American Earth Sciences, in press*

New genus: *Rubencanthus*

New species: *Rubencanthus diplotuberculatus, Sphenacanthus ignis, Bythiacanthus lopesi,*

Abstract: The Pedra de Fogo Formation is located at the northeast region of Brazil and possesses a diverse palaeobiota mainly composed by plants and vertebrate remains of Lower Permian age (Cisuralian). The palaeoichthyofauna includes several chondrichthyans (e.g. *Sphenacanthus maranhensis, Taquaralodus albuquerquei, Itapyrodus punctatus* and *Anisopleurodontis pricei*) but also include osteichthyans as the 'palaeoniscoid' *Brazilichthys macrognathus* and several actinopterygian and sarcopterygian remains. This variety of fish taxa of both marine and freshwater affinities is important for understanding taxonomical diversity and distribution of vertebrates from Western Gondwana. Here, specimens collected at the Pastos Bons locality, near Nova Iorque at Maranhão State, are described as two new species for known genera, *Sphenacanthus ignis* sp. nov. and *Bythiacanthus lopesi* sp. nov., also a new genus and a new species *Rubencanthus diplotuberculatus* gen. et sp. nov. that exhibit a distinct pattern of ornamentation from all previously known Palaeozoic chondrichthyans. These new records highlight the importance of more palaeontological studies for the Pedra de Fogo Formation and enlarge the variety of chondrichthyan for the locality.



IVANOV, A.O. & DUFFIN, C.J. & NAUGOLNYKH, S.V. (2017): A new euselachian shark from the early Permian of the Middle Urals, Russia. *Acta Palaeontologica Polonica, 62 (2): 289-298*

New genus: *Artiodus*

New species: *Artiodus prominens*

Abstract: The isolated teeth of a new euselachian shark *Artiodus prominens* Ivanov and Duffin gen. et sp. nov. have been found in the Artinskian Stage (Early Permian) of Krasnoufimskie Klyuchiki quarry (Sverdlovsk Region, Middle Urals, Russia). The teeth of *Artiodus* possess a multicuspid orthodont crown with from four to nine triangular cusps; prominent labial projection terminating in a large round tubercle; distinct ornamentation from straight or recurved cristae; oval or semilunar, elongate, considerably vascularized base; dense vascular network formed of transverse horizontal, ascending, short secondary and semicircular canals. The teeth of the new taxon otherwise most closely resemble the teeth of some protacrodontid and sphenacanthid euselachians possessing a protacrodont-type crown, but differ from the teeth of all other known euselachians in the unique structure of the labial projection. The studied teeth vary in crown and base morphology, and three tooth morphotypes can be distinguished in the collection reflecting a moderate degree of linear gradient monognathic heterodonty. The range of morphologies otherwise displayed by the collection of teeth shows the greatest similarity to that described for the dentitions of relatively high-crowned hybodontids from the Mesozoic. The internal structure of the teeth, including their vascularization system is reconstructed using microtomography. The highest chondrichthyan taxonomic diversity is found in the Artinskian, especially from the localities of the Middle and South Urals.

LEUZINGER, L. & CUNY, G. & POPOV, E. & BILLON-BRUYAT, J.-P. (2017): A new chondrichthyan fauna from the Late Jurassic of the Swiss Jura (Kimmeridgian) dominated by hybodonts, chimaeroids and guitarfishes. *Papers in Palaeontology, in press*

New species: *Asteracanthus udulfensis*

Abstract: The fossil record of chondrichthyans (sharks, rays and chimaeroids) principally consists of isolated teeth, spines and dermal denticles, their cartilaginous skeleton being rarely preserved. Several Late Jurassic chondrichthyan assemblages have been studied in Europe based on large bulk samples, mainly in England, France, Germany and Spain. The first study of this kind in Switzerland is based on controlled excavations in Kimmeridgian deposits related to the construction of the A16 motorway in the Swiss Jura (Porrentruy, NW Switzerland). This study is based on more than 2000 isolated chondrichthyan remains (teeth, dental plates, spines and dermal denticles) and adds to our knowledge of the chondrichthyan distribution at a regional scale in Europe. We describe and identify this new fauna, define a new species of hybodont with crushing-type dentition (*Asteracanthus udulfensis* sp. nov.) and report for the first time the carcharhiniform *Corysodon cirinensis* in Switzerland. By the Late Jurassic, modern neoselachian sharks had overtaken hybodonts in European marine realms, the latter being gradually confined to brackish or freshwater environments. However, while the associated fauna of the Porrentruy platform indicates marine conditions, neoselachian sharks are surprisingly rare. The chondrichthyan assemblage is largely dominated by hybodonts, guitarfishes (rays) and chimaeroids that are all known to be euryhaline. This unexpected chondrichthyan faunal composition questions the presence of fresh to brackish water in the vicinity of the platform, and the occurrence of salinity fluctuations within a general context marine. This could explain the scarcity of neoselachian sharks and the extended success of hybodonts in the Porrentruy area as late as the Late Jurassic.

MANZANARES, E. & PLA, C. & MARTINEZ-PEREZ, C. & FERRON, H. & BOTELLA, H. (2017): *Lonchidion derenzii*, sp. nov., a new lonchidiid shark (Chondrichthyes, Hybodontiforms) from the Upper Triassic of Spain, with remarks on lonchidiid enameloid. *Journal of Vertebrate Paleontology, 37 (1): e1253585*

New species: *Lonchidion derenzii*

Abstract: no abstract

MARRAMA, G. & CLAESON, K.M. & CARNEVALE, G. & KRIWET, J. (2017): Revision of Eocene electric rays (Torpediniformes, Batomorphii) from the Bolca Konservat-Lagerstätte, Italy, reveals the first fossil embryo in situ in marine batoids and provides new insights into the origin of trophic novelties in coral reef fishes. *Journal of Systematic Palaeontology, in press*

New species: *Titanonarke megapterygia*

Abstract: The Eocene electric ray †*Titanonarke* Carvalho, 2010 from the Bolca Konservat-Lagerstätte, north-eastern Italy, is redescribed in detail based upon new material from recent excavations. This taxon exhibits a combination of features (large voids between the pectoral and the axial skeleton filled in life by electric organs, anteriorly directed fan-shaped antorbital cartilages, lack of dermal denticles, long prepelvic processes, and rounded basibranchial copula with a small caudal tab) that clearly supports its assignment to the order Torpediniformes. The analysis of new material also demonstrates that the previous apparent absence of typical narcinoid characters used to diagnose †*Titanonarke* was the result of taphonomic biases. †*Titanonarke*shares at least three synapomorphies (presence of a rostral fontanelle, low number of ribs, and rostral cartilage connected to the antorbital cartilage through lateral appendices) with the extant genera *Benthobatis*, *Diplobatis*, *Discopyge* and *Narcine*, with which it forms a clade (family Narcinidae) recognized herein as unquestionably monophyletic. Moreover, based upon a single specimen of †*Titanonarke* that exhibits a unique combination of morphometric and meristic features, a new species of Eocene numbfish, †*T. megapterygia* sp. nov., is recognized. The presence of several specimens representing different ontogenetic stages of at least two species of numbfishes suggests a close association of this taxon with shallow-water habitats corresponding to coral reefs as hypothesized for the Monte Postale palaeoenvironment. The occurrence of a fossilized marine batoid embryo is reported here for the first time. Moreover, the analysis of the gut contents suggests that the dietary adaptations of †*Titanonarke* can be related, at least in part, to an opportunistic strategy in the context of abundant larger foraminifera in the Monte Postale palaeobiotope, suggesting that this kind of feeding mode, known to occur in present-day reefs, already was realized 50 million years ago.

PAULIV, V.E. & MARTINELLI, A.G. & FRANCISCHINI, H. & DENTZIEN-DIAS, P. & SOARES, M.B. & SCHULTZ, C.L. & RIBEIRO, A.M. (2017): The first Western Gondwanan species of *Triodus* Jordan 1849: A new Xenacanthiformes (Chondrichthyes) from the late Paleozoic of Southern Brazil. *Journal of South American Earth Sciences, 80: 482-493*

New species: *Triodus richterae*

Abstract: *Triodus* is a well-known genus of Xenacanthiformes, previously recorded from the late Bashkirian (Lower Pennsylvanian, Carboniferous) to the middle Artinskian (Cisuralian, Permian), mainly from Laurasian deposits (Europe and USA). For the first time, this genus is recorded from the Western Gondwana, based on isolated teeth that are referred to *Triodus richterae* sp. nov. The new species were found associated with other shark teeth (another xenacanthiforms and a possible euselachian), palaeoniscoid teeth and scales, labyrinthodont teeth, tetrapod bony remains, macroscopic charcoal and leaf fragments. This fossil assemblage was collected in a conglomerate layer from the Barro Alto site (São Gabriel municipality, Rio Grande do Sul State, Brazil), with an estimated Capitanian age, from the Morro Pelado Member, Rio do Rasto Formation, Paraná Basin. The new species has teeth with an almost oval base and the aboral surface has a smooth concavity and a rounded to horseshoe-shaped basal tubercle. The coronal surface of these teeth has a tricuspid crown, a rhomboid-shaped coronal button with rounded edges with a lingually directed shaft and some oral foramina predominantly situated at the lingual margin of the base and flanking the lingual shaft. The lateral cusps bear a variable number of non-branching vertical cristae, distributed from the apex to their proximal portion, making the transversal section of these cusps asterisk-shaped. Microstructurally, these teeth have both base and cusps composed of orthodentine with an opened pulp cavity. *T. richterae* sp. nov. represents the youngest species of *Triodus*, considering it comes from Capitanian (late Guadalupian) beds, which are at least 15 Ma younger than *T. kraetschmeri*, the previously youngest species of this genus. The depositional interpretation, as well as the fossil assemblage in the type locality of the new species and of the Rio do Rasto Formation as a whole, indicates another freshwater record for xenacanthid sharks.

POLLERSPÖCK, J. & STRAUBE, N. (2017): A new deep-sea elasmobranch fauna form the Central Paratethys (Neuhofener Beds, Mitterdorf, near Passau, Germany, Early Miocene, Middle Burdigalian). *Zitteliana, 90: 27–53*

New genus: *Pseudoapristurus*

New species: *Pseudoapristurus nonstriatus*

Abstract: In this study, a diverse fauna of fossil elasmobranch teeth from the Early Miocene (Middle Burdigalian) is analysed. The fossil diversity strongly resembles extant deep-water shark and ray assemblages. The fossils were collected from the Upper Marine Molasse of the lower Ottnangian in the Neuhofener Beds location, Mitterdorf, Germany. The collection site is a clay pit in between the Lower Bavarian villages Fürstenzell and Schmidham. The sample revealed 14 shark and four ray species. We present the first record of fossils assigned to taxa *Nanocetorhinus tuberculatus, Deania* and *Apristurus* from Germany. In addition, we describe a hitherto unknown genus and species of shark, *Pseudoapristurus nonstriatus* gen. et sp. nov., based on fossil teeth. The documented diversity is compared to both extant and fossil records of neoselachian deep-water diversities, and it is evident that this Miocene fauna is very similar in composition to indo-pacific deep-water assemblages.

SHIMADA, K. & CHANDLER, R.E. & LAM, O.L.T. & TANAKA, T. & WARD, D.J. (2017): A new elusive otodontid shark (Lamniformes: Otodontidae) from the lower Miocene, and comments on the taxonomy of otodontid genera, including the 'megatoothed' clade. *Historical Biology, 29 (5): 704-714*

New genus: *Megalolamna*

New species: *Megalolamna paradoxodon*

Abstract: We describe a new large otodontid lamniform shark, *Megalolamna paradoxodon* gen. nov. et sp. nov., chronostratigraphically restricted to the early Miocene (Aquitanian–Burdigalian). This new species is based on isolated teeth found from five globally distributed localities: the Jewett Sand in southern California, USA; the Pungo River Formation of North Carolina, USA; the Chilcatay Formation of Peru; the Oi Formation in Mie Prefecture, Japan; and the O'oshimojo Formation in Nagano Prefecture, Japan. Extrapolations based on available published data on modern macrophagous lamniforms suggest that the largest specimen of *M. paradoxodon* gen. nov. et sp. nov. possibly came from an individual that measured at least 3.7 m in total length. All specimens came from deposits in the mid-latitudinal zones representing shallow-water, shelf-type, coastal environments. Its dentition likely exhibited monognathic heterodonty suited for capturing and cutting relatively large prey (e.g. medium-sized fishes). We recommend the genus *Otodus* to include sharks of the 'megatoothed' (e.g. *megalodon*) lineage in order to avoid *Otodus*paraphyly. We also propose the following phylogenetic hypothesis: [*Kenolamna* + [*Cretalamna* + [*Megalolamna* + *Otodus*]]].

UNDERWOOD, C.J. & KOLMANN, M.A. & WARD, D.J. (2017): Paleogene origin of planktivory in the Batoidea. *Journal of Vertebrate Paleontology, in press*

New genus: *Sulcidens*

Abstract: The planktivorous mobulid rays are a sister group to, and descended from, rhinopterid and myliobatid rays that possess a dentition showing adaptations consistent with a specialized durophagous diet. Within the Paleocene and Eocene, there are several taxa that display dentitions apparently transitional between these extreme trophic modalities, in particular the genus *Burnhamia*. The holotype of *Burnhamia daviesi* was studied through X-ray computed tomography (CT) scanning. Digital renderings of this incomplete but articulated jaw and dentition revealed previously unrecognized characters regarding the jaw cartilages and

teeth. In addition, the genus *Sulcidens*, gen. nov., is erected for articulated dentitions from the Paleocene previously assigned to *Myliobatis*. Phylogenetic analyses confirm *Burnhamia* as a sister taxon to the mobulids and the Mobulidae as a sister group to *Rhinoptera*. Shared dental characters between *Burnhamia* and *Sulcidens* likely represent independent origins of planktivory within the rhinopterid-myliobatid clade. The transition from highly specialized durophagous feeding morphologies to the morphology of planktivores is perplexing but was facilitated by a pelagic swimming mode in these rays and, we propose, through subsequent transition from either meiofauna-feeding or pelagic fish-feeding to pelagic planktivory.

UNDERWOOD, C.J. & CLAESON, K.M. (2017): The Late Jurassic ray *Kimmerobatis etchesi* gen. et sp. nov. and the Jurassic radiation of the Batoidea. *Proceedings of the Geologists' Association, in press*

New genus: *Kimmerobatis*

New species: *Kimmerobatis etchesi*

Abstract: The laminated marine mudstones of the Late Jurassic of Kimmeridge, southern England, yield two exceptionally well-preserved partial skeletons of a previously unrecognised species of early batoid. These are described as a new genus and species, *Kimmerobatis etchesi* gen. et sp. nov. which has a general “guitarfish” bauplan as in all other batoids known from the Jurassic. This species possesses a combination of primitive characters such as centra present within the majority of the synarcual and antorbital cartilages that fail to reach the pectoral skeleton along with more derived characters, such as the lack of fin spines. Until now, little study has been carried out on the affinities of Jurassic batoids, despite their key role in understanding batoid evolution. Results from parsimony and likelihood phylogenetic reconstruction indicates that the whole-bodied Jurassic batoids *Spathobatis*, *Belemnobatis*, and *Kimmerobatis* gen. nov. form their own clade, Spathobatidae, and do not lend support to a monophyletic “Rhinobatidae”. Among Jurassic batoids, *Kimmerobatis* gen. nov. is most derived, but with derived characters being independently acquired compared to modern batoids (e.g. presence of a postpelvic process). The inclusion of whole bodied Jurassic fossils have generated a more resolved hypothesis of batoid evolution throughout the Cretaceous and into the Cenozoic.

3.3 Descriptions of extant genera/species

Types in Google map
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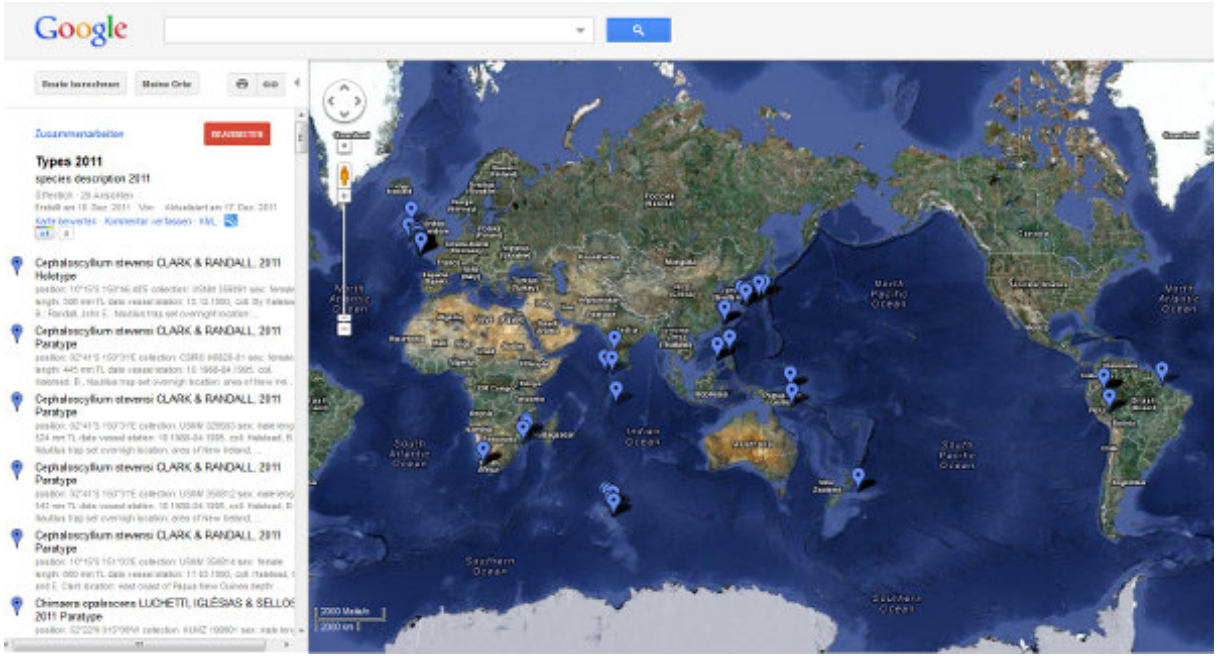

3.3.1 List of new extant genera

No new extant genera in 2017!

3.3.2 List of new extant species

Apristurus yangi	WHITE, MANA & NAYLOR, 2017	(Carcharhiniformes: Pentanchidae)
Bythaelurus vivaldii	WEIGMANN & KASCHNER, 2017	(Carcharhiniformes: Pentanchidae)
Centrophorus lesliei	WHITE, EBERT & NAYLOR, 2017	(Squaliformes: Centrophoridae)
Centrophorus longipinnis	WHITE, EBERT & NAYLOR, 2017	(Squaliformes: Centrophoridae)
Chimaera buccanigella	CLERKIN, EBERT & KEMPER, 2017	(Chimaeriformes: Chimaeridae)
Chimaera didierae	CLERKIN, EBERT & KEMPER, 2017	(Chimaeriformes: Chimaeridae)
Chimaera willwatchi	CLERKIN, EBERT & KEMPER, 2017	(Chimaeriformes: Chimaeridae)
Etmopterus lailae	EBERT, PAPASTAMATIOU, KAJIURA & WETHERBEE, 2017	(Squaliformes: Etmopteridae)
Etmopterus samadiae	WHITE & EBERT & MANA, CORRIGAN, 2017	(Squaliformes: Etmopteridae)
Gymnura lessae	YOKOTA & DE CARVALHO, 2017	(Myliobatiformes: Gymnuridae)

Gymnura sereti	YOKOTA & DE CARVALHO, 2017	(Myliobatiformes: Gymnuridae)
Hydrolagus erithacus	WALOVICH, EBERT & KEMPER, 2017	(Chimaeriformes: Chimaeridae)
Neotrygon bobwardi	BORSA, ARLYZA, HOAREAU & SHEN, 2017	(Myliobatiformes: Dasyatidae)
Neotrygon malaccensis	BORSA, ARLYZA, HOAREAU & SHEN, 2017	(Myliobatiformes: Dasyatidae)
Neotrygon moluccensis	BORSA, ARLYZA, HOAREAU & SHEN, 2017	(Myliobatiformes: Dasyatidae)
Neotrygon vali	BORSA, 2017	(Myliobatiformes: Dasyatidae)
Neotrygon westpapuensis	BORSA, ARLYZA, HOAREAU & SHEN, 2017	(Myliobatiformes: Dasyatidae)
Notoraja sereti	WHITE, LAST & MANA, 2017	(Rajiformes: Arhynchobatidae)
Potamotrygon adamastor	FONTENELLE & DE CARVALHO, 2017	(Rajiformes: Potamotrygonidae)
Potamotrygon amazona	FONTENELLE & DE CARVALHO, 2017	(Rajiformes: Potamotrygonidae)
Potamotrygon garmani	FONTENELLE & DE CARVALHO, 2017	(Rajiformes: Potamotrygonidae)
Rhinobatos austini	EBERT & GON, 2017	(Rhinopristiformes: Rhinobatidae)
Squalus bassi	VIANA, DE CARVALHO & EBERT, 2017	(Squaliformes: Squalidae)
Squalus mahia	VIANA, LISHER & DE CARVALHO, 2017	(Squaliformes: Squalidae)
Squalus margaretsmithae	VIANA, LISHER & DE CARVALHO, 2017	(Squaliformes: Squalidae)

3.3.3 Biodiversity ***NEW!***

In this newly added chapter of this year's POTY, we are giving an overview of all taxonomically valid chondrichthyan species sorted by the three higher level groups chimaeriforms, selachians and batoids. Based on this data, we present tables providing information on the 20 most researched species of each group and the number of scientific publications on family and order level. Note that the number of publications also includes synonyms and misspellings, information not accessible by regular search operations. If you need individual analysis of data from our database please contact Nico Straube or Jürgen Pollerspöck (juergen.pollerspoeck@shark-references.com or nicolas.straube@shark-references.com).

3.3.3.1 Complete list of taxonomically valid shark species NEW!

Genus	Species	Author	Family	Order	No of records
Carcharhinus	*acronotus*	(POEY, 1860)	Carcharhinidae	Carcharhiniformes	193
Carcharhinus	*albimarginatus*	(RÜPPELL, 1837)	Carcharhinidae	Carcharhiniformes	201
Carcharhinus	*altimus*	(SPRINGER, 1950)	Carcharhinidae	Carcharhiniformes	177
Carcharhinus	*amblyrhynchoides*	(WHITLEY, 1934)	Carcharhinidae	Carcharhiniformes	85
Carcharhinus	*amblyrhynchos*	(BLEEKER, 1856)	Carcharhinidae	Carcharhiniformes	297
Carcharhinus	*amboinensis*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	154
Carcharhinus	*borneensis*	(BLEEKER, 1858)	Carcharhinidae	Carcharhiniformes	24
Carcharhinus	*brachyurus*	(GÜNTHER, 1870)	Carcharhinidae	Carcharhiniformes	301
Carcharhinus	*brevipinna*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	355
Carcharhinus	*cautus*	(WHITLEY, 1945)	Carcharhinidae	Carcharhiniformes	56
Carcharhinus	*coatesi*	(WHITLEY, 1939)	Carcharhinidae	Carcharhiniformes	10
Carcharhinus	*dussumieri*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	132
Carcharhinus	*falciformis*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	606
Carcharhinus	*fitzroyensis*	(WHITLEY, 1943)	Carcharhinidae	Carcharhiniformes	48
Carcharhinus	*galapagensis*	(SNODGRASS & HELLER, 1905)	Carcharhinidae	Carcharhiniformes	179
Carcharhinus	*hemiodon*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	50
Carcharhinus	*humani*	WHITE & WEIGMANN, 2014	Carcharhinidae	Carcharhiniformes	6
Carcharhinus	*isodon*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	115
Carcharhinus	*leiodon*	GARRICK, 1985	Carcharhinidae	Carcharhiniformes	28
Carcharhinus	*leucas*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	747
Carcharhinus	*limbatus*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	726
Carcharhinus	*longimanus*	(POEY, 1861)	Carcharhinidae	Carcharhiniformes	372
Carcharhinus	*macloti*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	130
Carcharhinus	*melanopterus*	(QUOY & GAIMARD, 1824)	Carcharhinidae	Carcharhiniformes	382
Carcharhinus	*obscurus*	(LESUEUR, 1818)	Carcharhinidae	Carcharhiniformes	544
Carcharhinus	*perezii*	(POEY, 1876)	Carcharhinidae	Carcharhiniformes	149
Carcharhinus	*plumbeus*	(NARDO, 1827)	Carcharhinidae	Carcharhiniformes	733
Carcharhinus	*porosus*	(RANZANI, 1839)	Carcharhinidae	Carcharhiniformes	149
Carcharhinus	*sealei*	(PIETSCHMANN, 1913)	Carcharhinidae	Carcharhiniformes	64
Carcharhinus	*signatus*	(POEY, 1868)	Carcharhinidae	Carcharhiniformes	141

Genus	Species	Author	Family	Order	No of records
Carcharhinus	*sorrah*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	235
Carcharhinus	*tilstoni*	(WHITLEY, 1950)	Carcharhinidae	Carcharhiniformes	77
Carcharhinus	*tjutjot*	(BLEEKER, 1852)	Carcharhinidae	Carcharhiniformes	13
Galeocerdo	*cuvier*	(PÉRON & LESUEUR, 1822)	Carcharhinidae	Carcharhiniformes	909
Glyphis	*gangeticus*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	76
Glyphis	*garricki*	COMPAGNO, WHITE & LAST, 2008	Carcharhinidae	Carcharhiniformes	26
Glyphis	*glyphis*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	46
Isogomphodon	*oxyrhynchus*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	46
Lamiopsis	*temminckii*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	55
Lamiopsis	*tephrodes*	(FOWLER, 1905)	Carcharhinidae	Carcharhiniformes	11
Loxodon	*macrorhinus*	MÜLLER & HENLE, 1839	Carcharhinidae	Carcharhiniformes	129
Nasolamia	*velox*	(GILBERT, 1898)	Carcharhinidae	Carcharhiniformes	47
Negaprion	*acutidens*	(RÜPPELL, 1837)	Carcharhinidae	Carcharhiniformes	195
Negaprion	*brevirostris*	(POEY, 1868)	Carcharhinidae	Carcharhiniformes	546
Prionace	*glauca*	(LINNAEUS, 1758)	Carcharhinidae	Carcharhiniformes	1177
Rhizoprionodon	*acutus*	(RÜPPELL, 1837)	Carcharhinidae	Carcharhiniformes	309
Rhizoprionodon	*lalandii*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	110
Rhizoprionodon	*longurio*	(JORDAN & GILBERT, 1882)	Carcharhinidae	Carcharhiniformes	85
Rhizoprionodon	*oligolinx*	SPRINGER, 1964	Carcharhinidae	Carcharhiniformes	64
Rhizoprionodon	*porosus*	(POEY, 1861)	Carcharhinidae	Carcharhiniformes	118
Rhizoprionodon	*taylori*	(OGILBY, 1915)	Carcharhinidae	Carcharhiniformes	77
Rhizoprionodon	*terraenovae*	(RICHARDSON, 1836)	Carcharhinidae	Carcharhiniformes	295
Scoliodon	*laticaudus*	MÜLLER & HENLE, 1838	Carcharhinidae	Carcharhiniformes	171
Scoliodon	*macrorhynchos*	(BLEEKER, 1852)	Carcharhinidae	Carcharhiniformes	15
Triaenodon	*obesus*	(RÜPPELL, 1837)	Carcharhinidae	Carcharhiniformes	278
Chaenogaleus	*macrostoma*	(BLEEKER, 1852)	Hemigaleidae	Carcharhiniformes	77
Hemigaleus	*australiensis*	WHITE, LAST & COMPAGNO, 2005	Hemigaleidae	Carcharhiniformes	28
Hemigaleus	*microstoma*	BLEEKER, 1852	Hemigaleidae	Carcharhiniformes	81
Hemipristis	*elongata*	(KLUNZINGER, 1871)	Hemigaleidae	Carcharhiniformes	139
Paragaleus	*leucolomatus*	COMPAGNO & SMALE, 1985	Hemigaleidae	Carcharhiniformes	12
Paragaleus	*pectoralis*	(GARMAN, 1906)	Hemigaleidae	Carcharhiniformes	39
Paragaleus	*randalli*	COMPAGNO, KRUPP & CARPENTER, 1996	Hemigaleidae	Carcharhiniformes	29

Genus	Species	Author	Family	Order	No of records
Paragaleus	*tengi*	(CHEN, 1963)	Hemigaleidae	Carcharhiniformes	25
Leptocharias	*smithii*	(MÜLLER & HENLE, 1839)	Leptochariidae	Carcharhiniformes	37
Apristurus	*albisoma*	NAKAYA & SÉRET, 1999	Pentanchidae	Carcharhiniformes	11
Apristurus	*ampliceps*	SASAHARA, SATO & NAKAYA, 2008	Pentanchidae	Carcharhiniformes	8
Apristurus	*aphyodes*	NAKAYA & STEHMANN, 1998	Pentanchidae	Carcharhiniformes	24
Apristurus	*australis*	SATO, NAKAYA & YOROZU, 2008	Pentanchidae	Carcharhiniformes	11
Apristurus	*breviventralis*	KAWAUCHI, WEIGMANN & NAKAYA, 2014	Pentanchidae	Carcharhiniformes	3
Apristurus	*brunneus*	(GILBERT, 1892)	Pentanchidae	Carcharhiniformes	64
Apristurus	*bucephalus*	WHITE, LAST & POGONOSKI, 2008	Pentanchidae	Carcharhiniformes	4
Apristurus	*canutus*	SPRINGER & HEEMSTRA, 1979	Pentanchidae	Carcharhiniformes	15
Apristurus	*exsanguis*	SATO, NAKAYA & STEWART, 1999	Pentanchidae	Carcharhiniformes	12
Apristurus	*fedorovi*	DOLGANOV, 1983	Pentanchidae	Carcharhiniformes	18
Apristurus	*garricki*	SATO, STEWART & NAKAYA, 2013	Pentanchidae	Carcharhiniformes	3
Apristurus	*gibbosus*	MENG, CHU & LI, 1985	Pentanchidae	Carcharhiniformes	10
Apristurus	*herklotsi*	(FOWLER, 1934)	Pentanchidae	Carcharhiniformes	34
Apristurus	*indicus*	(BRAUER, 1906)	Pentanchidae	Carcharhiniformes	31
Apristurus	*internatus*	DENG, XIONG & ZHAN, 1988	Pentanchidae	Carcharhiniformes	6
Apristurus	*investigatoris*	(MISRA, 1962)	Pentanchidae	Carcharhiniformes	14
Apristurus	*japonicus*	NAKAYA, 1975	Pentanchidae	Carcharhiniformes	22
Apristurus	*kampae*	TAYLOR, 1972	Pentanchidae	Carcharhiniformes	31
Apristurus	*laurussonii*	(SAEMUNDSSON, 1922)	Pentanchidae	Carcharhiniformes	72
Apristurus	*longicephalus*	NAKAYA, 1975	Pentanchidae	Carcharhiniformes	33
Apristurus	*macrorhynchus*	(TANAKA, 1909)	Pentanchidae	Carcharhiniformes	32
Apristurus	*macrostomus*	CHU, MENG & LI, 1985	Pentanchidae	Carcharhiniformes	12
Apristurus	*manis*	(SPRINGER, 1979)	Pentanchidae	Carcharhiniformes	36
Apristurus	*melanoasper*	IGLÉSIAS, NAKAYA & STEHMANN, 2004	Pentanchidae	Carcharhiniformes	31
Apristurus	*microps*	(GILCHRIST, 1922)	Pentanchidae	Carcharhiniformes	40
Apristurus	*micropterygeus*	MENG, CHU & LI, 1986	Pentanchidae	Carcharhiniformes	9
Apristurus	*nakayai*	IGLÉSIAS, 2012	Pentanchidae	Carcharhiniformes	2
Apristurus	*nasutus*	DE BUEN, 1959	Pentanchidae	Carcharhiniformes	28
Apristurus	*parvipinnis*	SPRINGER & HEEMSTRA, 1979	Pentanchidae	Carcharhiniformes	28

Genus	Species	Author	Family	Order	No of records
Apristurus	*pinguis*	DENG, XIONG & ZHAN, 1983	Pentanchidae	Carcharhiniformes	15
Apristurus	*platyrhynchus*	(TANAKA, 1909)	Pentanchidae	Carcharhiniformes	51
Apristurus	*profundorum*	(GOODE & BEAN, 1896)	Pentanchidae	Carcharhiniformes	48
Apristurus	*riveri*	BIGELOW & SCHROEDER, 1944	Pentanchidae	Carcharhiniformes	24
Apristurus	*saldanha*	(BARNARD, 1925)	Pentanchidae	Carcharhiniformes	28
Apristurus	*sibogae*	(WEBER, 1913)	Pentanchidae	Carcharhiniformes	15
Apristurus	*sinensis*	CHU & HU, 1981	Pentanchidae	Carcharhiniformes	20
Apristurus	*spongiceps*	(GILBERT, 1905)	Pentanchidae	Carcharhiniformes	19
Apristurus	*stenseni*	(SPRINGER, 1979)	Pentanchidae	Carcharhiniformes	8
Apristurus	*yangi*	WHITE, MANA & NAYLOR, 2017	Pentanchidae	Carcharhiniformes	1
Asymbolus	*analis*	(OGILBY, 1885)	Pentanchidae	Carcharhiniformes	38
Asymbolus	*funebris*	COMPAGNO, STEVENS & LAST, 1999	Pentanchidae	Carcharhiniformes	6
Asymbolus	*galacticus*	SÉRET & LAST, 2008	Pentanchidae	Carcharhiniformes	4
Asymbolus	*occiduus*	LAST, GOMON & GLEDHILL, 1999	Pentanchidae	Carcharhiniformes	6
Asymbolus	*pallidus*	LAST, GOMON & GLEDHILL, 1999	Pentanchidae	Carcharhiniformes	12
Asymbolus	*parvus*	COMPAGNO, STEVENS & LAST, 1999	Pentanchidae	Carcharhiniformes	11
Asymbolus	*rubiginosus*	LAST, GOMON & GLEDHILL, 1999	Pentanchidae	Carcharhiniformes	21
Asymbolus	*submaculatus*	COMPAGNO, STEVENS & LAST, 1999	Pentanchidae	Carcharhiniformes	6
Asymbolus	*vincenti*	(ZIETZ, 1908)	Pentanchidae	Carcharhiniformes	29
Bythaelurus	*alcockii*	(GARMAN, 1913)	Pentanchidae	Carcharhiniformes	12
Bythaelurus	*bachi*	WEIGMANN, EBERT, CLERKIN, STEHMANN & NAYLOR, 2016	Pentanchidae	Carcharhiniformes	1
Bythaelurus	*canescens*	(GÜNTHER, 1878)	Pentanchidae	Carcharhiniformes	36
Bythaelurus	*clevai*	(SÉRET, 1987)	Pentanchidae	Carcharhiniformes	8
Bythaelurus	*dawsoni*	(SPRINGER, 1971)	Pentanchidae	Carcharhiniformes	23
Bythaelurus	*giddingsi*	McCOSKER, LONG & BALDWIN, 2012	Pentanchidae	Carcharhiniformes	5
Bythaelurus	*hispidus*	(ALCOCK, 1891)	Pentanchidae	Carcharhiniformes	43
Bythaelurus	*immaculatus*	(CHU & MENG, 1982)	Pentanchidae	Carcharhiniformes	13
Bythaelurus	*incanus*	LAST & STEVENS, 2008	Pentanchidae	Carcharhiniformes	5
Bythaelurus	*lutarius*	(SPRINGER & D'AUBREY, 1972)	Pentanchidae	Carcharhiniformes	24
Bythaelurus	*naylori*	EBERT & CLERKIN, 2015	Pentanchidae	Carcharhiniformes	3

Genus	Species	Author	Family	Order	No of records
Bythaelurus	*tenuicephalus*	KASCHNER, WEIGMANN & THIEL, 2015	Pentanchidae	Carcharhiniformes	4
Bythaelurus	*vivaldii*	WEIGMANN & KASCHNER, 2017	Pentanchidae	Carcharhiniformes	1
Cephalurus	*cephalus*	(GILBERT, 1892)	Pentanchidae	Carcharhiniformes	40
Figaro	*boardmani*	(WHITLEY, 1928)	Pentanchidae	Carcharhiniformes	48
Figaro	*striatus*	GLEDHILL, LAST & WHITE, 2008	Pentanchidae	Carcharhiniformes	6
Galeus	*antillensis*	SPRINGER, 1979	Pentanchidae	Carcharhiniformes	14
Galeus	*arae*	(NICHOLS, 1927)	Pentanchidae	Carcharhiniformes	28
Galeus	*atlanticus*	(VAILLANT, 1888)	Pentanchidae	Carcharhiniformes	45
Galeus	*cadenati*	SPRINGER, 1966	Pentanchidae	Carcharhiniformes	18
Galeus	*corriganae*	WHITE, MANA & NAYLOR, 2016	Pentanchidae	Carcharhiniformes	1
Galeus	*eastmani*	(JORDAN & SNYDER, 1904)	Pentanchidae	Carcharhiniformes	42
Galeus	*gracilis*	COMPAGNO & STEVENS, 1993	Pentanchidae	Carcharhiniformes	14
Galeus	*longirostris*	TACHIKAWA & TANIUCHI, 1987	Pentanchidae	Carcharhiniformes	10
Galeus	*melastomus*	RAFINESQUE, 1810	Pentanchidae	Carcharhiniformes	322
Galeus	*mincaronei*	SOTO, 2001	Pentanchidae	Carcharhiniformes	9
Galeus	*murinus*	(COLLETT, 1904)	Pentanchidae	Carcharhiniformes	38
Galeus	*nipponensis*	NAKAYA, 1975	Pentanchidae	Carcharhiniformes	27
Galeus	*piperatus*	SPRINGER & WAGNER, 1966	Pentanchidae	Carcharhiniformes	23
Galeus	*polli*	CADENAT, 1959	Pentanchidae	Carcharhiniformes	38
Galeus	*priapus*	SÉRET & LAST, 2008	Pentanchidae	Carcharhiniformes	6
Galeus	*sauteri*	(JORDAN & RICHARDSON, 1909)	Pentanchidae	Carcharhiniformes	30
Galeus	*schultzi*	SPRINGER, 1979	Pentanchidae	Carcharhiniformes	13
Galeus	*springeri*	KONSTANTINOU & COZZI, 1998	Pentanchidae	Carcharhiniformes	12
Halaelurus	*boesemani*	SPRINGER & D'AUBREY, 1972	Pentanchidae	Carcharhiniformes	22
Halaelurus	*buergeri*	(MÜLLER & HENLE, 1838)	Pentanchidae	Carcharhiniformes	50
Halaelurus	*lineatus*	BASS, D'AUBREY & KISTNASAMY, 1975	Pentanchidae	Carcharhiniformes	20
Halaelurus	*maculosus*	WHITE, LAST & STEVENS, 2007	Pentanchidae	Carcharhiniformes	4
Halaelurus	*natalensis*	(REGAN, 1904)	Pentanchidae	Carcharhiniformes	37
Halaelurus	*quagga*	(ALCOCK, 1899)	Pentanchidae	Carcharhiniformes	26
Halaelurus	*sellus*	WHITE, LAST & STEVENS, 2007	Pentanchidae	Carcharhiniformes	5

Genus	Species	Author	Family	Order	No of records
Haploblepharus	*edwardsii*	(SCHINZ, 1822)	Pentanchidae	Carcharhiniformes	59
Haploblepharus	*fuscus*	SMITH, 1950	Pentanchidae	Carcharhiniformes	30
Haploblepharus	*kistnasamyi*	HUMAN & COMPAGNO, 2006	Pentanchidae	Carcharhiniformes	8
Haploblepharus	*pictus*	(MÜLLER & HENLE, 1838)	Pentanchidae	Carcharhiniformes	31
Holohalaelurus	*favus*	HUMAN, 2006	Pentanchidae	Carcharhiniformes	9
Holohalaelurus	*grennian*	HUMAN, 2006	Pentanchidae	Carcharhiniformes	7
Holohalaelurus	*melanostigma*	(NORMAN, 1939)	Pentanchidae	Carcharhiniformes	7
Holohalaelurus	*punctatus*	(GILCHRIST, 1914)	Pentanchidae	Carcharhiniformes	32
Holohalaelurus	*regani*	(GILCHRIST, 1922)	Pentanchidae	Carcharhiniformes	44
Parmaturus	*albimarginatus*	SÉRET & LAST, 2007	Pentanchidae	Carcharhiniformes	3
Parmaturus	*albipenis*	SÉRET & LAST, 2007	Pentanchidae	Carcharhiniformes	4
Parmaturus	*bigus*	SÉRET & LAST, 2007	Pentanchidae	Carcharhiniformes	7
Parmaturus	*campechiensis*	SPRINGER, 1979	Pentanchidae	Carcharhiniformes	14
Parmaturus	*lanatus*	SÉRET & LAST, 2007	Pentanchidae	Carcharhiniformes	4
Parmaturus	*macmillani*	HARDY, 1985	Pentanchidae	Carcharhiniformes	12
Parmaturus	*melanobranchus*	(CHAN, 1966)	Pentanchidae	Carcharhiniformes	20
Parmaturus	*pilosus*	GARMAN, 1906	Pentanchidae	Carcharhiniformes	27
Parmaturus	*xaniurus*	(GILBERT, 1892)	Pentanchidae	Carcharhiniformes	56
Pentanchus	*profundicolus*	SMITH & RADCLIFFE, 1912	Pentanchidae	Carcharhiniformes	20
Ctenacis	*fehlmanni*	(SPRINGER, 1968)	Proscylliidae	Carcharhiniformes	22
Eridacnis	*barbouri*	(BIGELOW & SCHROEDER, 1944)	Proscylliidae	Carcharhiniformes	15
Eridacnis	*radcliffei*	SMITH, 1913	Proscylliidae	Carcharhiniformes	55
Eridacnis	*sinuans*	(SMITH, 1957)	Proscylliidae	Carcharhiniformes	20
Proscyllium	*habereri*	HILGENDORF, 1904	Proscylliidae	Carcharhiniformes	62
Proscyllium	*magnificum*	LAST & VONGPANICH, 2004	Proscylliidae	Carcharhiniformes	7
Gollum	*attenuatus*	(GARRICK, 1954)	Pseudotriakidae	Carcharhiniformes	33
Gollum	*suluensis*	LAST & GAUDIANO, 2011	Pseudotriakidae	Carcharhiniformes	2
Planonasus	*parini*	WEIGMANN, STEHMANN & THIEL, 2013	Pseudotriakidae	Carcharhiniformes	8
Pseudotriakis	*microdon*	DE BRITO CAPELLO, 1868	Pseudotriakidae	Carcharhiniformes	120
Atelomycterus	*baliensis*	WHITE, LAST & DHARMADI, 2005	Scyliorhinidae	Carcharhiniformes	9
Atelomycterus	*erdmanni*	FAHMI & WHITE, 2015	Scyliorhinidae	Carcharhiniformes	2

Genus	Species	Author	Family	Order	No of records
Atelomycterus	*fasciatus*	COMPAGNO & STEVENS, 1993	Scyliorhinidae	Carcharhiniformes	17
Atelomycterus	*macleayi*	WHITLEY, 1939	Scyliorhinidae	Carcharhiniformes	19
Atelomycterus	*marmoratus*	(BENNETT, 1830)	Scyliorhinidae	Carcharhiniformes	100
Atelomycterus	*marnkalha*	JACOBSEN & BENNETT, 2007	Scyliorhinidae	Carcharhiniformes	10
Aulohalaelurus	*kanakorum*	SÉRET, 1990	Scyliorhinidae	Carcharhiniformes	11
Aulohalaelurus	*labiosus*	(WAITE, 1905)	Scyliorhinidae	Carcharhiniformes	29
Cephaloscyllium	*albipinnum*	LAST, MOTOMURA & WHITE, 2008	Scyliorhinidae	Carcharhiniformes	10
Cephaloscyllium	*cooki*	LAST, SÉRET & WHITE, 2008	Scyliorhinidae	Carcharhiniformes	4
Cephaloscyllium	*fasciatum*	CHAN, 1966	Scyliorhinidae	Carcharhiniformes	30
Cephaloscyllium	*formosanum*	TENG, 1962	Scyliorhinidae	Carcharhiniformes	4
Cephaloscyllium	*hiscosellum*	WHITE & EBERT, 2008	Scyliorhinidae	Carcharhiniformes	8
Cephaloscyllium	*isabellum*	(BONNATERRE, 1788)	Scyliorhinidae	Carcharhiniformes	54
Cephaloscyllium	*laticeps*	(DUMÉRIL, 1853)	Scyliorhinidae	Carcharhiniformes	55
Cephaloscyllium	*pictum*	LAST, SÉRET & WHITE, 2008	Scyliorhinidae	Carcharhiniformes	5
Cephaloscyllium	*sarawakensis*	YANO, AHMED, GAMBANG, HAMAD IDRIS, SOLAHUDDIN & AZNAN, 2005	Scyliorhinidae	Carcharhiniformes	13
Cephaloscyllium	*signourum*	LAST, SÉRET & WHITE, 2008	Scyliorhinidae	Carcharhiniformes	4
Cephaloscyllium	*silasi*	(TALWAR, 1974)	Scyliorhinidae	Carcharhiniformes	22
Cephaloscyllium	*speccum*	LAST, SÉRET & WHITE, 2008	Scyliorhinidae	Carcharhiniformes	8
Cephaloscyllium	*stevensi*	CLARK & RANDALL, 2011	Scyliorhinidae	Carcharhiniformes	2
Cephaloscyllium	*sufflans*	(REGAN, 1921)	Scyliorhinidae	Carcharhiniformes	33
Cephaloscyllium	*umbratile*	JORDAN & FOWLER, 1903	Scyliorhinidae	Carcharhiniformes	58
Cephaloscyllium	*variegatum*	LAST & WHITE, 2008	Scyliorhinidae	Carcharhiniformes	14
Cephaloscyllium	*ventriosum*	(GARMAN, 1880)	Scyliorhinidae	Carcharhiniformes	89
Cephaloscyllium	*zebrum*	LAST & WHITE, 2008	Scyliorhinidae	Carcharhiniformes	5
Poroderma	*africanum*	(GMELIN, 1789)	Scyliorhinidae	Carcharhiniformes	62
Poroderma	*pantherinum*	(MÜLLER & HENLE, 1838)	Scyliorhinidae	Carcharhiniformes	62
Schroederichthys	*bivius*	(MÜLLER & HENLE, 1838)	Scyliorhinidae	Carcharhiniformes	64
Schroederichthys	*chilensis*	(GUICHENOT, 1848)	Scyliorhinidae	Carcharhiniformes	50
Schroederichthys	*maculatus*	SPRINGER, 1966	Scyliorhinidae	Carcharhiniformes	23
Schroederichthys	*saurisqualus*	SOTO, 2001	Scyliorhinidae	Carcharhiniformes	9

Genus	Species	Author	Family	Order	No of records
Schroederichthys	*tenuis*	SPRINGER, 1966	Scyliorhinidae	Carcharhiniformes	20
Scyliorhinus	*boa*	GOODE & BEAN, 1896	Scyliorhinidae	Carcharhiniformes	31
Scyliorhinus	*cabofriensis*	SOARES, GOMES & DE CARVALHO, 2016	Scyliorhinidae	Carcharhiniformes	2
Scyliorhinus	*canicula*	(LINNAEUS, 1758)	Scyliorhinidae	Carcharhiniformes	1066
Scyliorhinus	*capensis*	(MÜLLER & HENLE, 1838)	Scyliorhinidae	Carcharhiniformes	53
Scyliorhinus	*cervigoni*	MAURIN & BONNET, 1970	Scyliorhinidae	Carcharhiniformes	15
Scyliorhinus	*comoroensis*	COMPAGNO, 1988	Scyliorhinidae	Carcharhiniformes	7
Scyliorhinus	*garmani*	(FOWLER, 1934)	Scyliorhinidae	Carcharhiniformes	14
Scyliorhinus	*haeckelii*	(MIRANDA RIBEIRO, 1907)	Scyliorhinidae	Carcharhiniformes	52
Scyliorhinus	*hesperius*	SPRINGER, 1966	Scyliorhinidae	Carcharhiniformes	27
Scyliorhinus	*meadi*	SPRINGER, 1966	Scyliorhinidae	Carcharhiniformes	23
Scyliorhinus	*retifer*	(GARMAN, 1881)	Scyliorhinidae	Carcharhiniformes	73
Scyliorhinus	*stellaris*	(LINNAEUS, 1758)	Scyliorhinidae	Carcharhiniformes	301
Scyliorhinus	*tokubee*	SHIRAI, HAGIWARA & NAKAYA, 1992	Scyliorhinidae	Carcharhiniformes	8
Scyliorhinus	*torazame*	(TANAKA, 1908)	Scyliorhinidae	Carcharhiniformes	86
Scyliorhinus	*torrei*	HOWELL RIVERO, 1936	Scyliorhinidae	Carcharhiniformes	19
Scyliorhinus	*ugoi*	SOARES, GADIG & GOMES, 2015	Scyliorhinidae	Carcharhiniformes	2
Eusphyra	*blochii*	(CUVIER, 1816)	Sphyrnidae	Carcharhiniformes	132
Sphyrna	*corona*	SPRINGER, 1940	Sphyrnidae	Carcharhiniformes	41
Sphyrna	*couardi*	CADENAT, 1951	Sphyrnidae	Carcharhiniformes	9
Sphyrna	*gilberti*	QUATTRO, DRIGGERS, GRADY, ULRICH & ROBERTS, 2013	Sphyrnidae	Carcharhiniformes	3
Sphyrna	*lewini*	(GRIFFITH & SMITH, 1834)	Sphyrnidae	Carcharhiniformes	792
Sphyrna	*media*	SPRINGER, 1940	Sphyrnidae	Carcharhiniformes	67
Sphyrna	*mokarran*	(RÜPPELL, 1837)	Sphyrnidae	Carcharhiniformes	383
Sphyrna	*tiburo*	(LINNAEUS, 1758)	Sphyrnidae	Carcharhiniformes	404
Sphyrna	*tudes*	(VALENCIENNES, 1822)	Sphyrnidae	Carcharhiniformes	141
Sphyrna	*zygaena*	(LINNAEUS, 1758)	Sphyrnidae	Carcharhiniformes	639
Furgaleus	*macki*	(WHITLEY, 1943)	Triakidae	Carcharhiniformes	51
Galeorhinus	*galeus*	(LINNAEUS, 1758)	Triakidae	Carcharhiniformes	619
Gogolia	*filewoodi*	COMPAGNO, 1973	Triakidae	Carcharhiniformes	12
Hemitriakis	*abdita*	COMPAGNO & STEVENS, 1993	Triakidae	Carcharhiniformes	13

Genus	Species	Author	Family	Order	No of records
Hemitriakis	*complicofasciata*	TAKAHASHI & NAKAYA, 2004	Triakidae	Carcharhiniformes	9
Hemitriakis	*falcata*	COMPAGNO & STEVENS, 1993	Triakidae	Carcharhiniformes	18
Hemitriakis	*indroyonoi*	WHITE, COMPAGNO & DHARMADI, 2009	Triakidae	Carcharhiniformes	3
Hemitriakis	*japanica*	(MÜLLER & HENLE, 1839)	Triakidae	Carcharhiniformes	63
Hemitriakis	*leucoperiptera*	HERRE, 1923	Triakidae	Carcharhiniformes	17
Hypogaleus	*hyugaensis*	(MIYOSI, 1939)	Triakidae	Carcharhiniformes	44
Iago	*garricki*	FOURMANOIR & RIVATON, 1979	Triakidae	Carcharhiniformes	23
Iago	*omanensis*	(NORMAN, 1939)	Triakidae	Carcharhiniformes	73
Mustelus	*albipinnis*	CASTRO-AGUIRRE, ATUNA-MENDIOLA, GONZÁZ-ACOSTA & DE LA CRUZ-AGÜERO, 2005	Triakidae	Carcharhiniformes	14
Mustelus	*antarcticus*	GÜNTHER, 1870	Triakidae	Carcharhiniformes	153
Mustelus	*asterias*	CLOQUET, 1819	Triakidae	Carcharhiniformes	144
Mustelus	*californicus*	GILL, 1864	Triakidae	Carcharhiniformes	88
Mustelus	*canis*	(MITCHILL, 1815)	Triakidae	Carcharhiniformes	375
Mustelus	*dorsalis*	GILL, 1864	Triakidae	Carcharhiniformes	43
Mustelus	*fasciatus*	(GARMAN, 1913)	Triakidae	Carcharhiniformes	30
Mustelus	*griseus*	PIETSCHMANN, 1908	Triakidae	Carcharhiniformes	60
Mustelus	*henlei*	(GILL, 1863)	Triakidae	Carcharhiniformes	127
Mustelus	*higmani*	SPRINGER & LOWE, 1963	Triakidae	Carcharhiniformes	47
Mustelus	*lenticulatus*	PHILLIPPS, 1932	Triakidae	Carcharhiniformes	59
Mustelus	*lunulatus*	JORDAN & GILBERT, 1882	Triakidae	Carcharhiniformes	83
Mustelus	*manazo*	BLEEKER, 1854	Triakidae	Carcharhiniformes	159
Mustelus	*mangalorensis*	CUBELIO, REMYA & KURUP, 2011	Triakidae	Carcharhiniformes	4
Mustelus	*mento*	COPE, 1877	Triakidae	Carcharhiniformes	42
Mustelus	*minicanis*	HEEMSTRA, 1997	Triakidae	Carcharhiniformes	12
Mustelus	*mosis*	HEMPRICH & EHRENBERG, 1899	Triakidae	Carcharhiniformes	64
Mustelus	*mustelus*	(LINNAEUS, 1758)	Triakidae	Carcharhiniformes	390
Mustelus	*norrisi*	SPRINGER, 1939	Triakidae	Carcharhiniformes	61
Mustelus	*palumbes*	SMITH, 1957	Triakidae	Carcharhiniformes	26
Mustelus	*punctulatus*	RISSO, 1827	Triakidae	Carcharhiniformes	78
Mustelus	*ravidus*	WHITE & LAST, 2006	Triakidae	Carcharhiniformes	7

Genus	Species	Author	Family	Order	No of records
Mustelus	*schmitti*	SPRINGER, 1939	Triakidae	Carcharhiniformes	115
Mustelus	*sinusmexicanus*	HEEMSTRA, 1997	Triakidae	Carcharhiniformes	15
Mustelus	*stevensi*	WHITE & LAST, 2008	Triakidae	Carcharhiniformes	9
Mustelus	*walkeri*	WHITE & LAST, 2008	Triakidae	Carcharhiniformes	9
Mustelus	*whitneyi*	CHIRICHIGNO, 1973	Triakidae	Carcharhiniformes	18
Mustelus	*widodoi*	WHITE & LAST, 2006	Triakidae	Carcharhiniformes	8
Scylliogaleus	*quecketti*	BOULENGER, 1902	Triakidae	Carcharhiniformes	31
Triakis	*acutipinna*	KATO, 1968	Triakidae	Carcharhiniformes	14
Triakis	*maculata*	KNER & STEINDACHNER, 1867	Triakidae	Carcharhiniformes	30
Triakis	*megalopterus*	(SMITH, 1839)	Triakidae	Carcharhiniformes	44
Triakis	*scyllium*	MÜLLER & HENLE, 1839	Triakidae	Carcharhiniformes	133
Triakis	*semifasciata*	GIRARD, 1855	Triakidae	Carcharhiniformes	231
Heterodontus	*francisci*	(GIRARD, 1855)	Heterodontidae	Heterodontiformes	167
Heterodontus	*galeatus*	(GÜNTHER, 1870)	Heterodontidae	Heterodontiformes	40
Heterodontus	*japonicus*	MACLAY & MACLEAY, 1884	Heterodontidae	Heterodontiformes	73
Heterodontus	*mexicanus*	TAYLOR & CASTRO-AGUIRRE, 1972	Heterodontidae	Heterodontiformes	37
Heterodontus	*omanensis*	BALDWIN, 2005	Heterodontidae	Heterodontiformes	7
Heterodontus	*portusjacksoni*	(MEYER, 1793)	Heterodontidae	Heterodontiformes	214
Heterodontus	*quoyi*	(FRÉMINVILLE, 1840)	Heterodontidae	Heterodontiformes	34
Heterodontus	*ramalheira*	(SMITH, 1949)	Heterodontidae	Heterodontiformes	24
Heterodontus	*zebra*	(GRAY, 1831)	Heterodontidae	Heterodontiformes	57
Alopias	*pelagicus*	NAKAMURA, 1935	Alopiidae	Lamniformes	252
Alopias	*superciliosus*	(LOWE, 1841)	Alopiidae	Lamniformes	404
Alopias	*vulpinus*	(BONNATERRE, 1788)	Alopiidae	Lamniformes	587
Cetorhinus	*maximus*	(GUNNERUS, 1765)	Cetorhinidae	Lamniformes	550
Carcharodon	*carcharias*	(LINNAEUS, 1758)	Lamnidae	Lamniformes	1162
Isurus	*oxyrinchus*	RAFINESQUE, 1810	Lamnidae	Lamniformes	1027
Isurus	*paucus*	GUITART MANDAY, 1966	Lamnidae	Lamniformes	191
Lamna	*ditropis*	HUBBS & FOLLETT, 1947	Lamnidae	Lamniformes	156
Lamna	*nasus*	(BONNATERRE, 1788)	Lamnidae	Lamniformes	452
Megachasma	*pelagios*	TAYLOR, COMPAGNO & STRUHSAKER, 1983	Megachasmidae	Lamniformes	126
Mitsukurina	*owstoni*	JORDAN, 1898	Mitsukurinidae	Lamniformes	124

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Carcharias	*taurus*	RAFINESQUE, 1810	Odontaspididae	Lamniformes	588
Odontaspis	*ferox*	(RISSO, 1810)	Odontaspididae	Lamniformes	198
Odontaspis	*noronhai*	(MAUL, 1955)	Odontaspididae	Lamniformes	57
Pseudocarcharias	*kamoharai*	(MATSUBARA, 1936)	Pseudocarchariidae	Lamniformes	181
Brachaelurus	*colcloughi*	OGILBY, 1908	Brachaeluridae	Orectolobiformes	27
Brachaelurus	*waddi*	(BLOCH & SCHNEIDER, 1801)	Brachaeluridae	Orectolobiformes	43
Ginglymostoma	*cirratum*	(BONNATERRE, 1788)	Ginglymostomatidae	Orectolobiformes	480
Ginglymostoma	*unami*	DEL MORAL-FLORES, RAMÍREZ-ANTONIO, ANGULO & PÉREZ-PONCE DE LEÓN, 2015	Ginglymostomatidae	Orectolobiformes	4
Nebrius	*ferrugineus*	(LESSON, 1831)	Ginglymostomatidae	Orectolobiformes	199
Pseudoginglymostoma	*brevicaudatum*	(GÜNTHER, 1867)	Ginglymostomatidae	Orectolobiformes	25
Chiloscyllium	*arabicum*	GUBANOV, 1980	Hemiscylliidae	Orectolobiformes	35
Chiloscyllium	*burmensis*	DINGERKUS & DE FINO, 1983	Hemiscylliidae	Orectolobiformes	9
Chiloscyllium	*caeruleopunctatum*	PELLEGRIN, 1914	Hemiscylliidae	Orectolobiformes	6
Chiloscyllium	*griseum*	MÜLLER & HENLE, 1838	Hemiscylliidae	Orectolobiformes	104
Chiloscyllium	*hasseltii*	BLEEKER, 1852	Hemiscylliidae	Orectolobiformes	29
Chiloscyllium	*indicum*	(GMELIN, 1789)	Hemiscylliidae	Orectolobiformes	110
Chiloscyllium	*plagiosum*	(BENNETT, 1830)	Hemiscylliidae	Orectolobiformes	161
Chiloscyllium	*punctatum*	MÜLLER & HENLE, 1838	Hemiscylliidae	Orectolobiformes	191
Hemiscyllium	*freycineti*	(QUOY & GAIMARD, 1824)	Hemiscylliidae	Orectolobiformes	25
Hemiscyllium	*galei*	ALLEN & ERDMANN, 2008	Hemiscylliidae	Orectolobiformes	5
Hemiscyllium	*hallstromi*	WHITLEY, 1967	Hemiscylliidae	Orectolobiformes	14
Hemiscyllium	*halmahera*	ALLEN, ERDMANN & DUDGEON, 2013	Hemiscylliidae	Orectolobiformes	3
Hemiscyllium	*henryi*	ALLEN & ERDMANN, 2008	Hemiscylliidae	Orectolobiformes	5
Hemiscyllium	*michaeli*	ALLEN & DUDGEON, 2010	Hemiscylliidae	Orectolobiformes	5
Hemiscyllium	*ocellatum*	(BONNATERRE, 1788)	Hemiscylliidae	Orectolobiformes	117
Hemiscyllium	*strahani*	WHITLEY, 1967	Hemiscylliidae	Orectolobiformes	17
Hemiscyllium	*trispeculare*	RICHARDSON, 1843	Hemiscylliidae	Orectolobiformes	34
Eucrossorhinus	*dasypogon*	(BLEEKER, 1867)	Orectolobidae	Orectolobiformes	41
Orectolobus	*floridus*	LAST & CHIDLOW, 2008	Orectolobidae	Orectolobiformes	10
Orectolobus	*halei*	WHITLEY, 1940	Orectolobidae	Orectolobiformes	27

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Orectolobus	*hutchinsi*	LAST, CHIDLOW & COMPAGNO, 2006	Orectolobidae	Orectolobiformes	21
Orectolobus	*japonicus*	REGAN, 1906	Orectolobidae	Orectolobiformes	52
Orectolobus	*leptolineatus*	LAST, WHITE & POGONOSKI, 2010	Orectolobidae	Orectolobiformes	10
Orectolobus	*maculatus*	(BONNATERRE, 1788)	Orectolobidae	Orectolobiformes	122
Orectolobus	*ornatus*	(DE VIS, 1883)	Orectolobidae	Orectolobiformes	83
Orectolobus	*parvimaculatus*	LAST & CHIDLOW, 2008	Orectolobidae	Orectolobiformes	14
Orectolobus	*reticulatus*	LAST, POGONOSKI & WHITE, 2008	Orectolobidae	Orectolobiformes	6
Orectolobus	*wardi*	WHITLEY, 1939	Orectolobidae	Orectolobiformes	19
Sutorectus	*tentaculatus*	(PETERS, 1864)	Orectolobidae	Orectolobiformes	35
Cirrhoscyllium	*expolitum*	SMITH & RADCLIFFE, 1913	Parascylliidae	Orectolobiformes	20
Cirrhoscyllium	*formosanum*	TENG, 1959	Parascylliidae	Orectolobiformes	16
Cirrhoscyllium	*japonicum*	KAMOHARA, 1943	Parascylliidae	Orectolobiformes	17
Parascyllium	*collare*	RAMSAY & OGILBY, 1888	Parascylliidae	Orectolobiformes	23
Parascyllium	*elongatum*	LAST & STEVENS, 2008	Parascylliidae	Orectolobiformes	4
Parascyllium	*ferrugineum*	MCCULLOCH, 1911	Parascylliidae	Orectolobiformes	31
Parascyllium	*sparsimaculatum*	GOTO & LAST, 2002	Parascylliidae	Orectolobiformes	8
Parascyllium	*variolatum*	(DUMÉRIL, 1853)	Parascylliidae	Orectolobiformes	28
Rhincodon	*typus*	SMITH, 1828	Rhincodontidae	Orectolobiformes	653
Stegostoma	*fasciatum*	(HERMANN, 1783)	Stegostomatidae	Orectolobiformes	236
Echinorhinus	*brucus*	(BONNATERRE, 1788)	Echinorhinidae	Echinorhiniformes	216
Echinorhinus	*cookei*	PIETSCHMANN, 1928	Echinorhinidae	Echinorhiniformes	97
Chlamydoselachus	*africana*	EBERT & COMPAGNO, 2009	Chlamydoselachidae	Hexanchiformes	9
Chlamydoselachus	*anguineus*	GARMAN, 1884	Chlamydoselachidae	Hexanchiformes	194
Heptranchias	*perlo*	(BONNATERRE, 1788)	Hexanchidae	Hexanchiformes	324
Hexanchus	*griseus*	(BONNATERRE, 1788)	Hexanchidae	Hexanchiformes	566
Hexanchus	*nakamurai*	TENG, 1962	Hexanchidae	Hexanchiformes	120
Notorynchus	*cepedianus*	(PÉRON, 1807)	Hexanchidae	Hexanchiformes	311
Pliotrema	*warreni*	REGAN, 1906	Pristiophoridae	Pristiophoriformes	46
Pristiophorus	*cirratus*	(LATHAM, 1794)	Pristiophoridae	Pristiophoriformes	73
Pristiophorus	*delicatus*	YEARSLEY, LAST & WHITE, 2008	Pristiophoridae	Pristiophoriformes	8
Pristiophorus	*japonicus*	GÜNTHER, 1870	Pristiophoridae	Pristiophoriformes	61

Genus	Species	Author	Family	Order	No of records
Pristiophorus	*lanae*	EBERT & WILMS, 2013	Pristiophoridae	Pristiophoriformes	4
Pristiophorus	*nancyae*	EBERT & CAILLIET, 2011	Pristiophoridae	Pristiophoriformes	11
Pristiophorus	*nudipinnis*	GÜNTHER, 1870	Pristiophoridae	Pristiophoriformes	52
Pristiophorus	*schroederi*	SPRINGER & BULLIS, 1960	Pristiophoridae	Pristiophoriformes	19
Centrophorus	*atromarginatus*	GARMAN, 1913	Centrophoridae	Squaliformes	40
Centrophorus	*granulosus*	(BLOCH & SCHNEIDER, 1801)	Centrophoridae	Squaliformes	433
Centrophorus	*harrissoni*	MCCULLOCH, 1915	Centrophoridae	Squaliformes	30
Centrophorus	*isodon*	(CHU, MENG & LIU, 1981)	Centrophoridae	Squaliformes	21
Centrophorus	*lesliei*	WHITE, EBERT & NAYLOR, 2017	Centrophoridae	Squaliformes	1
Centrophorus	*longipinnis*	WHITE, EBERT & NAYLOR, 2017	Centrophoridae	Squaliformes	1
Centrophorus	*moluccensis*	BLEEKER, 1860	Centrophoridae	Squaliformes	92
Centrophorus	*seychellorum*	BARANES, 2003	Centrophoridae	Squaliformes	5
Centrophorus	*squamosus*	(BONNATERRE, 1788)	Centrophoridae	Squaliformes	269
Centrophorus	*tessellatus*	GARMAN, 1906	Centrophoridae	Squaliformes	30
Centrophorus	*uyato*	(RAFINESQUE, 1810)	Centrophoridae	Squaliformes	104
Centrophorus	*westraliensis*	WHITE, EBERT & COMPAGNO, 2008	Centrophoridae	Squaliformes	5
Centrophorus	*zeehaani*	WHITE, EBERT & COMPAGNO, 2008	Centrophoridae	Squaliformes	21
Deania	*calcea*	(LOWE, 1839)	Centrophoridae	Squaliformes	246
Deania	*hystricosa*	(GARMAN, 1906)	Centrophoridae	Squaliformes	41
Deania	*profundorum*	(SMITH & RADCLIFFE, 1912)	Centrophoridae	Squaliformes	100
Deania	*quadrispinosa*	(MCCULLOCH, 1915)	Centrophoridae	Squaliformes	39
Dalatias	*licha*	(BONNATERRE, 1788)	Dalatiidae	Squaliformes	376
Euprotomicroides	*zantedeschia*	HULLEY & PENRITH, 1966	Dalatiidae	Squaliformes	26
Euprotomicrus	*bispinatus*	(QUOY & GAIMARD, 1824)	Dalatiidae	Squaliformes	88
Heteroscymnoides	*marleyi*	FOWLER, 1934	Dalatiidae	Squaliformes	32
Isistius	*brasiliensis*	(QUOY & GAIMARD, 1824)	Dalatiidae	Squaliformes	191
Isistius	*plutodus*	GARRICK & SPRINGER, 1964	Dalatiidae	Squaliformes	43
Mollisquama	*parini*	DOLGANOV, 1984	Dalatiidae	Squaliformes	18
Squaliolus	*aliae*	TENG, 1959	Dalatiidae	Squaliformes	39
Squaliolus	*laticaudus*	SMITH & RADCLIFFE, 1912	Dalatiidae	Squaliformes	80
Aculeola	*nigra*	DE BUEN, 1959	Etmopteridae	Squaliformes	37

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Centroscyllium	*excelsum*	SHIRAI & NAKAYA, 1990	Etmopteridae	Squaliformes	10
Centroscyllium	*fabricii*	(REINHARDT, 1825)	Etmopteridae	Squaliformes	143
Centroscyllium	*granulatum*	GÜNTHER, 1887	Etmopteridae	Squaliformes	25
Centroscyllium	*kamoharai*	ABE, 1966	Etmopteridae	Squaliformes	30
Centroscyllium	*nigrum*	GARMAN, 1899	Etmopteridae	Squaliformes	48
Centroscyllium	*ornatum*	(ALCOCK, 1889)	Etmopteridae	Squaliformes	23
Centroscyllium	*ritteri*	JORDAN & FOWLER, 1903	Etmopteridae	Squaliformes	39
Etmopterus	*alphus*	EBERT, STRAUBE, LESLIE & WEIGMANN, 2016	Etmopteridae	Squaliformes	2
Etmopterus	*benchleyi*	VÁSQUEZ, EBERT & LONG, 2015	Etmopteridae	Squaliformes	2
Etmopterus	*bigelowi*	SHIRAI & TACHIKAWA, 1993	Etmopteridae	Squaliformes	43
Etmopterus	*brachyurus*	SMITH & RADCLIFFE, 1912	Etmopteridae	Squaliformes	49
Etmopterus	*bullisi*	BIGELOW & SCHROEDER, 1957	Etmopteridae	Squaliformes	24
Etmopterus	*burgessi*	SCHAAF-DA SILVA & EBERT, 2006	Etmopteridae	Squaliformes	7
Etmopterus	*carteri*	SPRINGER & BURGESS, 1985	Etmopteridae	Squaliformes	12
Etmopterus	*caudistigmus*	LAST, BURGESS & SÉRET, 2002	Etmopteridae	Squaliformes	7
Etmopterus	*compagnoi*	FRICKE & KOCH, 1990	Etmopteridae	Squaliformes	12
Etmopterus	*decacuspidatus*	CHAN, 1966	Etmopteridae	Squaliformes	12
Etmopterus	*dianthus*	LAST, BURGESS & SÉRET, 2002	Etmopteridae	Squaliformes	13
Etmopterus	*dislineatus*	LAST, BURGESS & SÉRET, 2002	Etmopteridae	Squaliformes	14
Etmopterus	*evansi*	LAST, BURGESS & SÉRET, 2002	Etmopteridae	Squaliformes	7
Etmopterus	*fusus*	LAST, BURGESS & SÉRET, 2002	Etmopteridae	Squaliformes	10
Etmopterus	*gracilispinis*	KREFFT, 1968	Etmopteridae	Squaliformes	53
Etmopterus	*granulosus*	(GÜNTHER, 1880)	Etmopteridae	Squaliformes	140
Etmopterus	*hillianus*	(POEY, 1861)	Etmopteridae	Squaliformes	43
Etmopterus	*joungi*	KNUCKEY, EBERT & BURGESS, 2011	Etmopteridae	Squaliformes	5
Etmopterus	*lailae*	EBERT, PAPASTAMATIOU, KAJIURA & WETHERBEE, 2017	Etmopteridae	Squaliformes	1
Etmopterus	*litvinovi*	PARIN & KOTLYAR, 1990	Etmopteridae	Squaliformes	9
Etmopterus	*lucifer*	JORDAN & SNYDER, 1902	Etmopteridae	Squaliformes	137
Etmopterus	*molleri*	(WHITLEY, 1939)	Etmopteridae	Squaliformes	43

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Etmopterus	*perryi*	SPRINGER & BURGESS, 1985	Etmopteridae	Squaliformes	17
Etmopterus	*polli*	BIGELOW, SCHROEDER & SPRINGER, 1953	Etmopteridae	Squaliformes	22
Etmopterus	*princeps*	COLLETT, 1904	Etmopteridae	Squaliformes	97
Etmopterus	*pseudosqualiolus*	LAST, BURGESS & SÉRET, 2002	Etmopteridae	Squaliformes	10
Etmopterus	*pusillus*	(LOWE, 1839)	Etmopteridae	Squaliformes	161
Etmopterus	*pycnolepis*	KOTLYAR, 1990	Etmopteridae	Squaliformes	9
Etmopterus	*robinsi*	SCHOFIELD & BURGESS, 1997	Etmopteridae	Squaliformes	14
Etmopterus	*samadiae*	WHITE & EBERT & MANA, CORRIGAN, 2017	Etmopteridae	Squaliformes	1
Etmopterus	*schmidti*	DOLGANOV, 1986	Etmopteridae	Squaliformes	2
Etmopterus	*schultzi*	BIGELOW, SCHROEDER & SPRINGER, 1953	Etmopteridae	Squaliformes	33
Etmopterus	*sculptus*	EBERT, COMPAGNO & DE VRIES, 2011	Etmopteridae	Squaliformes	7
Etmopterus	*sentosus*	BASS, D'AUBREY & KISTNASAMY, 1976	Etmopteridae	Squaliformes	16
Etmopterus	*sheikoi*	(DOLGANOV, 1986)	Etmopteridae	Squaliformes	22
Etmopterus	*spinax*	(LINNAEUS, 1758)	Etmopteridae	Squaliformes	375
Etmopterus	*splendidus*	YANO, 1988	Etmopteridae	Squaliformes	22
Etmopterus	*tasmaniensis*	MYAGKOV & PAVLOV, 1986	Etmopteridae	Squaliformes	1
Etmopterus	*unicolor*	(ENGELHARDT, 1912)	Etmopteridae	Squaliformes	37
Etmopterus	*viator*	STRAUBE, 2011	Etmopteridae	Squaliformes	7
Etmopterus	*villosus*	GILBERT, 1905	Etmopteridae	Squaliformes	18
Etmopterus	*virens*	BIGELOW, SCHROEDER & SPRINGER, 1953	Etmopteridae	Squaliformes	35
Trigonognathus	*kabeyai*	MOCHIZUKI & OHE, 1990	Etmopteridae	Squaliformes	30
Oxynotus	*bruniensis*	(OGILBY, 1893)	Oxynotidae	Squaliformes	43
Oxynotus	*caribbaeus*	CERVIGÓN, 1961	Oxynotidae	Squaliformes	20
Oxynotus	*centrina*	(LINNAEUS, 1758)	Oxynotidae	Squaliformes	184
Oxynotus	*japonicus*	YANO & MUROFUSHI, 1985	Oxynotidae	Squaliformes	12
Oxynotus	*paradoxus*	FRADE, 1929	Oxynotidae	Squaliformes	43
Centroscymnus	*coelolepis*	BARBOSA DU BOCAGE & DE BRITO CAPELLO, 1864	Somniosidae	Squaliformes	238
Centroscymnus	*owstonii*	GARMAN, 1906	Somniosidae	Squaliformes	135
Centroselachus	*crepidater*	(BARBOSA DU BOCAGE & DE BRITO CAPELLO, 1864)	Somniosidae	Squaliformes	172

Genus	Species	Author	Family	Order	No of records
Scymnodalatias	*albicauda*	TANIUCHI & GARRICK, 1986	Somniosidae	Squaliformes	24
Scymnodalatias	*garricki*	KUKUEV & KONOVALENKO, 1988	Somniosidae	Squaliformes	18
Scymnodalatias	*oligodon*	KUKUEV & KONOVALENKO, 1988	Somniosidae	Squaliformes	10
Scymnodalatias	*sherwoodi*	(ARCHEY, 1921)	Somniosidae	Squaliformes	23
Scymnodon	*ichiharai*	YANO & TANAKA, 1984	Somniosidae	Squaliformes	21
Scymnodon	*macracanthus*	(REGAN, 1906)	Somniosidae	Squaliformes	29
Scymnodon	*plunketi*	(WAITE, 1910)	Somniosidae	Squaliformes	59
Scymnodon	*ringens*	BARBOSA DU BOCAGE & DE BRITO CAPELLO, 1864	Somniosidae	Squaliformes	74
Somniosus	*antarcticus*	WHITLEY, 1939	Somniosidae	Squaliformes	30
Somniosus	*longus*	(TANAKA, 1912)	Somniosidae	Squaliformes	19
Somniosus	*microcephalus*	(BLOCH & SCHNEIDER, 1801)	Somniosidae	Squaliformes	238
Somniosus	*pacificus*	BIGELOW & SCHROEDER, 1944	Somniosidae	Squaliformes	106
Somniosus	*rostratus*	(RISSO, 1827)	Somniosidae	Squaliformes	84
Zameus	*squamulosus*	(GÜNTHER, 1877)	Somniosidae	Squaliformes	159
Cirrhigaleus	*asper*	(MERRETT, 1973)	Squalidae	Squaliformes	48
Cirrhigaleus	*australis*	WHITE, LAST & STEVENS, 2007	Squalidae	Squaliformes	13
Cirrhigaleus	*barbifer*	TANAKA, 1912	Squalidae	Squaliformes	42
Squalus	*acanthias*	LINNAEUS, 1758	Squalidae	Squaliformes	1462
Squalus	*acutipinnis*	REGAN, 1908	Squalidae	Squaliformes	10
Squalus	*albicaudus*	VIANA, DE CARVALHO & GOMES, 2016	Squalidae	Squaliformes	2
Squalus	*albifrons*	LAST, WHITE & STEVENS, 2007	Squalidae	Squaliformes	14
Squalus	*altipinnis*	LAST, WHITE & STEVENS, 2007	Squalidae	Squaliformes	6
Squalus	*bahiensis*	VIANA, DE CARVALHO & GOMES, 2016	Squalidae	Squaliformes	2
Squalus	*bassi*	VIANA, DE CARVALHO & EBERT, 2017	Squalidae	Squaliformes	1
Squalus	*blainville*	(RISSO, 1827)	Squalidae	Squaliformes	196
Squalus	*brevirostris*	TANAKA, 1917	Squalidae	Squaliformes	29
Squalus	*bucephalus*	LAST, SÉRET & POGONOSKI, 2007	Squalidae	Squaliformes	4
Squalus	*chloroculus*	LAST, WHITE & MOTOMURA, 2007	Squalidae	Squaliformes	14
Squalus	*crassispinus*	LAST, EDMUNDS & YEARSLEY, 2007	Squalidae	Squaliformes	11
Squalus	*cubensis*	HOWELL RIVERO, 1936	Squalidae	Squaliformes	84

Genus	Species	Author	Family	Order	No of records
Squalus	*edmundsi*	WHITE, LAST & STEVENS, 2007	Squalidae	Squaliformes	14
Squalus	*formosus*	WHITE & IGLÉSIAS, 2011	Squalidae	Squaliformes	7
Squalus	*grahami*	WHITE, LAST & STEVENS, 2007	Squalidae	Squaliformes	13
Squalus	*griffini*	PHILLIPPS, 1931	Squalidae	Squaliformes	20
Squalus	*hemipinnis*	WHITE, LAST & YEARSLEY, 2007	Squalidae	Squaliformes	13
Squalus	*japonicus*	ISHIKAWA, 1908	Squalidae	Squaliformes	39
Squalus	*lalannei*	BARANES, 2003	Squalidae	Squaliformes	5
Squalus	*lobularis*	VIANA, DE CARVALHO & GOMES, 2016	Squalidae	Squaliformes	2
Squalus	*mahia*	VIANA, LISHER & DE CARVALHO, 2017	Squalidae	Squaliformes	1
Squalus	*margaretsmithae*	VIANA, LISHER & DE CARVALHO, 2017	Squalidae	Squaliformes	1
Squalus	*megalops*	(MACLEAY, 1881)	Squalidae	Squaliformes	179
Squalus	*melanurus*	FOURMANOIR & RIVATON, 1979	Squalidae	Squaliformes	17
Squalus	*mitsukurii*	JORDAN & SNYDER, 1903	Squalidae	Squaliformes	156
Squalus	*montalbani*	WHITLEY, 1931	Squalidae	Squaliformes	27
Squalus	*nasutus*	LAST, MARSHALL & WHITE, 2007	Squalidae	Squaliformes	14
Squalus	*notocaudatus*	LAST, WHITE & STEVENS, 2007	Squalidae	Squaliformes	6
Squalus	*quasimodo*	VIANA, DE CARVALHO & GOMES, 2016	Squalidae	Squaliformes	2
Squalus	*rancureli*	FOURMANOIR & RIVATON, 1979	Squalidae	Squaliformes	12
Squalus	*raoulensis*	DUFFY & LAST, 2007	Squalidae	Squaliformes	7
Squalus	*suckleyi*	(GIRARD, 1855)	Squalidae	Squaliformes	93
Squatina	*aculeata*	CUVIER, 1829	Squatinidae	Squatiniformes	71
Squatina	*africana*	REGAN, 1908	Squatinidae	Squatiniformes	40
Squatina	*albipunctata*	LAST & WHITE, 2008	Squatinidae	Squatiniformes	13
Squatina	*argentina*	(MARINI, 1930)	Squatinidae	Squatiniformes	40
Squatina	*armata*	(PHILIPPI, 1887)	Squatinidae	Squatiniformes	24
Squatina	*australis*	REGAN, 1906	Squatinidae	Squatiniformes	44
Squatina	*caillieti*	WALSH, EBERT & COMPAGNO, 2011	Squatinidae	Squatiniformes	2
Squatina	*californica*	AYRES, 1859	Squatinidae	Squatiniformes	119
Squatina	*david*	ACERO, TAVERA, ANGUILA & HERNÁNDEZ, 2016	Squatinidae	Squatiniformes	2
Squatina	*dumeril*	LESUEUR, 1818	Squatinidae	Squatiniformes	87

Genus	Species	Author	Family	Order	No of records
Squatina	*formosa*	SHEN & TING, 1972	Squatinidae	Squatiniformes	22
Squatina	*guggenheim*	MARINI, 1936	Squatinidae	Squatiniformes	77
Squatina	*heteroptera*	CASTRO-AGUIRRE, ESPINOSA PÉREZ & HUIDOBRO CAMPOS, 2007	Squatinidae	Squatiniformes	4
Squatina	*japonica*	BLEEKER, 1858	Squatinidae	Squatiniformes	53
Squatina	*legnota*	LAST & WHITE, 2008	Squatinidae	Squatiniformes	8
Squatina	*mexicana*	CASTRO-AGUIRRE, ESPINOSA PÉREZ & HUIDOBRO CAMPOS, 2007	Squatinidae	Squatiniformes	4
Squatina	*nebulosa*	REGAN, 1906	Squatinidae	Squatiniformes	36
Squatina	*occulta*	VOOREN & DA SILVA, 1991	Squatinidae	Squatiniformes	29
Squatina	*oculata*	BONAPARTE, 1840	Squatinidae	Squatiniformes	68
Squatina	*pseudocellata*	LAST & WHITE, 2008	Squatinidae	Squatiniformes	8
Squatina	*squatina*	(LINNAEUS, 1758)	Squatinidae	Squatiniformes	277
Squatina	*tergocellata*	MCCULLOCH, 1914	Squatinidae	Squatiniformes	24
Squatina	*tergocellatoides*	CHEN, 1963	Squatinidae	Squatiniformes	21

3.3.3.2 "Top 20" most studied shark species NEW!

Genus	Species	Author	Family	Order	No of records
Squalus	*acanthias*	LINNAEUS, 1758	Squalidae	Squaliformes	1462
Prionace	*glauca*	(LINNAEUS, 1758)	Carcharhinidae	Carcharhiniformes	1177
Carcharodon	*carcharias*	(LINNAEUS, 1758)	Lamnidae	Lamniformes	1162
Scyliorhinus	*canicula*	(LINNAEUS, 1758)	Scyliorhinidae	Carcharhiniformes	1066
Isurus	*oxyrinchus*	RAFINESQUE, 1810	Lamnidae	Lamniformes	1027
Galeocerdo	*cuvier*	(PÉRON & LESUEUR, 1822)	Carcharhinidae	Carcharhiniformes	909
Sphyrna	*lewini*	(GRIFFITH & SMITH, 1834)	Sphyrnidae	Carcharhiniformes	792
Carcharhinus	*leucas*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	747
Carcharhinus	*plumbeus*	(NARDO, 1827)	Carcharhinidae	Carcharhiniformes	733
Carcharhinus	*limbatus*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	726
Rhincodon	*typus*	SMITH, 1828	Rhincodontidae	Orectolobiformes	653
Sphyrna	*zygaena*	(LINNAEUS, 1758)	Sphyrnidae	Carcharhiniformes	639
Galeorhinus	*galeus*	(LINNAEUS, 1758)	Triakidae	Carcharhiniformes	619
Carcharhinus	*falciformis*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	606
Carcharias	*taurus*	RAFINESQUE, 1810	Odontaspididae	Lamniformes	588
Alopias	*vulpinus*	(BONNATERRE, 1788)	Alopiidae	Lamniformes	587
Hexanchus	*griseus*	(BONNATERRE, 1788)	Hexanchidae	Hexanchiformes	566
Cetorhinus	*maximus*	(GUNNERUS, 1765)	Cetorhinidae	Lamniformes	550
Negaprion	*brevirostris*	(POEY, 1868)	Carcharhinidae	Carcharhiniformes	546
Carcharhinus	*obscurus*	(LESUEUR, 1818)	Carcharhinidae	Carcharhiniformes	544

Order/Family	Number of Species	Number of Records
Carcharhiniformes	**287**	**24564**
Carcharhinidae	55	12264
Hemigaleidae	8	430
Leptochariidae	1	37
Pentanchidae	108	2526
Proscylliidae	6	181
Pseudotriakidae	4	163
Scyliorhinidae	49	2684
Sphyrnidae	10	2611
Triakidae	46	3668
Echinorhiniformes	**2**	**313**
Echinorhinidae	2	313
Heterodontiformes	**9**	**653**
Heterodontidae	9	653
Hexanchiformes	**6**	**1524**
Chlamydoselachidae	2	203
Hexanchidae	4	1321
Lamniformes	**15**	**6055**
Alopiidae	3	1243
Cetorhinidae	1	550
Lamnidae	5	2988
Megachasmidae	1	126
Mitsukurinidae	1	124
Odontaspididae	3	843
Pseudocarchariidae	1	181
Orectolobiformes	**45**	**3124**
Brachaeluridae	2	70
Ginglymostomatidae	4	708
Hemiscylliidae	17	870
Orectolobidae	12	440
Parascylliidae	8	147
Rhincodontidae	1	653
Stegostomatidae	1	236
Pristiophoriformes	**8**	**274**
Pristiophoridae	8	274
Squaliformes	**135**	**8614**
Centrophoridae	17	1478
Dalatiidae	9	893
Etmopteridae	51	1936
Oxynotidae	5	302
Somniosidae	17	1439
Squalidae	36	2566
Squatiniformes	**23**	**1073**
Squatinidae	23	1073
Total:	**530**	**46194**

3.3.3.3 Complete list of taxonomically valid ray and skate species NEW!

Genus	Species	Author	Family	Order	No of records
Aetobatus	*flagellum*	(BLOCH & SCHNEIDER, 1801)	Aetobatidae	Myliobatiformes	63
Aetobatus	*laticeps*	(GILL, 1865)	Aetobatidae	Myliobatiformes	13
Aetobatus	*narinari*	(EUPHRASEN, 1790)	Aetobatidae	Myliobatiformes	396
Aetobatus	*narutobiei*	WHITE, FURUMITSU & YAMAGUCHI, 2013	Aetobatidae	Myliobatiformes	6
Aetobatus	*ocellatus*	(KUHL, 1823)	Aetobatidae	Myliobatiformes	82
Bathytoshia	*brevicaudata*	(HUTTON, 1875)	Dasyatidae	Myliobatiformes	121
Bathytoshia	*centroura*	(MITCHILL, 1815)	Dasyatidae	Myliobatiformes	211
Bathytoshia	*lata*	(GARMAN, 1880)	Dasyatidae	Myliobatiformes	113
Brevitrygon	*heterura*	(BLEEKER, 1852)	Dasyatidae	Myliobatiformes	4
Brevitrygon	*imbricata*	(BLOCH & SCHNEIDER, 1801)	Dasyatidae	Myliobatiformes	78
Brevitrygon	*javaensis*	(LAST & WHITE, 2013)	Dasyatidae	Myliobatiformes	4
Brevitrygon	*walga*	(MÜLLER & HENLE, 1841)	Dasyatidae	Myliobatiformes	71
Dasyatis	*chrysonota*	(SMITH, 1828)	Dasyatidae	Myliobatiformes	32
Dasyatis	*gigantea*	(LINDBERG, 1930)	Dasyatidae	Myliobatiformes	11
Dasyatis	*hastata*	(DEKAY, 1842)	Dasyatidae	Myliobatiformes	34
Dasyatis	*hypostigma*	SANTOS & CARVALHO, 2004	Dasyatidae	Myliobatiformes	28
Dasyatis	*marmorata*	(STEINDACHNER, 1892)	Dasyatidae	Myliobatiformes	44
Dasyatis	*pastinaca*	(LINNAEUS, 1758)	Dasyatidae	Myliobatiformes	314
Dasyatis	*tortonesei*	CAPAPÉ, 1975	Dasyatidae	Myliobatiformes	31
Fluvitrygon	*kittipongi*	(VIDTHAYANON & ROBERTS, 2005)	Dasyatidae	Myliobatiformes	12
Fluvitrygon	*oxyrhynchus*	(SAUVAGE, 1878)	Dasyatidae	Myliobatiformes	39
Fluvitrygon	*signifer*	(COMPAGNO & ROBERTS, 1982)	Dasyatidae	Myliobatiformes	46
Fontitrygon	*colarensis*	(SANTOS, GOMES & CHARVET-ALMEIDA, 2004)	Dasyatidae	Myliobatiformes	11
Fontitrygon	*garouaensis*	(STAUCH & BLANC, 1962)	Dasyatidae	Myliobatiformes	24
Fontitrygon	*geijskesi*	(BOESEMAN, 1948)	Dasyatidae	Myliobatiformes	29
Fontitrygon	*margarita*	(GÜNTHER, 1870)	Dasyatidae	Myliobatiformes	37
Fontitrygon	*margaritella*	(COMPAGNO & ROBERTS, 1984)	Dasyatidae	Myliobatiformes	24
Fontitrygon	*ukpam*	(SMITH, 1863)	Dasyatidae	Myliobatiformes	21
Hemitrygon	*akajei*	(MÜLLER & HENLE, 1841)	Dasyatidae	Myliobatiformes	153
Hemitrygon	*bennetti*	(MÜLLER & HENLE, 1841)	Dasyatidae	Myliobatiformes	47
Hemitrygon	*fluviorum*	(OGILBY, 1908)	Dasyatidae	Myliobatiformes	62
Hemitrygon	*izuensis*	(NISHIDA & NAKAYA, 1988)	Dasyatidae	Myliobatiformes	17
Hemitrygon	*laevigata*	CHU, 1960	Dasyatidae	Myliobatiformes	13
Hemitrygon	*laosensis*	(ROBERTS & KARNASUTA, 1987)	Dasyatidae	Myliobatiformes	21
Hemitrygon	*longicauda*	(LAST & WHITE, 2013)	Dasyatidae	Myliobatiformes	4
Hemitrygon	*navarrae*	(STEINDACHNER, 1892)	Dasyatidae	Myliobatiformes	18

Genus	Species	Author	Family	Order	No of records
Hemitrygon	*parvonigra*	(LAST & WHITE, 2008)	Dasyatidae	Myliobatiformes	11
Hemitrygon	*sinensis*	(STEINDACHNER, 1892)	Dasyatidae	Myliobatiformes	12
Himantura	*australis*	LAST, WHITE & NAYLOR, 2016	Dasyatidae	Myliobatiformes	6
Himantura	*leoparda*	MANJAJI-MATSUMOTO & LAST, 2008	Dasyatidae	Myliobatiformes	32
Himantura	*uarnak*	(FORSSKÅL, 1775)	Dasyatidae	Myliobatiformes	217
Himantura	*undulata*	(BLEEKER, 1852)	Dasyatidae	Myliobatiformes	61
Hypanus	*americanus*	(HILDEBRAND & SCHROEDER, 1928)	Dasyatidae	Myliobatiformes	180
Hypanus	*dipterurus*	(JORDAN & GILBERT, 1880)	Dasyatidae	Myliobatiformes	107
Hypanus	*guttatus*	(BLOCH & SCHNEIDER, 1801)	Dasyatidae	Myliobatiformes	107
Hypanus	*longus*	(GARMAN, 1880)	Dasyatidae	Myliobatiformes	88
Hypanus	*marianae*	(GOMES, ROSA & GADIG, 2000)	Dasyatidae	Myliobatiformes	25
Hypanus	*rudis*	(GÜNTHER, 1870)	Dasyatidae	Myliobatiformes	13
Hypanus	*sabinus*	(LESUEUR, 1824)	Dasyatidae	Myliobatiformes	224
Hypanus	*say*	(LESUEUR, 1817)	Dasyatidae	Myliobatiformes	116
Maculabatis	*ambigua*	LAST, BOGORODSKY & ALPERMANN, 2016	Dasyatidae	Myliobatiformes	5
Maculabatis	*arabica*	MANJAJI-MATSUMOTO & LAST, 2016	Dasyatidae	Myliobatiformes	4
Maculabatis	*astra*	(LAST, MANJAJI-MATSUMOTO & POGONOSKI, 2008)	Dasyatidae	Myliobatiformes	16
Maculabatis	*bineeshi*	MANJAJI-MATSUMOTO & LAST, 2016	Dasyatidae	Myliobatiformes	4
Maculabatis	*gerrardi*	(GRAY, 1851)	Dasyatidae	Myliobatiformes	129
Maculabatis	*macrura*	(BLEEKER, 1852)	Dasyatidae	Myliobatiformes	4
Maculabatis	*pastinacoides*	(BLEEKER, 1852)	Dasyatidae	Myliobatiformes	38
Maculabatis	*randalli*	(LAST, MANJAJI-MATSUMOTO & MOORE, 2012)	Dasyatidae	Myliobatiformes	10
Maculabatis	*toshi*	(WHITLEY, 1939)	Dasyatidae	Myliobatiformes	33
Makararaja	*chindwinensis*	ROBERTS, 2007	Dasyatidae	Myliobatiformes	6
Megatrygon	*microps*	(ANNANDALE, 1908)	Dasyatidae	Myliobatiformes	44
Neotrygon	*annotata*	(LAST, 1987)	Dasyatidae	Myliobatiformes	28
Neotrygon	*australiae*	LAST, WHITE & SÉRET, 2016	Dasyatidae	Myliobatiformes	7
Neotrygon	*bobwardi*	BORSA, ARLYZA, HOAREAU & SHEN, 2017	Dasyatidae	Myliobatiformes	1
Neotrygon	*caeruleopunctata*	LAST, WHITE & SÉRET, 2016	Dasyatidae	Myliobatiformes	8
Neotrygon	*kuhlii*	(MÜLLER & HENLE, 1841)	Dasyatidae	Myliobatiformes	219
Neotrygon	*leylandi*	(LAST, 1987)	Dasyatidae	Myliobatiformes	28
Neotrygon	*malaccensis*	BORSA, ARLYZA, HOAREAU & SHEN, 2017	Dasyatidae	Myliobatiformes	1
Neotrygon	*moluccensis*	BORSA, ARLYZA, HOAREAU & SHEN, 2017	Dasyatidae	Myliobatiformes	1

Genus	Species	Author	Family	Order	No of records
Neotrygon	*ningalooensis*	LAST, WHITE, & PUCKRIDGE, 2010	Dasyatidae	Myliobatiformes	8
Neotrygon	*orientale*	LAST, WHITE & SÉRET, 2016	Dasyatidae	Myliobatiformes	7
Neotrygon	*picta*	LAST & WHITE, 2008	Dasyatidae	Myliobatiformes	14
Neotrygon	*trigonoides*	(CASTELNAU, 1873)	Dasyatidae	Myliobatiformes	8
Neotrygon	*vali*	BORSA, 2017	Dasyatidae	Myliobatiformes	1
Neotrygon	*varidens*	(GARMAN, 1885)	Dasyatidae	Myliobatiformes	7
Neotrygon	*westpapuensis*	BORSA, ARLYZA, HOAREAU & SHEN, 2017	Dasyatidae	Myliobatiformes	1
Pastinachus	*ater*	(MACLEAY, 1883)	Dasyatidae	Myliobatiformes	42
Pastinachus	*gracilicaudus*	LAST & MANJAJI-MATSUMOTO, 2010	Dasyatidae	Myliobatiformes	11
Pastinachus	*sephen*	(FORSSKÅL, 1775)	Dasyatidae	Myliobatiformes	237
Pastinachus	*solocirostris*	LAST, MANJAJI & YEARSLEY, 2005	Dasyatidae	Myliobatiformes	18
Pastinachus	*stellurostris*	LAST, FAHMI & NAYLOR, 2010	Dasyatidae	Myliobatiformes	8
Pateobatis	*bleekeri*	(BLYTH, 1860)	Dasyatidae	Myliobatiformes	44
Pateobatis	*fai*	(JORDAN & SEALE, 1906)	Dasyatidae	Myliobatiformes	103
Pateobatis	*hortlei*	(LAST, MANJAJI-MATSUMOTO & KAILOLA, 2006)	Dasyatidae	Myliobatiformes	11
Pateobatis	*jenkinsii*	(ANNANDALE, 1909)	Dasyatidae	Myliobatiformes	76
Pateobatis	*uarnacoides*	(BLEEKER, 1852)	Dasyatidae	Myliobatiformes	59
Pteroplatytrygon	*violacea*	(BONAPARTE, 1832)	Dasyatidae	Myliobatiformes	255
Taeniura	*lessoni*	LAST, WHITE & NAYLOR, 2016	Dasyatidae	Myliobatiformes	4
Taeniura	*lymma*	(FORSSKÅL, 1775)	Dasyatidae	Myliobatiformes	191
Taeniurops	*grabatus*	(GEOFFROY SAINT-HILAIRE, 1817)	Dasyatidae	Myliobatiformes	54
Taeniurops	*meyeni*	(MÜLLER & HENLE, 1841)	Dasyatidae	Myliobatiformes	132
Telatrygon	*acutirostra*	(NISHIDA & NAKAYA, 1988)	Dasyatidae	Myliobatiformes	25
Telatrygon	*biasa*	LAST, WHITE & NAYLOR, 2016	Dasyatidae	Myliobatiformes	4
Telatrygon	*crozieri*	(BLYTH, 1860)	Dasyatidae	Myliobatiformes	3
Telatrygon	*zugei*	(MÜLLER & HENLE, 1841)	Dasyatidae	Myliobatiformes	107
Urogymnus	*acanthobothrium*	LAST, WHITE & KYNE, 2016	Dasyatidae	Myliobatiformes	3
Urogymnus	*asperrimus*	(BLOCH & SCHNEIDER, 1801)	Dasyatidae	Myliobatiformes	124
Urogymnus	*dalyensis*	(LAST & MANJAJI-MATSUMOTO, 2008)	Dasyatidae	Myliobatiformes	14
Urogymnus	*granulatus*	(MACLEAY, 1883)	Dasyatidae	Myliobatiformes	70
Urogymnus	*lobistoma*	(MANJAJI-MATSUMOTO & LAST, 2006)	Dasyatidae	Myliobatiformes	13
Urogymnus	*polylepis*	(BLEEKER, 1852)	Dasyatidae	Myliobatiformes	47
Gymnura	*altavela*	(LINNAEUS, 1758)	Gymnuridae	Myliobatiformes	178
Gymnura	*australis*	(RAMSAY & OGILBY, 1886)	Gymnuridae	Myliobatiformes	37
Gymnura	*crebripunctata*	(PETERS, 1869)	Gymnuridae	Myliobatiformes	31

Genus	Species	Author	Family	Order	No of records
Gymnura	*japonica*	(TEMMINCK & SCHLEGEL, 1850)	Gymnuridae	Myliobatiformes	69
Gymnura	*lessae*	YOKOTA & DE CARVALHO, 2017	Gymnuridae	Myliobatiformes	1
Gymnura	*marmorata*	(COOPER, 1864)	Gymnuridae	Myliobatiformes	77
Gymnura	*micrura*	(BLOCH & SCHNEIDER, 1801)	Gymnuridae	Myliobatiformes	142
Gymnura	*natalensis*	(GILCHRIST & THOMPSON, 1911)	Gymnuridae	Myliobatiformes	31
Gymnura	*poecilura*	(SHAW, 1804)	Gymnuridae	Myliobatiformes	81
Gymnura	*sereti*	YOKOTA & DE CARVALHO, 2017	Gymnuridae	Myliobatiformes	1
Gymnura	*tentaculata*	(MÜLLER & HENLE, 1841)	Gymnuridae	Myliobatiformes	22
Gymnura	*zonura*	(BLEEKER, 1852)	Gymnuridae	Myliobatiformes	40
Hexatrygon	*bickelli*	HEEMSTRA & SMITH, 1980	Hexatrygonidae	Myliobatiformes	48
Mobula	*alfredi*	(KREFFT, 1868)	Mobulidae	Myliobatiformes	102
Mobula	*birostris*	(WALBAUM, 1792)	Mobulidae	Myliobatiformes	330
Mobula	*hypostoma*	(BANCROFT, 1831)	Mobulidae	Myliobatiformes	117
Mobula	*kuhlii*	(MÜLLER & HENLE, 1841)	Mobulidae	Myliobatiformes	139
Mobula	*mobular*	(BONNATERRE, 1788)	Mobulidae	Myliobatiformes	329
Mobula	*munkiana*	NOTARBARTOLO DI SCIARA, 1987	Mobulidae	Myliobatiformes	49
Mobula	*tarapacana*	(PHILIPPI, 1892)	Mobulidae	Myliobatiformes	120
Mobula	*thurstoni*	(LLOYD, 1908)	Mobulidae	Myliobatiformes	123
Aetomylaeus	*asperrimus*	(GILBERT, 1898)	Myliobatidae	Myliobatiformes	18
Aetomylaeus	*bovinus*	(GEOFFROY SAINT-HILAIRE, 1817)	Myliobatidae	Myliobatiformes	127
Aetomylaeus	*caeruleofasciatus*	WHITE, LAST & BAJE, 2015	Myliobatidae	Myliobatiformes	4
Aetomylaeus	*maculatus*	(GRAY, 1834)	Myliobatidae	Myliobatiformes	64
Aetomylaeus	*milvus*	(MÜLLER & HENLE, 1841)	Myliobatidae	Myliobatiformes	34
Aetomylaeus	*nichofii*	(BLOCH & SCHNEIDER, 1801)	Myliobatidae	Myliobatiformes	113
Aetomylaeus	*vespertilio*	(BLEEKER, 1852)	Myliobatidae	Myliobatiformes	57
Myliobatis	*aquila*	(LINNAEUS, 1758)	Myliobatidae	Myliobatiformes	260
Myliobatis	*californica*	GILL, 1865	Myliobatidae	Myliobatiformes	140
Myliobatis	*chilensis*	PHILIPPI, 1892	Myliobatidae	Myliobatiformes	25
Myliobatis	*freminvillei*	LESUEUR, 1824	Myliobatidae	Myliobatiformes	97
Myliobatis	*goodei*	GARMAN, 1885	Myliobatidae	Myliobatiformes	76
Myliobatis	*hamlyni*	OGILBY, 1911	Myliobatidae	Myliobatiformes	23
Myliobatis	*longirostris*	APPLEGATE & FITCH, 1964	Myliobatidae	Myliobatiformes	32
Myliobatis	*peruvianus*	GARMAN, 1913	Myliobatidae	Myliobatiformes	19
Myliobatis	*ridens*	RUOCCO, LUCIFORA, DE ASTARLOA, MABRAGAÑA & DELPIANI, 2012	Myliobatidae	Myliobatiformes	13
Myliobatis	*tenuicaudatus*	HECTOR, 1877	Myliobatidae	Myliobatiformes	86
Myliobatis	*tobijei*	BLEEKER, 1854	Myliobatidae	Myliobatiformes	61
Plesiobatis	*daviesi*	(WALLACE, 1967)	Plesiobatididae	Myliobatiformes	73

Genus	Species	Author	Family	Order	No of records
Styracura	*pacifica*	(BEEBE & TEE-VAN, 1941)	Potamotrygonidae	Myliobatiformes	29
Styracura	*schmardae*	(WERNER, 1904)	Potamotrygonidae	Myliobatiformes	54
Rhinoptera	*bonasus*	(MITCHILL, 1815)	Rhinopteridae	Myliobatiformes	244
Rhinoptera	*brasiliensis*	MÜLLER, 1836	Rhinopteridae	Myliobatiformes	47
Rhinoptera	*javanica*	MÜLLER & HENLE, 1841	Rhinopteridae	Myliobatiformes	114
Rhinoptera	*jayakari*	BOULENGER, 1895	Rhinopteridae	Myliobatiformes	32
Rhinoptera	*marginata*	(GEOFFROY SAINT-HILAIRE, 1817)	Rhinopteridae	Myliobatiformes	53
Rhinoptera	*neglecta*	OGILBY, 1912	Rhinopteridae	Myliobatiformes	31
Rhinoptera	*peli*	BLEEKER, 1863	Rhinopteridae	Myliobatiformes	8
Rhinoptera	*steindachneri*	EVERMANN & JENKINS, 1891	Rhinopteridae	Myliobatiformes	70
Spinilophus	*armatus*	(MÜLLER & HENLE, 1841)	Urolophidae	Myliobatiformes	20
Trygonoptera	*galba*	LAST & YEARSLEY, 2008	Urolophidae	Myliobatiformes	6
Trygonoptera	*imitata*	YEARSLEY, LAST & GOMON, 2008	Urolophidae	Myliobatiformes	11
Trygonoptera	*mucosa*	(WHITLEY, 1939)	Urolophidae	Myliobatiformes	22
Trygonoptera	*ovalis*	LAST & GOMON, 1987	Urolophidae	Myliobatiformes	14
Trygonoptera	*personata*	LAST & GOMON, 1987	Urolophidae	Myliobatiformes	20
Trygonoptera	*testacea*	MÜLLER & HENLE, 1841	Urolophidae	Myliobatiformes	57
Urolophus	*aurantiacus*	MÜLLER & HENLE, 1841	Urolophidae	Myliobatiformes	42
Urolophus	*bucculentus*	MACLEAY, 1884	Urolophidae	Myliobatiformes	30
Urolophus	*circularis*	McKAY, 1966	Urolophidae	Myliobatiformes	12
Urolophus	*cruciatus*	(LACEPÈDE, 1804)	Urolophidae	Myliobatiformes	47
Urolophus	*deforgesi*	SÉRET & LAST, 2003	Urolophidae	Myliobatiformes	9
Urolophus	*expansus*	MCCULLOCH, 1916	Urolophidae	Myliobatiformes	24
Urolophus	*flavomosaicus*	LAST & GOMON, 1987	Urolophidae	Myliobatiformes	15
Urolophus	*gigas*	SCOTT, 1954	Urolophidae	Myliobatiformes	16
Urolophus	*javanicus*	(MARTENS, 1864)	Urolophidae	Myliobatiformes	12
Urolophus	*kaianus*	GÜNTHER, 1880	Urolophidae	Myliobatiformes	11
Urolophus	*kapalensis*	YEARSLEY & LAST, 2006	Urolophidae	Myliobatiformes	11
Urolophus	*lobatus*	MCKAY, 1966	Urolophidae	Myliobatiformes	21
Urolophus	*mitosis*	LAST & GOMON, 1987	Urolophidae	Myliobatiformes	11
Urolophus	*neocaledoniensis*	SÉRET & LAST, 2003	Urolophidae	Myliobatiformes	9
Urolophus	*orarius*	LAST & GOMON, 1987	Urolophidae	Myliobatiformes	11
Urolophus	*papilio*	SÉRET & LAST, 2003	Urolophidae	Myliobatiformes	7
Urolophus	*paucimaculatus*	DIXON, 1969	Urolophidae	Myliobatiformes	43
Urolophus	*piperatus*	SÉRET & LAST, 2003	Urolophidae	Myliobatiformes	12
Urolophus	*sufflavus*	WHITLEY, 1929	Urolophidae	Myliobatiformes	18
Urolophus	*viridis*	MCCULLOCH, 1916	Urolophidae	Myliobatiformes	25
Urolophus	*westraliensis*	LAST & GOMON, 1987	Urolophidae	Myliobatiformes	13
Anacanthobatis	*marmorata*	(VON BONDE & SWART, 1923)	Anacanthobatidae	Rajiformes	24
Indobatis	*ori*	(WALLACE, 1967)	Anacanthobatidae	Rajiformes	21
Schroederobatis	*americana*	(BIGELOW & SCHROEDER,	Anacanthobatidae	Rajiformes	24

Genus	Species	Author	Family	Order	No of records
		1962)			
Sinobatis	*andamanensis*	LAST & BUSSARAWIT, 2016	Anacanthobatidae	Rajiformes	5
Sinobatis	*borneensis*	(CHAN, 1965)	Anacanthobatidae	Rajiformes	46
Sinobatis	*brevicauda*	WEIGMANN & STEHMANN, 2016	Anacanthobatidae	Rajiformes	4
Sinobatis	*bulbicauda*	LAST & SÉRET, 2008	Anacanthobatidae	Rajiformes	9
Sinobatis	*caerulea*	LAST & SÉRET, 2008	Anacanthobatidae	Rajiformes	6
Sinobatis	*filicauda*	LAST & SÉRET, 2008	Anacanthobatidae	Rajiformes	7
Sinobatis	*kotlyari*	STEHMANN & WEIGMANN, 2016	Anacanthobatidae	Rajiformes	3
Sinobatis	*melanosoma*	(CHAN, 1965)	Anacanthobatidae	Rajiformes	16
Sinobatis	*stenosoma*	(LI & HU, 1982)	Anacanthobatidae	Rajiformes	12
Springeria	*folirostris*	BIGELOW & SCHROEDER, 1951	Anacanthobatidae	Rajiformes	19
Springeria	*longirostris*	BIGELOW & SCHROEDER, 1962	Anacanthobatidae	Rajiformes	19
Arhynchobatis	*asperrimus*	WAITE, 1909	Arhynchobatidae	Rajiformes	21
Atlantoraja	*castelnaui*	(MIRANDA RIBEIRO, 1907)	Arhynchobatidae	Rajiformes	80
Atlantoraja	*cyclophora*	(REGAN, 1903)	Arhynchobatidae	Rajiformes	73
Atlantoraja	*platana*	(GÜNTHER, 1880)	Arhynchobatidae	Rajiformes	48
Brochiraja	*aenigma*	LAST & McEACHRAN, 2006	Arhynchobatidae	Rajiformes	6
Brochiraja	*albilabiata*	LAST & McEACHRAN, 2006	Arhynchobatidae	Rajiformes	9
Brochiraja	*asperula*	(GARRICK & PAUL, 1974)	Arhynchobatidae	Rajiformes	19
Brochiraja	*heuresa*	LAST & SÉRET, 2012	Arhynchobatidae	Rajiformes	5
Brochiraja	*leviveneta*	LAST & McEACHRAN, 2006	Arhynchobatidae	Rajiformes	9
Brochiraja	*microspinifera*	LAST & McEACHRAN, 2006	Arhynchobatidae	Rajiformes	9
Brochiraja	*spinifera*	(GARRICK & PAUL, 1974)	Arhynchobatidae	Rajiformes	16
Brochiraja	*vittacauda*	LAST & SÉRET, 2012	Arhynchobatidae	Rajiformes	5
Insentiraja	*laxipella*	(YEARSLEY & LAST, 1992)	Arhynchobatidae	Rajiformes	11
Insentiraja	*subtilispinosa*	(STEHMANN, 1989)	Arhynchobatidae	Rajiformes	16
Irolita	*waitii*	(MCCULLOCH, 1911)	Arhynchobatidae	Rajiformes	20
Irolita	*westraliensis*	LAST & GLEDHILL, 2008	Arhynchobatidae	Rajiformes	6
Notoraja	*alisae*	SÉRET & LAST, 2012	Arhynchobatidae	Rajiformes	5
Notoraja	*azurea*	McEACHRAN & LAST, 2008	Arhynchobatidae	Rajiformes	8
Notoraja	*fijiensis*	SÉRET & LAST, 2012	Arhynchobatidae	Rajiformes	4
Notoraja	*hirticauda*	LAST & McEACHRAN, 2006	Arhynchobatidae	Rajiformes	6
Notoraja	*inusitata*	SÉRET & LAST, 2012	Arhynchobatidae	Rajiformes	4
Notoraja	*lira*	McEACHRAN & LAST, 2008	Arhynchobatidae	Rajiformes	5
Notoraja	*longiventralis*	SÉRET & LAST, 2012	Arhynchobatidae	Rajiformes	4
Notoraja	*martinezi*	CONCHA, EBERT & LONG, 2016	Arhynchobatidae	Rajiformes	3
Notoraja	*ochroderma*	McEACHRAN & LAST, 1994	Arhynchobatidae	Rajiformes	15
Notoraja	*sapphira*	SÉRET & LAST, 2009	Arhynchobatidae	Rajiformes	8
Notoraja	*sereti*	WHITE, LAST & MANA, 2017	Arhynchobatidae	Rajiformes	1

Genus	Species	Author	Family	Order	No of records
Notoraja	*sticta*	McEACHRAN & LAST, 2008	Arhynchobatidae	Rajiformes	6
Notoraja	*tobitukai*	(HIYAMA, 1940)	Arhynchobatidae	Rajiformes	27
Pavoraja	*alleni*	McEACHRAN & FECHHELM, 1982	Arhynchobatidae	Rajiformes	13
Pavoraja	*arenaria*	LAST, MALLICK & YEARSLEY, 2008	Arhynchobatidae	Rajiformes	6
Pavoraja	*mosaica*	LAST, MALLICK & YEARSLEY, 2008	Arhynchobatidae	Rajiformes	7
Pavoraja	*nitida*	(GÜNTHER, 1880)	Arhynchobatidae	Rajiformes	28
Pavoraja	*pseudonitida*	LAST, MALLICK & YEARSLEY, 2008	Arhynchobatidae	Rajiformes	7
Pavoraja	*umbrosa*	LAST, MALLICK & YEARSLEY, 2008	Arhynchobatidae	Rajiformes	5
Psammobatis	*bergi*	MARINI, 1932	Arhynchobatidae	Rajiformes	40
Psammobatis	*extenta*	(GARMAN, 1913)	Arhynchobatidae	Rajiformes	56
Psammobatis	*lentiginosa*	McEACHRAN, 1983	Arhynchobatidae	Rajiformes	31
Psammobatis	*normani*	McEACHRAN, 1983	Arhynchobatidae	Rajiformes	30
Psammobatis	*parvacauda*	McEACHRAN, 1983	Arhynchobatidae	Rajiformes	10
Psammobatis	*rudis*	GÜNTHER, 1870	Arhynchobatidae	Rajiformes	45
Psammobatis	*rutrum*	JORDAN, 1891	Arhynchobatidae	Rajiformes	29
Psammobatis	*scobina*	(PHILIPPI, 1857)	Arhynchobatidae	Rajiformes	43
Pseudoraja	*fischeri*	BIGELOW & SCHROEDER, 1954	Arhynchobatidae	Rajiformes	21
Rhinoraja	*kujiensis*	(TANAKA, 1916)	Arhynchobatidae	Rajiformes	22
Rhinoraja	*longicauda*	ISHIYAMA, 1952	Arhynchobatidae	Rajiformes	28
Rhinoraja	*odai*	ISHIYAMA, 1958	Arhynchobatidae	Rajiformes	13
Rioraja	*agassizii*	(MÜLLER & HENLE, 1841)	Arhynchobatidae	Rajiformes	90
Breviraja	*claramaculata*	McEACHRAN & MATHESON, 1985	Gurgesiellidae	Rajiformes	15
Breviraja	*colesi*	BIGELOW & SCHROEDER, 1948	Gurgesiellidae	Rajiformes	20
Breviraja	*mouldi*	McEACHRAN & MATHESON, 1995	Gurgesiellidae	Rajiformes	10
Breviraja	*nigriventralis*	McEACHRAN & MATHESON, 1985	Gurgesiellidae	Rajiformes	17
Breviraja	*spinosa*	BIGELOW & SCHROEDER, 1950	Gurgesiellidae	Rajiformes	24
Cruriraja	*andamanica*	(LLOYD, 1909)	Gurgesiellidae	Rajiformes	21
Cruriraja	*atlantis*	BIGELOW & SCHROEDER, 1948	Gurgesiellidae	Rajiformes	12
Cruriraja	*cadenati*	BIGELOW & SCHROEDER, 1962	Gurgesiellidae	Rajiformes	12
Cruriraja	*durbanensis*	(VON BONDE & SWART, 1923)	Gurgesiellidae	Rajiformes	19
Cruriraja	*hulleyi*	ASCHLIMAN, EBERT & COMPAGNO, 2010	Gurgesiellidae	Rajiformes	14
Cruriraja	*parcomaculata*	(VON BONDE & SWART, 1923)	Gurgesiellidae	Rajiformes	47
Cruriraja	*poeyi*	BIGELOW & SCHROEDER, 1948	Gurgesiellidae	Rajiformes	19
Cruriraja	*rugosa*	BIGELOW & SCHROEDER, 1958	Gurgesiellidae	Rajiformes	27

Genus	Species	Author	Family	Order	No of records
Fenestraja	*atripinna*	(BIGELOW & SCHROEDER, 1950)	Gurgesiellidae	Rajiformes	16
Fenestraja	*cubensis*	(BIGELOW & SCHROEDER, 1950)	Gurgesiellidae	Rajiformes	15
Fenestraja	*ishiyamai*	(BIGELOW & SCHROEDER, 1962)	Gurgesiellidae	Rajiformes	18
Fenestraja	*maceachrani*	(SÉRET, 1989)	Gurgesiellidae	Rajiformes	11
Fenestraja	*mamillidens*	(ALCOCK, 1889)	Gurgesiellidae	Rajiformes	20
Fenestraja	*plutonia*	(GARMAN, 1881)	Gurgesiellidae	Rajiformes	32
Fenestraja	*sibogae*	(WEBER, 1913)	Gurgesiellidae	Rajiformes	12
Fenestraja	*sinusmexicanus*	(BIGELOW & SCHROEDER, 1950)	Gurgesiellidae	Rajiformes	21
Gurgesiella	*atlantica*	(BIGELOW & SCHROEDER, 1962)	Gurgesiellidae	Rajiformes	34
Gurgesiella	*dorsalifera*	McEACHRAN & COMPAGNO, 1980	Gurgesiellidae	Rajiformes	23
Gurgesiella	*furvescens*	DE BUEN, 1959	Gurgesiellidae	Rajiformes	24
Heliotrygon	*gomesi*	CARVALHO & LOVEJOY, 2011	Potamotrygonidae	Rajiformes	5
Heliotrygon	*rosai*	CARVALHO & LOVEJOY, 2011	Potamotrygonidae	Rajiformes	5
Paratrygon	*aiereba*	(MÜLLER & HENLE, 1841)	Potamotrygonidae	Rajiformes	92
Plesiotrygon	*iwamae*	ROSA, CASTELLO & THORSON, 1987	Potamotrygonidae	Rajiformes	38
Plesiotrygon	*nana*	CARVALHO & RAGNO, 2011	Potamotrygonidae	Rajiformes	4
Potamotrygon	*adamastor*	FONTENELLE & DE CARVALHO, 2017	Potamotrygonidae	Rajiformes	1
Potamotrygon	*albimaculata*	DE CARVALHO, 2016	Potamotrygonidae	Rajiformes	3
Potamotrygon	*amandae*	LOBODA & DE CARVALHO, 2013	Potamotrygonidae	Rajiformes	7
Potamotrygon	*amazona*	FONTENELLE & DE CARVALHO, 2017	Potamotrygonidae	Rajiformes	1
Potamotrygon	*boesemani*	ROSA, DE CARVALHO & DE ALMEIDA WANDERLEY, 2008	Potamotrygonidae	Rajiformes	7
Potamotrygon	*brachyura*	(GÜNTHER, 1880)	Potamotrygonidae	Rajiformes	27
Potamotrygon	*constellata*	(VAILLANT, 1880)	Potamotrygonidae	Rajiformes	41
Potamotrygon	*falkneri*	CASTEX & MACIEL, 1963	Potamotrygonidae	Rajiformes	80
Potamotrygon	*garmani*	FONTENELLE & DE CARVALHO, 2017	Potamotrygonidae	Rajiformes	1
Potamotrygon	*henlei*	(CASTELNAU, 1855)	Potamotrygonidae	Rajiformes	32
Potamotrygon	*histrix*	(MÜLLER & HENLE, 1841)	Potamotrygonidae	Rajiformes	61
Potamotrygon	*humerosa*	GARMAN, 1913	Potamotrygonidae	Rajiformes	17
Potamotrygon	*jabuti*	DE CARVALHO, 2016	Potamotrygonidae	Rajiformes	3
Potamotrygon	*leopoldi*	CASTEX & CASTELLO, 1970	Potamotrygonidae	Rajiformes	29
Potamotrygon	*limai*	FONTENELLE, DA SILVA & DE CARVALHO, 2014	Potamotrygonidae	Rajiformes	3
Potamotrygon	*magdalenae*	(DUMÉRIL, 1865)	Potamotrygonidae	Rajiformes	50
Potamotrygon	*marinae*	DEYNAT, 2006	Potamotrygonidae	Rajiformes	9

Genus	Species	Author	Family	Order	No of records
Potamotrygon	*motoro*	(MÜLLER & HENLE, 1841)	Potamotrygonidae	Rajiformes	172
Potamotrygon	*ocellata*	(ENGELHARDT, 1912)	Potamotrygonidae	Rajiformes	14
Potamotrygon	*orbignyi*	(CASTELNAU, 1855)	Potamotrygonidae	Rajiformes	98
Potamotrygon	*pantanensis*	LOBODA & DE CARVALHO, 2013	Potamotrygonidae	Rajiformes	4
Potamotrygon	*rex*	DE CARVALHO, 2016	Potamotrygonidae	Rajiformes	3
Potamotrygon	*schroederi*	FERNÁNDEZ-YÉPEZ, 1958	Potamotrygonidae	Rajiformes	40
Potamotrygon	*schuhmacheri*	CASTEX, 1964	Potamotrygonidae	Rajiformes	13
Potamotrygon	*scobina*	GARMAN, 1913	Potamotrygonidae	Rajiformes	41
Potamotrygon	*signata*	GARMAN, 1913	Potamotrygonidae	Rajiformes	18
Potamotrygon	*tatianae*	SILVA & CARVALHO, 2011	Potamotrygonidae	Rajiformes	7
Potamotrygon	*tigrina*	CARVALHO, SABAJ PEREZ & LOVEJOY, 2011	Potamotrygonidae	Rajiformes	6
Potamotrygon	*wallacei*	DE CARVALHO, ROSA & DE ARAÚJO, 2016	Potamotrygonidae	Rajiformes	8
Potamotrygon	*yepezi*	CASTEX & CASTELLO, 1970	Potamotrygonidae	Rajiformes	27
Amblyraja	*doellojuradoi*	(POZZI, 1935)	Rajidae	Rajiformes	54
Amblyraja	*frerichsi*	(KREFFT, 1968)	Rajidae	Rajiformes	25
Amblyraja	*georgiana*	(NORMAN, 1938)	Rajidae	Rajiformes	37
Amblyraja	*hyperborea*	(COLLETT, 1879)	Rajidae	Rajiformes	129
Amblyraja	*jenseni*	(BIGELOW & SCHROEDER, 1950)	Rajidae	Rajiformes	39
Amblyraja	*radiata*	(DONOVAN, 1808)	Rajidae	Rajiformes	279
Amblyraja	*reversa*	(LLOYD, 1906)	Rajidae	Rajiformes	17
Amblyraja	*taaf*	(MEISSNER, 1987)	Rajidae	Rajiformes	13
Bathyraja	*abyssicola*	(GILBERT, 1896)	Rajidae	Rajiformes	47
Bathyraja	*aguja*	(KENDALL & RADCLIFFE, 1912)	Rajidae	Rajiformes	16
Bathyraja	*albomaculata*	(NORMAN, 1937)	Rajidae	Rajiformes	58
Bathyraja	*aleutica*	(GILBERT, 1896)	Rajidae	Rajiformes	67
Bathyraja	*andriashevi*	DOLGANOV, 1983	Rajidae	Rajiformes	15
Bathyraja	*bergi*	DOLGANOV, 1983	Rajidae	Rajiformes	23
Bathyraja	*brachyurops*	(FOWLER, 1910)	Rajidae	Rajiformes	72
Bathyraja	*cousseauae*	DÍAZ DE ASTARLOA & MABRAGAÑA, 2004	Rajidae	Rajiformes	21
Bathyraja	*diplotaenia*	(ISHIYAMA, 1952)	Rajidae	Rajiformes	25
Bathyraja	*eatonii*	(GÜNTHER, 1876)	Rajidae	Rajiformes	35
Bathyraja	*fedorovi*	DOLGANOV, 1983	Rajidae	Rajiformes	16
Bathyraja	*griseocauda*	(NORMAN, 1937)	Rajidae	Rajiformes	47
Bathyraja	*hesperafricana*	STEHMANN, 1995	Rajidae	Rajiformes	11
Bathyraja	*interrupta*	(GILL & TOWNSEND, 1897)	Rajidae	Rajiformes	54
Bathyraja	*irrasa*	HUREAU & OZOUF-COSTAZ, 1980	Rajidae	Rajiformes	14
Bathyraja	*ishiharai*	STEHMANN, 2005	Rajidae	Rajiformes	8
Bathyraja	*isotrachys*	(GÜNTHER, 1877)	Rajidae	Rajiformes	36
Bathyraja	*kincaidii*	(GARMAN, 1908)	Rajidae	Rajiformes	40

Genus	Species	Author	Family	Order	No of records
Bathyraja	*leucomelanos*	IGLÉSIAS & LÉVY-HARTMANN, 2012	Rajidae	Rajiformes	4
Bathyraja	*lindbergi*	ISHIYAMA & ISHIHARA, 1977	Rajidae	Rajiformes	24
Bathyraja	*longicauda*	(DE BUEN, 1959)	Rajidae	Rajiformes	15
Bathyraja	*maccaini*	SPRINGER, 1971	Rajidae	Rajiformes	25
Bathyraja	*macloviana*	(NORMAN, 1937)	Rajidae	Rajiformes	57
Bathyraja	*maculata*	ISHIYAMA & ISHIHARA, 1977	Rajidae	Rajiformes	34
Bathyraja	*magellanica*	(PHILIPPI, 1902)	Rajidae	Rajiformes	45
Bathyraja	*mariposa*	STEVENSON, ORR, HOFF & McEACHRAN, 2004	Rajidae	Rajiformes	16
Bathyraja	*matsubarai*	(ISHIYAMA, 1952)	Rajidae	Rajiformes	38
Bathyraja	*meridionalis*	STEHMANN, 1987	Rajidae	Rajiformes	16
Bathyraja	*microtrachys*	(OSBURN & NICHOLS, 1916)	Rajidae	Rajiformes	17
Bathyraja	*minispinosa*	ISHIYAMA & ISHIHARA, 1977	Rajidae	Rajiformes	38
Bathyraja	*multispinis*	(NORMAN, 1937)	Rajidae	Rajiformes	43
Bathyraja	*murrayi*	(GÜNTHER, 1880)	Rajidae	Rajiformes	19
Bathyraja	*notoroensis*	ISHIYAMA & ISHIHARA, 1977	Rajidae	Rajiformes	10
Bathyraja	*pacifica*	LAST, STEWART & SÉRET, 2016	Rajidae	Rajiformes	4
Bathyraja	*pallida*	(FORSTER, 1967)	Rajidae	Rajiformes	25
Bathyraja	*panthera*	ORR, STEVENSON, HOFF, SPIES & MCEACHRAN, 2011	Rajidae	Rajiformes	7
Bathyraja	*papilionifera*	STEHMANN, 1985	Rajidae	Rajiformes	18
Bathyraja	*parmifera*	(BEAN, 1881)	Rajidae	Rajiformes	76
Bathyraja	*peruana*	McEACHRAN & MIYAKE, 1984	Rajidae	Rajiformes	20
Bathyraja	*richardsoni*	(GARRICK, 1961)	Rajidae	Rajiformes	52
Bathyraja	*scaphiops*	(NORMAN, 1937)	Rajidae	Rajiformes	36
Bathyraja	*schroederi*	(KREFFT, 1968)	Rajidae	Rajiformes	29
Bathyraja	*shuntovi*	DOLGANOV, 1985	Rajidae	Rajiformes	14
Bathyraja	*simoterus*	(ISHIYAMA, 1967)	Rajidae	Rajiformes	10
Bathyraja	*smirnovi*	(SOLDATOV & PAVLENKO, 1915)	Rajidae	Rajiformes	30
Bathyraja	*smithii*	(MÜLLER & HENLE, 1841)	Rajidae	Rajiformes	40
Bathyraja	*spinicauda*	(JENSEN, 1914)	Rajidae	Rajiformes	63
Bathyraja	*spinosissima*	(BEEBE & TEE-VAN, 1941)	Rajidae	Rajiformes	24
Bathyraja	*taranetzi*	(DOLGANOV, 1983)	Rajidae	Rajiformes	41
Bathyraja	*trachouros*	(ISHIYAMA, 1958)	Rajidae	Rajiformes	17
Bathyraja	*trachura*	(GILBERT, 1892)	Rajidae	Rajiformes	53
Bathyraja	*tunae*	STEHMANN, 2005	Rajidae	Rajiformes	7
Bathyraja	*tzinovskii*	DOLGANOV, 1983	Rajidae	Rajiformes	15
Bathyraja	*violacea*	(SUVOROV, 1935)	Rajidae	Rajiformes	34

Genus	Species	Author	Family	Order	No of records
Beringraja	*binoculata*	(GIRARD, 1855)	Rajidae	Rajiformes	123
Beringraja	*cortezensis*	(McEACHRAN & MIYAKE, 1988)	Rajidae	Rajiformes	19
Beringraja	*inornata*	(JORDAN & GILBERT, 1881)	Rajidae	Rajiformes	62
Beringraja	*pulchra*	(LIU, 1932)	Rajidae	Rajiformes	39
Beringraja	*rhina*	(JORDAN & GILBERT, 1880)	Rajidae	Rajiformes	113
Beringraja	*stellulata*	JORDAN & GILBERT, 1880	Rajidae	Rajiformes	53
Dactylobatus	*armatus*	BEAN & WEED, 1909	Rajidae	Rajiformes	24
Dactylobatus	*clarkii*	(BIGELOW & SCHROEDER, 1958)	Rajidae	Rajiformes	29
Dentiraja	*australis*	(MACLEAY, 1884)	Rajidae	Rajiformes	24
Dentiraja	*cerva*	(WHITLEY, 1939)	Rajidae	Rajiformes	23
Dentiraja	*confusa*	(LAST, 2008)	Rajidae	Rajiformes	9
Dentiraja	*endeavouri*	(LAST, 2008)	Rajidae	Rajiformes	6
Dentiraja	*falloarga*	(LAST, 2008)	Rajidae	Rajiformes	6
Dentiraja	*flindersi*	LAST & GLEDHILL, 2008	Rajidae	Rajiformes	8
Dentiraja	*healdi*	(LAST, WHITE & POGONOSKI, 2008)	Rajidae	Rajiformes	8
Dentiraja	*lemprieri*	(RICHARDSON, 1845)	Rajidae	Rajiformes	40
Dentiraja	*oculata*	(LAST, 2008)	Rajidae	Rajiformes	6
Dentiraja	*polyommata*	(OGILBY, 1910)	Rajidae	Rajiformes	26
Dipturus	*acrobelus*	LAST, WHITE & POGONOSKI, 2008	Rajidae	Rajiformes	7
Dipturus	*amphispinus*	LAST & ALAVA, 2013	Rajidae	Rajiformes	4
Dipturus	*apricus*	LAST, WHITE & POGONOSKI, 2008	Rajidae	Rajiformes	7
Dipturus	*batis*	(LINNAEUS, 1758)	Rajidae	Rajiformes	264
Dipturus	*bullisi*	(BIGELOW & SCHROEDER, 1962)	Rajidae	Rajiformes	21
Dipturus	*campbelli*	(WALLACE, 1967)	Rajidae	Rajiformes	16
Dipturus	*canutus*	LAST, 2008	Rajidae	Rajiformes	7
Dipturus	*chinensis*	(BASILEWSKY, 1855)	Rajidae	Rajiformes	8
Dipturus	*crosnieri*	(SÉRET, 1989)	Rajidae	Rajiformes	12
Dipturus	*doutrei*	(CADENAT, 1960)	Rajidae	Rajiformes	29
Dipturus	*ecuadoriensis*	(BEEBE & TEE-VAN, 1941)	Rajidae	Rajiformes	8
Dipturus	*garricki*	(BIGELOW & SCHROEDER, 1958)	Rajidae	Rajiformes	20
Dipturus	*gigas*	(ISHIYAMA, 1958)	Rajidae	Rajiformes	22
Dipturus	*grahami*	LAST, 2008	Rajidae	Rajiformes	7
Dipturus	*gudgeri*	(WHITLEY, 1940)	Rajidae	Rajiformes	18
Dipturus	*innominatus*	(GARRICK & PAUL, 1974)	Rajidae	Rajiformes	27
Dipturus	*intermedius*	(PARNELL, 1837)	Rajidae	Rajiformes	9
Dipturus	*johannisdavisi*	(ALCOCK, 1899)	Rajidae	Rajiformes	24
Dipturus	*kwangtungensis*	(CHU, 1960)	Rajidae	Rajiformes	31
Dipturus	*laevis*	(MITCHILL, 1818)	Rajidae	Rajiformes	79

Genus	Species	Author	Family	Order	No of records
Dipturus	*lanceorostratus*	(WALLACE, 1967)	Rajidae	Rajiformes	17
Dipturus	*leptocaudus*	(KREFFT & STEHMANN, 1975)	Rajidae	Rajiformes	18
Dipturus	*macrocaudus*	(ISHIYAMA, 1955)	Rajidae	Rajiformes	24
Dipturus	*melanospilus*	LAST, WHITE & POGONOSKI, 2008	Rajidae	Rajiformes	8
Dipturus	*mennii*	GOMES & PARAGÓ, 2001	Rajidae	Rajiformes	17
Dipturus	*nidarosiensis*	(STORM, 1881)	Rajidae	Rajiformes	54
Dipturus	*olseni*	(BIGELOW & SCHROEDER, 1951)	Rajidae	Rajiformes	24
Dipturus	*oregoni*	(BIGELOW & SCHROEDER, 1958)	Rajidae	Rajiformes	13
Dipturus	*oxyrinchus*	(LINNAEUS, 1758)	Rajidae	Rajiformes	215
Dipturus	*pullopunctatus*	(SMITH, 1964)	Rajidae	Rajiformes	30
Dipturus	*queenslandicus*	LAST, WHITE & POGONOSKI, 2008	Rajidae	Rajiformes	7
Dipturus	*springeri*	(WALLACE, 1967)	Rajidae	Rajiformes	23
Dipturus	*stenorhynchus*	(WALLACE, 1967)	Rajidae	Rajiformes	16
Dipturus	*teevani*	(BIGELOW & SCHROEDER, 1951)	Rajidae	Rajiformes	33
Dipturus	*tengu*	(JORDAN & FOWLER, 1903)	Rajidae	Rajiformes	38
Dipturus	*trachydermus*	(KREFFT & STEHMANN, 1975)	Rajidae	Rajiformes	53
Dipturus	*wengi*	SÉRET & LAST, 2008	Rajidae	Rajiformes	7
Dipturus	*wuhanlingi*	JEONG & NAKABO, 2008	Rajidae	Rajiformes	6
Hongeo	*koreana*	(JEONG & NAKABO, 1997)	Rajidae	Rajiformes	12
Leucoraja	*circularis*	(COUCH, 1838)	Rajidae	Rajiformes	133
Leucoraja	*compagnoi*	(STEHMANN, 1995)	Rajidae	Rajiformes	13
Leucoraja	*erinacea*	(MITCHILL, 1825)	Rajidae	Rajiformes	387
Leucoraja	*fullonica*	(LINNAEUS, 1758)	Rajidae	Rajiformes	161
Leucoraja	*garmani*	(WHITLEY, 1939)	Rajidae	Rajiformes	54
Leucoraja	*lentiginosa*	(BIGELOW & SCHROEDER, 1951)	Rajidae	Rajiformes	21
Leucoraja	*leucosticta*	(STEHMANN, 1971)	Rajidae	Rajiformes	15
Leucoraja	*melitensis*	(CLARK, 1926)	Rajidae	Rajiformes	44
Leucoraja	*naevus*	(MÜLLER & HENLE, 1841)	Rajidae	Rajiformes	192
Leucoraja	*ocellata*	(MITCHILL, 1815)	Rajidae	Rajiformes	148
Leucoraja	*pristispina*	LAST, STEHMANN & SÉRET, 2008	Rajidae	Rajiformes	6
Leucoraja	*wallacei*	(HULLEY, 1970)	Rajidae	Rajiformes	31
Leucoraja	*yucatanensis*	(BIGELOW & SCHROEDER, 1950)	Rajidae	Rajiformes	18
Malacoraja	*kreffti*	(STEHMANN, 1977)	Rajidae	Rajiformes	17
Malacoraja	*obscura*	DE CARVALHO, GOMES & GADIG, 2005	Rajidae	Rajiformes	8
Malacoraja	*senta*	(GARMAN, 1885)	Rajidae	Rajiformes	71
Malacoraja	*spinacidermis*	(BARNARD, 1923)	Rajidae	Rajiformes	56
Neoraja	*africana*	(STEHMANN & SÉRET,	Rajidae	Rajiformes	14

Genus	Species	Author	Family	Order	No of records
		1983)			
Neoraja	*caerulea*	(STEHMANN, 1976)	Rajidae	Rajiformes	24
Neoraja	*carolinensis*	McEACHRAN & STEHMANN, 1984	Rajidae	Rajiformes	13
Neoraja	*iberica*	STEHMANN, SÉRET, COSTA & BARO, 2008	Rajidae	Rajiformes	14
Neoraja	*stehmanni*	(HULLEY, 1972)	Rajidae	Rajiformes	23
Okamejei	*acutispina*	(ISHIYAMA, 1958)	Rajidae	Rajiformes	24
Okamejei	*arafurensis*	LAST & GLEDHILL, 2008	Rajidae	Rajiformes	7
Okamejei	*boesemani*	(ISHIHARA, 1987)	Rajidae	Rajiformes	21
Okamejei	*cairae*	LAST, FAHMI & ISHIHARA, 2010	Rajidae	Rajiformes	8
Okamejei	*heemstrai*	(McEACHRAN & FECHHELM, 1982)	Rajidae	Rajiformes	13
Okamejei	*hollandi*	(JORDAN & RICHARDSON, 1909)	Rajidae	Rajiformes	35
Okamejei	*kenojei*	(MÜLLER & HENLE, 1841)	Rajidae	Rajiformes	134
Okamejei	*leptoura*	LAST & GLEDHILL, 2008	Rajidae	Rajiformes	6
Okamejei	*meerdervoortii*	(BLEEKER, 1860)	Rajidae	Rajiformes	36
Okamejei	*mengae*	JEONG, NAKABO & WU, 2007	Rajidae	Rajiformes	5
Okamejei	*ornata*	WEIGMANN, STEHMANN & THIEL, 2015	Rajidae	Rajiformes	5
Okamejei	*schmidti*	(ISHIYAMA, 1958)	Rajidae	Rajiformes	13
Orbiraja	*jensenae*	(LAST & LIM, 2010)	Rajidae	Rajiformes	9
Orbiraja	*philipi*	(LLOYD, 1906)	Rajidae	Rajiformes	12
Orbiraja	*powelli*	(ALCOCK, 1898)	Rajidae	Rajiformes	23
Raja	*africana*	CAPAPÉ, 1977	Rajidae	Rajiformes	16
Raja	*asterias*	DELAROCHE, 1809	Rajidae	Rajiformes	173
Raja	*brachyura*	LAFONT, 1873	Rajidae	Rajiformes	170
Raja	*clavata*	LINNAEUS, 1758	Rajidae	Rajiformes	622
Raja	*herwigi*	KREFFT, 1965	Rajidae	Rajiformes	14
Raja	*maderensis*	LOWE, 1838	Rajidae	Rajiformes	31
Raja	*microocellata*	MONTAGU, 1818	Rajidae	Rajiformes	108
Raja	*miraletus*	LINNAEUS, 1758	Rajidae	Rajiformes	234
Raja	*montagui*	FOWLER, 1910	Rajidae	Rajiformes	225
Raja	*ocellifera*	REGAN, 1906	Rajidae	Rajiformes	14
Raja	*parva*	LAST & SÉRET, 2016	Rajidae	Rajiformes	3
Raja	*pita*	FRICKE & AL-HASSAN, 1995	Rajidae	Rajiformes	11
Raja	*polystigma*	REGAN, 1923	Rajidae	Rajiformes	79
Raja	*radula*	DELAROCHE, 1809	Rajidae	Rajiformes	104
Raja	*straeleni*	POLL, 1951	Rajidae	Rajiformes	51
Raja	*undulata*	LACEPÈDE, 1802	Rajidae	Rajiformes	144
Rajella	*annandalei*	(WEBER, 1913)	Rajidae	Rajiformes	11
Rajella	*barnardi*	(NORMAN, 1935)	Rajidae	Rajiformes	38
Rajella	*bathyphila*	(HOLT & BYRNE, 1908)	Rajidae	Rajiformes	39

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Rajella	*bigelowi*	(STEHMANN, 1978)	Rajidae	Rajiformes	48
Rajella	*caudaspinosa*	(VON BONDE & SWART, 1923)	Rajidae	Rajiformes	33
Rajella	*challengeri*	LAST & STEHMANN, 2008	Rajidae	Rajiformes	5
Rajella	*dissimilis*	(HULLEY, 1970)	Rajidae	Rajiformes	28
Rajella	*eisenhardti*	LONG & McCOSKER, 1999	Rajidae	Rajiformes	9
Rajella	*fuliginea*	(BIGELOW & SCHROEDER, 1954)	Rajidae	Rajiformes	20
Rajella	*fyllae*	(LÜTKEN, 1887)	Rajidae	Rajiformes	82
Rajella	*kukujevi*	(DOLGANOV, 1985)	Rajidae	Rajiformes	24
Rajella	*leoparda*	(VON BONDE & SWART, 1923)	Rajidae	Rajiformes	42
Rajella	*lintea*	(FRIES, 1838)	Rajidae	Rajiformes	66
Rajella	*nigerrima*	(DE BUEN, 1960)	Rajidae	Rajiformes	18
Rajella	*paucispinosa*	WEIGMANN, STEHMANN & THIEL, 2014	Rajidae	Rajiformes	6
Rajella	*purpuriventralis*	(BIGELOW & SCHROEDER, 1962)	Rajidae	Rajiformes	23
Rajella	*ravidula*	(HULLEY, 1970)	Rajidae	Rajiformes	27
Rajella	*sadowskii*	(KREFFT & STEHMANN, 1974)	Rajidae	Rajiformes	29
Rostroraja	*ackleyi*	GARMAN, 1881	Rajidae	Rajiformes	25
Rostroraja	*alba*	(LACÉPÈDE, 1803)	Rajidae	Rajiformes	172
Rostroraja	*bahamensis*	(BIGELOW & SCHROEDER, 1965)	Rajidae	Rajiformes	10
Rostroraja	*cervigoni*	(BIGELOW & SCHROEDER, 1964)	Rajidae	Rajiformes	18
Rostroraja	*eglanteria*	(LACEPÈDE	Rajidae	Rajiformes	200
Rostroraja	*equatorialis*	(JORDAN & BOLLMAN, 1890)	Rajidae	Rajiformes	29
Rostroraja	*texana*	(CHANDLER, 1921)	Rajidae	Rajiformes	33
Rostroraja	*velezi*	(CHIRICHIGNO, 1973)	Rajidae	Rajiformes	48
Spiniraja	*whitleyi*	(IREDALE, 1938)	Rajidae	Rajiformes	41
Sympterygia	*acuta*	GARMAN, 1877	Rajidae	Rajiformes	65
Sympterygia	*bonapartii*	MÜLLER & HENLE, 1841	Rajidae	Rajiformes	98
Sympterygia	*brevicaudata*	(COPE, 1877)	Rajidae	Rajiformes	49
Sympterygia	*lima*	(POEPPIG, 1835)	Rajidae	Rajiformes	35
Zearaja	*argentinensis*	(DÍAZ DE ASTARLOA, MABRAGAÑA, HANNER & FIGUEROA, 2008)	Rajidae	Rajiformes	8
Zearaja	*chilensis*	(GUICHENOT, 1848)	Rajidae	Rajiformes	125
Zearaja	*maugeana*	LAST & GLEDHILL, 2007	Rajidae	Rajiformes	10
Zearaja	*nasuta*	(MÜLLER & HENLE, 1841)	Rajidae	Rajiformes	52
Urobatis	*concentricus*	OSBURN & NICHOLS, 1916	Urotrygonidae	Rajiformes	27
Urobatis	*halleri*	(COOPER, 1863)	Urotrygonidae	Rajiformes	171
Urobatis	*jamaicensis*	(CUVIER, 1816)	Urotrygonidae	Rajiformes	123
Urobatis	*maculatus*	GARMAN, 1913	Urotrygonidae	Rajiformes	28
Urobatis	*marmoratus*	(PHILIPPI, 1892)	Urotrygonidae	Rajiformes	11

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Urobatis	*pardalis*	DEL MORAL-FLORES, ANGULO, LÓPEZ & BUSSING, 2015	Urotrygonidae	Rajiformes	3
Urobatis	*tumbesensis*	(CHIRICHIGNO & McEACHRAN, 1979)	Urotrygonidae	Rajiformes	22
Urotrygon	*aspidura*	(JORDAN & GILBERT, 1882)	Urotrygonidae	Rajiformes	52
Urotrygon	*chilensis*	(GÜNTHER, 1872)	Urotrygonidae	Rajiformes	63
Urotrygon	*cimar*	LÓPEZ & BUSSING, 1998	Urotrygonidae	Rajiformes	12
Urotrygon	*microphthalmum*	DELSMAN, 1941	Urotrygonidae	Rajiformes	35
Urotrygon	*munda*	GILL, 1863	Urotrygonidae	Rajiformes	66
Urotrygon	*nana*	MIYAKE & McEACHRAN, 1988	Urotrygonidae	Rajiformes	27
Urotrygon	*reticulata*	MIYAKE & McEACHRAN, 1988	Urotrygonidae	Rajiformes	14
Urotrygon	*rogersi*	(JORDAN & STARKS, 1895)	Urotrygonidae	Rajiformes	60
Urotrygon	*simulatrix*	MIYAKE & McEACHRAN, 1988	Urotrygonidae	Rajiformes	14
Urotrygon	*venezuelae*	SCHULTZ, 1949	Urotrygonidae	Rajiformes	32
Glaucostegus	*cemiculus*	(GEOFFROY SAINT-HILAIRE, 1817)	Glaucostegidae	Rhinopristiformes	82
Glaucostegus	*granulatus*	(CUVIER, 1829)	Glaucostegidae	Rhinopristiformes	105
Glaucostegus	*halavi*	(FORSSKÅL, 1775)	Glaucostegidae	Rhinopristiformes	59
Glaucostegus	*obtusus*	MÜLLER & HENLE, 1841	Glaucostegidae	Rhinopristiformes	29
Glaucostegus	*thouin*	(ANONYMOUS, 1798)	Glaucostegidae	Rhinopristiformes	57
Glaucostegus	*typus*	(BENNETT, 1830)	Glaucostegidae	Rhinopristiformes	154
Platyrhina	*hyugaensis*	IWATSUKI, MIYAMOTO & NAKAYA, 2011	Platyrhinidae	Rhinopristiformes	5
Platyrhina	*psomadakisi*	WHITE & LAST, 2016	Platyrhinidae	Rhinopristiformes	4
Platyrhina	*sinensis*	(BLOCH & SCHNEIDER, 1801)	Platyrhinidae	Rhinopristiformes	56
Platyrhina	*tangi*	IWATSUKI, ZHANG & NAKAYA, 2011	Platyrhinidae	Rhinopristiformes	11
Platyrhinoidis	*triseriata*	(JORDAN & GILBERT, 1880)	Platyrhinidae	Rhinopristiformes	88
Anoxypristis	*cuspidata*	(LATHAM, 1794)	Pristidae	Rhinopristiformes	145
Pristis	*clavata*	GARMAN, 1906	Pristidae	Rhinopristiformes	77
Pristis	*pectinata*	LATHAM, 1794	Pristidae	Rhinopristiformes	256
Pristis	*pristis*	(LINNAEUS, 1758)	Pristidae	Rhinopristiformes	411
Pristis	*zijsron*	BLEEKER, 1851	Pristidae	Rhinopristiformes	144
Rhina	*ancylostoma*	BLOCH & SCHNEIDER, 1801	Rhinidae	Rhinopristiformes	138
Rhynchobatus	*australiae*	WHITLEY, 1939	Rhinidae	Rhinopristiformes	55
Rhynchobatus	*cooki*	LAST, KYNE & COMPAGNO, 2016	Rhinidae	Rhinopristiformes	4
Rhynchobatus	*djiddensis*	(FORSSKÅL, 1775)	Rhinidae	Rhinopristiformes	183
Rhynchobatus	*immaculatus*	LAST, HO & CHEN, 2013	Rhinidae	Rhinopristiformes	7
Rhynchobatus	*laevis*	(BLOCH & SCHNEIDER, 1801)	Rhinidae	Rhinopristiformes	41
Rhynchobatus	*luebberti*	EHRENBAUM, 1915	Rhinidae	Rhinopristiformes	19

Genus	Species	Author	Family	Order	No of records
Rhynchobatus	*palpebratus*	COMPAGNO & LAST, 2008	Rhinidae	Rhinopristiformes	13
Rhynchobatus	*springeri*	COMPAGNO & LAST, 2010	Rhinidae	Rhinopristiformes	9
Rhynchorhina	*mauritaniensis*	SÉRET & NAYLOR, 2016	Rhinidae	Rhinopristiformes	4
Acroteriobatus	*annulatus*	MÜLLER & HENLE, 1841	Rhinobatidae	Rhinopristiformes	54
Acroteriobatus	*blochii*	(MÜLLER & HENLE, 1841)	Rhinobatidae	Rhinopristiformes	34
Acroteriobatus	*leucospilus*	(NORMAN, 1926)	Rhinobatidae	Rhinopristiformes	19
Acroteriobatus	*ocellatus*	(NORMAN, 1926)	Rhinobatidae	Rhinopristiformes	14
Acroteriobatus	*omanensis*	LAST, HENDERSON & NAYLOR, 2016	Rhinobatidae	Rhinopristiformes	5
Acroteriobatus	*salalah*	RANDALL & COMPAGNO, 1995	Rhinobatidae	Rhinopristiformes	16
Acroteriobatus	*variegatus*	(NAIR & LAL MOHAN, 1973)	Rhinobatidae	Rhinopristiformes	16
Acroteriobatus	*zanzibarensis*	(NORMAN, 1926)	Rhinobatidae	Rhinopristiformes	10
Pseudobatos	*glaucostigmus*	(JORDAN & GILBERT, 1883)	Rhinobatidae	Rhinopristiformes	39
Pseudobatos	*horkelii*	(MÜLLER & HENLE, 1841)	Rhinobatidae	Rhinopristiformes	60
Pseudobatos	*lentiginosus*	(GARMAN, 1880)	Rhinobatidae	Rhinopristiformes	66
Pseudobatos	*leucorhynchus*	(GÜNTHER, 1866)	Rhinobatidae	Rhinopristiformes	60
Pseudobatos	*percellens*	(WALBAUM, 1792)	Rhinobatidae	Rhinopristiformes	82
Pseudobatos	*planiceps*	(GARMAN, 1880)	Rhinobatidae	Rhinopristiformes	42
Pseudobatos	*prahli*	(ACERO & FRANKE, 1995)	Rhinobatidae	Rhinopristiformes	22
Pseudobatos	*productus*	(AYRES, 1854)	Rhinobatidae	Rhinopristiformes	120
Rhinobatos	*albomaculatus*	NORMAN, 1930	Rhinobatidae	Rhinopristiformes	18
Rhinobatos	*annandalei*	NORMAN, 1926	Rhinobatidae	Rhinopristiformes	23
Rhinobatos	*austini*	EBERT & GON, 2017	Rhinobatidae	Rhinopristiformes	1
Rhinobatos	*borneensis*	LAST, SÉRET & NAYLOR, 2016	Rhinobatidae	Rhinopristiformes	5
Rhinobatos	*holcorhynchus*	NORMAN, 1922	Rhinobatidae	Rhinopristiformes	19
Rhinobatos	*hynnicephalus*	RICHARDSON, 1846	Rhinobatidae	Rhinopristiformes	40
Rhinobatos	*irvinei*	NORMAN, 1931	Rhinobatidae	Rhinopristiformes	16
Rhinobatos	*jimbaranensis*	LAST, WHITE & FAHMI, 2006	Rhinobatidae	Rhinopristiformes	9
Rhinobatos	*lionotus*	NORMAN, 1926	Rhinobatidae	Rhinopristiformes	16
Rhinobatos	*manai*	WHITE, LAST & NAYLOR, 2016	Rhinobatidae	Rhinopristiformes	2
Rhinobatos	*nudidorsalis*	LAST, COMPAGNO & NAKAYA, 2004	Rhinobatidae	Rhinopristiformes	7
Rhinobatos	*penggali*	LAST, WHITE & FAHMI, 2006	Rhinobatidae	Rhinopristiformes	9
Rhinobatos	*punctifer*	COMPAGNO & RANDALL, 1987	Rhinobatidae	Rhinopristiformes	28
Rhinobatos	*rhinobatos*	(LINNAEUS, 1758)	Rhinobatidae	Rhinopristiformes	112
Rhinobatos	*sainsburyi*	LAST, 2004	Rhinobatidae	Rhinopristiformes	8
Rhinobatos	*schlegelii*	(MÜLLER & HENLE, 1841)	Rhinobatidae	Rhinopristiformes	81
Rhinobatos	*whitei*	LAST, CORRIGAN & NAYLOR, 2014	Rhinobatidae	Rhinopristiformes	5
Aptychotrema	*rostrata*	(SHAW, 1794)	Trygonorrhinidae	Rhinopristiformes	95
Aptychotrema	*timorensis*	LAST, 2004	Trygonorrhinidae	Rhinopristiformes	8

Genus	Species	Author	Family	Order	No of records
Aptychotrema	*vincentiana*	(HAACKE, 1885)	Trygonorrhinidae	Rhinopristiformes	30
Trygonorrhina	*dumerilii*	(CASTELNAU, 1873)	Trygonorrhinidae	Rhinopristiformes	36
Trygonorrhina	*fasciata*	MÜLLER & HENLE, 1841	Trygonorrhinidae	Rhinopristiformes	67
Zapteryx	*brevirostris*	(MÜLLER & HENLE, 1841)	Trygonorrhinidae	Rhinopristiformes	80
Zapteryx	*exasperata*	(JORDAN & GILBERT, 1880)	Trygonorrhinidae	Rhinopristiformes	65
Zapteryx	*xyster*	JORDAN & EVERMANN, 1896	Trygonorrhinidae	Rhinopristiformes	41
Zanobatus	*maculatus*	SÉRET, 2016	Zanobatidae	Rhinopristiformes	3
Zanobatus	*schoenleinii*	(MÜLLER & HENLE, 1841)	Zanobatidae	Rhinopristiformes	45
Hypnos	*monopterygius*	(SHAW, 1795)	Hypnidae	Torpediniformes	46
Benthobatis	*kreffti*	RINCON, STEHMANN & VOOREN, 2001	Narcinidae	Torpediniformes	12
Benthobatis	*marcida*	BEAN & WEED, 1909	Narcinidae	Torpediniformes	23
Benthobatis	*moresbyi*	ALCOCK, 1898	Narcinidae	Torpediniformes	28
Benthobatis	*yangi*	CARVALHO, COMPAGNO & EBERT, 2003	Narcinidae	Torpediniformes	10
Diplobatis	*colombiensis*	FECHHELM & McEACHRAN, 1984	Narcinidae	Torpediniformes	14
Diplobatis	*guamachensis*	MARTÍN SALAZAR, 1957	Narcinidae	Torpediniformes	14
Diplobatis	*ommata*	(JORDAN & GILBERT, 1890)	Narcinidae	Torpediniformes	40
Diplobatis	*picta*	PALMER, 1950	Narcinidae	Torpediniformes	26
Discopyge	*castelloi*	MENNI, RINCON & GARCIA, 2008	Narcinidae	Torpediniformes	4
Discopyge	*tschudii*	HECKEL, 1846	Narcinidae	Torpediniformes	85
Narcine	*atzi*	CARVALHO & RANDALL, 2003	Narcinidae	Torpediniformes	6
Narcine	*baliensis*	DE CARVALHO & WHITE, 2016	Narcinidae	Torpediniformes	3
Narcine	*bancroftii*	(GRIFFITH & SMITH, 1834)	Narcinidae	Torpediniformes	33
Narcine	*brasiliensis*	(OLFERS, 1831)	Narcinidae	Torpediniformes	140
Narcine	*brevilabiata*	BESSEDNOV, 1966	Narcinidae	Torpediniformes	11
Narcine	*brunnea*	ANNANDALE, 1909	Narcinidae	Torpediniformes	21
Narcine	*entemedor*	JORDAN & STARKS, 1895	Narcinidae	Torpediniformes	58
Narcine	*insolita*	CARVALHO, SÉRET & COMPAGNO, 2002	Narcinidae	Torpediniformes	5
Narcine	*leoparda*	CARVALHO, 2001	Narcinidae	Torpediniformes	18
Narcine	*lingula*	RICHARDSON, 1846	Narcinidae	Torpediniformes	20
Narcine	*maculata*	(SHAW, 1804)	Narcinidae	Torpediniformes	44
Narcine	*nigra*	DUMÉRIL, 1852	Narcinidae	Torpediniformes	3
Narcine	*oculifera*	CARVALHO, COMPAGNO & MEE, 2002	Narcinidae	Torpediniformes	10
Narcine	*prodorsalis*	BESSEDNOV, 1966	Narcinidae	Torpediniformes	13
Narcine	*rierai*	(LLORIS & RUCABADO, 1991)	Narcinidae	Torpediniformes	12
Narcine	*timlei*	(BLOCH & SCHNEIDER, 1801)	Narcinidae	Torpediniformes	72
Narcine	*vermiculata*	BREDER, 1928	Narcinidae	Torpediniformes	28

Genus	Species	Author	Family	Order	No of records
Narcinops	*lasti*	(CARVALHO & SÉRET, 2002)	Narcinidae	Torpediniformes	10
Narcinops	*nelsoni*	(CARVALHO, 2008)	Narcinidae	Torpediniformes	7
Narcinops	*ornata*	(CARVALHO, 2008)	Narcinidae	Torpediniformes	5
Narcinops	*tasmaniensis*	(RICHARDSON, 1841)	Narcinidae	Torpediniformes	30
Narcinops	*westraliensis*	(MCKAY, 1966)	Narcinidae	Torpediniformes	12
Electrolux	*addisoni*	COMPAGNO & HEEMSTRA, 2007	Narkidae	Torpediniformes	6
Heteronarce	*bentuviai*	(BARANES & RANDALL, 1989)	Narkidae	Torpediniformes	12
Heteronarce	*garmani*	REGAN, 1921	Narkidae	Torpediniformes	26
Heteronarce	*mollis*	(LLOYD, 1907)	Narkidae	Torpediniformes	22
Narke	*capensis*	(GMELIN, 1789)	Narkidae	Torpediniformes	34
Narke	*dipterygia*	(BLOCH & SCHNEIDER, 1801)	Narkidae	Torpediniformes	51
Narke	*japonica*	(TEMMINCK & SCHLEGEL, 1850)	Narkidae	Torpediniformes	84
Temera	*hardwickii*	GRAY, 1831	Narkidae	Torpediniformes	26
Typhlonarke	*aysoni*	(HAMILTON, 1902)	Narkidae	Torpediniformes	38
Tetranarce	*occidentalis*	(STORER, 1843)	Torpedinidae	Torpediniformes	24
Tetronarce	*californica*	(AYRES, 1855)	Torpedinidae	Torpediniformes	115
Tetronarce	*cowleyi*	EBERT, HAAS & DE CARVALHO, 2015	Torpedinidae	Torpediniformes	7
Tetronarce	*formosa*	(HAAS & EBERT, 2006)	Torpedinidae	Torpediniformes	8
Tetronarce	*nobiliana*	(BONAPARTE, 1835)	Torpedinidae	Torpediniformes	217
Tetronarce	*puelcha*	(LAHILLE, 1926)	Torpedinidae	Torpediniformes	23
Tetronarce	*tokionis*	(TANAKA, 1908)	Torpedinidae	Torpediniformes	29
Tetronarce	*tremens*	(DE BUEN, 1959)	Torpedinidae	Torpediniformes	63
Torpedo	*adenensis*	CARVALHO, STEHMANN & MANILO, 2002	Torpedinidae	Torpediniformes	8
Torpedo	*alexandrinsis*	MAZHAR, 1987	Torpedinidae	Torpediniformes	4
Torpedo	*andersoni*	BULLIS, 1962	Torpedinidae	Torpediniformes	16
Torpedo	*bauchotae*	CADENAT, CAPAPÉ & DESOUTTER, 1978	Torpedinidae	Torpediniformes	10
Torpedo	*fuscomaculata*	PETERS, 1855	Torpedinidae	Torpediniformes	40
Torpedo	*mackayana*	METZELAAR, 1919	Torpedinidae	Torpediniformes	12
Torpedo	*marmorata*	RISSO, 1810	Torpedinidae	Torpediniformes	336
Torpedo	*panthera*	OLFERS, 1831	Torpedinidae	Torpediniformes	28
Torpedo	*sinuspersici*	OLFERS, 1831	Torpedinidae	Torpediniformes	60
Torpedo	*suessii*	STEINDACHNER, 1898	Torpedinidae	Torpediniformes	9
Torpedo	*torpedo*	(LINNAEUS, 1758)	Torpedinidae	Torpediniformes	205

3.3.3.4 "Top 20" most studied ray and skate species NEW!

Genus	Species	Author	Family	Order	No of records
Raja	*clavata*	LINNAEUS, 1758	Rajidae	Rajiformes	622
Pristis	*pristis*	(LINNAEUS, 1758)	Pristidae	Rhinopristiformes	411
Aetobatus	*narinari*	(EUPHRASEN, 1790)	Aetobatidae	Myliobatiformes	396
Leucoraja	*erinacea*	(MITCHILL, 1825)	Rajidae	Rajiformes	387
Torpedo	*marmorata*	RISSO, 1810	Torpedinidae	Torpediniformes	336
Mobula	*birostris*	(WALBAUM, 1792)	Mobulidae	Myliobatiformes	330
Mobula	*mobular*	(BONNATERRE, 1788)	Mobulidae	Myliobatiformes	329
Dasyatis	*pastinaca*	(LINNAEUS, 1758)	Dasyatidae	Myliobatiformes	314
Amblyraja	*radiata*	(DONOVAN, 1808)	Rajidae	Rajiformes	279
Dipturus	*batis*	(LINNAEUS, 1758)	Rajidae	Rajiformes	264
Myliobatis	*aquila*	(LINNAEUS, 1758)	Myliobatidae	Myliobatiformes	260
Pristis	*pectinata*	LATHAM, 1794	Pristidae	Rhinopristiformes	256
Pteroplatytrygon	*violacea*	(BONAPARTE, 1832)	Dasyatidae	Myliobatiformes	255
Rhinoptera	*bonasus*	(MITCHILL, 1815)	Rhinopteridae	Myliobatiformes	244
Pastinachus	*sephen*	(FORSSKÅL, 1775)	Dasyatidae	Myliobatiformes	237
Raja	*miraletus*	LINNAEUS, 1758	Rajidae	Rajiformes	234
Raja	*montagui*	FOWLER, 1910	Rajidae	Rajiformes	225
Hypanus	*sabinus*	(LESUEUR, 1824)	Dasyatidae	Myliobatiformes	224
Neotrygon	*kuhlii*	(MÜLLER & HENLE, 1841)	Dasyatidae	Myliobatiformes	219
Himantura	*uarnak*	(FORSSKÅL, 1775)	Dasyatidae	Myliobatiformes	217

Order/Family	Number of Species	Number of Records
Myliobatiformes	**179**	**10340**
Aetobatidae	5	560
Dasyatidae	96	5160
Gymnuridae	12	710
Hexatrygonidae	1	48
Mobulidae	8	1309
Myliobatidae	18	1249
Plesiobatididae	1	73
Potamotrygonidae	2	83
Rhinopteridae	8	599
Urolophidae	28	549
Rajiformes	**345**	**12844**
Anacanthobatidae	14	215
Arhynchobatidae	48	973
Gurgesiellidae	24	483
Potamotrygonidae	35	967
Rajidae	207	9446
Urotrygonidae	17	760
Rhinopristiformes	**69**	**3684**
Glaucostegidae	6	486
Platyrhinidae	5	164
Pristidae	5	1033
Rhinidae	10	473
Rhinobatidae	33	1058
Trygonorrhinidae	8	422
Zanobatidae	2	48
Torpediniformes	**61**	**2376**
Hypnidae	1	46
Narcinidae	32	817
Narkidae	9	299
Torpedinidae	19	1214
Total:	**654**	**29244**

3.3.3.5 Complete list of taxonomically valid chimaeriform species NEW!

Genus	Species	Author	Family	Order	No of records
Callorhinchus	*callorynchus*	(LINNAEUS, 1758)	Callorhinchidae	Chimaeriformes	104
Callorhinchus	*capensis*	DUMÉRIL, 1865	Callorhinchidae	Chimaeriformes	41
Callorhinchus	*milii*	BORY DE SAINT-VINCENT, 1823	Callorhinchidae	Chimaeriformes	154
Chimaera	*argiloba*	LAST, WHITE & POGONOSKI, 2008	Chimaeridae	Chimaeriformes	4
Chimaera	*bahamaensis*	KEMPER, EBERT, DIDIER & COMPAGNO, 2010	Chimaeridae	Chimaeriformes	4
Chimaera	*buccanigella*	CLERKIN, EBERT & KEMPER, 2017	Chimaeridae	Chimaeriformes	1
Chimaera	*carophila*	KEMPER, EBERT, NAYLOR & DIDIER, 2015	Chimaeridae	Chimaeriformes	4
Chimaera	*cubana*	HOWELL RIVERO, 1936	Chimaeridae	Chimaeriformes	16
Chimaera	*didierae*	CLERKIN, EBERT & KEMPER, 2017	Chimaeridae	Chimaeriformes	1
Chimaera	*fulva*	DIDIER, LAST & WHITE, 2008	Chimaeridae	Chimaeriformes	7
Chimaera	*jordani*	TANAKA, 1905	Chimaeridae	Chimaeriformes	9
Chimaera	*lignaria*	DIDIER, 2002	Chimaeridae	Chimaeriformes	19
Chimaera	*macrospina*	DIDIER, LAST & WHITE, 2008	Chimaeridae	Chimaeriformes	5
Chimaera	*monstrosa*	LINNAEUS, 1758	Chimaeridae	Chimaeriformes	281
Chimaera	*notafricana*	KEMPER, EBERT, COMPAGNO & DIDIER, 2010	Chimaeridae	Chimaeriformes	8
Chimaera	*obscura*	DIDIER, LAST & WHITE, 2008	Chimaeridae	Chimaeriformes	4
Chimaera	*opalescens*	LUCHETTI, IGLÉSIAS & SELLOS, 2011	Chimaeridae	Chimaeriformes	9
Chimaera	*orientalis*	ANGULO, LÓPEZ, BUSSING & MURASE, 2014	Chimaeridae	Chimaeriformes	5
Chimaera	*owstoni*	TANAKA, 1905	Chimaeridae	Chimaeriformes	9
Chimaera	*panthera*	DIDIER, 1998	Chimaeridae	Chimaeriformes	9
Chimaera	*phantasma*	JORDAN & SNYDER, 1900	Chimaeridae	Chimaeriformes	55
Chimaera	*willwatchi*	CLERKIN, EBERT & KEMPER, 2017	Chimaeridae	Chimaeriformes	1
Hydrolagus	*affinis*	(DE BRITO CAPELLO, 1868)	Chimaeridae	Chimaeriformes	74
Hydrolagus	*africanus*	(GILCHRIST, 1922)	Chimaeridae	Chimaeriformes	25
Hydrolagus	*alberti*	BIGELOW & SCHROEDER, 1951	Chimaeridae	Chimaeriformes	22
Hydrolagus	*alphus*	QUARANTA, DIDIER, LONG & EBERT, 2006	Chimaeridae	Chimaeriformes	5
Hydrolagus	*barbouri*	(GARMAN, 1908)	Chimaeridae	Chimaeriformes	24
Hydrolagus	*bemisi*	DIDIER, 2002	Chimaeridae	Chimaeriformes	16
Hydrolagus	*colliei*	(LAY & BENNETT, 1839)	Chimaeridae	Chimaeriformes	180
Hydrolagus	*deani*	(SMITH & RADCLIFFE, 1912)	Chimaeridae	Chimaeriformes	3
Hydrolagus	*eidolon*	(JORDAN & HUBBS, 1925)	Chimaeridae	Chimaeriformes	3
Hydrolagus	*erithacus*	WALOVICH, EBERT & KEMPER, 2017	Chimaeridae	Chimaeriformes	1
Hydrolagus	*homonycteris*	DIDIER, 2008	Chimaeridae	Chimaeriformes	8

Genus	Species	Author	Family	Order	No of records
Hydrolagus	*lemures*	(WHITLEY, 1939)	Chimaeridae	Chimaeriformes	16
Hydrolagus	*lusitanicus*	MOURA, FIGUEIREDO, BORDALO-MACHADO, ALMEIDA & GORDO, 2005	Chimaeridae	Chimaeriformes	8
Hydrolagus	*macrophthalmus*	DE BUEN, 1959	Chimaeridae	Chimaeriformes	17
Hydrolagus	*marmoratus*	DIDIER, 2008	Chimaeridae	Chimaeriformes	5
Hydrolagus	*matallanasi*	SOTO & VOOREN, 2004	Chimaeridae	Chimaeriformes	6
Hydrolagus	*mccoskeri*	BARNETT, DIDIER, LONG & EBERT, 2006	Chimaeridae	Chimaeriformes	5
Hydrolagus	*melanophasma*	JAMES & EBERT & LONG & DIDIER, 2009	Chimaeridae	Chimaeriformes	13
Hydrolagus	*mirabilis*	(COLLETT, 1904)	Chimaeridae	Chimaeriformes	37
Hydrolagus	*mitsukurii*	(JORDAN & SNYDER, 1904)	Chimaeridae	Chimaeriformes	23
Hydrolagus	*novaezealandiae*	(FOWLER, 1911)	Chimaeridae	Chimaeriformes	32
Hydrolagus	*ogilbyi*	(WAITE, 1898)	Chimaeridae	Chimaeriformes	29
Hydrolagus	*pallidus*	HARDY & STEHMANN, 1990	Chimaeridae	Chimaeriformes	29
Hydrolagus	*purpurescens*	(GILBERT, 1905)	Chimaeridae	Chimaeriformes	21
Hydrolagus	*trolli*	DIDIER & SÉRET, 2002	Chimaeridae	Chimaeriformes	18
Hydrolagus	*waitei*	FOWLER, 1907	Chimaeridae	Chimaeriformes	5
Harriotta	*haeckeli*	KARRER, 1972	Rhinochimaeridae	Chimaeriformes	23
Harriotta	*raleighana*	GOODE & BEAN, 1895	Rhinochimaeridae	Chimaeriformes	108
Neoharriotta	*carri*	BULLIS & CARPENTER, 1966	Rhinochimaeridae	Chimaeriformes	14
Neoharriotta	*pinnata*	(SCHNAKENBECK, 1931)	Rhinochimaeridae	Chimaeriformes	35
Neoharriotta	*pumila*	DIDIER & STEHMANN, 1996	Rhinochimaeridae	Chimaeriformes	11
Rhinochimaera	*africana*	COMPAGNO, STEHMANN & EBERT, 1990	Rhinochimaeridae	Chimaeriformes	25
Rhinochimaera	*atlantica*	HOLT & BYRNE, 1909	Rhinochimaeridae	Chimaeriformes	45
Rhinochimaera	*pacifica*	(MITSUKURI, 1895)	Rhinochimaeridae	Chimaeriformes	59

3.3.3.6 "Top 20" most studied chimaeriform species NEW!

Genus	Species	Author	Family	No of records
Chimaera	*monstrosa*	LINNAEUS, 1758	Chimaeridae	281
Hydrolagus	*colliei*	(LAY & BENNETT, 1839)	Chimaeridae	180
Callorhinchus	*milii*	BORY DE SAINT-VINCENT, 1823	Callorhinchidae	154
Harriotta	*raleighana*	GOODE & BEAN, 1895	Rhinochimaeridae	108
Callorhinchus	*callorynchus*	(LINNAEUS, 1758)	Callorhinchidae	104
Hydrolagus	*affinis*	(DE BRITO CAPELLO, 1868)	Chimaeridae	74
Rhinochimaera	*pacifica*	(MITSUKURI, 1895)	Rhinochimaeridae	59
Chimaera	*phantasma*	JORDAN & SNYDER, 1900	Chimaeridae	55
Rhinochimaera	*atlantica*	HOLT & BYRNE, 1909	Rhinochimaeridae	45
Callorhinchus	*capensis*	DUMÉRIL, 1865	Callorhinchidae	41
Hydrolagus	*mirabilis*	(COLLETT, 1904)	Chimaeridae	37
Neoharriotta	*pinnata*	(SCHNAKENBECK, 1931)	Rhinochimaeridae	35
Hydrolagus	*novaezealandiae*	(FOWLER, 1911)	Chimaeridae	32
Hydrolagus	*ogilbyi*	(WAITE, 1898)	Chimaeridae	29
Hydrolagus	*pallidus*	HARDY & STEHMANN, 1990	Chimaeridae	29
Hydrolagus	*africanus*	(GILCHRIST, 1922)	Chimaeridae	25
Rhinochimaera	*africana*	COMPAGNO, STEHMANN & EBERT, 1990	Rhinochimaeridae	25
Hydrolagus	*barbouri*	(GARMAN, 1908)	Chimaeridae	24
Harriotta	*haeckeli*	KARRER, 1972	Rhinochimaeridae	23
Hydrolagus	*mitsukurii*	(JORDAN & SNYDER, 1904)	Chimaeridae	23

Order/Family	Number of Species	Number of Records
Chimaeriformes	**56**	**1695**
Callorhinchidae	3	299
Chimaeridae	45	1076
Rhinochimaeridae	8	320
Total:	**56**	**1695**

3.3.4 Papers of new extant genera/species

BORSA, P. & ARLYZA, I.S. & HOAREAU, T.B. & SHEN, K.-N. (2017): Diagnostic description and geographic distribution of four new cryptic species of the blue-spotted maskray species complex (Myliobatoidei: Dasyatidae; *Neotrygon* spp.) based on DNA sequences. *Chinese Journal of Oceanology and Limnology, in press*

New species: *Neotrygon bobwardi, Neotrygon malaccensis, Neotrygon moluccensis, Neotrygon westpapuensis*

Abstract: Nine morphologically similar but genetically distinct lineages in the blue-spotted maskray species complex, previously *Neotrygon kuhlii* (Müller and Henle) qualify as cryptic species. Four of these lineages have been previously described as *Neotrygon australiae* Last, White and Séret, *Neotrygon caeruleopunctata* Last, White and Séret, *Neotrygon orientale* Last, White and Séret, and *Neotrygon varidens* (Garman), but the morphological characters used in the descriptions offered poor diagnoses and their geographic distributions were not delineated precisely. The objective of the present work is to complete the description of the cryptic species in the complex. Here, an additional four lineages are described as new species on the basis of their mitochondrial DNA sequences: *Neotrygon bobwardi*, whose distribution extends from the northern tip of Aceh to the western coast of Sumatera; *Neotrygon malaccensis*, sampled from the eastern part of the Andaman Sea and from the Malacca Strait; *Neotrygon moluccensis*, from the eastern half of the Banda Sea; and *Neotrygon westpapuensis* from the central portion of northern West Papua. The geographic distributions of *N. australiae*, *N. coeruleopunctata*, *N. orientale*, and *N. varidens* are updated. For each species, a diagnosis is provided in the form of a combination of private or partly-private nucleotides at 2–4 nucleotide sites along a 519-base pair fragment of the *CO1* gene. We believe that the present taxonomic revision will provide information relevant to the sound management and conservation of cryptic species of the blue-spotted maskray in the Coral Triangle region.

BORSA, P. (2017): *Neotrygon vali*, a new species of the blue-spotted maskray complex (Myliobatoidei: Dasyatidae). *Species, 18 (60): 146-153*

New species: *Neotrygon vali*

Abstract: The blue-spotted maskray from Guadalcanal Island (Solomon archipelago) is distinct by its colour patterns from *Neotrygon kuhlii* with which it was previously confused, and belongs to a genetic lineage clearly separate from all other known species in the genus *Neotrygon*. It is here described as a new species, *Neotrygon vali* sp. nov., on the basis of its nucleotide sequence at the cytochrome oxidase 1 (CO1) gene locus. It is diagnosed from all other known species in the genus *Neotrygon* by the possession of nucleotide T at nucleotide site 420 and nucleotide G at nucleotide site 522 of the CO1 gene.

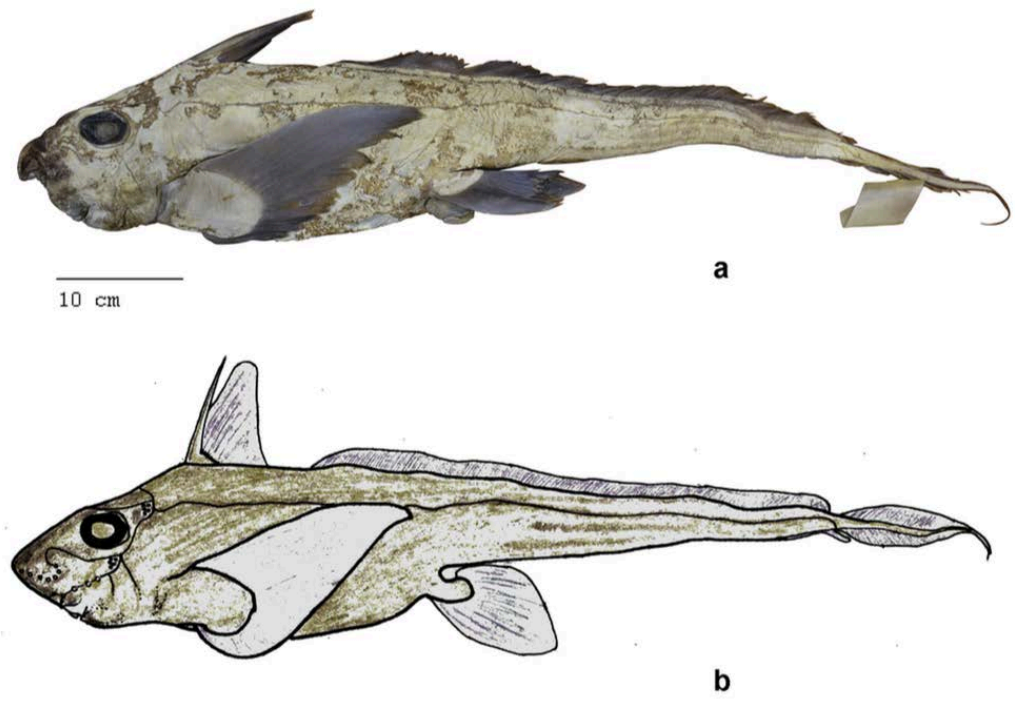


FIGURE 14. Full body lateral *Chimaera didierae*, **sp. nov.**, holotype CAS 242334, immature female, 890 mm TL, 704 mm BDL, 532 mm PCL a) photograph, b) illustration.

CLERKIN, P.J. & EBERT, D.E. & KEMPER, J.M. (2017): New species of Chimaera (Chondrichthyes: Holocephali: Chimaeriformes: Chimaeridae) from the Southwestern Indian Ocean. *Zootaxa, 4312 (1): 1–37*

New species: *Chimaera willwatchi, Chimaera didierae, Chimaera buccanigella*

Abstract: Three new species of *Chimaera* are described from the Southwestern Indian Ocean. *Chimaera willwatchi* sp. nov. is distinguished by its large body, blocky head with square snout, well-defined suborbital ridges, and a strong dorsal spine exceeding first dorsal apex; body brown-purple in color, slight iridescent sheen, heavily mottled around mouth and ventral surface, posterior edge of pelvic fins and first dorsal fin with prominent white margin, and anterior edge of second dorsal fin with white margin. *Chimaera didierae* sp. nov. can be distinguished by its light tan body color, slender body, short trunk, long tail, relatively robust spine, very small unpaired fins, and extremely deciduous skin.*Chimaera buccanigella* sp. nov. is distinguished by its light tan body color, stocky body, short trunk, tapering rapidly into a long tail, long, very straight spine, skin not deciduous. The three *Chimaera* species were collected from seamounts of Walters Shoal, the Madagascar Ridge, and the Southwestern Indian Ridge in an area within 34°30'S–44°05'E and 39°30'S–58°15'E. This is the first record of the genus in the Southwestern Indian Ocean, and brings the global total to 19 species. The new species presented here are distinguishable from their congeners by a combination of coloration, morphology, meristic, and structure of the mitochondrial NADH2 gene.

EBERT, D.A. & PAPASTAMATIOU, Y.P. & KAJIURA, S.M. & WETHERBEE, B.M. (2017): *Etmopterus lailae* sp. nov., a new lanternshark (Squaliformes: Etmopteridae) from the Northwestern Hawaiian Islands. *Zootaxa, 4237 (2): 371–382*

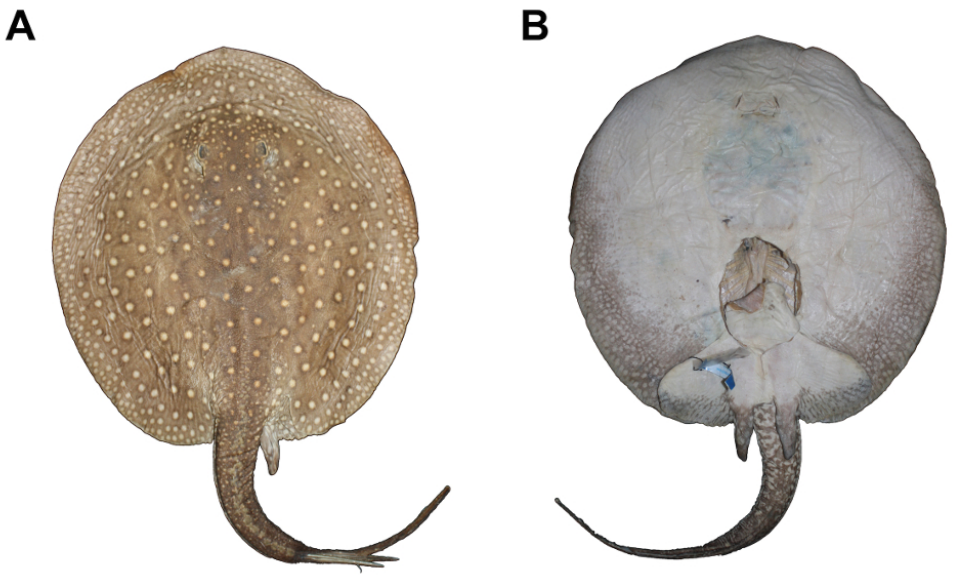
New species: *Etmopterus lailae*

Abstract: A new species of lanternshark, *Etmopterus lailae* (Squaliformes: Etmopteridae), is described from the Northwestern Hawaiian Islands, in the central North Pacific Ocean. The new species resembles other members of the "*Etmopterus lucifer*" clade in having linear rows of dermal denticles, and most closely resembles *E. lucifer* from Japan. The new species occurs along insular slopes around seamounts at depths between 314–384 m. It can be distinguished from other members of the *E. lucifer* clade by a combination of characteristics, including a longer anterior flank marking branch, arrangement of dermal denticles on the ventral snout surface and body, flank and caudal markings, and meristic counts including number of spiral valve turns, and precaudal vertebrate. A key to species of the *Etmopterus lucifer*-clade is included.

EBERT, D.A. & GON, O. (2017): *Rhinobatos austini* n. sp., a new species of guitarfish (Rhinopristiformes: Rhinobatidae) from the Southwestern Indian Ocean. *Zootaxa, 4276 (2): 204–214*

New species: *Rhinobatos austini*

Abstract: *Rhinobatos austini* sp. n. is described from the southwestern Indian Ocean based on four specimens collected from the KwaZulu-Natal Province, South Africa and from Mozambique. The new species, with one exception, can be distinguished from all other members of this genus by a prominent teardrop-shaped dark blotch on the ventral surface of its snout. Its closest congener, *R. holcorhynchus*, also has a prominent teardrop-shaped blotch on its snout, but the new species differs from it by a lack of prominent thorns and tubercles on it dorsal disc surface and a very striking dorsal surface colour pattern of paired spots, some forming darker transverse bands across its back. Geographically, these two species broadly overlap, but *R. austini* appears to be a shallow, more coastal species (<1–107 m) compared to *R. holcorhynchus* that has a mostly offshore (75–254 m) depth distribution.

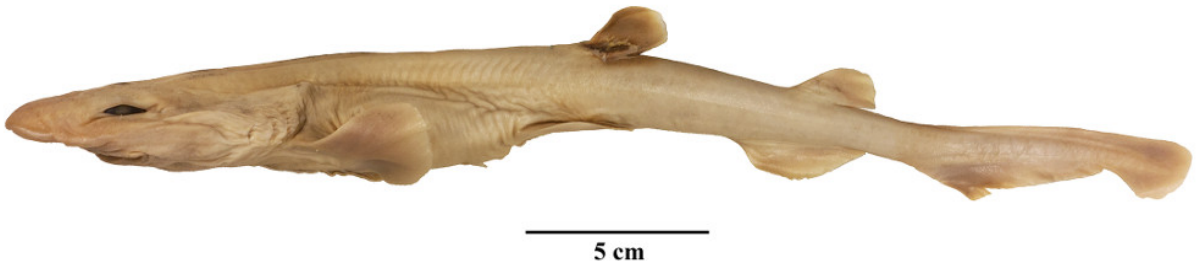


FONTENELLE, J.P. & DE CARVALHO, M.R. (2017): Systematic revision of the *Potamotrygon scobina* Garman, 1913 species-complex (Chondrichthyes: Myliobatiformes: Potamotrygonidae), with the description of three new freshwater stingray species from Brazil and comments on their distribution and biogeography. *Zootaxa, 4310 (1): 1–63*

New species: *Potamotrygon adamastor, Potamotrygon amazona, Potamotrygon garmani*

Abstract: *Potamotrygon scobina* Garman, 1913, described from Cametá, rio Tocantins, lower Amazon basin, is taxonomically reviewed through an extensive morphological study of internal and external features. Specimens identified as *P. scobina* from different locations of the Amazon basin were also studied. The identity of *P. scobina,* its morphology, and distribution are redefined. In addition, three new species closely related to *P. scobina* are described from Brazil: *Potamotrygon adamastor*, sp. nov., from rio Uraricoera, rio Branco system, upper Amazon basin; *Potamotrygon amazona*, sp. nov., from rio Juruá, upper Amazon basin; and *Potamotrygon garmani*, sp. nov., from the mid to upper rio Tocantins. These three new species do not occur sympatrically with *P. scobina*, as far as known. Together with *P. scobina* and *P. limai*Fontenelle, Silva &

Carvalho, 2014, the new species have three angular cartilages of different sizes, a condition not seen in any other potamotrygonin (which have either one or two angulars). Diagnostic characters in combination are primarily morphometric proportions, especially tail length and width, dermal denticles and tail thorns (their relative size, number, morphology, and distribution), tooth size and number of rows, and color pattern.



WEIGMANN, S. & KASCHNER, C.J. (2017): *Bythaelurus vivaldii,* a new deep-water catshark (Carcharhiniformes, Scyliorhinidae) from the northwestern Indian Ocean off Somalia. *Zootaxa, 4263 (1): 97–119*

New species: *Bythaelurus vivaldii*

Abstract: A new very small deep-water catshark, *Bythaelurus vivaldii*, is described based on two female specimens caught off Somalia in the northwestern Indian Ocean during the German 'Valdivia' expedition in 1899. It is morphologically closest to the recently described *B. bachi*, which is the only other *Bythaelurus* species in the western Indian Ocean that shares a stout body of large specimens and the presence of oral papillae. It further resembles *B. vivaldii* in the broad mouth and broad posterior head, but differs in the presence of composite oral papillae and a higher diversity in dermal denticle morphology. Additionally, the new species differs from all congeners in the western Indian Ocean in a larger pre-second dorsal fin length, a longer head, a larger interdorsal space, a larger intergill length, a longer pectoral-fin posterior margin, a shorter caudal fin, an intermediate caudal fin preventral margin, and a larger internarial width. Furthermore, the second dorsal fin of the new species is smaller than in its congeners in the western Indian Ocean except for *B. lutarius*, which is easily distinguished by the slender body and virtual absence of oral papillae, as well as the aforementioned further characters. An updated key to all valid species of *Bythaelurus* is provided.

WHITE, W.T. & CORRIGAN, S. & YANG, L. & HENDERSON, A.C. & BAZINET, A.L. & SWOFFORD, D.L. & NAYLOR, G.J.P. (2017): Phylogeny of the manta and devilrays (Chondrichthyes: Mobulidae), with an updated taxonomic arrangement for the family. *Zoological Journal of the Linnean Society, in press*

Taxonomic change: *Manta* is placed into the synonymy of *Mobula*

Abstract: DNA sequence data from mitochondrial genomes and *c*. 1000 nuclear exons were analysed for a complete taxon sampling of manta and devilrays (Mobulidae) to estimate a current molecular phylogeny for the family. The resulting inferences were combined with morphological information to adopt an integrated approach to resolving the taxonomic arrangement of the family. The members of the genus *Manta* were found to consistently nest within the *Mobula* species and consequently the genus *Manta* is placed into the synonymy of *Mobula*. *Mobula eregoodootenkee*, *M. japanica* and *M. rochebrunei* were each found to be junior synonyms of *M. kuhlii*, *M. mobular* and *M. hypostoma*, respectively. The mitochondrial and nuclear tree topologies were in agreement except for the placement of *M. tarapacana* which was basal to all other mobulids in the nuclear exon analysis, but as the sister group to the *M. alfredi–M. birostris–M. mobular* clade in the mitochondrial genome analysis. Results from this study are used to a revise the taxonomy for the family Mobulidae. A single genus is now recognized (where there were previously two) and eight nominal species (where there were previously 11).

WHITE, W.T. & LAST, P.R. & MANA, R.R. (2017): A new species of velvet skate, *Notoraja sereti* n.sp. (Rajiformes: Arhynchobatidae) from Papua New Guinea*. Zootaxa, 4244 (2): 219–230*

New species: *Notoraja sereti*

Abstract: A new arhynchobatin skate, *Notoraja sereti* n. sp., is described based on three specimens collected from off Madang (Papua New Guinea) at depths of 800–980 m. This medium-size *Notoraja* skate shares with other velcro skates from the Western Pacific, *N. alisae, N. fijiensis*, *N. inusitata* and *N. longiventralis*, a ventral surface covering of fine denticles giving the skin a velvety feel. *Notoraja sereti* differs from all of these species in having a shorter snout (preorbital length 10.1–11.1 *vs*. 11.5–14.5% TL, prenasal length 8.2–8.9 *vs*, 9.8–12.1% TL), shorter head (dorsal head length 15.2–16.2 *vs*. 17.1–19.3% TL, ventral head length 21.6–22.9 *vs*. 22.9–25.9% TL), fewer pectoral-fin radials (total radials 58–60 *vs*. 61–74), and fewer vertebrae (predorsal diplospondylous centra 66–71 *vs*. 72–82, predorsal centra 90–95 *vs*. 98–107, total centra 126–131 *vs*. 135–152).

FIGURE 1. Lateral view of the holotype of *Etmopterus samadiae* n.sp., adult male (NTUM 10078, 265 mm TL), (A) fresh; (B) post-preservation.

WHITE, W.T. & EBERT, D.A. & MANA, R.R. & CORRIGAN, S. (2017): *Etmopterus samadiae* n. sp., a new lanternshark (Squaliformes: Etmopteridae) from Papua New Guinea. *Zootaxa, 4244 (3): 339–354*

New species: *Etmopterus samadiae*

Abstract: A new species of lanternshark, *Etmopterus samadiae* (Squaliformes: Etmopteridae), is described from off northern Papua New Guinea, in the western Central Pacific Ocean. The new species resembles other members of the "*Etmopterus lucifer*" clade in having linear rows of dermal denticles and most closely resembles *E. brachyurus* from the western North Pacific. The new species occurs along insular slopes between 340 and 785 m depth. The new species can be distinguished from other members of the *E. lucifer* clade by a combination of characteristics, including length of anterior flank branch markings being slightly shorter than its posterior branch, a longer caudal base marking, and irregular and variable number of black, horizontal, dash-like marks on sides of body. Molecular analysis based on the NADH2 marker further supports the distinction of *E. samadiae* from other members of the *E. lucifer* clade.

VIANA, S.T. DE. F.L. &, DE CARVALHO, M.R. & EBERT, D.A. (2017): *Squalus bassi* sp. nov., a new long-snouted spurdog (Chondrichthyes: Squaliformes: Squalidae) from the Agulhas Bank. *Journal of Fish Biology, in press*

New species: *Squalus bassi*

Abstract: The long-snouted African spurdog *Squalus bassi* sp. nov. is described based on material collected from the outer shelf and upper continental slope off South Africa and Mozambique. *Squalus bassi* shares with *S. mitsukurii, S. montalbani, S. chloroculus, S. grahami*, *S. griffini, S. edmundsi*, *S. quasimodo* and *S. lobularis* a large snout with prenarial length greater than distance between nostrils and upper labial furrows, dermal denticles tricuspidate and rhomboid and elevated number of vertebrae. *Squalus bassi* can be distinguished from all its congeners by a combination of body and fin colouration, external morphometrics, vertebral counts and shape of dermal denticles. Similar long-snouted congeners from the Indo-Pacific region, including *S. montalbani*, *S. edmundsi* and *S. lalannei* are compared in detail with the new species. This new species has been misidentified as the Japanese *S. mitsukurii* and the Mediterranean *S. blainvillei* due to the lack of comparative morphological analyses. The validity of the nominal species *S. mitsukurii* in the south-eastern Atlantic Ocean and western Indian Ocean is also clarified herein, indicating it has a more restricted geographical distribution in the North Pacific Ocean.

VIANA, S.T. & LISHER, M.W. & DE CARVALHO, M.R. (2017): Two new species of short-snouted dogfish sharks of the genus *Squalus* Linnaeus, 1758, from southern Africa (Chondrichthyes: Squaliformes: Squalidae). *Marine Biodiversity, in press*

New species: *Squalus margaretsmithae, Squalus mahia*

Abstract: Species composition of the genus *Squalus* from the eastern Atlantic and western Indian oceans is still poorly known, with three to four species often recognized: *S. acanthias*, *S. megalops*, *S. blainvillei*, and *S. mitsukurii*. A fifth species, *S. acutipinnis*, was recently redescribed as valid in the region, although morphological variation was noted among its type specimens that indicated the presence of two different forms. The second form is described herein as *Squalus margaretsmithae* sp. nov. and distinguished from *S. acutipinnis* based on external morphological characters. *Squalus mahia* sp. nov. is also described from southern Africa based mostly on material collected from Madagascar. *Squalus mahia* sp. nov. stands out from other *Squalus* species by having a conspicuously slender body, elongate and thin dorsal fin spines, narrow caudal fin, and other external proportions. These two species are often misidentified with the Australian *S. megalops* because they share a short snout, white postventral caudal margins, lanceolate and unicuspid dermal denticles, and a low number of vertebrae. Comparative analyses are provided here between *Squalus margaretsmithae* sp. nov., *Squalus mahia* sp. nov., and morphologically similar species that also share these features, including *S. brevirostris*, *S. crassispinus*, *S. acutipinnis*, *S. altipinnis*, and *S. hemipinnis*. A taxonomic evaluation of the nominal species *S. megalops* and its occurrence in the region is also discussed.

WHITE, W.T. & MANA, R.R. & NAYLOR, G.J.P. (2017): Description of a new species of deepwater catshark *Apristurus yangi* n.sp (Carcharhiniformes: Pentanchidae) from Papua New Guinea. *Zootaxa, 4320 (1): 25–40*

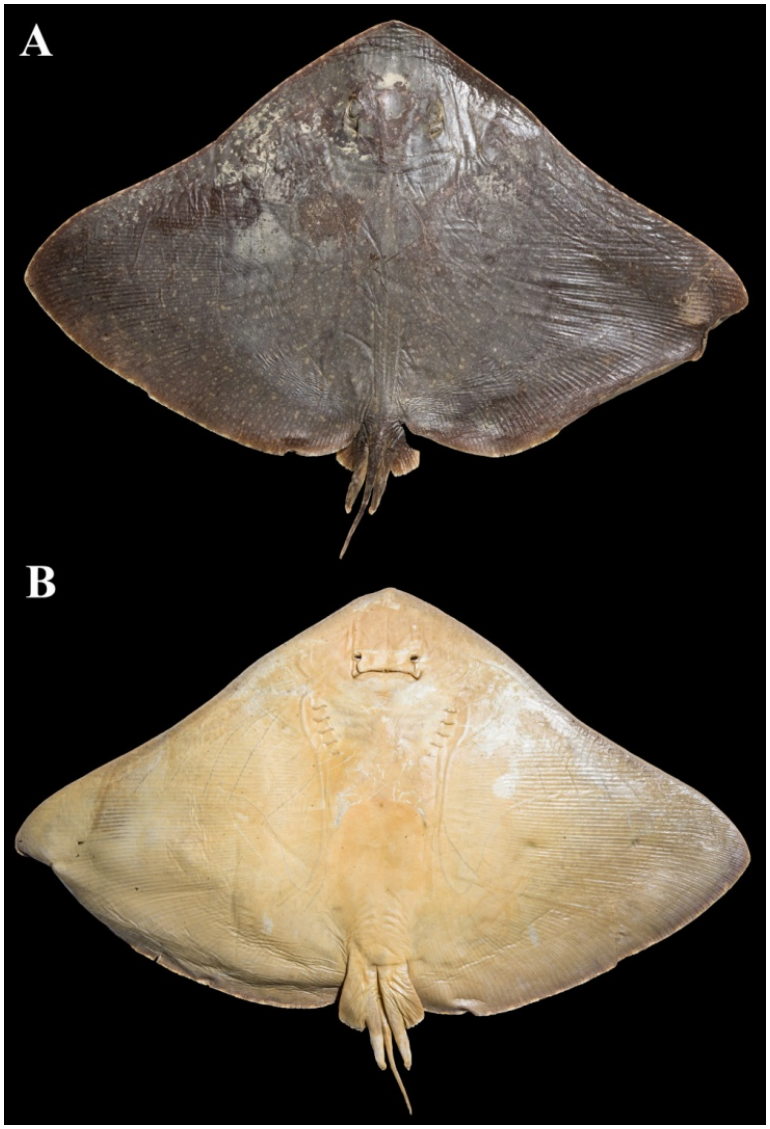
New species: *Apristurus yangi*

Abstract: *Apristurus yangi*, a new species of deepwater catshark, is described from Papua New Guinea based on two specimens collected during recent deepwater surveys. The new species belongs to the *longicephalus*-group which is characterised by its very long snout compared to members of the *brunneus*-group and *spongiceps*-groups. *Apristurus yangi* differs from its closest congeners in a combination of the following characters: 8 intestinal spiral valves; mouth width 7.9–8.6% TL; 32–33 monospondylous centra; 38 precaudal-diplospondylous vertebrae; small in size (female holotype mature at 437 mm TL); egg case small (~5.9 cm long) and with faint longitudinal striations.

WHITE, W.T. & EBERT, D.A. & NAYLOR, G.J.P. (2017): Revision of the genus *Centrophorus* (Squaliformes: Centrophoridae): Part 2—Description of two new species of *Centrophorus* and clarification of the status of *Centrophorus lusitanicus* Barbosa du Bocage & de Brito Capello, 1864. *Zootaxa, 4344 (1): 86–114*

New species: *Centrophorus lesliei, Centrophorus longipinnis*

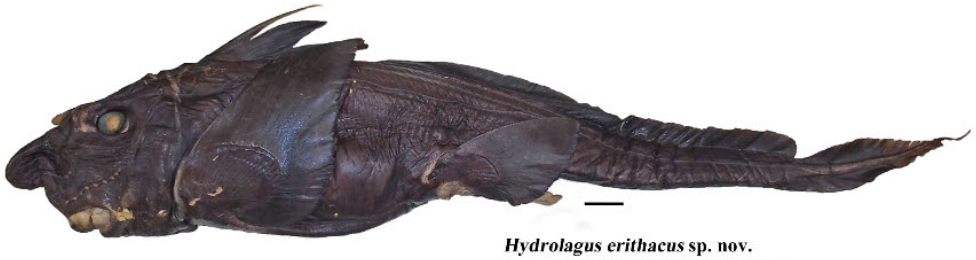
Abstract: *Centrophorus* specimens with a distinctive long-based first dorsal fin (long-finned species) have previously been considered to be *Centrophorus lusitanicus* first described from Portugal. Critical examination of the original description and illustration reveal that *C. lusitanicus* should be considered a junior synonym of *C. granulosus*. However, the specimen considered to be the syntype of *C. lusitanicus* in the Natural History Museum in London is clearly a long-finned species and not conspecific with *C. granulosus*. A more detailed investigation revealed that this specimen should not be considered a syntype and was likely not originally collected off the coast of Portugal. Investigation of long-finned specimens of *Centrophorus* from the Indo-West Pacific and Eastern Atlantic revealed that two undescribed species exist and are herein formally described as *C. lesliei* and *C. longipinnis*. The two species are similar morphologically and belong to the long-snout *Centrophorus* group (e.g. *C. isodon* and *C. harrissoni*) but are clearly separable based on their very long first dorsal fins. The two species differ in relative length of the first dorsal fin and several other characters. They also differ genetically. Nonmetric multidimensional ordination based on morphometric data reveals both species level and ontogenetic differences. A short erratum is also provided for Part 1 of this revision of the *Centrophorus* due to two figure related errors which may cause some confusion.



YOKOTA, L. & DE CARVALHO, M.R. (2017): Taxonomic and morphological revision of butterfly rays of the *Gymnura micrura* (Bloch & Schneider 1801) species complex, with the description of two new species (Myliobatiformes: Gymnuridae). *Zootaxa, 4332 (1): 1-74*

New species: *Gymnura lessae, Gymnura sereti*

Abstract: An extensive taxonomic revision of *Gymnura micrura* based on external and internal morphology, and considering specimens from its entire geographical distribution in the Atlantic Ocean, is presented. *Gymnura micrura* is redescribed and a neotype is designated; its distributional range is limited to the Southwestern Atlantic. Two new species of butterfly rays are described: *Gymnura lessae*, sp. nov., occurring in the North and Central Western Atlantic, and *Gymnura sereti*, sp. nov., found in the Eastern Central Atlantic. The three species are morphologically very similar (with *G. micrura*most similar to *G. lessae*, sp. nov.) and cannot be distinguished based on the primary diagnostic characters typically utilized for butterfly rays. The dorsal color, smaller size and eventual presence of a dorsal fin in some males may be helpful to distinguish *G. micrura*, whereas the size and morphology of the clasper are the main external characters separating *G. sereti*, sp. nov., from the other two species, although the shape of disc (especially among adult males) and contour of the lower lip are also helpful. Despite the skeleton being conservative among the species, we found consistent variations that support the validity of the new species described. Due to similarity in external morphology these internal characters were fundamental to discriminate the new species. The scapulocoracoid was an important diagnostic skeletal structure, exhibiting a series of variations that separated the three species. Variations in the synarcual, outline of the dorsal cranial fontanelle, number and shape of mesopterygia, and small differences in the mandibular arches and pelvic girdle were useful to diagnose *G. sereti,* sp. nov. The contour of the hyomandibula was an important diagnostic character distinguishing *G. lessae*, sp. nov., from the other two species. Meristic data were also useful, with *G. sereti,* sp. nov.,presenting a lower number of radials in the second element of the mesopterygium and a higher number of diplospondylous vertebrae. In contrast, *G. lessae*, sp. nov., presented a higher number of pectoral-fin radials. Subtle, but consistent differences, were also found in the design of the ventral lateral-line system. A Canonical Discriminant Analysis provides strong statistical support for the validity of the new species, significantly distinguishing the three species groupings ($p < 0.00001$). External morphology, ventral lateral-line system and skeleton are described and illustrated for all three valid species.



***Hydrolagus erithacus* sp. nov.**
Walovich, Ebert & Kemper 2017

WALOVICH, K.A. & EBERT, D.A. & KEMPER, J.M. (2017): *Hydrolagus erithacus* sp. nov. (Chimaeriformes: Chimaeridae), a new species of chimaerid from the southeastern Atlantic and southwestern Indian oceans. *Zootaxa, 4226 (4): 509–520*

New species: *Hydrolagus erithacus*

Abstract: A new species of chimaerid, *Hydrolagus erithacus* sp. nov., is described from nine specimens collected from the southeast Atlantic and southwest Indian oceans from depths of 470–1,000 meters. This species is distinguished from all other *Hydrolagus* species based on the following characteristics: head bulky, relatively large, followed by stocky body; head and body height from about pectoral fin origin to pelvic fin origin similar, then tapering rapidly to filamentous tail; first dorsal fin spine height about equal to, or slightly less than first dorsal fin apex height; second dorsal fin up to 81% of total body length and uniform in height; trifurcate claspers forked for approximately 20% of total length; robust frontal tenaculum nearly uniform in width, prepelvic tenaculae with five to seven medial spines, and a uniform black coloration with robust, non-deciduous skin. Comparison of mitochondrial NADH2 gene sequences with other morphologically similar *Hydrolagus* species suggests that *H. erithacus* is a distinct species.

3.4 Parasitology

3.4.1 Research Articles

ALVES, P.V. & DECHAMBRIER, A. & SCHOLZ, T. & LUQUE, J.L. (2017) Annotated checklist of fish cestodes from South America. *Zookeys (650): 1–205* http://dx.doi.org/10.3897/zookeys.650.10982

AMINJAN, A.R. & MASOUMEH, M. (2017) Two new species of Tetragonocephalum (Cestoda: Lecanicephalidea) from Pastinachus sephen (Myliobatiformes: Dasyatidae) from the Gulf of Oman. *Folia Parasitologica, 64: 14* http://dx.doi.org/10.14411/fp.2017.014

BAŞUSTA, N. & MUTLU, E. & DEVAL, M.C. (2017) Parasitic isopods (Anilocra frontalis H. Milne Edwards, 1830 and Ceratothoa capri (Trilles, 1964)) from the Antalya Bay (Turkey) with new host records. *Turkish Journal of Science & Technology, 12 (1): 11-15*

BENZ, G.W. & BOXSHALL, G.A. (2017) Redescription of Tripaphylus musteli (van Beneden, 1851) (Copepoda: Sphyriidae) and the relegation of Paeon Wilson, 1919 to synonymy with Tripaphylus Richiardi in Anonymous, 1878. *Systematic Parasitology, 94 (6): 689-698* http://dx.doi.org/10.1007/s11230-017-9734-4

BERNOT, J.P. & BOXSHALL, G.A. (2017) A new species of Pseudopandarus Kirtisinghe, 1950 (Copepoda: Siphonostomatoida: Pandaridae) from sharks of the genus Squalus L. in New Caledonian waters. *Systematic Parasitology, 94 (2): 275–291* http://dx.doi.org/10.1007/s11230-016-9692-2

BOLOGNINI, L. & LEONI, S. & POLIDORI, P. & GRATI, F. & SCARCELLA, G. & PELLINI, G. & DOMENICHETTI, F. & FERRÃ, C. & FABI, G. (2017) Occurrence of the leech, Pontobdella muricata Linnaeus, on elasmobranch species in the Northern and Central Adriatic Sea. *Journal of Parasitology, 102 (6): 643–645*

BRUŇANSKÁ, M. & MACKIEWICZ, J.S. & PODDUBNAYA, L.G. (2017) Spermatological characteristics of the enigmatic monogenean Dictyocotyle coeliaca Nybelin, 1941 (Monopisthocotylea: Monocotylidae) reveal possible adaptation to endoparasitism. *Acta Parasitologica, 62 (1): 110–120* http://dx.doi.org/10.1515/ap-2017-0013

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3.4.2 Descriptions of new Parasites of Elasmobranchs (genera/species)

3.4.2.1 List of new Parasites of Elasmobranchs (genera)

Barbeaucestus	CAIRA, HEALY, MARQUES & JENSEN, 2017	(Rhinebothriidea: Anthocephaliidae)
Divaricobothrium	CAIRA, HEALY, MARQUES & JENSEN, 2017	(Rhinebothriidea: Anthocephaliidae)
Olgaella	HASELI & MALEKPOUR FARD, 2017	(Trypanorhyncha: Otobothriidae)
Sungaicestus	CAIRA, HEALY, MARQUES & JENSEN, 2017	(Rhinebothriidea: Anthocephaliidae)

3.4.2.2 List of new Parasites of Elasmobranchs (species)

Heterosphyriocephalus encarnae	DALLARES, CARRASSON & SCHAEFFNER, 2017	(Trypanorhyncha: Sphyriocephalidae)
Mycteronastes caalusi	KRITSKY, BULLARD, BAKENHASTER, SCHARER & POULAKIS, 2017	(Monocotylidea: Monocotylidae)
Olgaella elenae	HASELI & MALEKPOUR FARD, 2017	(Trypanorhyncha: Otobothriidae)
Paraorygmatobothrium christopheri	CUTMORE, BENNETT, MILLER & CRIBB, 2017	(Phyllobothriidea: Phyllobothriidae)
Paraorygmatobothrium harti	CUTMORE, BENNETT, MILLER & CRIBB, 2017	(Phyllobothriidea: Phyllobothriidae)
Paraorygmatobothrium sinclairtaylori	CUTMORE, BENNETT, MILLER & CRIBB, 2017	(Phyllobothriidea: Phyllobothriidae)
Paraorygmatobothrium ullmanni	CUTMORE, BENNETT, MILLER & CRIBB, 2017	(Phyllobothriidea: Phyllobothriidae)
Pseudanisakis argentinensis	IRIGOITIA, BRAICOVICH, FARBER & TIMI, 2017	(Ascaridida: Anisakidae)
Pseudopandarus cairae	BERNOT & BOXSHALL, 2017	(Siphonostomatoida: Pandaridae)
Rhinebothrium reydai	TREVISAN & MARQUES, 2017	(Rhinebothriidea: Rhinebothriidae)
Tetragonocephalum kazemii	AMINJAN & MASOUMEH, 2017	(Lecanicephalidea: Tetragonocephalidae)
Tetragonocephalum mackenziei	AMINJAN & MASOUMEH, 2017	(Lecanicephalidea: Tetragonocephalidae)
Trebius benzi	DIPPENAAR, 2017	(Siphonostomatoida: Trebiidae)
Tripaphylus beatricae	DIPPENAAR, 2017	(Siphonostomatoida: Sphyriidae)
Tripaphylus benzi	DIPPENAAR, 2017	(Siphonostomatoida: Sphyriidae)
Tripaphylus hoi	DIPPENAAR, 2017	(Siphonostomatoida: Sphyriidae)
Tripaphylus lewisi	DIPPENAAR, 2017	(Siphonostomatoida: Sphyriidae)

3.4.3 Papers of new parasites genera/species

AMINJAN, A.R. & MASOUMEH, M. (2017): Two new species of *Tetragonocephalum* (Cestoda: Lecanicephalidea) from *Pastinachus sephen* (Myliobatiformes: Dasyatidae) from the Gulf of Oman. *Folia Parasitologica, 64: 14*

New species: *Tetragonocephalum mackenziei, Tetragonocephalum kazemii*

Abstract: In the present study two new species of *Tetragonocephalum* Shipley et Hornell, 1905, *T. mackenziei* sp. n. and *T. kazemii* sp. n., are described from the spiral intestine of the cowtail stingray, *Pastinachus sephen* (Forsskål), from the northern coast of the Gulf of Oman. *Tetragonocephalum mackenziei* is distinguished from the 16 other valid species of *Tetragonocephalum* by a unique combination of characteristics, i.e. sperm-filled seminal receptacle in immature proglottids, body length (7.7-17.5 mm), body width (213-288 µm), number of proglottids (34-49), number of testes (10-14), size of scolex (228-315 µm × 213-288 µm) and size of acetabula (56-73 µm × 61-75 µm). *Tetragonocephalum kazemii* is morphologically distinguishable from its valid congeners and *T. mackenziei* based on a combination of characteristics, including body length (28.8-36.6 mm), number of proglottids (50-65), number of testes (30-42), size of scolex (388-564 µm × 326-448 µm), size of acetabula (62-86 µm × 57-90 µm) and testes (25-39 × 21-32). This brings the total number of validly described species of *Tetragonocephalum* to 18 and expands our knowledge of this diverse genus to now include the Gulf of Oman, as well as Arafura Sea, northern Indian Ocean and western Pacific Ocean.

BERNOT, J.P. & BOXSHALL, G.A. (2017): A new species of *Pseudopandarus* Kirtisinghe, 1950 (Copepoda: Siphonostomatoida: Pandaridae) from sharks of the genus *Squalus* L. in New Caledonian waters. *Systematic Parasitology, 94 (2): 275–291*

New species: *Pseudopandarus cairae*

Abstract: Both sexes of a new species of pandarid copepod are described from sharks of the genus *Squalus* L. (Squaliformes: Squalidae). Specimens of *Pseudopandarus cairae* n. sp. were collected from *Squalus bucephalus* Last, Séret & Pogonoski and *S. melanurus* Fourmanoir & Rivaton in New Caledonian waters, the first parasitic copepod to be described from either host species. This is the eighth nominal species of *Pseudopandarus* Kirtisinghe, 1950 and the first to be described from a shark of the order Squaliformes. *Pseudopandarus cairae* n. sp. is easily distinguished from *P. australis* Cressey & Simpfendorfer, 1988, *P. longus* (Gnanamuthu, 1951) Cressey, 1967, and *P. pelagicus* Rangnekar, 1977 in having the female genital complex concealed beneath an elongate dorsal genital shield with a trilobed posterior margin. It can be distinguished from *P. gracilis* Kirtisinghe, 1950 and *P. scyllii* Yamaguti & Yamasu, 1959 by the armature of the leg 4 endopod and by the proportions of the dorsal genital shield. The new species is unique among known species of *Pseudopandarus* in its possession of only 1 setal element on the distal endopod segment of leg 4. In addition to describing the new species, the host associations of all species of *Pseudopandarus* are reviewed and observations are made regarding sexual dimorphism and mode of attachment. A key to the species considered valid is provided.

CUTMORE, S.C. & BENNETT, M.B. & MILLER, T.L. & CRIBB, T.H. (2017): Patterns of specificity and diversity in species of *Paraorygmatobothrium* Ruhnke, 1994 (Cestoda: Phyllobothriidae) in Moreton Bay, Queensland, Australia, with the description of four new species. *Systematic Parasitology, 94 (9): 941-970*

New species: *Paraorygmatobothrium christopheri, Paraorygmatobothrium harti, Paraorygmatobothrium sinclairtaylori, Paraorygmatobothrium ullmanni,*

Abstract: A survey of tapeworms of galeomorph sharks from Moreton Bay (Queensland, Australia) identified a complex of species of *Paraorygmatobothrium* Ruhnke, 1994 infecting 11 carcharhiniform and two orectolobiform species. Combined morphological and multi-locus molecular analyses (based on the 28S nuclear ribosomal RNA and partial mitochondrial NADH dehydrogenase subunit 1 genes) revealed the presence of 12 species of *Paraorygmatobothrium*; four species (*Paraorygmatobothrium christopheri* n. sp., *P. harti* n. sp., *P. sinclairtaylori* n. sp. and *P. ullmanni* n. sp.) are considered to be new to science and are formally described, four represent known species, and four lack sufficient morphological data to allow definitive identification. In contrast to previous records for the genus, four of the species found in this study exhibited low host specificity [*P. orectolobi* (Butler, 1987) Ruhnke, 2011, *P. sinclairtaylori*, *P. ullmanni* and *Paraorygmatobothrium* sp. 3], three stenoxenic species were each found in two closely-related sharks (*P. orectolobi*, *P. ullmanni* and *Paraorygmatobothrium* sp. 3) and one euryxenic species was found in five species from two shark families (*P. sinclairtaylori*). One species was found to exhibit mild morphologically plasticity (*P. orectolobi*), with size range being associated with different shark species. Conversely, collections of almost morphologically indistinguishable specimens from single shark species were found to represent multiple species of *Paraorygmatobothrium*. The findings of this study indicate that the description of species of this genus on the basis of morphological data alone is problematic and that the inclusion of multi-locus molecular data is essential for future work on *Paraorygmatobothrium*. Host specificity, morphology and phylogenetic relatedness of species of *Paraorygmatobothrium* are explored.

DALLARES, S. & CARRASSON, M. & SCHAEFFNER, B.C. (2017): Revision of the family Sphyriocephalidae Pintner, 1913 (Cestoda: Trypanorhyncha), with the description of *Heterosphyriocephalus encarnae* n. sp and redescriptions of two species of *Sphyriocephalus. Parasitology International, 66 (1): 843–862*

New species: *Heterosphyriocephalus encarnae*

Abstract: The family Sphyriocephalidae Pintner, 1913, which comprises the genera *Hepatoxylon* Bosc, 1811, *Sphyriocephalus* Pintner, 1913 and *Heterosphyriocephalus* Palm, 2004, is revised from newly-collected and museum material. *Heterosphyriocephalus encarnae* n. sp. is described from the pelagic thresher, *Alopias pelagicus* Nakamura (Lamniformes: Alopiidae) collected from the Pacific Ocean off Boca del Alamo, Mexico. This species can be readily distinguished from the rest of sphyriocephalids by its small size, low number of proglottids and long velum with a characteristically irregular and folded border, among other features. The tentacles show a distinctive basal armature, and a heteroacanthous typical metabasal armature with heteromorphous hooks. Redescriptions are provided for *Sphyriocephalus tergestinus* Pintner, 1913 and *S. viridis* (Wagener, 1854) Pintner 1913 based on novel morphological data. A phylogenetic analysis including the available sequences of sphyriocephalid species plus new generated sequences of *S. tergestinus* has been performed, from which *S. tergestinus* is allocated into *Heterosphyriocephalus* as *H. tergestinus* n. comb. New dichotomous keys for the determination of genera of Sphyriocephalidae are provided, as well as new generic diagnoses for *Sphyriocephalus* and *Heterosphyriocephalus* and keys for the determination of species within both genera. Although the morphology of the genus *Hepatoxylon* is not addressed in the present study, the available sequence of the type-species has been incorporated in the phylogenetic analysis and its relationship to the other two genera of the family is discussed.

DIPPENAAR, S.M. (2017): Description of four new species and a revision of the genus *Tripaphylus* Richiardi in Anonymous, 1878 (Copepoda: Siphonostomatoida: Sphyriidae). *Systematic Parasitology, in press*

New species: *Tripaphylus lewisi,Tripaphylus benzi, Tripaphylus hoi, Tripaphylus beatricae*

Abstract: *Tripaphylus* Richiardi in Anonymous, 1878 is one of the genera of the Sphyriidae Wilson, 1919 and it currently accommodates ten species. Only scanty descriptions are available for the females and some males of the species. *Tripaphylus* specimens, described and illustrated in this paper, were collected from

elasmobranch hosts off the South African coast or came from the private collection of the late Dr G. Benz. Collected specimens were fixed and preserved in 70% ethanol, examined by light - and scanning electron microscopy, and compared with the known species. Descriptions and illustrations are provided for the transformed adult females and males of *T. elongatus* (Wilson, 1932) and *T. versicolor* (Wilson, 1919) while illustrated descriptions of the transformed adult females are also provided for *T. ferox* (Wilson, 1919) and *T. vaissierei* (Delamare Deboutteville & Nuñes-Ruivo, 1954). Additionally, the material previously reported as *T. ferox* is considered to represent *T. elongatus* and that reported as *T. lobatus* (Kirtisinghe, 1964) is considered a junior synonym of *T. vaissierei*. Based on the collected material the transformed adult female and male of *T. lewisi* n. sp. are described as well as the adult transformed females of *T. benzi* n. sp., *T. hoi* n. sp., and *T. beatricae* n. sp. A summarised review of the main features is provided for each of the previously described *T. musteli* (van Beneden, 1851), *T. hemigalei* Kirtisinghe, 1964, *T. australis* (Kabata, 1993), *T. triakis* (Castro Romero, 2001) and *T. asymboli* (Turner, Kyne & Bennett, 2003). Furthermore, reasons are provided for the recommendation that *T. hemigalei* be considered a *species inquirenda*. An identification key to the transformed adult females of all species of *Tripaphylus* is provided and the host records are also updated.

DIPPENAAR, S.M. (2017): *Trebius benzi* n. sp. (Siphonostomatoida: Trebiidae) infecting Squalus acutipinnis Regan off South Africa. *Systematic Parasitology, 94 (1): 91-96*

New species: *Trebius benzi*

Abstract: *Trebius* Krøyer, 1838 currently consists of 15 accepted species all infecting elasmobranchs. Apart from two species, i.e. *T. caudatus* Krøyer, 1838 and *T. latifurcatus* Wilson, 1921, that have been reported from ten and eight host species, respectively, the other 13 species have each been reported from only one or two host species. *Trebius benzi* n. sp., collected from *Squalus acutipinnis* Regan, is described and illustrated after examination through stereo- and compound microscopes. This species can be distinguished from the other known species by a combination of characters including an abdomen that is shorter than the genital complex, a maxillule with an endite that consists of a single-tined dentiform process, sternal furca tines that are blunt and as long as the base, and the innermost spine of the last exopodal segment of leg 1 the shortest.

HASELI, M. & MALEKPOUR FARD, Z. (2017): A new genus and species of the trypanorhynch family Otobothriidae Dollfus, 1942 from the slender weasel shark *Paragaleus randalli* Compagno, Krupp & Carpenter (Hemigaleidae) in the Persian Gulf. *Systematic Parasitology, 94 (7): 765-775*

New genus: *Olgaella*

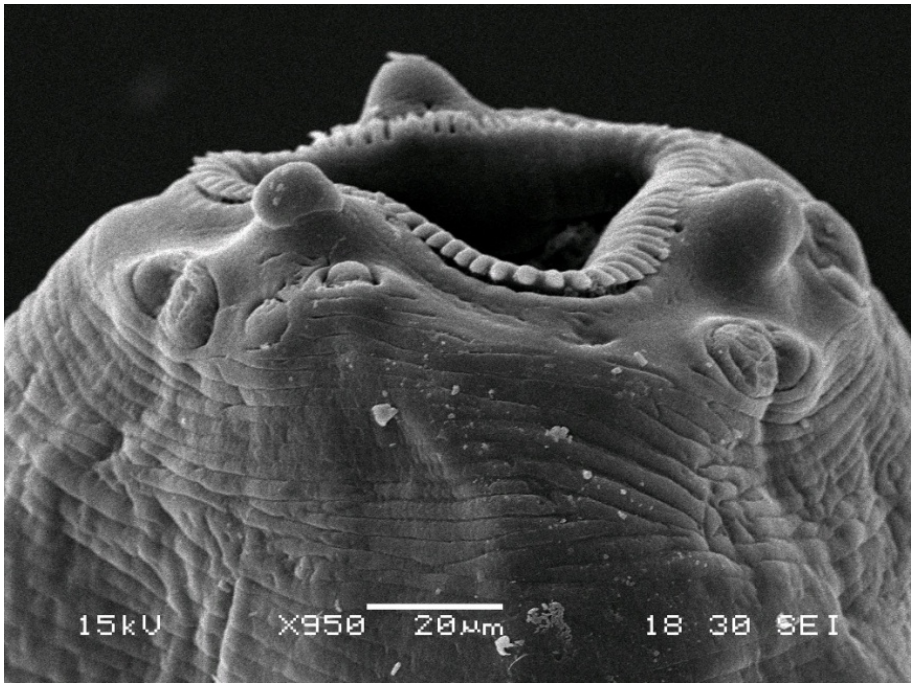
New species: *Olgaella elenae*

Abstract: *A survey on the cestode fauna of Paragaleus randalli Compagno, Krupp & Carpenter in the Persian Gulf resulted in the discovery of a new trypanorhynch species of the family Otobothriidae Dollfus, 1942, the second otobothrioid species hosted by the family Hemigaleidae Hasse. The new species exhibits the closest morphological similarity to Pristiorhynchus palmi Schaeffner & Beveridge, 2013, the type- and only species of its genus. However, the new species differs from P. palmi in the position of the bothrial pits, the morphology and oncotaxy of the basal armature, the commencement of the hook files on the internal surface, a wider scolex peduncle in the pars bulbosa than in the pars vaginalis, a long neck and the presence of a lateral bothrial groove connecting the two bothrial pits to each other. The latter character is a unique trait within the Otobothrioidea Dollfus, 1942. Considering such differences, a new genus, Olgaella n. g., was erected to accommodate O. elenae n. g., n. sp. within the Otobothriidae. The evolutionary relatedness of the bothrial pits of the Otobothrioidea and the bothrial grooves of the Lacistorhynchoidea Guiart, 1927 is discussed.*

KRITSKY, D.C. & BULLARD, S.A. & BAKENHASTER, M.D. & SCHARER, R.M. & POULAKIS, G.R. (2017): Resurrection of Mycteronastes (Monogenoidea: Monocotylidae), with Description of *Mycteronastes caalusi* n. sp. from Olfactory Sacs of the Smalltooth Sawfish, *Pristis pectinata* (Pristiformes: Pristidae), in the Gulf of Mexico off Florida. *Journal of Parasitology, 103 (5): 477-485*

New species: *Mycteronastes caalusi*

Abstract: *Mycteronastes* Kearn and Beverley-Burton, 1990 (Monogenoidea: Monocotylidae: Merizocotylinae) was resurrected from subjective synonymy with *Merizocotyle*Cerfontaine, 1894, and its diagnosis was emended to include monocotylids with a haptor lacking a central loculus and having 5 peripheral (2 bilateral pairs and an unpaired anteromedial loculus), 1 interhamular, and 17 marginal loculi. The 3 species of *Mycteronastes* accepted herein are parasitic within the olfactory sacs of rays and sawfishes: *Mycteronastes icopae* (Beverley-Burton and Williams, 1989) Kearn and Beverley-Burton, 1990 (type species) from the giant shovelnose ray, *Glaucostegus typus*(Anonymous (Bennett)) (Glaucostegidae), in the southwestern Pacific Ocean; *Mycteronastes undulatae* Kearn and Beverley-Burton, 1990 from the undulate ray, *Raja undulata* Lacepède (Rajidae), in the northeastern Atlantic Ocean; and *Mycteronastes caalusi* n. sp. from the smalltooth sawfish, *Pristis pectinata* Latham (Pristidae), in the Gulf of Mexico. *Mycteronastes caalusi* is most easily differentiated from its congeners by the combination of having 2 median cephalic papillae, an oval haptor that is wider than the body proper and lacks a deeply scalloped margin, a comparatively large anteromedial peripheral loculus, an unsclerotized male copulatory organ that is wholly anterior to the vaginal pores, a relatively small distal portion of the uterus (ootype chamber) that is mostly anterior to the vaginae, and a delicate uterus. The present study is the first report of a monocotylid from the olfactory sacs of *P. pectinata* and the first record of a species of *Mycteronastes* from the Gulf of Mexico. Notes on the taxonomy and systematics of some species assigned to *Calicotyle* Diesing, 1850 (Monocotylidae: Calicotylinae) are included.



IRIGOITIA, M.M. & BRAICOVICH, P.E. & FARBER, M.D. & TIMI, J.T. (2017): Morphological and molecular evidence for a new species of *Pseudanisakis* Layman & Borovkova, 1926 (Nematoda: Ascaridida), parasitizing Rajiformes in southern Southwest Atlantic waters. *Parasitology Research, in press*

New species: *Pseudanisakis argentinensis*

Abstract: *Pseudanisakis argentinensis* n. sp. is proposed to accommodate parasitic nematodes found in six skate species (Rajidae and Arhynchobatidae) examined from southern Southwest Atlantic waters. The new species differs from its congeners by the following combination of characters: a cupola on each lip, males with 8–12 pairs of precloacal genital papillae, a larger size for both males and females, a greater length-to-breadth ratio of the ventriculus and the presence of a small knob on the tip of the tail. Allometric growth was observed for several morphometric features; however, the slopes of the allometric relationships across host species exhibited non-significant differences and were considered as a strong evidence for conspecificity. Congruent results were obtained after the genetic characterization of the mitochondrial cytochrome *c* oxidase subunit 1 gene of worms obtained from different skate species, whose values of genetic divergence (1.3) lay within the range of intraspecific variation. Previous records of specimens referred to as *Pseudanisakis tricupola* in skates from South American waters are regarded as conspecific with *P. argentinensis* n. sp.

IRIGOITIA, M.M. & BRAICOVICH, P.E. & FARBER, M.D. & TIMI, J.T. (2017): Three new genera of rhinebothriidean cestodes from stingrays in Southeast Asia. *Folia Parasitologica, 64: 008*

New genus: *Barbeaucestus, Divaricobothrium, Sungaicestus*

New species: *Barbeaucestus jockuschae, Barbeaucestus ralickiae, Divaricobothriurn tribelum*

Abstract: Three genera of rhinebothriideans, previously referred to as New genus 1, New genus 2 and New genus 4, are erected in the the Anthocephaliidae. New genus 1 is established as *Divaricobothrium* gen. n., with *Divaricobothrium tribelum* sp. n. as its type species; *Echeneibothrium trifidum* Shipley et Hornell, 1906 is transferred to the genus as *Divaricobothrium trifidum* (Shipley et Hornell, 1906) comb. n. This genus is unique among rhinebothriidean genera in bearing bothridia that are posteriorly deeply divided into two lobes with facial loculi but no apical sucker, and a vagina that extends to near the anterior margin of the proglottid. Its species parasitise Indo-Pacific members of the genera *Brevitrygon* Last, Naylor et Manjaji-Matsumoto, *Maculabatis* Last, Naylor et Manjaji-Matsumoto and *Pateobatis* Last, Naylor et Manjaji-Matsumoto. New genus 2 is established as *Barbeaucestus* gen. n., with *Barbeaucestus jockuschae* sp. n. as its type species; *Barbeaucestus ralickiae* sp. n. is also described. *Anthobothrium sexorchidum* Williams, 1964 and *Rhinebothrium shipleyi* Southwell, 1912 are transferred to the genus as *Barbeaucestus sexorchidus* (Williams, 1964) comb. n. and *Barbeaucestus shipleyi* (Southwell, 1912) comb. n., respectively. This genus is unique among rhinebothriidean genera in that its bothridia are substantially wider than long, bear an apical sucker and at least one row of two or more facial loculi in their anterior half. Its species parasitise the genera *Neotrygon* Castelnau and *Taeniura* Müller et Henle. New genus 4 is established as *Sungaicestus* gen. n. with transfer of *Rhinebothrium kinabatanganensis* Healy, 2006, as *Sungaicestus kinabatanganensis* (Healy, 2006) comb. n., as its type species. Among the genera of its order, this genus most closely resembles *Rhinebothrium* Linton, 1890, however, despite the original description, the bothridia were found to bear, rather than lack, apical suckers. This monotypic genus is known only from the freshwater stingray *Urogymnus polylepis* (Müller et Henle). The familial diagnosis of the Anthocephaliidae Ruhnke, Caira et Cox, 2015 is emended. The family now houses five genera.

KRITSKY, D.C. & BULLARD, S.A. & RUIZ, C.F. & WARREN, M.B. (2017): *Empruthotrema longipenis* n. sp (Monogenoidea: Monocotylidae: Merizocotylinae) from the olfactory sacs of the smooth butterfly ray *Gymnura micrura* (Bloch & Schneider) (Myliobatiformes: Gymnuridae) in the Gulf of Mexico. *Systematic Parasitology, 94 (7): 777-784*

New species: *Empruthotrema longipenis*

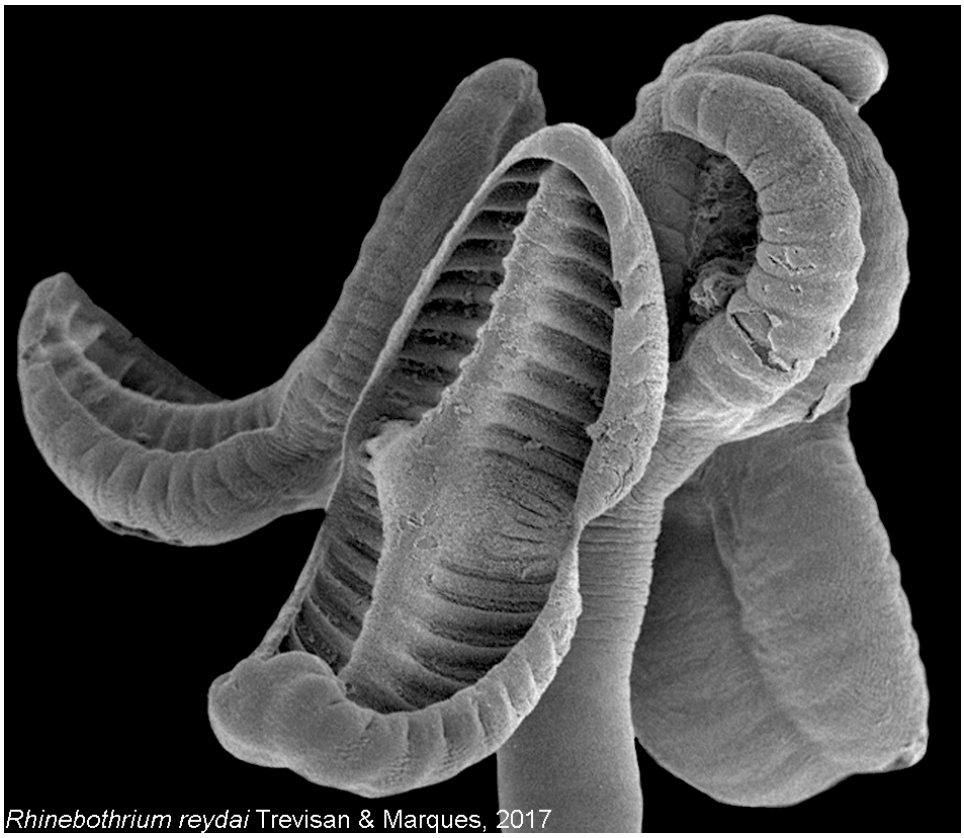
Abstract: A new species of *Empruthotrema* Johnston & Tiegs, 1922 is described based on specimens collected from the olfactory sacs of smooth butterfly rays *Gymnura micrura* (Bloch & Schneider) captured in Mobile Bay (northcentral Gulf of Mexico), Alabama, USA. *Empruthotrema longipenis* n. sp. is most similar to

the type-species *Empruthotrema raiae* (MacCallum, 1916) Johnston & Tiegs, 1922 by having 12 marginal and two interhamular loculi with members of haptoral hook pair 1 located midway along the periphery of each interhamular loculus and those of hook pair 2 located at the marginal termini of the bilateral septa flanking the interhamular loculi. *Empruthotrema longipenis* n. sp. differs from *E. raiae* by having a much longer male copulatory organ and from its remaining congeners by the sinistral and extracecal ejaculatory bulb flanking the pharynx, the number of interhamular and marginal septa, and the distribution of hook pairs 1 and 2 along the haptoral margin. This is the first report of a monocotylid from the smooth butterfly ray and from Mobile Bay. The diversity of haptoral morphotypes among the currently accepted species of *Empruthotrema* is detailed and discussed in the context of monophyly of the genus.

MENORET, A. & MUTTI, L. & IVANOV, V.A. (2017): New species of *Aberrapex* Jensen, 2001 (Cestoda: Lecanicephalidea) from eagle rays of the genus *Myliobatis* Cuvier (Myliobatiformes: Myliobatidae) from off Argentina. *Folia Parasitologica, 64: 009*

New species: *Aberrapex ludmilae, Aberrapex sanmartini, Aberrapex vitalemuttiorum*

Abstract: Three new species of *Aberrapex* Jensen, 2001 (Cestoda: Lecanicephalidea) have been collected from species of *Myliobatis* Cuvier along the coast of Argentina. *Aberrapex ludmilae* sp. n. parasitises *M. goodei* Garman in the San Matías Gulf. This species is unique in a combination of features including the shape and extent of the uterus, scolex size, testis distribution, and by lacking an external seminal vesicle and postovarian vitelline follicles. *Aberrapex sanmartini* sp. n. from *M. goodei* in San Blas Bay and *A. vitalemuttiorum* sp. n. from *M. ridens* Ruocco, Lucifora, Díaz de Astarloa, Mabragaña et Delpiani in coastal waters off Buenos Aires Province, are distinguished from all other congeners by the microthrix pattern on the scolex surface, uterus shape and extension, position of the connection of the uterine duct to the uterus, presence and extension of an external seminal vesicle, and its overall size and number of proglottids. The specimens of *M. goodei* and *M. ridens* show locally distinct cestode faunas, which are correlated with well-defined biogeographic regions. Some of these areas correspond with mating and nursery zones for species of *Myliobatis*.

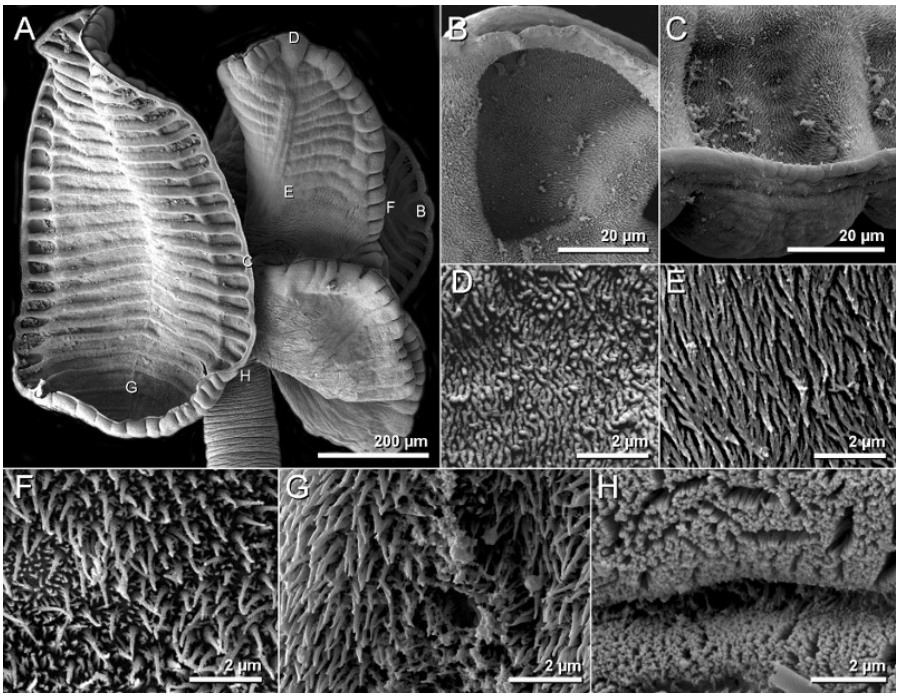


TREVISAN, B. & MARQUES, F.P.L. (2017): Species diversity of *Rhinebothrium* Linton, 1890 (Eucestoda: Rhinebothriidea) from *Styracura* (Myliobatiformes: Potamotrygonidae), including the description of a new species. *Zootaxa, 4300 (3): 421-437*

New species: *Rhinebothrium reydai,*

Abstract: The present study contributes to the knowledge of the cestode fauna of species of *Styracura* de Carvalho, Loboda & da Silva, which is the putative sister taxon of freshwater potamotrygonids—a unique group of batoids restricted to Neotropical freshwater systems. We document species of *Rhinebothrium* Linton, 1890 as a result of the examination of newly collected specimens of *Styracura* from five different localities representing the eastern Pacific Ocean and the Caribbean Sea. Overall, we examined 33 spiral intestines, 11 from the eastern Pacific species *Styracura pacifica* (Beebe & Tee-Van) and 22 from the Caribbean species *S. schmardae* (Werner). However, only samples from the Caribbean were infected with members of *Rhinebothrium*. *Rhinebothrium tetralobatum* Brooks, 1977, originally described from *S. schmardae*—as *Himantura schmardae* (Werner)—off the Caribbean coast of Colombia based on six specimens is redescribed. This redescription provides the first data on the microthriches pattern, more details of internal anatomy (*i.e.*, inclusion of histological sections) and expands the ranges for the counts and measurements of several features. We describe a new species of *Rhinebothrium* from *S. schmardae* collected off the Caribbean coast of Panama. *Rhinebothrium reydai* n. sp. is diagnosed by possessing four testes per proglottid, acraspedote proglottids, single anterior-most and porterior-most loculi, and bothridia divided into 34–44 loculi. Collectively, these features distinguish the new species from all 41 species of *Rhinebothrium* currently recognized as valid, with the exception of *R. chollaensis* Friggens & Duszynski, 2005. The latter species, a parasite of *Urobatis halleri* (Cooper) from the eastern Pacific Ocean, has a similar morphology in comparison to *R. reydai* n. sp., but can be distinguished by being apolytic instead of euapolytic and by the morphology of the aporal lobe of the ovary, which reaches the mid-lateral margin of the cirrus sac, whereas in *R. reydai* n. sp. the aporal lobe only reaches the posterior margin, since the cirrus sac takes approximately ¾ of the proglottid in width. Also, in *R. reydai* n. sp., the first square proglottid occurs within the anterior third of the strobila (13–30%), whereas in *R. chollaensis* it occurs near the middle of the strobila (42–62%). Further, we discuss the patterns of infection and biogeographical distribution for species of *Rhinebothrium* in species of *Styracura*. The apparent disjunctive

distribution of *R. tetralobatum* and *R. reydai* n. sp. in the Caribbean Sea throughout their host distribution, *S. schmardae*, and the absence of species of *Rhinebothrium* in the eastern Pacific sister-host, *S. pacifica*, reveal the importance of sample size and biogeographical representation for documenting the parasite fauna of host lineages.



TREVISAN, B. & PRIMON, J.F. & MARQUES, F.P.L. (2017): Systematics and diversification of *Anindobothrium* Marques, Brooks & Lasso, 2001 (Eucestoda: Rhinebothriidea). *PLoS ONE, 12 (9): e0184632*

New family: Anindobothriidae

New species: *Anindobothrium inexpectatum, Anindobothrium carrioni*

Abstract: Tapeworms of the genus *Anindobothrium* Marques, Brooks & Lasso, 2001 are found in both marine and Neotropical freshwater stingrays of the family Potamotrygonidae. The patterns of host association within the genus support the most recent hypothesis about the history of diversification of potamotrygonids, which suggests that the ancestor of freshwater lineages of the Potamotrygonidae colonized South American river systems through marine incursion events. Despite the relevance of the genus *Anindobothrium* to understand the history of colonization and diversification of potamotrygonids, no additional efforts were done to better investigate the phylogenetic relationship of this taxon with other lineages of cestodes since its erection. This study is a result of recent collecting efforts to sample members of the genus in marine and freshwater potamotrygonids that enabled the most extensive documentation of the fauna of *Anindobothrium* parasitizing species of *Styracura* de Carvalho, Loboda & da Silva, *Potamotrygon schroederi* Fernández-Yépez, *P. orbignyi* (Castelnau) and *P. yepezi* Castex & Castello from six different countries, representing the eastern Pacific Ocean, Caribbean Sea, and river basins in South America (Rio Negro, Orinoco, and Maracaibo). The newly collected material provided additional specimens for morphological studies and molecular samples for subsequent phylogenetic analyses that allowed us to address the phylogenetic position of *Anindobothrium* and provide molecular and morphological evidence to recognize two additional species for the genus. The taxonomic actions that followed our analyses included the proposition of a new family, Anindobothriidae fam. n., to accommodate the genus *Anindobothrium* in the order Rhinebothriidea Healy, Caira, Jensen, Webster & Littlewood, 2009 and the description of two new species—one from the eastern Pacific Ocean, *A. carrioni* sp. n., and the other from the Caribbean Sea, *A. inexpectatum* sp. n. In addition, we also present a redescription of

the type species of the genus, *A. anacolum* (Brooks, 1977) Marques, Brooks & Lasso, 2001, and of *A. lisae* Marques, Brooks & Lasso, 2001. Finally, we discuss the paleogeographical events mostly linked with the diversification of the genus and the protocols adopted to uncover cryptic diversity in *Anindobothrium*.

3.5 Distribution

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3.7 Diet

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4. Index (Genera only)