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

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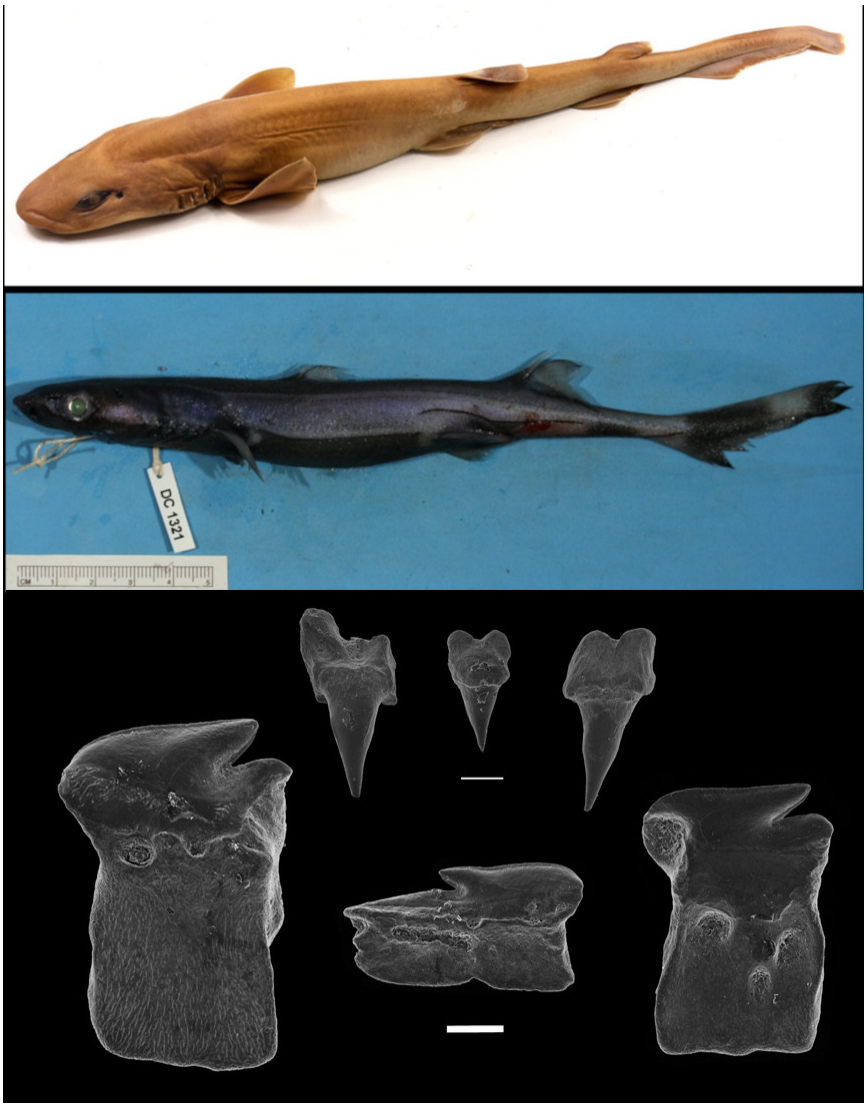

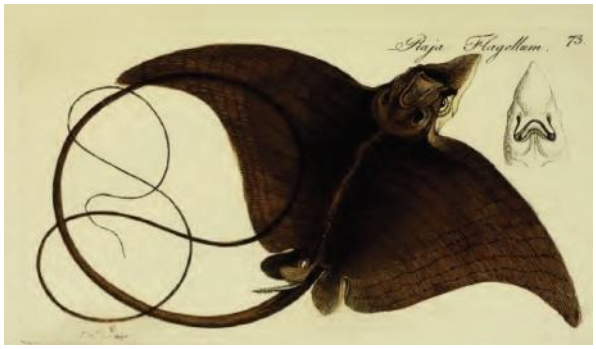

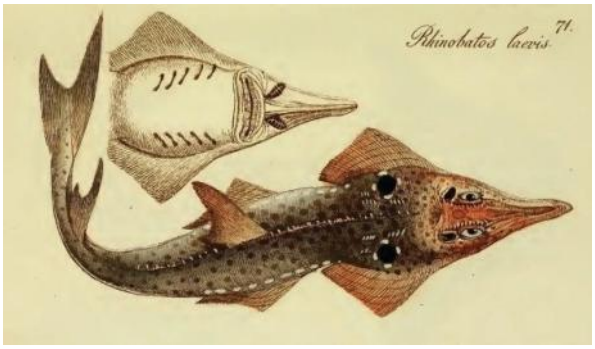

Abstract: This paper contains a collection of 722 citations (no conference abstracts) on topics related to extant and extinct Chondrichthyes (sharks, rays, and chimaeras) as well as a list of Chondrichthyan species and hosted parasites newly described in 2018. The list is the result of regular queries 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 2018, list of descriptions of extinct and extant species from 2018, 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 2018 in a hot spot analysis. 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.

Citation:

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3. Database Reports

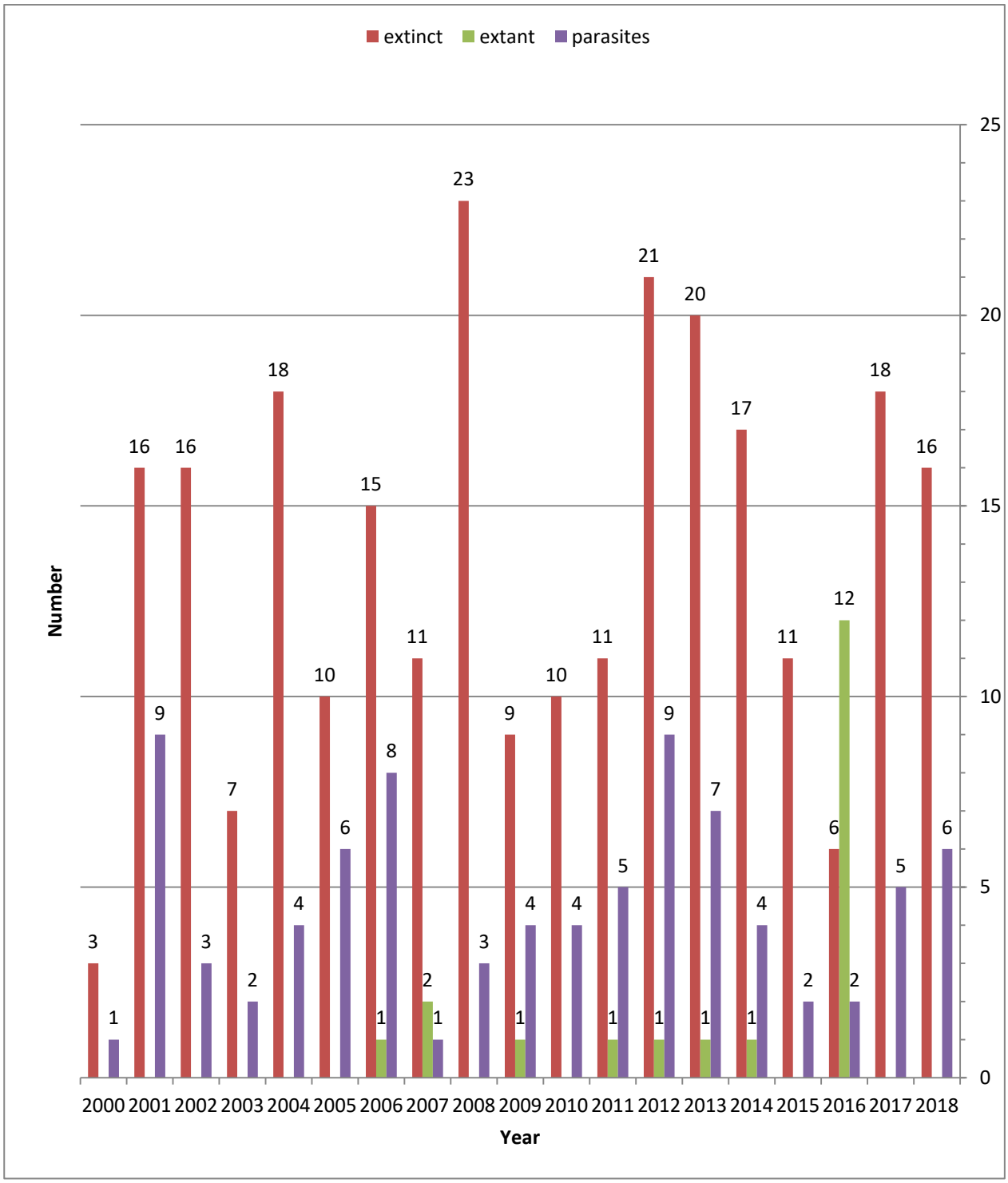
3.1 Statistics

3.1.1 Newly described genera 2000 – 2018

Table 1: Describes extinct, extant and parasite genera in the years 2000 to 2018.

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	18		5
2018	16		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.

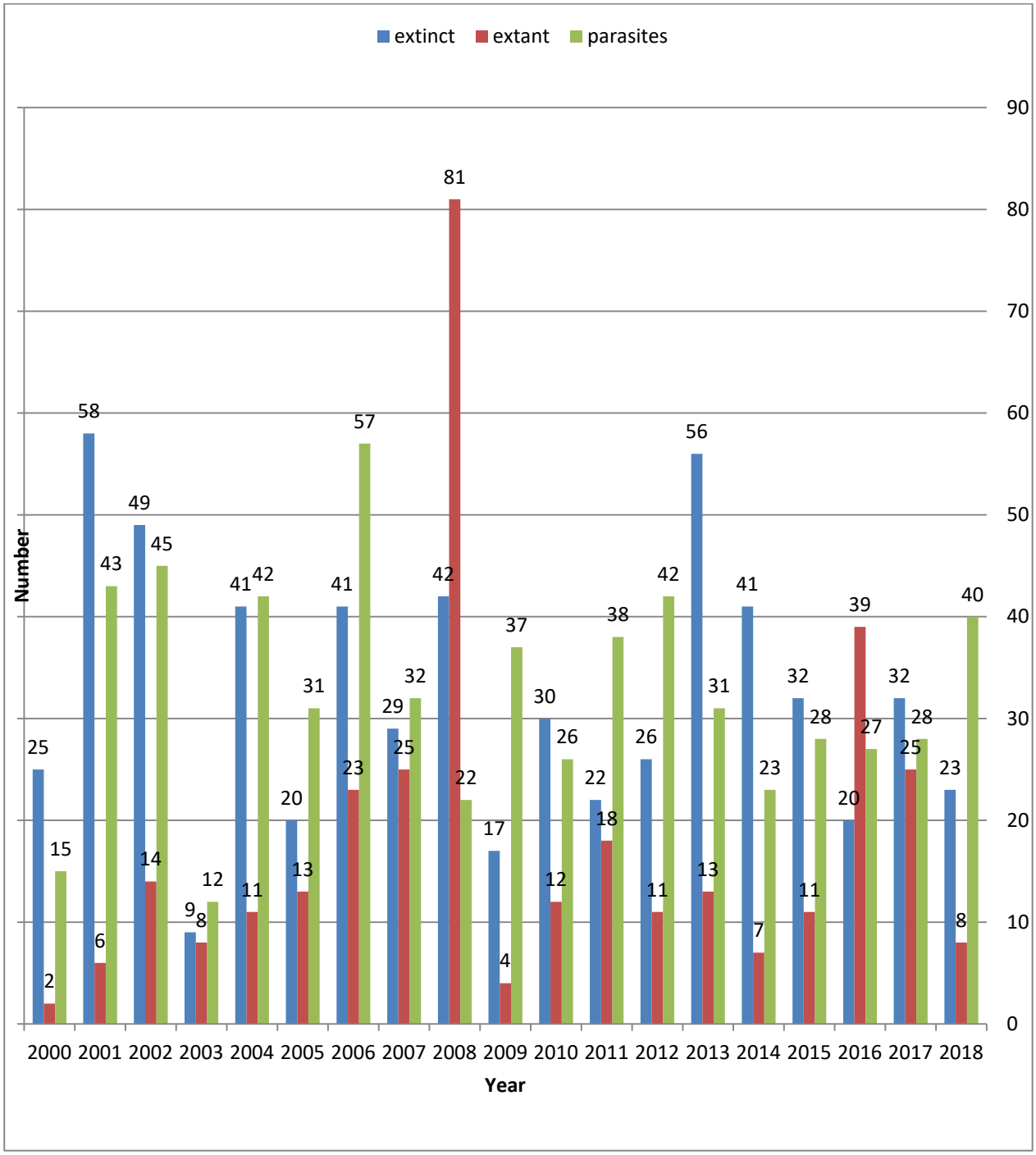


3.1.2 Newly described species 2000 – 2018

Table 2: Describes extinct, extant and parasite species in the years 2000 to 2018.

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	28
2018	23	8	40

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 2018.

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
2010-2018	1035	1240	232	251	6	6
Total:	**3180**	**3736**	**407**	**440**	**29**	**37**

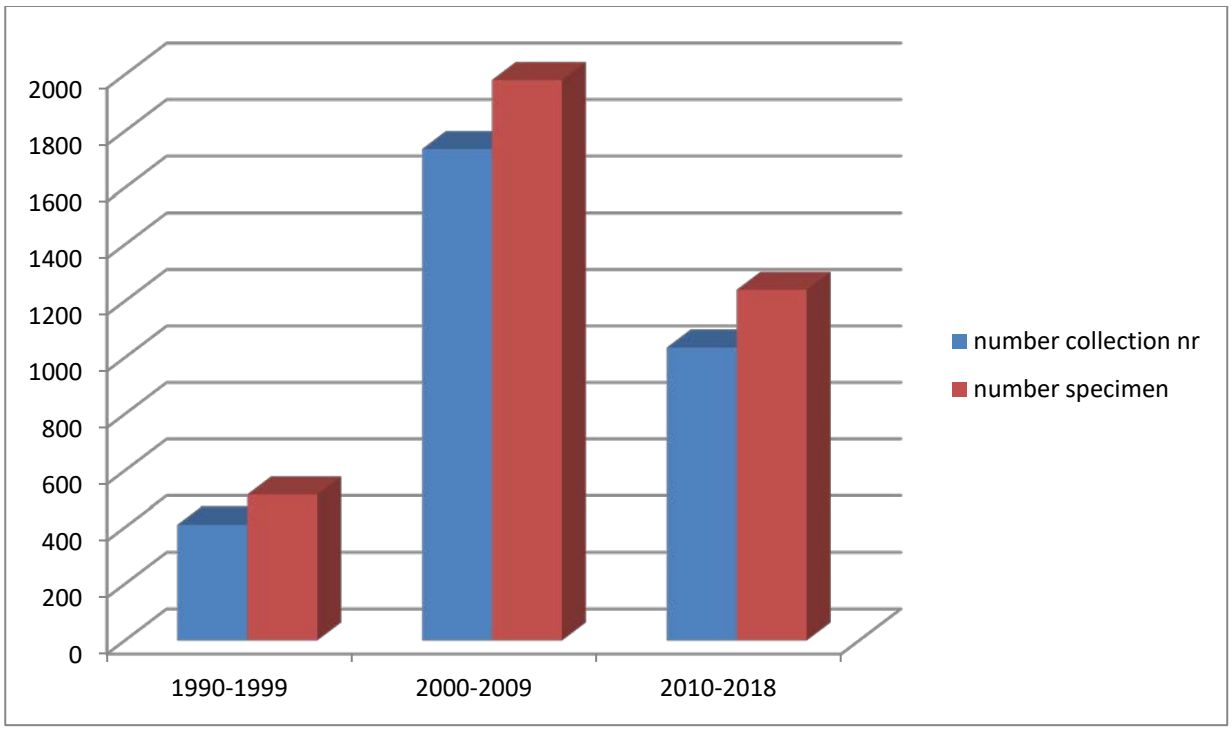


Figure 3: Barchart comparisons of zoological collection and specimen numbers from the years 1990 to 2017 from newly described extant species. Number of species descriptions peak in the years 2000-2009.

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

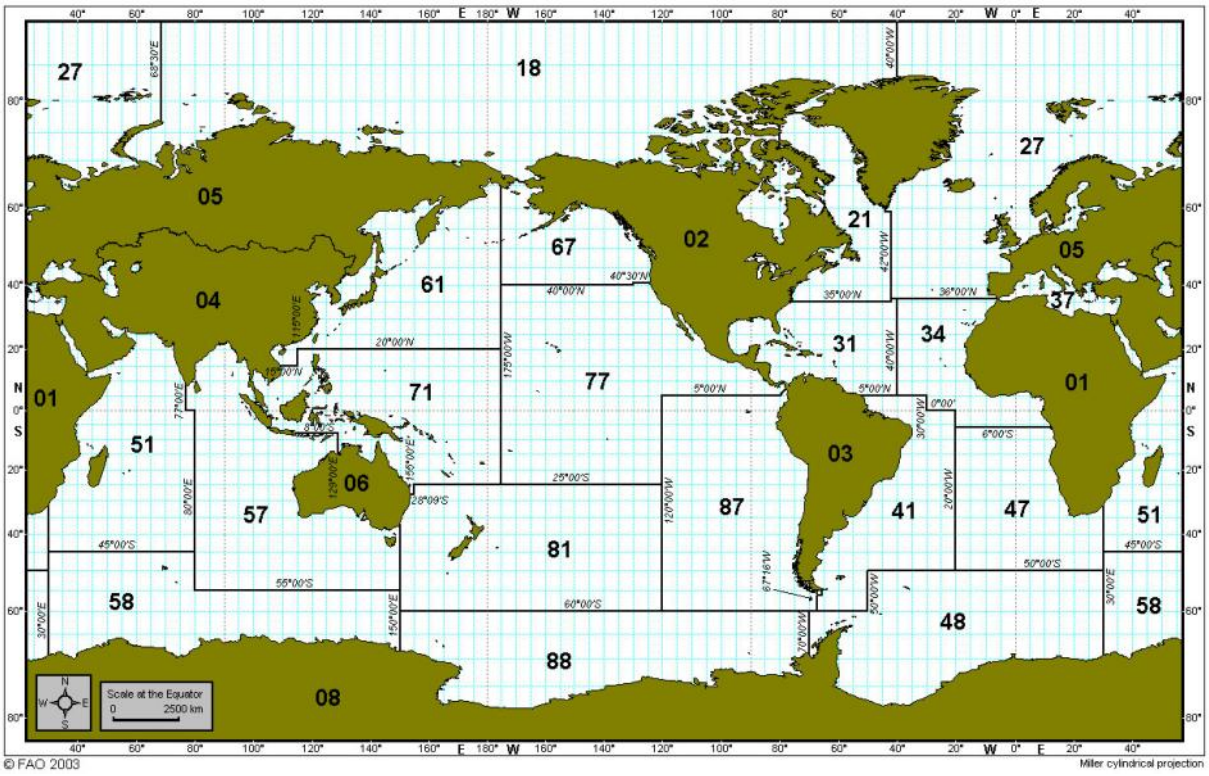


Figure 4: FAO fishing areas of the world's oceans:

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

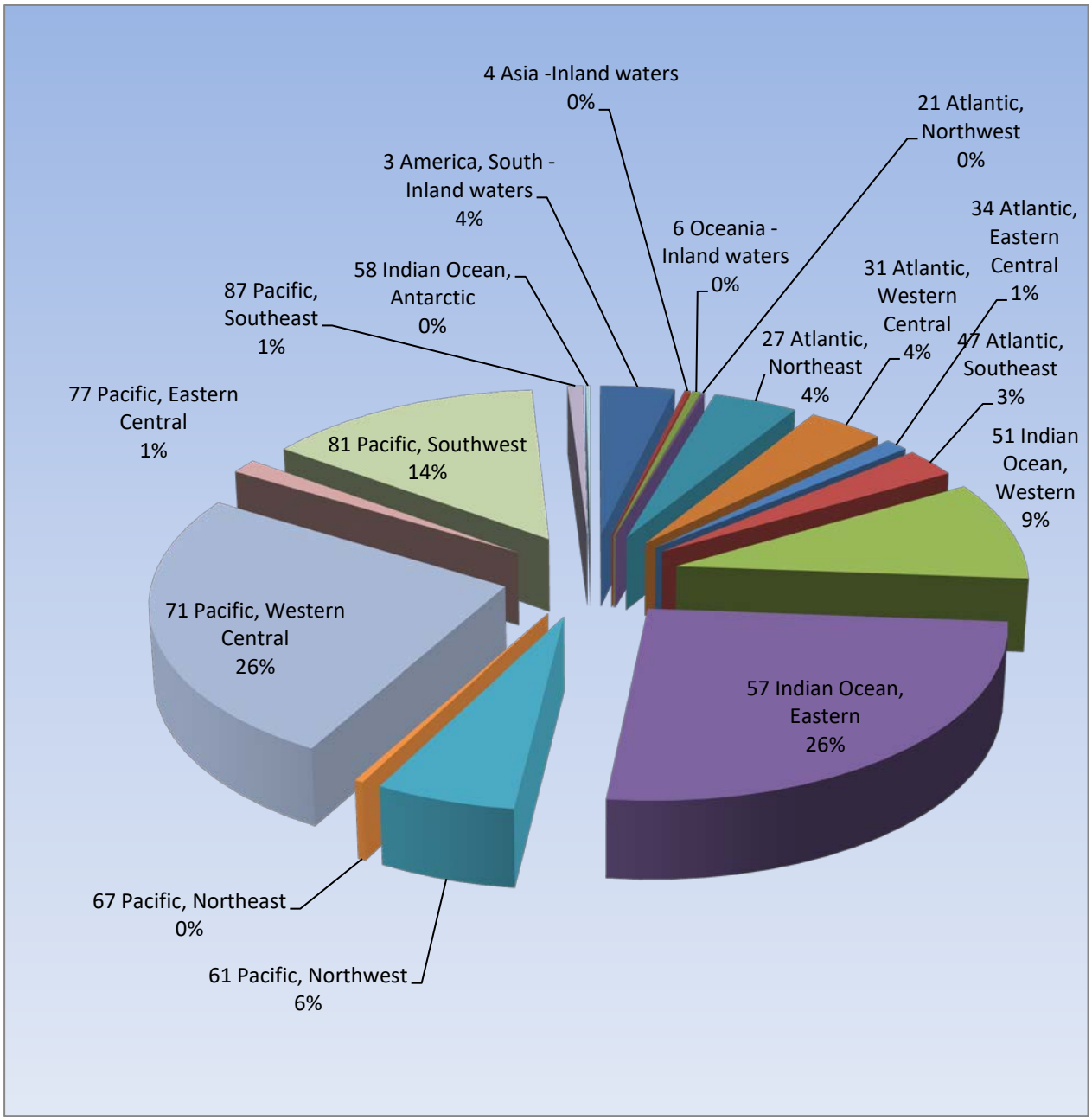
Table 4: List of zoological collection entries, specimen and species numbers from the years 1990 to 2018 and associated FAO areas.

	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	119	174	12
	34	Atlantic, Eastern Central	36	37	7
	37	Mediterranean and Black Sea	0	0	0
	41	Atlantic, Southwest	110	111	16
	47	Atlantic, Southeast	83	92	14
Indian Ocean	51	Indian Ocean, Western	289	444	48
	57	Indian Ocean, Eastern	786	887	101
Pacific Ocean	61	Pacific, Northwest	177	191	32
	67	Pacific, Northeast	11	24	3

	71	Pacific, Western Central	779	808	118
	77	Pacific, Eastern Central	41	49	10
	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

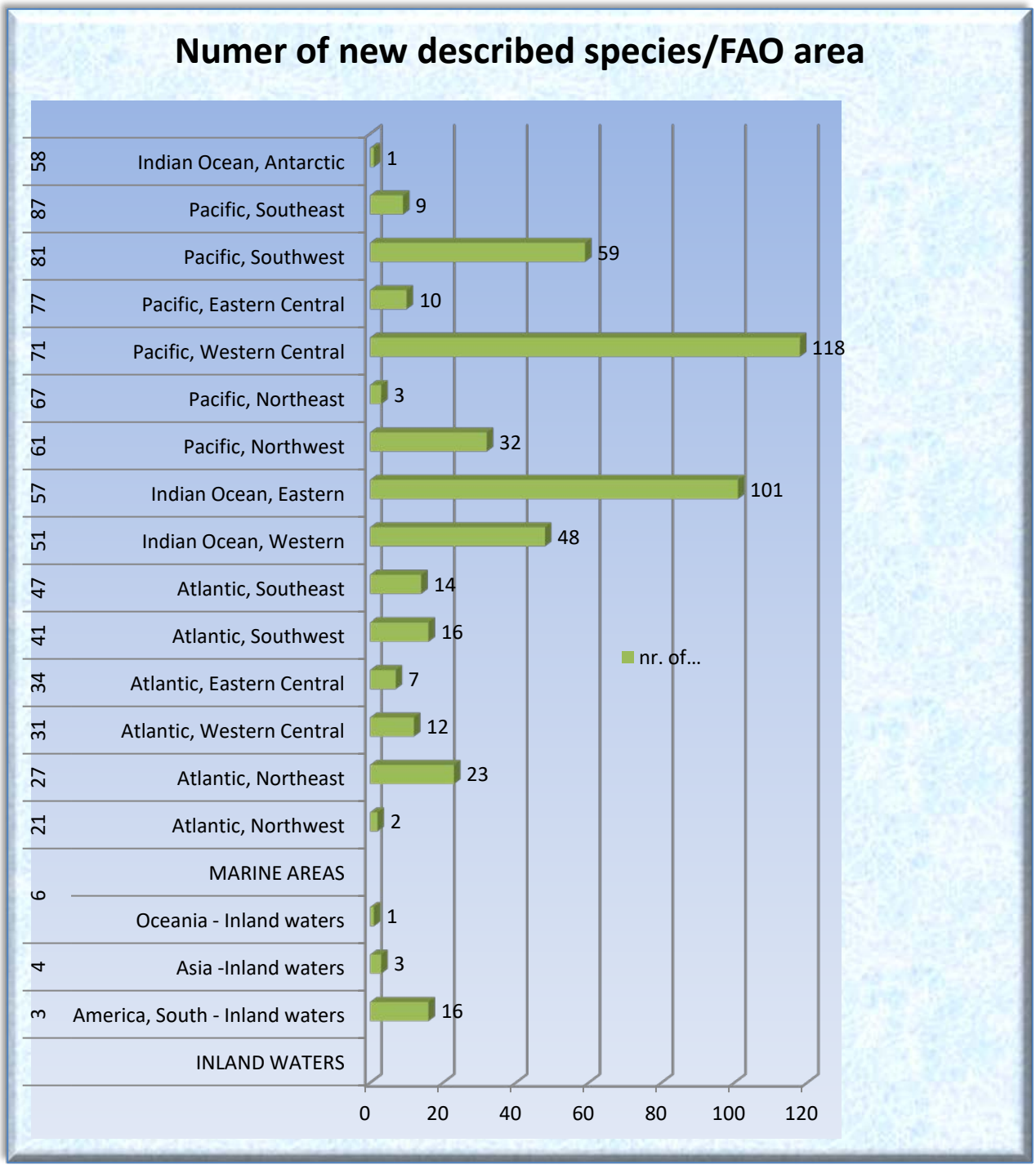
3.1.3.4 Hot spots (types): FAO areas - number of types/FAO area

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.

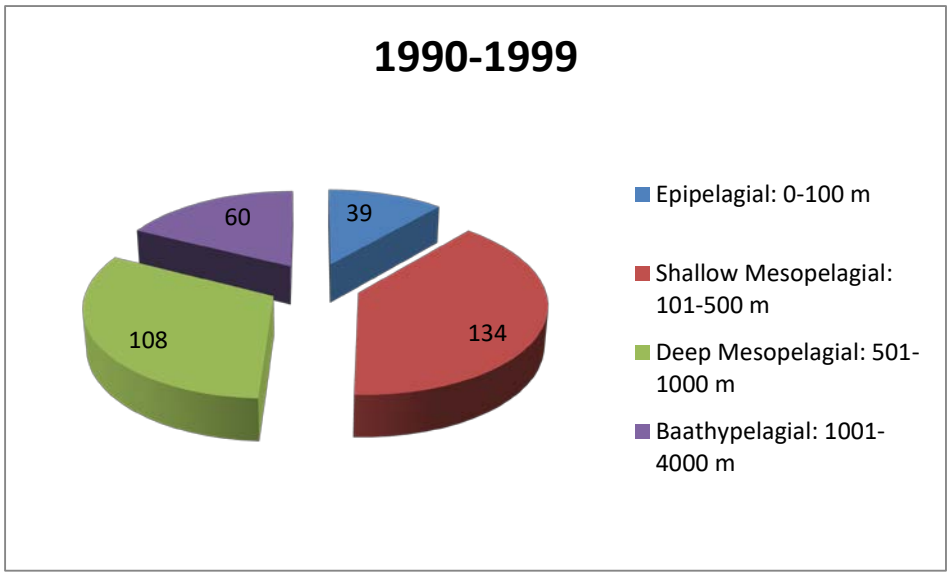


3.1.3.5 Hot spots (types): depth

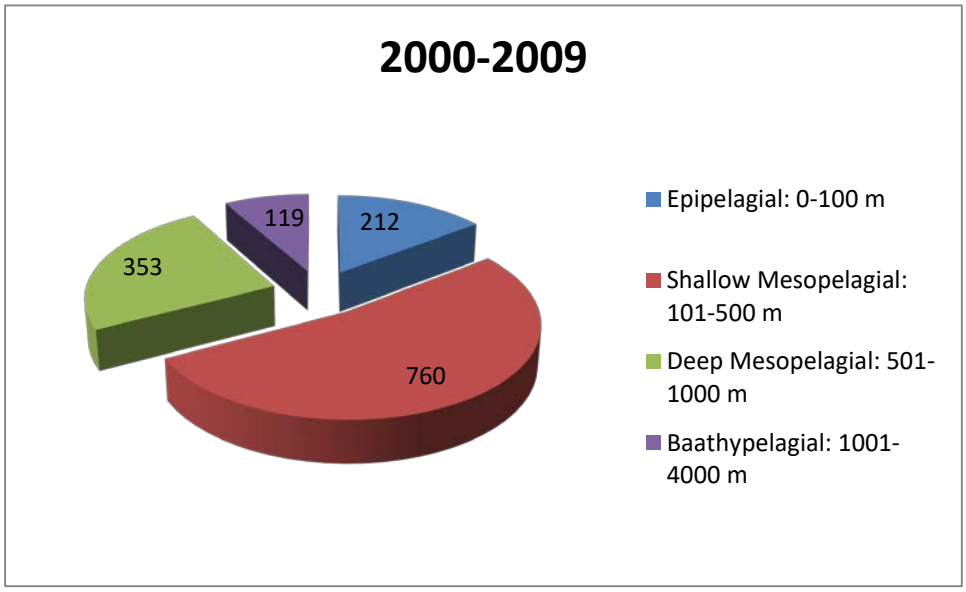
Types/depth	1990-1999	2000-2009	2010-2018	Total	percentage rate
number of types	409	1736	1035	3180	
number of types with depth	341	1444	579	2364	74,34%
Epipelagial: 0-100 m	39	212	149	400	16,92%
Shallow Mesopelagial: 101-500 m	134	760	168	1062	44,92%
Deep Mesopelagial: 501-1000 m	108	353	152	613	25,93%
Bathypelagial: 1001-4000 m	60	119	110	289	12,23%

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 2010-2018.

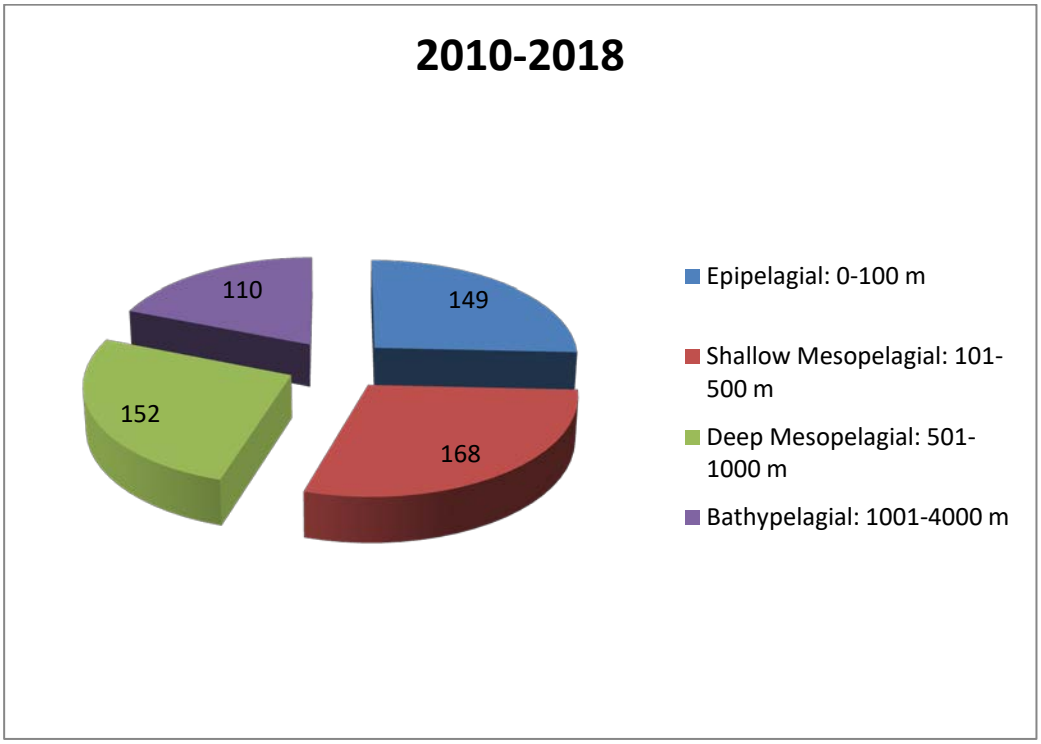
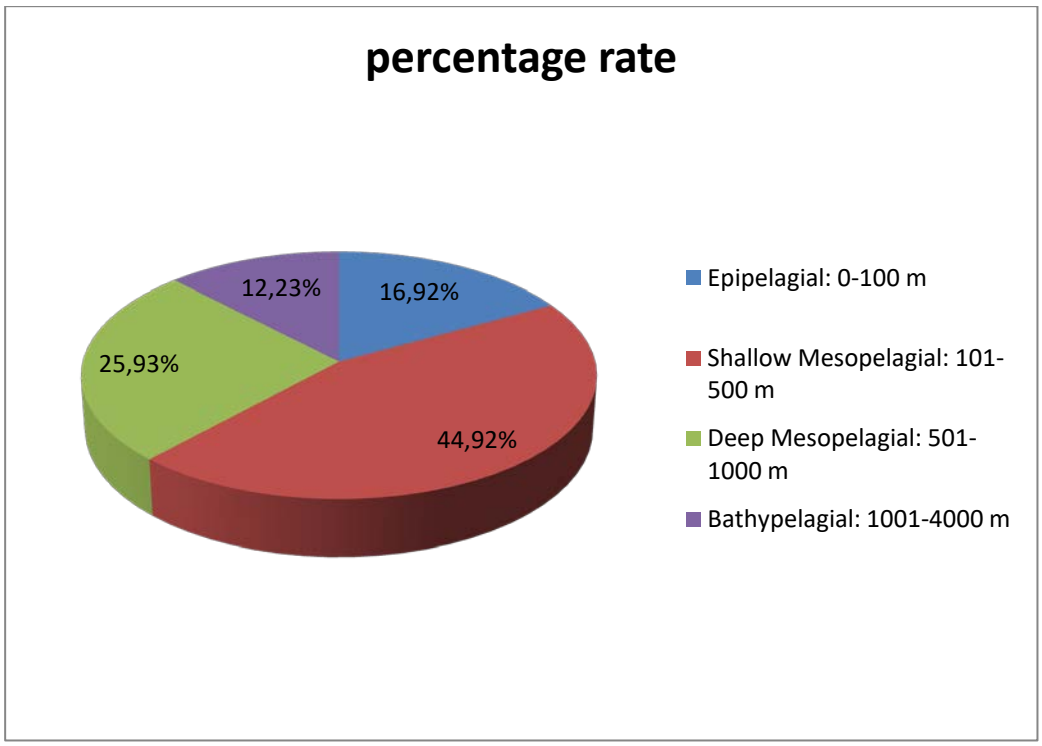


Figure 8: Percentage of type specimen in bathymetric profiles from 1990 to 2018.



3.2 Descriptions of extinct genera/species

3.2.1 List of new extinct genera

Acutalamna	GUINOT & CARRILLO-BRICEÑO, 2018	(Lamniformes incet. sedis)
Amaradontus	HODNETT & ELLIOTT, 2018	(incert. sedis: Anachronistidae)
Arcuodus	ITANO & LAMBERT, 2018	(Cochliodontiformes)
Caucasochasma	PROKOFIEV & SYCHEVSKAYA, 2018	(Lamniformes: Cetorhinidae)
Cretacladoides	FEICHTINGER, ENGELBRECHT, LUKENEDER & KRIWET, 2018	(Symmoriiformes: Falcatidae)
Hokomata	HODNETT & ELLIOTT, 2018	(Xenacanthiformes: Diplodoselachidae)
Jolepis	BURROW & TURNER, 2018	(incert. sedis: incert. fam.)
Microcarcharias	GUINOT & CARRILLO-BRICEÑO, 2018	(Lamniformes: Odontaspididae)
Microklomax	HODNETT & ELLIOTT, 2018	(Protacrodontidae)
Natarapax	FEICHTINGER, ENGELBRECHT, LUKENEDER & KRIWET, 2018	(Symmoriiformes: Falcatidae)
Novaculodus	HODNETT & ELLIOTT, 2018	(Protacrodontidae)
Palaeocentroscymnus	POLLERSPÖCK, FLAMMENSBECK & STRAUBE, 2018	(Squaliformes: Somniosidae)
Protohimantura	MARRAMÀ, KLUG, DE VOS & KRIWET, 2018	(Myliobatiformes: Dasyatidae)
Tethytrygon	MARRAMÀ, CARNEVALE, NAYLOR & KRIWET, 2018	(Myliobatiformes: Dasyatidae)
Tikiodontus	BHAT, RAY & DATTA, 2018	(Xenacanthiformes: incert. fam.)
Truyolsodontos	BERNÁRDEZ, 2018	(Lamniformes: Truyolsodontidae)

3.2.2 List of new extinct species

Acutalamna karsteni	GUINOT & CARRILLO-BRICEÑO, 2018	(Lamniformes incet. sedis)
Alopias palatasi	KENT & WARD, 2018	(Lamniformes: Alopiidae)
Altholepis salopensis	BURROW & TURNER, 2018	(Altholepidiformes: Altholepididae)
Amaradontus santuccii	HODNETT & ELLIOTT, 2018	(incert. sedis: Anachronistidae)
Arcuodus multicuspidatus	ITANO & LAMBERT, 2018	(Cochliodontiformes)
Carcharoides lipsiensis	REINECKE, VON DER HOCHT, GILLE & KINDLIMANN, 2018	(Lamniformes: Odontaspididae)
Caucasochasma zherikhini	PROKOFIEV & SYCHEVSKAYA, 2018	(Lamniformes: Cetorhinidae)
Cooleyella platera	HODNETT & ELLIOTT, 2018	(incert. sedis: Anachronistidae)
Cretacladoides noricum	FEICHTINGER, ENGELBRECHT, LUKENEDER & KRIWET, 2018	(Symmoriiformes: Falcatidae)
Cretacladoides ogiveformis	FEICHTINGER, ENGELBRECHT, LUKENEDER & KRIWET, 2018	(Symmoriiformes: Falcatidae)
Cretalamna bryanti	EBERSOLE & EHRET, 2018	(Lamniformes: Otodontidae)
Hokomata parva	HODNETT & ELLIOTT, 2018	(Xenacanthiformes: Diplodoselachidae)
Microklomax carrieae	HODNETT & ELLIOTT, 2018	(Protacrodontidae)
Mooreodontus jaini	BHAT, RAY & DATTA, 2018	(Xenacanthiformes: Xenacanthidae)
Natarapax trivortex	FEICHTINGER, ENGELBRECHT, LUKENEDER & KRIWET, 2018	(Symmoriiformes: Falcatidae)
Novaculodus billingsleyi	HODNETT & ELLIOTT, 2018	(Protacrodontidae)
Pastinachus kebarensis	ADNET, MOUANA, CHARRUAULT, ESSID, AMMAR, MARZOUGUI, MERZERAUD, TABUCE, VIANEY-LIAUD & MARIVAUX, 2018	(Myliobatiformes: Dasyatidae)
Squalicorax lalunaensis	GUINOT & CARRILLO-BRICEÑO, 2018	(Lamniformes: Anacoracidae)
Squalicorax moodyi	GUINOT & CARRILLO-BRICEÑO, 2018	(Lamniformes: Anacoracidae)
Stethacanthus concavus	GINTER, 2018	(Symmoriiformes: Symmoriidae)

Tikiodontus asymmetricus	BHAT, RAY & DATTA, 2018	(Xenacanthiformes: incert. fam.)
Tamiobatis elgae	IVANOV, 2018	(Ctenacanthiformes: Ctenacanthidae)
Truyolsodontos estauni	BERNÁRDEZ, 2018	(Lamniformes: Truyolsodontidae)

3.2.3 Papers of new extinct genera/species

GUINOT, G. & CARRILLO-BRICEÑO, J. (2018): Lamniform sharks from the Cenomanian (Upper Cretaceous) of Venezuela. *Cretaceous Research, 82: 1-20*

New species: *Squalicorax moodyi, Squalicorax lalunaensis, Acutalamna karsteni*

Abstract: Sampling of Cenomanian fossil-rich horizons within the La Luna Formation of two localities in the Zulia and Trujillo states (northern Venezuela) yielded numerous shark teeth belonging to various species within the order Lamniformes (Mackerel sharks). Twelve lamniform species were identified including three new species (*Squalicorax lalunaensis* sp. nov., *Squalicorax moodyi* sp. nov., *Acutalamna karsteni* gen. et sp. nov.) and the genus *Microcarcharias* gen. nov. is proposed to accommodate with the peculiar morphology of the small-sized odontaspidid M. saskatchewanensis. Other taxa reported here include *Cretoxyrhina mantelli, Cretolamna* sp., cf. *Nanocorax* sp. and five *Squalicorax* species left in open nomenclature. This is the first report of chondrichthyans from the mid-Cretaceous of Venezuela and one of the few records of this group from the Cenomanian of South America. The composition of these assemblages suggests some degree of endemism in the La Luna Sea but also possible connexions with the Western Interior Seaway. One of the most striking features of these assemblages is the high anacoracid diversity (eight species) despite the corresponding outer shelf/upper slope palaeoenvironments of the La Luna Formation. The high diversity of these opportunistic predators is probably related to the high diversity of medium to large marine vertebrates that provided food resources. Keywords Chondrichthyes; Anacoracidae; La Luna Formation; South America; Upper Cretaceous

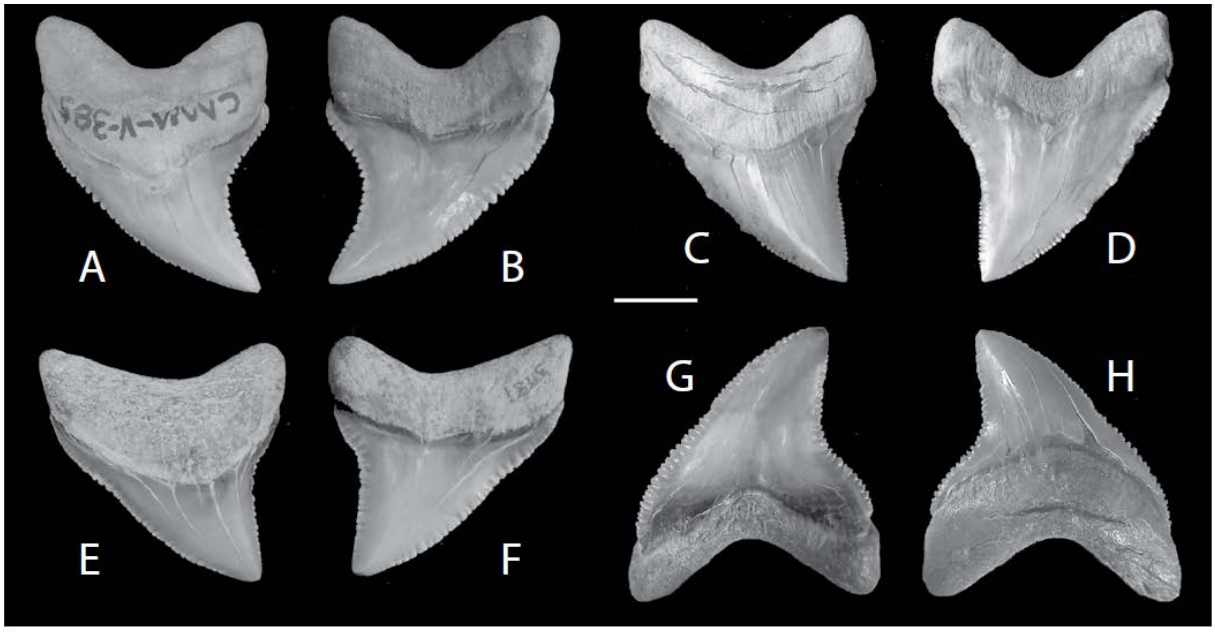
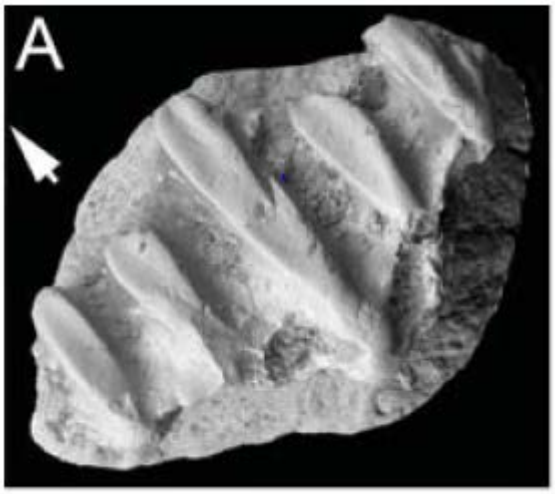


FIGURE 2.A1. *Alopias palatasi* (new species) teeth. Scale bar = 1 cm. (A) Right upper anterior tooth (holotype; CMM-V-385; lingual view). (B) Right upper anterior tooth (holotype; CMM-V-385; labial view). (C) Right upper anterior tooth (CMM-V-7735; lingual view). (D) Right upper anterior tooth (CMM-V-7735; labial view). (E) Right upper lateral tooth (paratype; CMM-V-3981; lingual view). (F) Right upper lateral tooth (paratype; CMM-V-3981; labial view). (G) Left lower lateral tooth (paratype; CMM-V-5823; labial view). (H) Left lower lateral tooth (paratype; CMM-V-5823; lingual view).

KENT, B.W. & WARD, D.J. (2018): Addendum: A New Species of Giant Thresher Shark (Family Alopiidae) with serrated teeth. *In: The Geology and vertebrate paleontology of Calvert Cliffs, Maryland / edited by Stephen J. Godfrey: 157-160*

New species: *Alopias palatasi*

Abstract: The Neogene has a remarkably complex array of large macrophagous sharks (BWK, this chapter) that is well represented along the eastern United States. Despite extensive research on fossil elasmobranchs in this area, one species of large thresher shark (family Alopiidae) with distinctively serrated teeth has not been previously named.

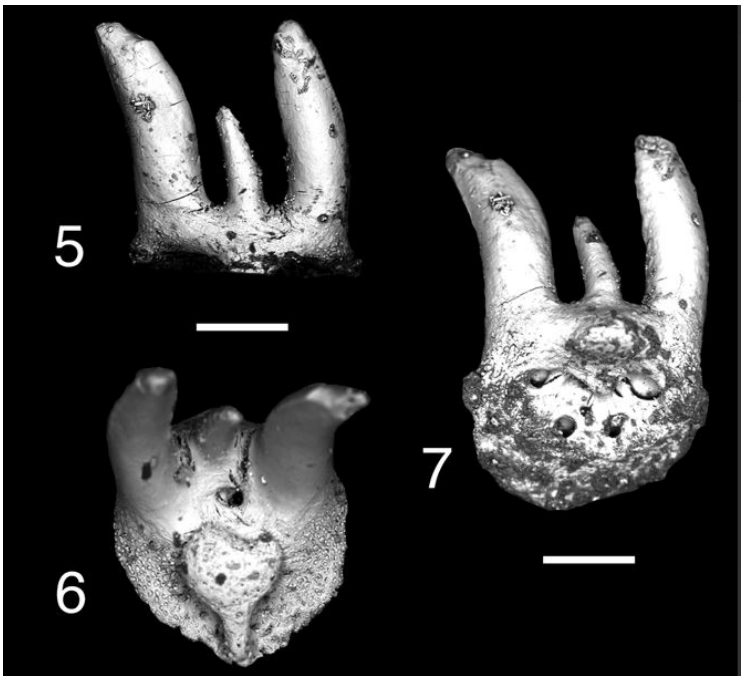


BURROW, C.J. & TURNER, S. (2018): Stem chondrichthyan microfossils from the Lower Old Red Sandstone of the Welsh Borderland. *Acta Geologica Polonica, 68 (3): 321–334*

New genus: *Jolepis*

New species: *Altholepis salopensis*

Abstract: Placoid and polyodontode scales of stem chondrichthyans have been found in the early Lochkovian "Ditton Group" of the Brown Clee Hill district, Shropshire, England and at Talgarth, south Wales. One of the forms is assigned to a new species of *Altholepis* Karatajūtė-Talimaa, 1997, a genus already recognised from Lochkovian shallow marine deposits in Celtiberia, Spain and the Northwest Territories, Canada as well as the type locality in Podolia, Ukraine. *Altholepis salopensis* sp. nov. is based on small polyodontode scales with typically three to eight high odontodes; the scale form was previously considered to belong to acanthodian "*Nostolepis*" *robusta* (Brotzen, 1934). The structure of other scales formerly assigned to "*Nostolepis*" *robusta* has led us to erect a new genus *Jolepis* for this scale form, which differs from *Altholepis* in lacking an ordered layout of odontodes. *Jolepis robusta* (Brotzen, 1934), originally (and possibly still) considered to be an acanthodian, is also known from the Baltic countries, Russia, and northern Germany (ex erratic limestones). Scales of acanthodian *Parexus recurvus* Agassiz, 1845, and/or possibly from the stem chondrichthyan *Seretolepis elegans* Karatajūtė-Talimaa, 1968 (scales of these two taxa are barely distinguishable), and of stem chondrichthyan *Polymerolepis whitei* Karatajūtė-Talimaa, 1968 are also present. *Altholepis*, *Jolepis* gen. nov., *Seretolepis* Karatajūtė-Talimaa, 1968 and *Polymerolepis* Karatajūtė-Talimaa, 1968 are found in marine deposits elsewhere; the British occurrence of these taxa adds to the debate on the sedimentological origins of the Lower Old Red Sandstone deposits in the Welsh Borderland. The geographic range of several early sharks is now known to extend around the Old Red Sandstone continent and beyond.

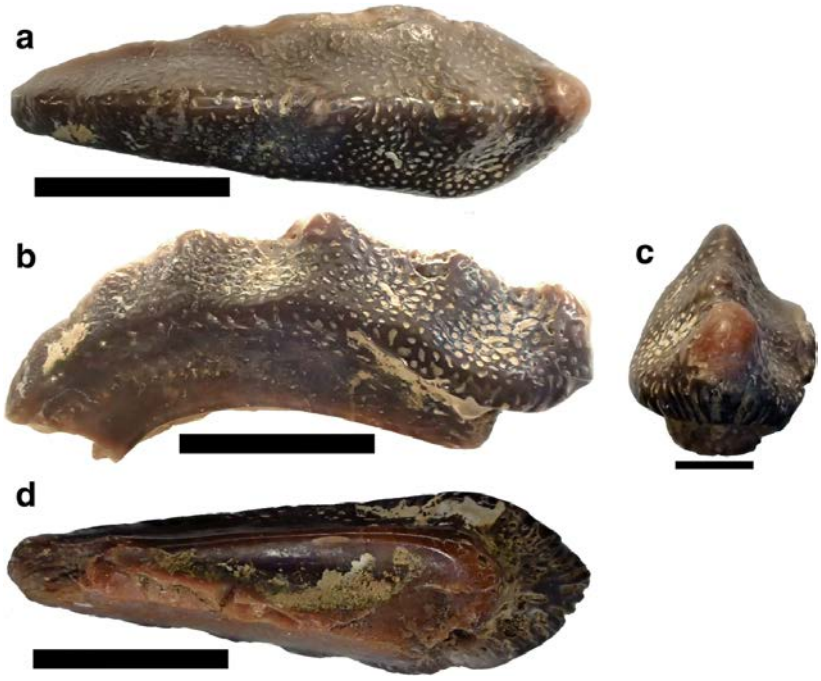


HODNETT, J.-P.M. & ELLIOTT, D.K. (2018): Carboniferous chondrichthyan assemblages from the Surprise Canyon and Watahomigi formations (latest Mississippian–Early Pennsylvanian) of the western Grand Canyon, Northern Arizona. *Journal of Paleontology, 92 (Supplement S77): 1-33*

New genera: *Hokomata, Microklomax, Novaculodus, Amaradontus*

New species: *Hokomata parva, Microklomax carrieae, Novaculodus billingsleyi, Cooleyella platera, Amaradontus santuccii*

Abstract: Two chondrichthyan assemblages of Late Mississippian/Early Pennsylvanian age are now recognized from the western Grand Canyon of northern Arizona. The latest Serpukhovian Surprise Canyon Formation has yielded thirty-one taxa from teeth and dermal elements, which include members of the Phoebodontiformes, Symmoriiformes, Bransonelliformes, Ctenacanthiformes, Protacrodontoidea, Hybodontiformes, Neoselachii (Anachronistidae), Paraselachii (Gregoriidae, Deeberiidae, Orodontiformes, and Eugeneodontiformes), Petalodontiformes, and Holocephali. The euselachian grade taxa are remarkably diverse with four new taxa recognized here; the Protacrodontidae: *Microklomax carrieae* new genus new species and *Novaculodus billingsleyi* new genus new species, and the Anchronistidae: *Cooleyella platera* new species and *Amaradontus santucii*new genus new species The Surprise Canyon assemblage also has the youngest occurrence of the elasmobranch *Clairina*, previously only known from the Upper Devonian. The Surprise Canyon Formation represents a nearshore fluvial infilling of karstic channels, followed by a shallow marine bioherm reef, and finally deeper open water deposition. The early Bashkirian Watahomigi Formation represents open marine deposition and contains only two taxa: a new xenacanthiform, *Hokomata parva* new genus new species, and the holocephalan *Deltodus*. The relationship between the Surprise Canyon and Watahomigi chondrichthyan assemblages and other significant coeval chondrichthyan assemblages suggests that there may have been eastern and western distinctions among the Euamerican assemblages during the Serpukhovian due to geographic separation by the formation of Pangea.



ITANO, W.M. & LAMBERT, L.L. (2018): A new cochliodont anterior tooth plate from the Mississippian of Alabama (USA) having implications for the origin of tooth plates from tooth files*. Zoological Letters, 4: 12*

New genus: *Arcuodus*

New species: *Arcuodus multicuspidatus*

Background
Paleozoic holocephalian tooth plates are rarely found articulated in their original positions. When they are found isolated, it is difficult to associate the small, anterior tooth plates with the larger, more posterior ones. Tooth plates are presumed to have evolved from fusion of tooth files. However, there is little fossil evidence for this hypothesis.
Results
We report a tooth plate having nearly perfect bilateral symmetry from the Mississippian (Chesterian Stage) Bangor Limestone of Franklin County, Alabama, USA. The high degree of symmetry suggests that it may have occupied a symphyseal or parasymphyseal position. The tooth plate resembles *Deltodopsis*? *bialveatus* St. John and Worthen, 1883, but differs in having a sharp ridge with multiple cusps arranged along the occlusal surface of the presumed labiolingual axis, rather than a relatively smooth occlusal surface. The multicusped shape is suggestive of a fused tooth file. The middle to latest Chesterian (Serpukhovian) age is determined by conodonts found in the same bed.
Conclusion
The new tooth plate is interpreted as an anterior tooth plate of a chondrichthyan fish. It is referred to *Arcuodus multicuspidatus* Itano and Lambert, gen. et sp. nov. *Deltodopsis*? *bialveatus* is also referred to *Arcuodus*.

Carcharoides sp.
Markkleeberg Member, Böhlen Formation, Muschelschluff
Rupelian, Early Oligocene,
Espenhain
coll. Naturkundemuseum Leipzig, not numbered
H = 25.4 mm, W= 16.2 mm
illustrated by Müller (1983, pl. 15, fig. 3a, b), leg. A.Müller (rup. 2310)

REINECKE, T. & VON DER HOCHT, F. & GILLE, D. & KINDLIMANN, R. (2018): A review of the odontaspidid shark *Carcharoides* AMEGHINO 1901 (Lamniformes, Odontaspididae) in the Chattian and Rupelian of the North Sea Basin, with the definition of a neotype of *Carcharoides catticus* (PHILIPPI, 1846) and description of a new species. *Palaeontos, 31: 75 pp, 42 textfigures, 3 tables*

New species: *Carcharoides lipsiensis*

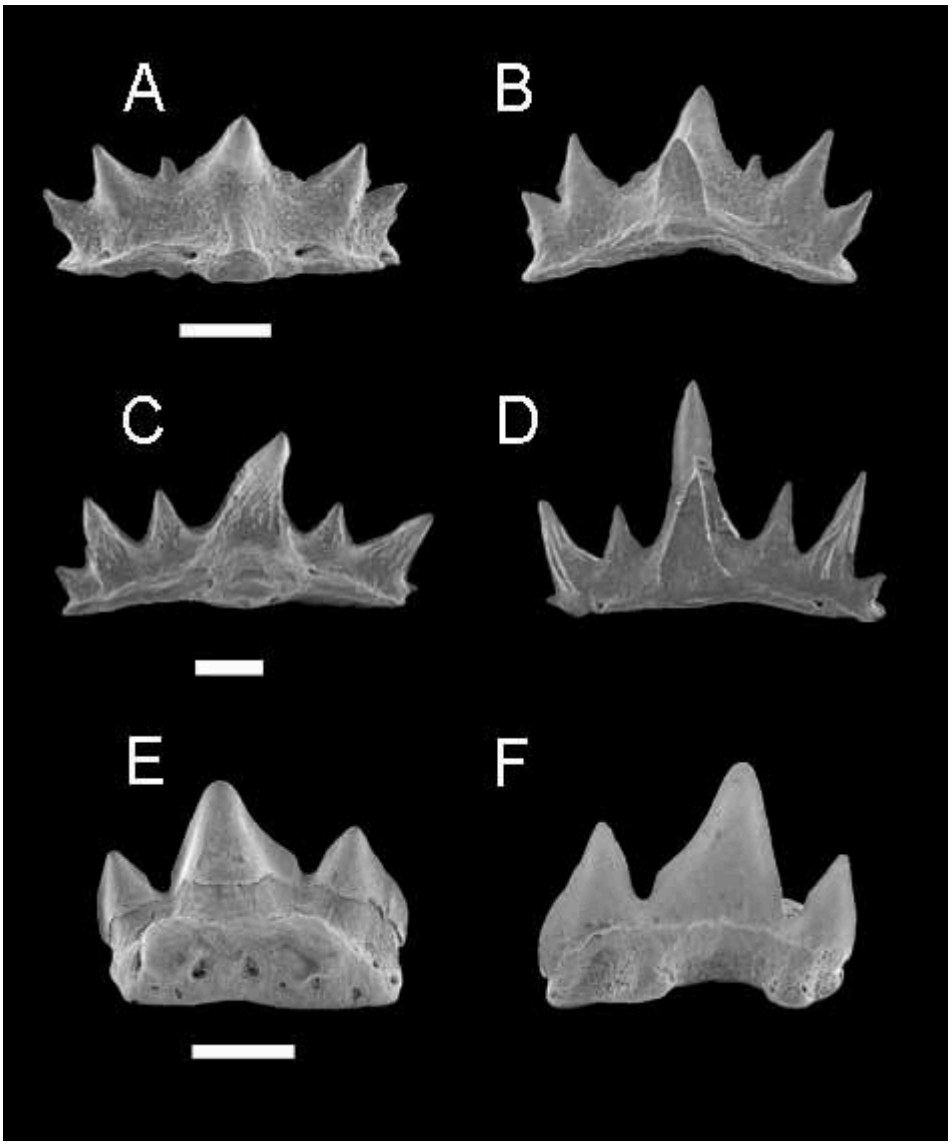
Abstract: The odontaspidid shark genus *Carcharoides* AMEGHINO, 1901 existed at least since the Middle–Late Eocene and became extinct in the Middle Miocene. It is represented by two nominal species, *Carcharoides catticus* (PHILIPPI, 1846) first described from the Kassel Formation, Chattian of northern Hesse, Germany, and the type species *Carcharoides totuserratus* AMEGHINO, 1901, from the Gaiman Formation, Early Miocene of Patagonia, Argentina. Based on existing collection material previously assigned to *C. catticus*, a new species, *Carcharoides lipsiensis* sp.nov., is described here from the Markkleeberg Member of the Böhlen Formation, Rupelian, formerly exposed in brown coal pits south of Leipzig, southeastern Germany. The probably lost type of "*Otodus*" *catticus*, a right upper lateroposterior tooth, is replaced by a neotype recovered from the type deposit and location near Castle Weissenstein, west of Kassel, Germany. The dental characteristics of the three nominal species are described and compared by selected morphometric parameters. Based on two sets of isolated teeth from the early to late Chattian and the Burdigalian–Langhian of the North Sea Basin, respectively, an artificial tooth set is assembled and proposed for *C. catticus*. The comparative study of numerous teeth of *C. catticus* and *Carcharias gustrowensis* (WINKLER, 1875) from the Sülstorf Formation, Chattian of Mecklenburg, northeastern Germany, ranging in height from newborn (2–4 mm) to adult (max. 23 mm) indicates a weak ontogenetic heterodonty for both genera. *Carcharoides catticus* shares several dental characteristics with sandtiger sharks *Carcharias* spp., but apparently has only two larger teeth in the upper anterior rows rather than three in *Carcharias*. Among other characters, it differs from *Carcharias* spp. by the dimensional ratio (heigth/width) of lower lateroposterior teeth being narrower (at the same height) than corresponding teeth of *Carcharias* spp. Although having been much less common than *Carcharias* spp., *C. catticus* was widely distributed in the northern Atlantic, Mediterranean Tethys and Paratethys during the Early to Middle Miocene and less frequently during the Chattian.

PROKOFIEV, A.M. & SYCHEVSKAYA, E.K. (2018): Basking Shark (Lamniformes: Cetorhinidae) from the Lower Oligocene of the Caucasus. *Journal of Ichthyology, 58 (2): 127–138*

New genus: *Caucasochasma*

New species: *Caucasochasma zherikhini*

Abstract: Based on an almost complete impression from the base of the Pshekha Horizon (layer 2, Planorbella Beds, zone NP 21) of the North Caucasus (lower early Oligocene), we describe the basking shark *Caucasochasma zherikhini* gen. et sp. nov., differing from other members of family Cetorhinidae by higher number of vertebrae, weakly developed lower lobe of caudal fin, and details of the structure of gill rakers. Based on the structure of the body, it is not excluded that the described taxon was associated with the bottom to a greater degree than other species of the family (*Keasius parvus* and *C. maximus)*, for which the structure of the body is known. The accumulations of plankton at the bottom could be a possible food resource for *Caucasochasma.*

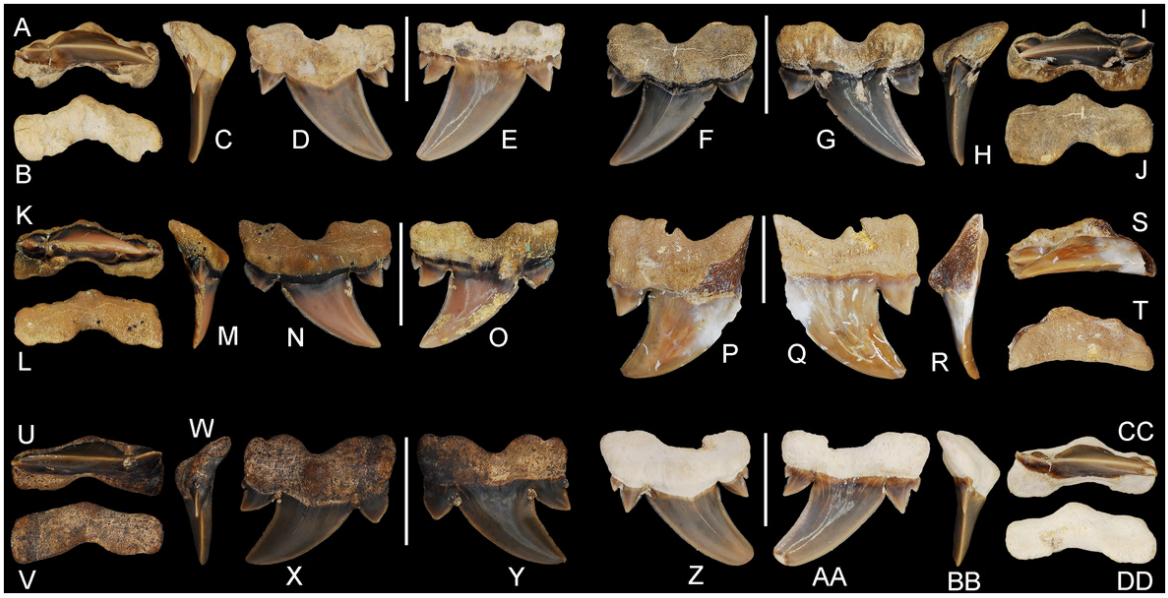


FEICHTINGER, I. & ENGELBRECHT, A. & LUKENEDER, A. & KRIWET, J. (2018): New chondrichthyans characterised by cladodont-like tooth morphologies from the Early Cretaceous of Austria, with remarks on the microstructural diversity of enameloid. *Historical Biology, in press*

New genus: *Cretacladoides, Natarapax*

New species: *Cretacladoides ogiveformis, Cretacladoides noricum, Natarapax trivortex*

Abstract: Cladodontomorphii represents an archaic clade of chondrichthyan fishes characterised by distinct tooth morphologies referred to as the cladodont type. This group of cartilaginous fishes first occurred during the early Palaeozoic Era as revealed from the fossil record and were long thought to have gone extinct at the Permian-Triassic mass extinction event. However, a recently reported chondrichthyan tooth assemblage from the Early Cretaceous of France suggests that cladodontomorphs might have survived the catastrophic events at the Permian-Triassic boundary, probably by occupying deep-sea refuge environments. Here, we describe two new chondrichthyan genera based on isolated teeth recovered from Valanginian (Early Cretaceous) deep-water deposits of Austria, including a total of three new species tentatively assigned to the cladodontomorph families Falcatidae (*Cretacladoides ogiveformis* gen. et sp. nov. and *C. noricum* sp. nov.) and Ctenacanthidae (*Natarapax trivortex* gen. et sp. nov.). In addition, an enameloid microstructure analysis had led to the identification of a distinct multilayered enameloid including a parallel-, tangled-, and radial-bundled enameloid, whose phylogenetic distribution within Chondrichthyes is here discussed in detail, leading to the conclusion that the herein described cladodont-like taxa, together with those reported from the French Early Cretaceous might be closely related to ancient Palaeozoic taxa. The ZooBank electronic publication LSID is: urn:lsid:zoobank.org:pub:C06FD718-F54F-4C57-A45E-8C0D7CC8EB83



EBERSOLE, J.A. & EHRET, D.J. (2018): A new species of *Cretalamna* sensu stricto (Lamniformes, Otodontidae) from the Late Cretaceous (Santonian-Campanian) of Alabama, USA. *PeerJ, 6: e4229*

New species: *Cretalamna bryanti*

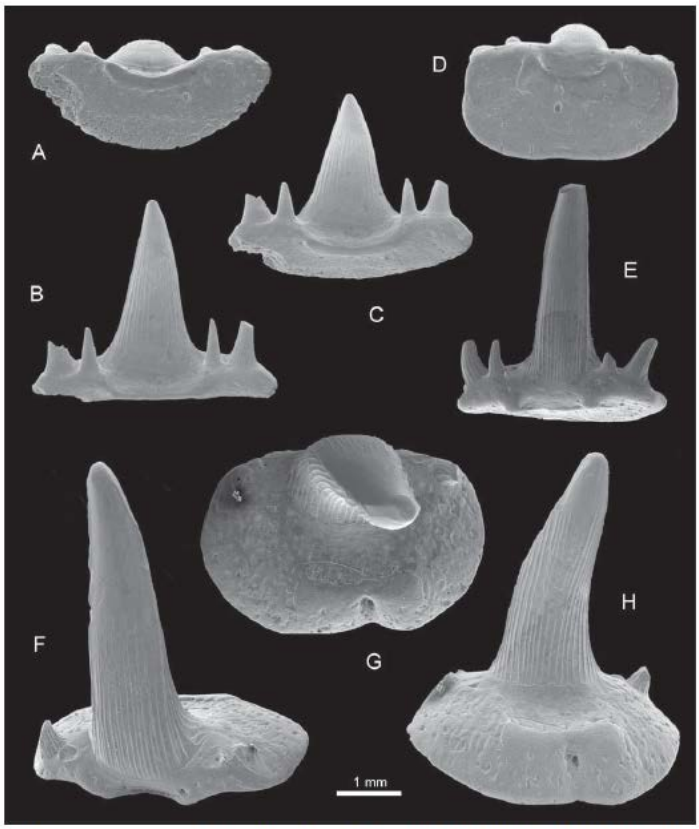
Abstract: Decades of collecting from exposures of the Upper Cretaceous Tombigbee Sand Member of the Eutaw Formation and Mooreville Chalk in Alabama, USA has produced large numbers of isolated *Cretalamna* (*sensu stricto*) teeth. Many of these teeth had formerly been assigned to the extinct Late Cretaceous shark *Cretalamna appendiculata* (Agassiz, 1843), a taxon that is now considered largely restricted to the Turonian of Europe. Recent studies have shed light on the diversity of Late Cretaceous *Cretalamna* (*s.s.*) taxa, and here we recognize a new species from Alabama, *Cretalamna bryanti*. The teeth of *C. bryanti* sp. nov. appear aligned with the members of the *Cretalamna borealis* species group, but can be distinguished from these other species by a combination of the following: anterior teeth with a more pronounced and triangular lingual root protuberance, broader triangular cusp, and a taller root relative to the height of the crown; anteriorly situated lateroposterior teeth have a distally inclined or hooked main cusp and more than one pair of lateral cusplets; and lateroposterior teeth have a strong distally hooked main cusp and a root that is largely symmetrical in basal view. At present, *C. bryanti* sp. nov. is stratigraphically confined to the Santonian/Campanian *Dicarinella asymetrica* Sigal, 1952 and *Globotruncanita elevata* Brotzen, 1934 Planktonic Foraminiferal Zones within the Tombigbee Sand Member of the Eutaw Formation and Mooreville Chalk, and teeth have been collected from

only four counties in central and western Alabama. The recognition of *C. bryanti* sp. nov. in Alabama adds to our knowledge on the diversity and distribution of Late Cretaceous otodontids in the region.

ADNET, S. & MOUANA, M. & CHARRUAULT, A.-L. & ESSID, E.M. & AMMAR, H.K. & MARZOUGUI, W. & MERZERAUD, G. & TABUCE, R. & VIANEY-LIAUD, M. & MARIVAUX, L. (2018): Teeth, fossil record and evolutionary history of the cowtail stingray *Pastinachus* Rüppell, 1829. *Historical Biology, in press*

New species: *Pastinachus kebarensis*

Abstract: Hypolophin 'dasyatids' are a common group of large stingrays today frequenting the Indo-Pacific inshores. Being often harvested in their restricted area, few are known about their biology and their evolutionary history despite a very peculiar dental pattern making it easy to track their fossil record**.** An abundant material consisting of isolated teeth from Late Bartonian (38–40 Ma) lagoonal deposits of Djebel el Kébar, Tunisia, allows to describe a new stingray, *Pastinachus kebarensis* nov. sp. This taxon represents the oldest occurrence for this genus but also the oldest fossil record for hypolophins. A dental comparison of these fossils with 3D rendered models of fresh specimens testifies that early hypolophin representatives had already a strongly arcuate and bulbous upper jaw, interlocking with a broad and elongated tooth plate on the lower jaw. This new fossil and its fossil relatives (here updated), indicate a pre-Bartonian origination for hypolophins in western Neotethys, and reveal a rapid and widespread colonization of the proto-Mediterranean Sea, western Atlantic and Indo-Pacific coasts during the late Paleogene–early Neogene. Finally, it is worth noting that early hypolophin representatives seemingly entered freshwater habitats occasionally as modern cowtail stingrays do.

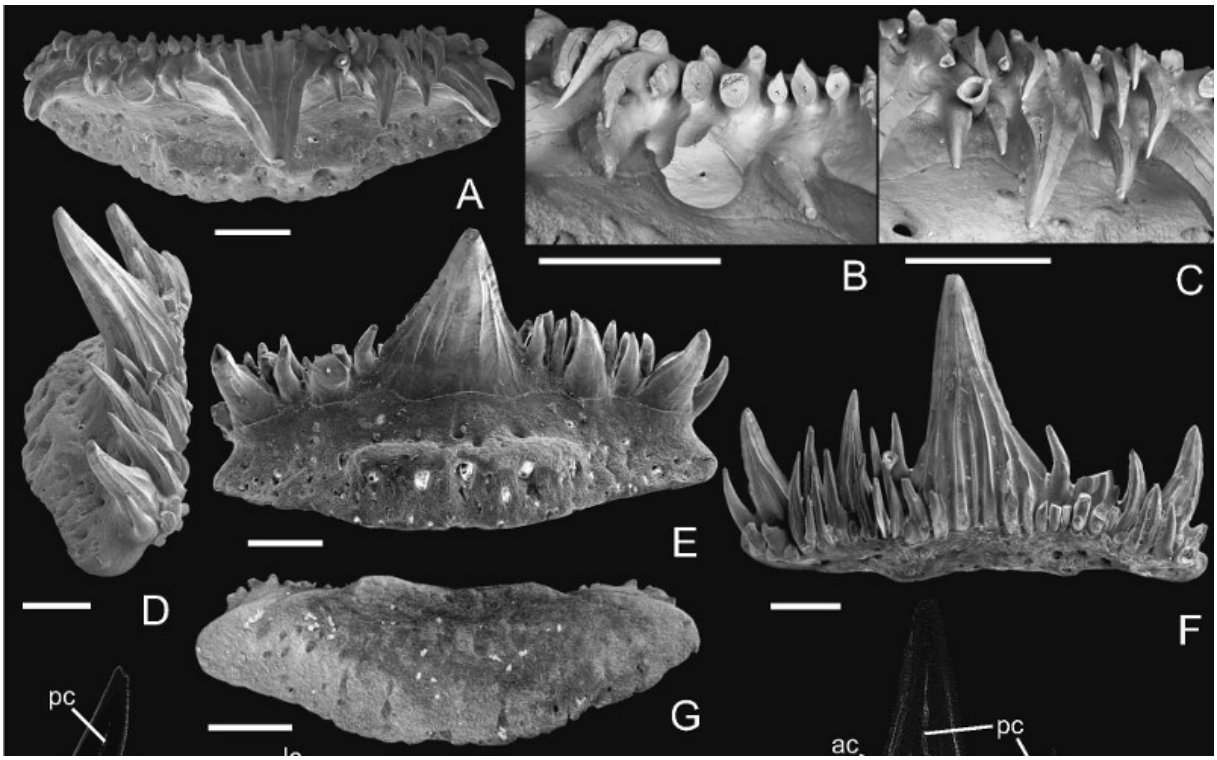


Text-fig. 2. *Stethacanthus concavus* sp. nov. from the Upper Pennsylvanian, Gzhelian, Indian Cave Sandstone, SE of Peru, Nebraska. A-C – holotype, CM 44550b, in basal, labial and basal/labial views; D, E – tooth CM 44550c, in basal and labial views; F-H – large tooth, CM 44550a, in oblique labial, oral and lingual views

GINTER, M. (2018): Symmoriiform sharks from the Pennsylvanian of Nebraska. *Acta Geologica Polonica, 68 (3): 391–401*

New species: *Stethacanthus concavus*

Abstract: The Indian Cave Sandstone (Upper Pennsylvanian, Gzhelian) from the area of Peru, Nebraska, USA, has yielded numerous isolated chondrichthyan remains and among them teeth and dermal denticles of the Symmoriiformes Zangerl, 1981. Two tooth-based taxa were identified: a falcatid *Denaea saltsmani* Ginter and Hansen, 2010, and a new species of *Stethacanthus* Newberry, 1889, *S. concavus* sp. nov. In addition, there occur a few long, monocuspid tooth-like denticles, similar to those observed in *Cobelodus* Zangerl, 1973, probably representing the head cover or the spine-brush complex. A review of the available information on the fossil record of Symmoriiformes has revealed that the group existed from the Late Devonian (Famennian) till the end of the Middle Permian (Capitanian).



IVANOV, A.O. & PLAX, D.P. (2018): Chondrichthyans from the Devonian–Early Carboniferous of Belarus. *Estonian Journal of Earth Sciences, 67 (1): 43–58*

New species: *Tamiobatis elgae*

Abstract: Diverse remains of chondrichthyans were found in several stratigraphic levels in 18 cores of the Devonian and Lower Carboniferous of Belarus. Most of the taxa were first reported in that territory. A new species of ctenacanthiform shark, *Tamiobatis elgae*, is described. The internal structure of teeth of this species is reconstructed for the first time using microtomography. The distribution of chondrichthyan taxa is analysed.

BHAT, M.S. & RAY, S. & DATTA, P.M. (2018): A new assemblage of freshwater sharks (Chondrichthyes: Elasmobranchii) from the Upper Triassic of India*. Geobios, 51 (4): 269-283*

New genus: *Tikiodontus*

New species: *Mooreodontus jaini, Tikiodontus asymmetricus*

Abstract: This study reports the first occurrence of a varied xenacanth assemblage from the Upper Triassic Tiki Formation of India, based on multiple well-preserved isolated teeth. Based on distinct tooth morphology, two species of the genus *Mooreodontus* are described: *M. indicus* and a new species, *M. jaini*. The new species is diagnosed based on a tricuspid crown containing two stout, slightly diverging lateral cusps pointing in the same direction, a high median cusp, crown-base angle almost at 90 degrees, large, rounded, apical button with several foramina and multiple, 8-9 coarse vertical cristae on all the cusps. Dental anomaly in the

form of a partial quadri-cuspidate xenacanthid tooth is present in the collection. Another group of xenacanthid teeth have bicuspid crowns with two upright, asymmetric cusps, where the mesial cusp is thicker than the distal one, and consistently lack a median cusp. Such distinct bicuspid tooth morphology is usually present in Palaeozoic forms and is reported for the first time from the Late Triassic. It is considered to belong to a new taxon, *Tikiodontus asymmetricus* nov. gen., nov. sp., of indeterminate family. Distinctive tooth histology also differentiates the two Indian genera Mooreodontus and *Tikiodontus* nov. gen. from other xenacanthid taxa. In addition, the Tiki assemblage has yielded multiple chondrichthyan dermal denticles, which may be subdivided into two morphotypes based on their robustness and presence/absence of linear ridges on the fused cusps. India holds a unique position in terms of its Late Triassic freshwater shark fauna, as it exhibits distinct Laurasian affinities. These freshwater sharks had restricted occurrences in other parts of the Gondwanan landmass.

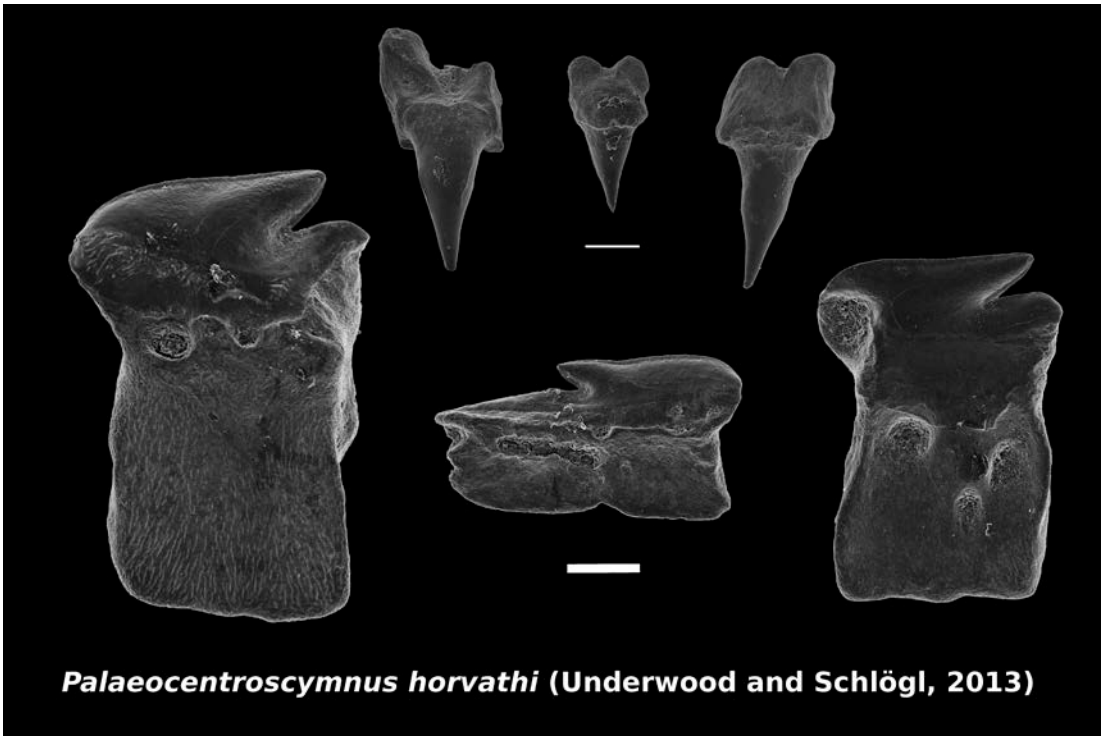
BERNÁRDEZ, E. (2018): *Truyolsodontos estauni* n. gen., n. sp., Truyolsodontidae, a new family of lamniform sharks from the Cenomanian of northern Spain*. Annales de Paléontologie, 104 (3): 175-181*

New family: Truyolsodontidae

New genus: *Truyolsodontos*

New species: *Truyolsodontos estauni*

Abstract: *Truyolsodontos estauni* n. gen., n. sp. is described based on fossil teeth from the middle and upper Cenomanian of northern Spain. The species *Protoscyliorhinus magnus* Landemaine, 1991 is withdrawn from the genus *Protoscyliorhinus* and placed in this new one. For the new genus, the new family Truyolsodontidae is proposed.



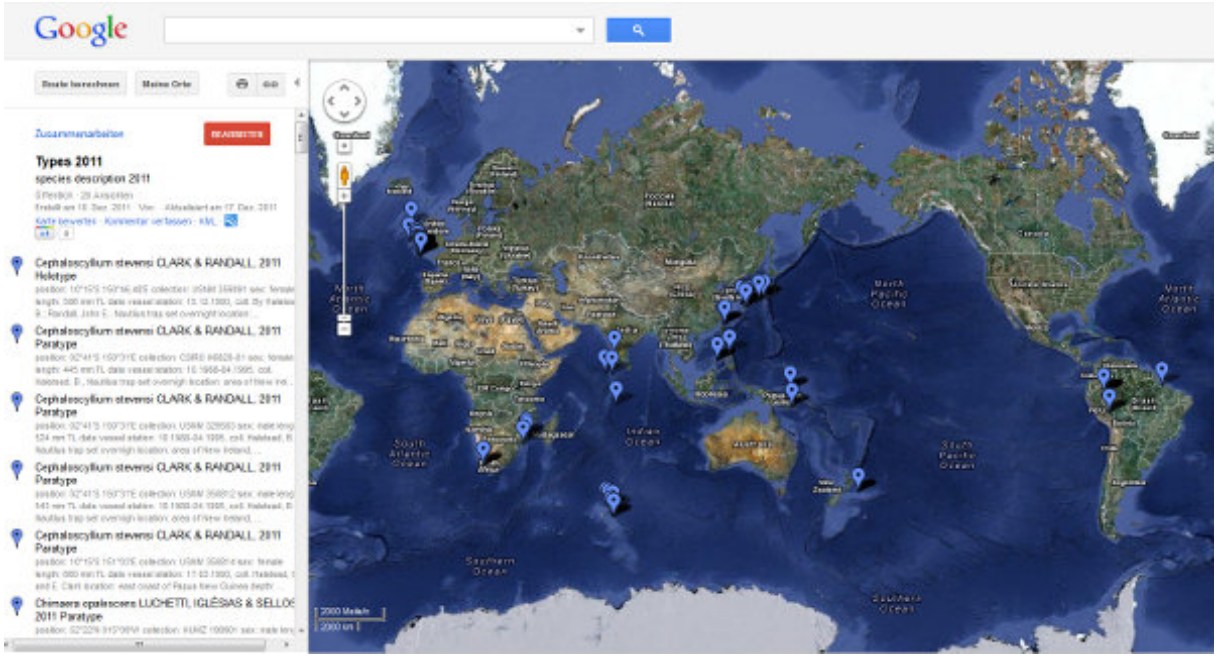
POLLERSPÖCK, J. & FLAMMENSBECK, C. & STRAUBE, N. (2018): *Palaeocentroscymnus* (Chondrichthyes: Somniosidae), a new sleeper shark genus from Miocene deposits of Austria (Europe). *Paläontologische Zeitschrift, 92 (3): 443–456*

New genus: *Palaeocentroscymnus*

Abstract: Fossil upper and lower squaliform shark teeth from the upper Austrian marine Molasse (Paratethys, Upper Egerian, Aquitanian) were collected. For testing the phylogenetic signal of 31 reviewed dental characters of both fossil and extant etmopterids and somniosids, we perform phylogenetic analyses using both parsimony and maximum likelihood approaches. Results indicate a close phylogenetic relationship of teeth collected for this study with the extant somniosid genus *Centroscymnus*. A number of preliminary or un-identified fossil teeth published in other studies were included in our analyses and cluster along with the fossils described herein suggesting to be synonym. Our results further allow for a revision of the type species of *Paraetmopterus horvathi* Underwood and Schlögl, 2013 and the description of *Palaeocentroscymnus* gen. nov.

3.3 Descriptions of extant genera/species

Types in Google map
(http://maps.google.com/maps/ms?msa=0&msid=217824177182325311271.0004b3bc714004039f92e&hl=de&ie=UTF8&ll=3.123195,53.281417&spn=106.420277,253.202833&t=h&vpsrc=6&source=embed)



3.3.1 List of new extant genera

No new extant genera in 2018!

3.3.2 List of new extant species

Bythaelurus stewarti	WEIGMANN, KASCHNER & THIEL, 2018	(Carcharhiniformes: Pentanchidae)
Etmopterus marshae	EBERT & VAN HEES, 2018	(Squaliformes: Etmopteridae)
Neotrygon indica	PAVAN-KUMAR, KUMAR, PITALE, SHEN & BORSA, 2018	(Myliobatiformes: Dasyatidae)
Parmaturus nigripalatum	FAHMI & EBERT, 2018	(Carcharhiniformes: Pentanchidae)
Planonasus indicus	EBERT, AKHILESH & WEIGMANN, 2018	(Carcharhiniformes: Pseudotriakidae)
Squalus clarkae	PFLEGER, GRUBBS, COTTON & DALY-ENGEL, 2018	(Squaliformes: Squalidae)

Squalus hawaiiensis	DALY-ENGEL, KOCH, ANDERSON, COTTON & GRUBBS, 2018	(Squaliformes: Squalidae)
Squatina varii	VAZ & DE CARVALHO, 2018	(Squatiniformes: Squatinidae)

3.3.3 Biodiversity

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

Genus	Species	Author	Family	Order	No of records
Carcharhinus	*acronotus*	(POEY, 1860)	Carcharhinidae	Carcharhiniformes	211
Carcharhinus	*albimarginatus*	(RÜPPELL, 1837)	Carcharhinidae	Carcharhiniformes	237
Carcharhinus	*altimus*	(SPRINGER, 1950)	Carcharhinidae	Carcharhiniformes	199
Carcharhinus	*amblyrhynchoides*	(WHITLEY, 1934)	Carcharhinidae	Carcharhiniformes	103
Carcharhinus	*amblyrhynchos*	(BLEEKER, 1856)	Carcharhinidae	Carcharhiniformes	345
Carcharhinus	*amboinensis*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	178
Carcharhinus	*borneensis*	(BLEEKER, 1858)	Carcharhinidae	Carcharhiniformes	27
Carcharhinus	*brachyurus*	(GÜNTHER, 1870)	Carcharhinidae	Carcharhiniformes	325
Carcharhinus	*brevipinna*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	397
Carcharhinus	*cautus*	(WHITLEY, 1945)	Carcharhinidae	Carcharhiniformes	60
Carcharhinus	*coatesi*	(WHITLEY, 1939)	Carcharhinidae	Carcharhiniformes	13
Carcharhinus	*dussumieri*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	147
Carcharhinus	*falciformis*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	671
Carcharhinus	*fitzroyensis*	(WHITLEY, 1943)	Carcharhinidae	Carcharhiniformes	52
Carcharhinus	*galapagensis*	(SNODGRASS & HELLER, 1905)	Carcharhinidae	Carcharhiniformes	193
Carcharhinus	*hemiodon*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	60
Carcharhinus	*humani*	WHITE & WEIGMANN, 2014	Carcharhinidae	Carcharhiniformes	7
Carcharhinus	*isodon*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	127
Carcharhinus	*leiodon*	GARRICK, 1985	Carcharhinidae	Carcharhiniformes	30
Carcharhinus	*leucas*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	809
Carcharhinus	*limbatus*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	795
Carcharhinus	*longimanus*	(POEY, 1861)	Carcharhinidae	Carcharhiniformes	406
Carcharhinus	*macloti*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	150
Carcharhinus	*melanopterus*	(QUOY & GAIMARD, 1824)	Carcharhinidae	Carcharhiniformes	454
Carcharhinus	*obscurus*	(LESUEUR, 1818)	Carcharhinidae	Carcharhiniformes	594
Carcharhinus	*perezii*	(POEY, 1876)	Carcharhinidae	Carcharhiniformes	163

Carcharhinus	*plumbeus*	(NARDO, 1827)	Carcharhinidae	Carcharhiniformes	795
Carcharhinus	*porosus*	(RANZANI, 1839)	Carcharhinidae	Carcharhiniformes	166
Carcharhinus	*sealei*	(PIETSCHMANN, 1913)	Carcharhinidae	Carcharhiniformes	72
Carcharhinus	*signatus*	(POEY, 1868)	Carcharhinidae	Carcharhiniformes	150
Carcharhinus	*sorrah*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	275
Carcharhinus	*tilstoni*	(WHITLEY, 1950)	Carcharhinidae	Carcharhiniformes	86
Carcharhinus	*tjutjot*	(BLEEKER, 1852)	Carcharhinidae	Carcharhiniformes	18
Galeocerdo	*cuvier*	(PÉRON & LESUEUR, 1822)	Carcharhinidae	Carcharhiniformes	1003
Glyphis	*gangeticus*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	89
Glyphis	*garricki*	COMPAGNO, WHITE & LAST, 2008	Carcharhinidae	Carcharhiniformes	32
Glyphis	*glyphis*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	53
Isogomphodon	*oxyrhynchus*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	51
Lamiopsis	*temminckii*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	62
Lamiopsis	*tephrodes*	(FOWLER, 1905)	Carcharhinidae	Carcharhiniformes	11
Loxodon	*macrorhinus*	MÜLLER & HENLE, 1839	Carcharhinidae	Carcharhiniformes	153
Nasolamia	*velox*	(GILBERT, 1898)	Carcharhinidae	Carcharhiniformes	52
Negaprion	*acutidens*	(RÜPPELL, 1837)	Carcharhinidae	Carcharhiniformes	232
Negaprion	*brevirostris*	(POEY, 1868)	Carcharhinidae	Carcharhiniformes	575
Prionace	*glauca*	(LINNAEUS, 1758)	Carcharhinidae	Carcharhiniformes	1274
Rhizoprionodon	*acutus*	(RÜPPELL, 1837)	Carcharhinidae	Carcharhiniformes	357
Rhizoprionodon	*lalandii*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	122
Rhizoprionodon	*longurio*	(JORDAN & GILBERT, 1882)	Carcharhinidae	Carcharhiniformes	90
Rhizoprionodon	*oligolinx*	SPRINGER, 1964	Carcharhinidae	Carcharhiniformes	79
Rhizoprionodon	*porosus*	(POEY, 1861)	Carcharhinidae	Carcharhiniformes	129
Rhizoprionodon	*taylori*	(OGILBY, 1915)	Carcharhinidae	Carcharhiniformes	86
Rhizoprionodon	*terraenovae*	(RICHARDSON, 1836)	Carcharhinidae	Carcharhiniformes	309
Scoliodon	*laticaudus*	MÜLLER & HENLE, 1838	Carcharhinidae	Carcharhiniformes	199
Scoliodon	*macrorhynchos*	(BLEEKER, 1852)	Carcharhinidae	Carcharhiniformes	18
Triaenodon	*obesus*	(RÜPPELL, 1837)	Carcharhinidae	Carcharhiniformes	333

Chaenogaleus	*macrostoma*	(BLEEKER, 1852)	Hemigaleidae	Carcharhiniformes	88
Hemigaleus	*australiensis*	WHITE, LAST & COMPAGNO, 2005	Hemigaleidae	Carcharhiniformes	34
Hemigaleus	*microstoma*	BLEEKER, 1852	Hemigaleidae	Carcharhiniformes	92
Hemipristis	*elongata*	(KLUNZINGER, 1871)	Hemigaleidae	Carcharhiniformes	160
Paragaleus	*leucolomatus*	COMPAGNO & SMALE, 1985	Hemigaleidae	Carcharhiniformes	13
Paragaleus	*pectoralis*	(GARMAN, 1906)	Hemigaleidae	Carcharhiniformes	42
Paragaleus	*randalli*	COMPAGNO, KRUPP & CARPENTER, 1996	Hemigaleidae	Carcharhiniformes	33
Paragaleus	*tengi*	(CHEN, 1963)	Hemigaleidae	Carcharhiniformes	25
Leptocharias	*smithii*	(MÜLLER & HENLE, 1839)	Leptochariidae	Carcharhiniformes	39
Apristurus	*albisoma*	NAKAYA & SÉRET, 1999	Pentanchidae	Carcharhiniformes	12
Apristurus	*ampliceps*	SASAHARA, SATO & NAKAYA, 2008	Pentanchidae	Carcharhiniformes	10
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	4
Apristurus	*brunneus*	(GILBERT, 1892)	Pentanchidae	Carcharhiniformes	68
Apristurus	*bucephalus*	WHITE, LAST & POGONOSKI, 2008	Pentanchidae	Carcharhiniformes	4
Apristurus	*canutus*	SPRINGER & HEEMSTRA, 1979	Pentanchidae	Carcharhiniformes	17
Apristurus	*exsanguis*	SATO, NAKAYA & STEWART, 1999	Pentanchidae	Carcharhiniformes	13
Apristurus	*fedorovi*	DOLGANOV, 1983	Pentanchidae	Carcharhiniformes	18
Apristurus	*garricki*	SATO, STEWART & NAKAYA, 2013	Pentanchidae	Carcharhiniformes	4
Apristurus	*gibbosus*	MENG, CHU & LI, 1985	Pentanchidae	Carcharhiniformes	10
Apristurus	*herklotsi*	(FOWLER, 1934)	Pentanchidae	Carcharhiniformes	34
Apristurus	*indicus*	(BRAUER, 1906)	Pentanchidae	Carcharhiniformes	33
Apristurus	*internatus*	DENG, XIONG & ZHAN, 1988	Pentanchidae	Carcharhiniformes	6

Apristurus	*investigatoris*	(MISRA, 1962)	Pentanchidae	Carcharhiniformes	16
Apristurus	*japonicus*	NAKAYA, 1975	Pentanchidae	Carcharhiniformes	23
Apristurus	*kampae*	TAYLOR, 1972	Pentanchidae	Carcharhiniformes	34
Apristurus	*laurussonii*	(SAEMUNDSSON, 1922)	Pentanchidae	Carcharhiniformes	78
Apristurus	*longicephalus*	NAKAYA, 1975	Pentanchidae	Carcharhiniformes	33
Apristurus	*macrorhynchus*	(TANAKA, 1909)	Pentanchidae	Carcharhiniformes	34
Apristurus	*macrostomus*	CHU, MENG & LI, 1985	Pentanchidae	Carcharhiniformes	14
Apristurus	*manis*	(SPRINGER, 1979)	Pentanchidae	Carcharhiniformes	37
Apristurus	*melanoasper*	IGLÉSIAS, NAKAYA & STEHMANN, 2004	Pentanchidae	Carcharhiniformes	32
Apristurus	*microps*	(GILCHRIST, 1922)	Pentanchidae	Carcharhiniformes	41
Apristurus	*micropterygeus*	MENG, CHU & LI, 1986	Pentanchidae	Carcharhiniformes	9
Apristurus	*nakayai*	IGLÉSIAS, 2012	Pentanchidae	Carcharhiniformes	4
Apristurus	*nasutus*	DE BUEN, 1959	Pentanchidae	Carcharhiniformes	32
Apristurus	*parvipinnis*	SPRINGER & HEEMSTRA, 1979	Pentanchidae	Carcharhiniformes	32
Apristurus	*pinguis*	DENG, XIONG & ZHAN, 1983	Pentanchidae	Carcharhiniformes	16
Apristurus	*platyrhynchus*	(TANAKA, 1909)	Pentanchidae	Carcharhiniformes	53
Apristurus	*profundorum*	(GOODE & BEAN, 1896)	Pentanchidae	Carcharhiniformes	49
Apristurus	*riveri*	BIGELOW & SCHROEDER, 1944	Pentanchidae	Carcharhiniformes	27
Apristurus	*saldanha*	(BARNARD, 1925)	Pentanchidae	Carcharhiniformes	28
Apristurus	*sibogae*	(WEBER, 1913)	Pentanchidae	Carcharhiniformes	15
Apristurus	*sinensis*	CHU & HU, 1981	Pentanchidae	Carcharhiniformes	21
Apristurus	*spongiceps*	(GILBERT, 1905)	Pentanchidae	Carcharhiniformes	19
Apristurus	*stenseni*	(SPRINGER, 1979)	Pentanchidae	Carcharhiniformes	8
Apristurus	*yangi*	WHITE, MANA & NAYLOR, 2017	Pentanchidae	Carcharhiniformes	3
Asymbolus	*analis*	(OGILBY, 1885)	Pentanchidae	Carcharhiniformes	39
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	30
Bythaelurus	*alcockii*	(GARMAN, 1913)	Pentanchidae	Carcharhiniformes	14
Bythaelurus	*bachi*	WEIGMANN, EBERT, CLERKIN, STEHMANN & NAYLOR, 2016	Pentanchidae	Carcharhiniformes	2
Bythaelurus	*canescens*	(GÜNTHER, 1878)	Pentanchidae	Carcharhiniformes	39
Bythaelurus	*clevai*	(SÉRET, 1987)	Pentanchidae	Carcharhiniformes	10
Bythaelurus	*dawsoni*	(SPRINGER, 1971)	Pentanchidae	Carcharhiniformes	25
Bythaelurus	*giddingsi*	McCOSKER, LONG & BALDWIN, 2012	Pentanchidae	Carcharhiniformes	7
Bythaelurus	*hispidus*	(ALCOCK, 1891)	Pentanchidae	Carcharhiniformes	48
Bythaelurus	*immaculatus*	(CHU & MENG, 1982)	Pentanchidae	Carcharhiniformes	14
Bythaelurus	*incanus*	LAST & STEVENS, 2008	Pentanchidae	Carcharhiniformes	6
Bythaelurus	*lutarius*	(SPRINGER & D'AUBREY, 1972)	Pentanchidae	Carcharhiniformes	27
Bythaelurus	*naylori*	EBERT & CLERKIN, 2015	Pentanchidae	Carcharhiniformes	4
Bythaelurus	*stewarti*	WEIGMANN, KASCHNER & THIEL, 2018	Pentanchidae	Carcharhiniformes	1
Bythaelurus	*tenuicephalus*	KASCHNER, WEIGMANN & THIEL, 2015	Pentanchidae	Carcharhiniformes	5
Bythaelurus	*vivaldii*	WEIGMANN & KASCHNER, 2017	Pentanchidae	Carcharhiniformes	2
Cephalurus	*cephalus*	(GILBERT, 1892)	Pentanchidae	Carcharhiniformes	44
Figaro	*boardmani*	(WHITLEY, 1928)	Pentanchidae	Carcharhiniformes	48
Figaro	*striatus*	GLEDHILL, LAST & WHITE, 2008	Pentanchidae	Carcharhiniformes	6
Galeus	*antillensis*	SPRINGER, 1979	Pentanchidae	Carcharhiniformes	15

Galeus	*arae*	(NICHOLS, 1927)	Pentanchidae	Carcharhiniformes	32
Galeus	*atlanticus*	(VAILLANT, 1888)	Pentanchidae	Carcharhiniformes	48
Galeus	*cadenati*	SPRINGER, 1966	Pentanchidae	Carcharhiniformes	20
Galeus	*corriganae*	WHITE, MANA & NAYLOR, 2016	Pentanchidae	Carcharhiniformes	3
Galeus	*eastmani*	(JORDAN & SNYDER, 1904)	Pentanchidae	Carcharhiniformes	43
Galeus	*gracilis*	COMPAGNO & STEVENS, 1993	Pentanchidae	Carcharhiniformes	15
Galeus	*longirostris*	TACHIKAWA & TANIUCHI, 1987	Pentanchidae	Carcharhiniformes	10
Galeus	*melastomus*	RAFINESQUE, 1810	Pentanchidae	Carcharhiniformes	340
Galeus	*mincaronei*	SOTO, 2001	Pentanchidae	Carcharhiniformes	10
Galeus	*murinus*	(COLLETT, 1904)	Pentanchidae	Carcharhiniformes	38
Galeus	*nipponensis*	NAKAYA, 1975	Pentanchidae	Carcharhiniformes	28
Galeus	*piperatus*	SPRINGER & WAGNER, 1966	Pentanchidae	Carcharhiniformes	24
Galeus	*polli*	CADENAT, 1959	Pentanchidae	Carcharhiniformes	40
Galeus	*priapus*	SÉRET & LAST, 2008	Pentanchidae	Carcharhiniformes	6
Galeus	*sauteri*	(JORDAN & RICHARDSON, 1909)	Pentanchidae	Carcharhiniformes	31
Galeus	*schultzi*	SPRINGER, 1979	Pentanchidae	Carcharhiniformes	13
Galeus	*springeri*	KONSTANTINOU & COZZI, 1998	Pentanchidae	Carcharhiniformes	13
Halaelurus	*boesemani*	SPRINGER & D'AUBREY, 1972	Pentanchidae	Carcharhiniformes	25
Halaelurus	*buergeri*	(MÜLLER & HENLE, 1838)	Pentanchidae	Carcharhiniformes	54
Halaelurus	*lineatus*	BASS, D'AUBREY & KISTNASAMY, 1975	Pentanchidae	Carcharhiniformes	22
Halaelurus	*maculosus*	WHITE, LAST & STEVENS, 2007	Pentanchidae	Carcharhiniformes	4
Halaelurus	*natalensis*	(REGAN, 1904)	Pentanchidae	Carcharhiniformes	39
Halaelurus	*quagga*	(ALCOCK, 1899)	Pentanchidae	Carcharhiniformes	27
Halaelurus	*sellus*	WHITE, LAST & STEVENS, 2007	Pentanchidae	Carcharhiniformes	6
Haploblepharus	*edwardsii*	(SCHINZ, 1822)	Pentanchidae	Carcharhiniformes	65
Haploblepharus	*fuscus*	SMITH, 1950	Pentanchidae	Carcharhiniformes	32
Haploblepharus	*kistnasamyi*	HUMAN & COMPAGNO, 2006	Pentanchidae	Carcharhiniformes	8

Haploblepharus	*pictus*	(MÜLLER & HENLE, 1838)	Pentanchidae	Carcharhiniformes	32
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	35
Holohalaelurus	*regani*	(GILCHRIST, 1922)	Pentanchidae	Carcharhiniformes	47
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	17
Parmaturus	*lanatus*	SÉRET & LAST, 2007	Pentanchidae	Carcharhiniformes	6
Parmaturus	*macmillani*	HARDY, 1985	Pentanchidae	Carcharhiniformes	13
Parmaturus	*melanobranchus*	(CHAN, 1966)	Pentanchidae	Carcharhiniformes	20
Parmaturus	*nigripalatum*	FAHMI & EBERT, 2018	Pentanchidae	Carcharhiniformes	1
Parmaturus	*pilosus*	GARMAN, 1906	Pentanchidae	Carcharhiniformes	28
Parmaturus	*xaniurus*	(GILBERT, 1892)	Pentanchidae	Carcharhiniformes	59
Pentanchus	*profundicolus*	SMITH & RADCLIFFE, 1912	Pentanchidae	Carcharhiniformes	20
Ctenacis	*fehlmanni*	(SPRINGER, 1968)	Proscylliidae	Carcharhiniformes	24
Eridacnis	*barbouri*	(BIGELOW & SCHROEDER, 1944)	Proscylliidae	Carcharhiniformes	17
Eridacnis	*radcliffei*	SMITH, 1913	Proscylliidae	Carcharhiniformes	60
Eridacnis	*sinuans*	(SMITH, 1957)	Proscylliidae	Carcharhiniformes	21
Proscyllium	*habereri*	HILGENDORF, 1904	Proscylliidae	Carcharhiniformes	64
Proscyllium	*magnificum*	LAST & VONGPANICH, 2004	Proscylliidae	Carcharhiniformes	9
Gollum	*attenuatus*	(GARRICK, 1954)	Pseudotriakidae	Carcharhiniformes	36
Gollum	*suluensis*	LAST & GAUDIANO, 2011	Pseudotriakidae	Carcharhiniformes	3
Planonasus	*indicus*	EBERT, AKHILESH & WEIGMANN, 2018	Pseudotriakidae	Carcharhiniformes	1
Planonasus	*parini*	WEIGMANN, STEHMANN & THIEL, 2013	Pseudotriakidae	Carcharhiniformes	10

Pseudotriakis	*microdon*	DE BRITO CAPELLO, 1868	Pseudotriakidae	Carcharhiniformes	132
Atelomycterus	*baliensis*	WHITE, LAST & DHARMADI, 2005	Scyliorhinidae	Carcharhiniformes	9
Atelomycterus	*erdmanni*	FAHMI & WHITE, 2015	Scyliorhinidae	Carcharhiniformes	2
Atelomycterus	*fasciatus*	COMPAGNO & STEVENS, 1993	Scyliorhinidae	Carcharhiniformes	17
Atelomycterus	*macleayi*	WHITLEY, 1939	Scyliorhinidae	Carcharhiniformes	22
Atelomycterus	*marmoratus*	(BENNETT, 1830)	Scyliorhinidae	Carcharhiniformes	117
Atelomycterus	*marnkalha*	JACOBSEN & BENNETT, 2007	Scyliorhinidae	Carcharhiniformes	13
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	5
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	58
Cephaloscyllium	*laticeps*	(DUMÉRIL, 1853)	Scyliorhinidae	Carcharhiniformes	58
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	25
Cephaloscyllium	*speccum*	LAST, SÉRET & WHITE, 2008	Scyliorhinidae	Carcharhiniformes	8
Cephaloscyllium	*stevensi*	CLARK & RANDALL, 2011	Scyliorhinidae	Carcharhiniformes	4
Cephaloscyllium	*sufflans*	(REGAN, 1921)	Scyliorhinidae	Carcharhiniformes	36
Cephaloscyllium	*umbratile*	JORDAN & FOWLER, 1903	Scyliorhinidae	Carcharhiniformes	61
Cephaloscyllium	*variegatum*	LAST & WHITE, 2008	Scyliorhinidae	Carcharhiniformes	14
Cephaloscyllium	*ventriosum*	(GARMAN, 1880)	Scyliorhinidae	Carcharhiniformes	93
Cephaloscyllium	*zebrum*	LAST & WHITE, 2008	Scyliorhinidae	Carcharhiniformes	5
Poroderma	*africanum*	(GMELIN, 1789)	Scyliorhinidae	Carcharhiniformes	74

Poroderma	*pantherinum*	(MÜLLER & HENLE, 1838)	Scyliorhinidae	Carcharhiniformes	76
Schroederichthys	*bivius*	(MÜLLER & HENLE, 1838)	Scyliorhinidae	Carcharhiniformes	69
Schroederichthys	*chilensis*	(GUICHENOT, 1848)	Scyliorhinidae	Carcharhiniformes	50
Schroederichthys	*maculatus*	SPRINGER, 1966	Scyliorhinidae	Carcharhiniformes	27
Schroederichthys	*saurisqualus*	SOTO, 2001	Scyliorhinidae	Carcharhiniformes	11
Schroederichthys	*tenuis*	SPRINGER, 1966	Scyliorhinidae	Carcharhiniformes	22
Scyliorhinus	*boa*	GOODE & BEAN, 1896	Scyliorhinidae	Carcharhiniformes	32
Scyliorhinus	*cabofriensis*	SOARES, GOMES & DE CARVALHO, 2016	Scyliorhinidae	Carcharhiniformes	4
Scyliorhinus	*canicula*	(LINNAEUS, 1758)	Scyliorhinidae	Carcharhiniformes	1122
Scyliorhinus	*capensis*	(MÜLLER & HENLE, 1838)	Scyliorhinidae	Carcharhiniformes	60
Scyliorhinus	*cervigoni*	MAURIN & BONNET, 1970	Scyliorhinidae	Carcharhiniformes	15
Scyliorhinus	*comoroensis*	COMPAGNO, 1988	Scyliorhinidae	Carcharhiniformes	8
Scyliorhinus	*garmani*	(FOWLER, 1934)	Scyliorhinidae	Carcharhiniformes	14
Scyliorhinus	*haeckelii*	(MIRANDA RIBEIRO, 1907)	Scyliorhinidae	Carcharhiniformes	54
Scyliorhinus	*hesperius*	SPRINGER, 1966	Scyliorhinidae	Carcharhiniformes	30
Scyliorhinus	*meadi*	SPRINGER, 1966	Scyliorhinidae	Carcharhiniformes	24
Scyliorhinus	*retifer*	(GARMAN, 1881)	Scyliorhinidae	Carcharhiniformes	79
Scyliorhinus	*stellaris*	(LINNAEUS, 1758)	Scyliorhinidae	Carcharhiniformes	314
Scyliorhinus	*tokubee*	SHIRAI, HAGIWARA & NAKAYA, 1992	Scyliorhinidae	Carcharhiniformes	8
Scyliorhinus	*torazame*	(TANAKA, 1908)	Scyliorhinidae	Carcharhiniformes	90
Scyliorhinus	*torrei*	HOWELL RIVERO, 1936	Scyliorhinidae	Carcharhiniformes	20
Scyliorhinus	*ugoi*	SOARES, GADIG & GOMES, 2015	Scyliorhinidae	Carcharhiniformes	4
Eusphyra	*blochii*	(CUVIER, 1816)	Sphyrnidae	Carcharhiniformes	151
Sphyrna	*corona*	SPRINGER, 1940	Sphyrnidae	Carcharhiniformes	44
Sphyrna	*gilberti*	QUATTRO, DRIGGERS, GRADY, ULRICH & ROBERTS, 2013	Sphyrnidae	Carcharhiniformes	3
Sphyrna	*lewini*	(GRIFFITH & SMITH, 1834)	Sphyrnidae	Carcharhiniformes	871

Sphyrna	*media*	SPRINGER, 1940	Sphyrnidae	Carcharhiniformes	71
Sphyrna	*mokarran*	(RÜPPELL, 1837)	Sphyrnidae	Carcharhiniformes	433
Sphyrna	*tiburo*	(LINNAEUS, 1758)	Sphyrnidae	Carcharhiniformes	430
Sphyrna	*tudes*	(VALENCIENNES, 1822)	Sphyrnidae	Carcharhiniformes	151
Sphyrna	*zygaena*	(LINNAEUS, 1758)	Sphyrnidae	Carcharhiniformes	705
Furgaleus	*macki*	(WHITLEY, 1943)	Triakidae	Carcharhiniformes	52
Galeorhinus	*galeus*	(LINNAEUS, 1758)	Triakidae	Carcharhiniformes	654
Gogolia	*filewoodi*	COMPAGNO, 1973	Triakidae	Carcharhiniformes	15
Hemitriakis	*abdita*	COMPAGNO & STEVENS, 1993	Triakidae	Carcharhiniformes	13
Hemitriakis	*complicofasciata*	TAKAHASHI & NAKAYA, 2004	Triakidae	Carcharhiniformes	9
Hemitriakis	*falcata*	COMPAGNO & STEVENS, 1993	Triakidae	Carcharhiniformes	18
Hemitriakis	*indroyonoi*	WHITE, COMPAGNO & DHARMADI, 2009	Triakidae	Carcharhiniformes	5
Hemitriakis	*japanica*	(MÜLLER & HENLE, 1839)	Triakidae	Carcharhiniformes	68
Hemitriakis	*leucoperiptera*	HERRE, 1923	Triakidae	Carcharhiniformes	17
Hypogaleus	*hyugaensis*	(MIYOSI, 1939)	Triakidae	Carcharhiniformes	47
Iago	*garricki*	FOURMANOIR, 1979	Triakidae	Carcharhiniformes	27
Iago	*omanensis*	(NORMAN, 1939)	Triakidae	Carcharhiniformes	80
Mustelus	*albipinnis*	CASTRO-AGUIRRE, ATUNA-MENDIOLA, GONZÁZ-ACOSTA & DE LA CRUZ-AGÜERO, 2005	Triakidae	Carcharhiniformes	17
Mustelus	*antarcticus*	GÜNTHER, 1870	Triakidae	Carcharhiniformes	158
Mustelus	*asterias*	CLOQUET, 1819	Triakidae	Carcharhiniformes	152
Mustelus	*californicus*	GILL, 1864	Triakidae	Carcharhiniformes	95
Mustelus	*canis*	(MITCHILL, 1815)	Triakidae	Carcharhiniformes	392
Mustelus	*dorsalis*	GILL, 1864	Triakidae	Carcharhiniformes	47
Mustelus	*fasciatus*	(GARMAN, 1913)	Triakidae	Carcharhiniformes	30
Mustelus	*griseus*	PIETSCHMANN, 1908	Triakidae	Carcharhiniformes	67
Mustelus	*henlei*	(GILL, 1863)	Triakidae	Carcharhiniformes	134

Mustelus	*higmani*	SPRINGER & LOWE, 1963	Triakidae	Carcharhiniformes	49
Mustelus	*lenticulatus*	PHILLIPPS, 1932	Triakidae	Carcharhiniformes	62
Mustelus	*lunulatus*	JORDAN & GILBERT, 1882	Triakidae	Carcharhiniformes	90
Mustelus	*manazo*	BLEEKER, 1854	Triakidae	Carcharhiniformes	172
Mustelus	*mangalorensis*	CUBELIO, REMYA & KURUP, 2011	Triakidae	Carcharhiniformes	4
Mustelus	*mento*	COPE, 1877	Triakidae	Carcharhiniformes	44
Mustelus	*minicanis*	HEEMSTRA, 1997	Triakidae	Carcharhiniformes	13
Mustelus	*mosis*	HEMPRICH & EHRENBERG, 1899	Triakidae	Carcharhiniformes	75
Mustelus	*mustelus*	(LINNAEUS, 1758)	Triakidae	Carcharhiniformes	416
Mustelus	*norrisi*	SPRINGER, 1939	Triakidae	Carcharhiniformes	67
Mustelus	*palumbes*	SMITH, 1957	Triakidae	Carcharhiniformes	29
Mustelus	*punctulatus*	RISSO, 1827	Triakidae	Carcharhiniformes	83
Mustelus	*ravidus*	WHITE & LAST, 2006	Triakidae	Carcharhiniformes	9
Mustelus	*schmitti*	SPRINGER, 1939	Triakidae	Carcharhiniformes	119
Mustelus	*sinusmexicanus*	HEEMSTRA, 1997	Triakidae	Carcharhiniformes	18
Mustelus	*stevensi*	WHITE & LAST, 2008	Triakidae	Carcharhiniformes	11
Mustelus	*walkeri*	WHITE & LAST, 2008	Triakidae	Carcharhiniformes	9
Mustelus	*whitneyi*	CHIRICHIGNO, 1973	Triakidae	Carcharhiniformes	20
Mustelus	*widodoi*	WHITE & LAST, 2006	Triakidae	Carcharhiniformes	9
Scylliogaleus	*quecketti*	BOULENGER, 1902	Triakidae	Carcharhiniformes	34
Triakis	*acutipinna*	KATO, 1968	Triakidae	Carcharhiniformes	15
Triakis	*maculata*	KNER & STEINDACHNER, 1867	Triakidae	Carcharhiniformes	33
Triakis	*megalopterus*	(SMITH, 1839)	Triakidae	Carcharhiniformes	50
Triakis	*scyllium*	MÜLLER & HENLE, 1839	Triakidae	Carcharhiniformes	139
Triakis	*semifasciata*	GIRARD, 1855	Triakidae	Carcharhiniformes	239
Echinorhinus	*brucus*	(BONNATERRE, 1788)	Echinorhinidae	Echinorhiniformes	236
Echinorhinus	*cookei*	PIETSCHMANN, 1928	Echinorhinidae	Echinorhiniformes	103
Heterodontus	*francisci*	(GIRARD, 1855)	Heterodontidae	Heterodontiformes	180
Heterodontus	*galeatus*	(GÜNTHER, 1870)	Heterodontidae	Heterodontiformes	42

Heterodontus	*japonicus*	MACLAY & MACLEAY, 1884	Heterodontidae	Heterodontiformes	76
Heterodontus	*mexicanus*	TAYLOR & CASTRO-AGUIRRE, 1972	Heterodontidae	Heterodontiformes	39
Heterodontus	*omanensis*	BALDWIN, 2005	Heterodontidae	Heterodontiformes	8
Heterodontus	*portusjacksoni*	(MEYER, 1793)	Heterodontidae	Heterodontiformes	228
Heterodontus	*quoyi*	(FRÉMINVILLE, 1840)	Heterodontidae	Heterodontiformes	38
Heterodontus	*ramalheira*	(SMITH, 1949)	Heterodontidae	Heterodontiformes	26
Heterodontus	*zebra*	(GRAY, 1831)	Heterodontidae	Heterodontiformes	63
Chlamydoselachus	*africana*	EBERT & COMPAGNO, 2009	Chlamydoselachidae	Hexanchiformes	9
Chlamydoselachus	*anguineus*	GARMAN, 1884	Chlamydoselachidae	Hexanchiformes	202
Heptranchias	*perlo*	(BONNATERRE, 1788)	Hexanchidae	Hexanchiformes	345
Hexanchus	*griseus*	(BONNATERRE, 1788)	Hexanchidae	Hexanchiformes	604
Hexanchus	*nakamurai*	TENG, 1962	Hexanchidae	Hexanchiformes	100
Hexanchus	*vitulus*	SPRINGER & WALLER, 1969	Hexanchidae	Hexanchiformes	37
Notorynchus	*cepedianus*	(PÉRON, 1807)	Hexanchidae	Hexanchiformes	330
Alopias	*pelagicus*	NAKAMURA, 1935	Alopiidae	Lamniformes	276
Alopias	*superciliosus*	(LOWE, 1841)	Alopiidae	Lamniformes	442
Alopias	*vulpinus*	(BONNATERRE, 1788)	Alopiidae	Lamniformes	627
Cetorhinus	*maximus*	(GUNNERUS, 1765)	Cetorhinidae	Lamniformes	576
Carcharodon	*carcharias*	(LINNAEUS, 1758)	Lamnidae	Lamniformes	1237
Isurus	*oxyrinchus*	RAFINESQUE, 1810	Lamnidae	Lamniformes	1109
Isurus	*paucus*	GUITART MANDAY, 1966	Lamnidae	Lamniformes	209
Lamna	*ditropis*	HUBBS & FOLLETT, 1947	Lamnidae	Lamniformes	167
Lamna	*nasus*	(BONNATERRE, 1788)	Lamnidae	Lamniformes	475
Megachasma	*pelagios*	TAYLOR, COMPAGNO & STRUHSAKER, 1983	Megachasmidae	Lamniformes	131
Mitsukurina	*owstoni*	JORDAN, 1898	Mitsukurinidae	Lamniformes	137
Carcharias	*taurus*	RAFINESQUE, 1810	Odontaspididae	Lamniformes	633
Odontaspis	*ferox*	(RISSO, 1810)	Odontaspididae	Lamniformes	215
Odontaspis	*noronhai*	(MAUL, 1955)	Odontaspididae	Lamniformes	61
Pseudocarcharias	*kamoharai*	(MATSUBARA, 1936)	Pseudocarchariidae	Lamniformes	199

Brachaelurus	*colcloughi*	OGILBY, 1908	Brachaeluridae	Orectolobiformes	28
Brachaelurus	*waddi*	(BLOCH & SCHNEIDER, 1801)	Brachaeluridae	Orectolobiformes	46
Ginglymostoma	*cirratum*	(BONNATERRE, 1788)	Ginglymostomatidae	Orectolobiformes	514
Ginglymostoma	*unami*	DEL MORAL-FLORES, RAMÍREZ-ANTONIO, ANGULO & PÉREZ-PONCE DE LEÓN, 2015	Ginglymostomatidae	Orectolobiformes	7
Nebrius	*ferrugineus*	(LESSON, 1831)	Ginglymostomatidae	Orectolobiformes	235
Pseudoginglymostoma	*brevicaudatum*	(GÜNTHER, 1867)	Ginglymostomatidae	Orectolobiformes	29
Chiloscyllium	*arabicum*	GUBANOV, 1980	Hemiscylliidae	Orectolobiformes	44
Chiloscyllium	*burmensis*	DINGERKUS & DE FINO, 1983	Hemiscylliidae	Orectolobiformes	9
Chiloscyllium	*caeruleopunctatum*	PELLEGRIN, 1914	Hemiscylliidae	Orectolobiformes	9
Chiloscyllium	*griseum*	MÜLLER & HENLE, 1838	Hemiscylliidae	Orectolobiformes	118
Chiloscyllium	*hasseltii*	BLEEKER, 1852	Hemiscylliidae	Orectolobiformes	34
Chiloscyllium	*indicum*	(GMELIN, 1789)	Hemiscylliidae	Orectolobiformes	123
Chiloscyllium	*plagiosum*	(BENNETT, 1830)	Hemiscylliidae	Orectolobiformes	181
Chiloscyllium	*punctatum*	MÜLLER & HENLE, 1838	Hemiscylliidae	Orectolobiformes	217
Hemiscyllium	*freycineti*	(QUOY & GAIMARD, 1824)	Hemiscylliidae	Orectolobiformes	30
Hemiscyllium	*galei*	ALLEN & ERDMANN, 2008	Hemiscylliidae	Orectolobiformes	5
Hemiscyllium	*hallstromi*	WHITLEY, 1967	Hemiscylliidae	Orectolobiformes	19
Hemiscyllium	*halmahera*	ALLEN, ERDMANN & DUDGEON, 2013	Hemiscylliidae	Orectolobiformes	3
Hemiscyllium	*henryi*	ALLEN & ERDMANN, 2008	Hemiscylliidae	Orectolobiformes	5
Hemiscyllium	*michaeli*	ALLEN & DUDGEON, 2010	Hemiscylliidae	Orectolobiformes	7
Hemiscyllium	*ocellatum*	(BONNATERRE, 1788)	Hemiscylliidae	Orectolobiformes	129
Hemiscyllium	*strahani*	WHITLEY, 1967	Hemiscylliidae	Orectolobiformes	20
Hemiscyllium	*trispeculare*	RICHARDSON, 1843	Hemiscylliidae	Orectolobiformes	38
Eucrossorhinus	*dasypogon*	(BLEEKER, 1867)	Orectolobidae	Orectolobiformes	47

Orectolobus	*floridus*	LAST & CHIDLOW, 2008	Orectolobidae	Orectolobiformes	10
Orectolobus	*halei*	WHITLEY, 1940	Orectolobidae	Orectolobiformes	27
Orectolobus	*hutchinsi*	LAST, CHIDLOW & COMPAGNO, 2006	Orectolobidae	Orectolobiformes	22
Orectolobus	*japonicus*	REGAN, 1906	Orectolobidae	Orectolobiformes	57
Orectolobus	*leptolineatus*	LAST, WHITE & POGONOSKI, 2010	Orectolobidae	Orectolobiformes	11
Orectolobus	*maculatus*	(BONNATERRE, 1788)	Orectolobidae	Orectolobiformes	133
Orectolobus	*ornatus*	(DE VIS, 1883)	Orectolobidae	Orectolobiformes	91
Orectolobus	*parvimaculatus*	LAST & CHIDLOW, 2008	Orectolobidae	Orectolobiformes	14
Orectolobus	*reticulatus*	LAST, POGONOSKI & WHITE, 2008	Orectolobidae	Orectolobiformes	7
Orectolobus	*wardi*	WHITLEY, 1939	Orectolobidae	Orectolobiformes	22
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	24
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	31
Rhincodon	*typus*	SMITH, 1828	Rhincodontidae	Orectolobiformes	718
Stegostoma	*fasciatum*	(HERMANN, 1783)	Stegostomatidae	Orectolobiformes	347
Pliotrema	*warreni*	REGAN, 1906	Pristiophoridae	Pristiophoriformes	49
Pristiophorus	*cirratus*	(LATHAM, 1794)	Pristiophoridae	Pristiophoriformes	78
Pristiophorus	*delicatus*	YEARSLEY, LAST & WHITE, 2008	Pristiophoridae	Pristiophoriformes	8
Pristiophorus	*japonicus*	GÜNTHER, 1870	Pristiophoridae	Pristiophoriformes	65
Pristiophorus	*lanae*	EBERT & WILMS, 2013	Pristiophoridae	Pristiophoriformes	4
Pristiophorus	*nancyae*	EBERT & CAILLIET, 2011	Pristiophoridae	Pristiophoriformes	12
Pristiophorus	*nudipinnis*	GÜNTHER, 1870	Pristiophoridae	Pristiophoriformes	53

Pristiophorus	*schroederi*	SPRINGER & BULLIS, 1960	Pristiophoridae	Pristiophoriformes	20
Centrophorus	*atromarginatus*	GARMAN, 1913	Centrophoridae	Squaliformes	44
Centrophorus	*granulosus*	(BLOCH & SCHNEIDER, 1801)	Centrophoridae	Squaliformes	463
Centrophorus	*harrissoni*	MCCULLOCH, 1915	Centrophoridae	Squaliformes	31
Centrophorus	*isodon*	(CHU, MENG & LIU, 1981)	Centrophoridae	Squaliformes	21
Centrophorus	*lesliei*	WHITE, EBERT & NAYLOR, 2017	Centrophoridae	Squaliformes	2
Centrophorus	*longipinnis*	WHITE, EBERT & NAYLOR, 2017	Centrophoridae	Squaliformes	3
Centrophorus	*moluccensis*	BLEEKER, 1860	Centrophoridae	Squaliformes	102
Centrophorus	*seychellorum*	BARANES, 2003	Centrophoridae	Squaliformes	5
Centrophorus	*squamosus*	(BONNATERRE, 1788)	Centrophoridae	Squaliformes	286
Centrophorus	*tessellatus*	GARMAN, 1906	Centrophoridae	Squaliformes	31
Centrophorus	*uyato*	(RAFINESQUE, 1810)	Centrophoridae	Squaliformes	113
Centrophorus	*westraliensis*	WHITE, EBERT & COMPAGNO, 2008	Centrophoridae	Squaliformes	5
Centrophorus	*zeehaani*	WHITE, EBERT & COMPAGNO, 2008	Centrophoridae	Squaliformes	22
Deania	*calcea*	(LOWE, 1839)	Centrophoridae	Squaliformes	260
Deania	*hystricosa*	(GARMAN, 1906)	Centrophoridae	Squaliformes	45
Deania	*profundorum*	(SMITH & RADCLIFFE, 1912)	Centrophoridae	Squaliformes	108
Deania	*quadrispinosa*	(MCCULLOCH, 1915)	Centrophoridae	Squaliformes	43
Dalatias	*licha*	(BONNATERRE, 1788)	Dalatiidae	Squaliformes	401
Euprotomicroides	*zantedeschia*	HULLEY & PENRITH, 1966	Dalatiidae	Squaliformes	27
Euprotomicrus	*bispinatus*	(QUOY & GAIMARD, 1824)	Dalatiidae	Squaliformes	98
Heteroscymnoides	*marleyi*	FOWLER, 1934	Dalatiidae	Squaliformes	33
Isistius	*brasiliensis*	(QUOY & GAIMARD, 1824)	Dalatiidae	Squaliformes	214
Isistius	*plutodus*	GARRICK & SPRINGER, 1964	Dalatiidae	Squaliformes	48
Mollisquama	*parini*	DOLGANOV, 1984	Dalatiidae	Squaliformes	18
Squaliolus	*aliae*	TENG, 1959	Dalatiidae	Squaliformes	40

Squaliolus	*laticaudus*	SMITH & RADCLIFFE, 1912	Dalatiidae	Squaliformes	84
Aculeola	*nigra*	DE BUEN, 1959	Etmopteridae	Squaliformes	40
Centroscyllium	*excelsum*	SHIRAI & NAKAYA, 1990	Etmopteridae	Squaliformes	10
Centroscyllium	*fabricii*	(REINHARDT, 1825)	Etmopteridae	Squaliformes	149
Centroscyllium	*granulatum*	GÜNTHER, 1887	Etmopteridae	Squaliformes	25
Centroscyllium	*kamoharai*	ABE, 1966	Etmopteridae	Squaliformes	31
Centroscyllium	*nigrum*	GARMAN, 1899	Etmopteridae	Squaliformes	50
Centroscyllium	*ornatum*	(ALCOCK, 1889)	Etmopteridae	Squaliformes	24
Centroscyllium	*ritteri*	JORDAN & FOWLER, 1903	Etmopteridae	Squaliformes	40
Etmopterus	*alphus*	EBERT, STRAUBE, LESLIE & WEIGMANN, 2016	Etmopteridae	Squaliformes	3
Etmopterus	*benchleyi*	VÁSQUEZ, EBERT & LONG, 2015	Etmopteridae	Squaliformes	4
Etmopterus	*bigelowi*	SHIRAI & TACHIKAWA, 1993	Etmopteridae	Squaliformes	45
Etmopterus	*brachyurus*	SMITH & RADCLIFFE, 1912	Etmopteridae	Squaliformes	51
Etmopterus	*bullisi*	BIGELOW & SCHROEDER, 1957	Etmopteridae	Squaliformes	26
Etmopterus	*burgessi*	SCHAAF-DA SILVA & EBERT, 2006	Etmopteridae	Squaliformes	7
Etmopterus	*carteri*	SPRINGER & BURGESS, 1985	Etmopteridae	Squaliformes	13
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	9
Etmopterus	*fusus*	LAST, BURGESS & SÉRET, 2002	Etmopteridae	Squaliformes	12

Etmopterus	*gracilispinis*	KREFFT, 1968	Etmopteridae	Squaliformes	55
Etmopterus	*granulosus*	(GÜNTHER, 1880)	Etmopteridae	Squaliformes	148
Etmopterus	*hillianus*	(POEY, 1861)	Etmopteridae	Squaliformes	46
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	10
Etmopterus	*lucifer*	JORDAN & SNYDER, 1902	Etmopteridae	Squaliformes	144
Etmopterus	*marshae*	EBERT & VAN HEES, 2018	Etmopteridae	Squaliformes	1
Etmopterus	*molleri*	(WHITLEY, 1939)	Etmopteridae	Squaliformes	45
Etmopterus	*perryi*	SPRINGER & BURGESS, 1985	Etmopteridae	Squaliformes	18
Etmopterus	*polli*	BIGELOW, SCHROEDER & SPRINGER, 1953	Etmopteridae	Squaliformes	22
Etmopterus	*princeps*	COLLETT, 1904	Etmopteridae	Squaliformes	100
Etmopterus	*pseudosqualiolus*	LAST, BURGESS & SÉRET, 2002	Etmopteridae	Squaliformes	10
Etmopterus	*pusillus*	(LOWE, 1839)	Etmopteridae	Squaliformes	170
Etmopterus	*pycnolepis*	KOTLYAR, 1990	Etmopteridae	Squaliformes	9
Etmopterus	*robinsi*	SCHOFIELD & BURGESS, 1997	Etmopteridae	Squaliformes	16
Etmopterus	*samadiae*	WHITE, EBERT, MANA & CORRIGAN, 2017	Etmopteridae	Squaliformes	3
Etmopterus	*schmidti*	DOLGANOV, 1986	Etmopteridae	Squaliformes	2
Etmopterus	*schultzi*	BIGELOW, SCHROEDER & SPRINGER, 1953	Etmopteridae	Squaliformes	35
Etmopterus	*sculptus*	EBERT, COMPAGNO & DE VRIES, 2011	Etmopteridae	Squaliformes	7
Etmopterus	*sentosus*	BASS, D'AUBREY & KISTNASAMY, 1976	Etmopteridae	Squaliformes	18
Etmopterus	*sheikoi*	(DOLGANOV, 1986)	Etmopteridae	Squaliformes	23

Etmopterus	*spinax*	(LINNAEUS, 1758)	Etmopteridae	Squaliformes	393
Etmopterus	*splendidus*	YANO, 1988	Etmopteridae	Squaliformes	22
Etmopterus	*tasmaniensis*	MYAGKOV & PAVLOV, 1986	Etmopteridae	Squaliformes	1
Etmopterus	*unicolor*	(ENGELHARDT, 1912)	Etmopteridae	Squaliformes	38
Etmopterus	*viator*	STRAUBE, 2011	Etmopteridae	Squaliformes	8
Etmopterus	*villosus*	GILBERT, 1905	Etmopteridae	Squaliformes	18
Etmopterus	*virens*	BIGELOW, SCHROEDER & SPRINGER, 1953	Etmopteridae	Squaliformes	37
Trigonognathus	*kabeyai*	MOCHIZUKI & OHE, 1990	Etmopteridae	Squaliformes	31
Oxynotus	*bruniensis*	(OGILBY, 1893)	Oxynotidae	Squaliformes	47
Oxynotus	*caribbaeus*	CERVIGÓN, 1961	Oxynotidae	Squaliformes	22
Oxynotus	*centrina*	(LINNAEUS, 1758)	Oxynotidae	Squaliformes	195
Oxynotus	*japonicus*	YANO & MUROFUSHI, 1985	Oxynotidae	Squaliformes	12
Oxynotus	*paradoxus*	FRADE, 1929	Oxynotidae	Squaliformes	45
Centroscymnus	*coelolepis*	BARBOSA DU BOCAGE & DE BRITO CAPELLO, 1864	Somniosidae	Squaliformes	251
Centroscymnus	*owstonii*	GARMAN, 1906	Somniosidae	Squaliformes	147
Centroselachus	*crepidater*	(BARBOSA DU BOCAGE & DE BRITO CAPELLO, 1864)	Somniosidae	Squaliformes	181
Scymnodalatias	*albicauda*	TANIUCHI & GARRICK, 1986	Somniosidae	Squaliformes	25
Scymnodalatias	*garricki*	KUKUEV & KONOVALENKO, 1988	Somniosidae	Squaliformes	19
Scymnodalatias	*oligodon*	KUKUEV & KONOVALENKO, 1988	Somniosidae	Squaliformes	10
Scymnodalatias	*sherwoodi*	(ARCHEY, 1921)	Somniosidae	Squaliformes	24
Scymnodon	*ichiharai*	YANO & TANAKA, 1984	Somniosidae	Squaliformes	22
Scymnodon	*macracanthus*	(REGAN, 1906)	Somniosidae	Squaliformes	30
Scymnodon	*plunketi*	(WAITE, 1910)	Somniosidae	Squaliformes	61
Scymnodon	*ringens*	BARBOSA DU BOCAGE & DE BRITO CAPELLO, 1864	Somniosidae	Squaliformes	77
Somniosus	*antarcticus*	WHITLEY, 1939	Somniosidae	Squaliformes	33

Somniosus	*longus*	(TANAKA, 1912)	Somniosidae	Squaliformes	20
Somniosus	*microcephalus*	(BLOCH & SCHNEIDER, 1801)	Somniosidae	Squaliformes	258
Somniosus	*pacificus*	BIGELOW & SCHROEDER, 1944	Somniosidae	Squaliformes	109
Somniosus	*rostratus*	(RISSO, 1827)	Somniosidae	Squaliformes	88
Zameus	*squamulosus*	(GÜNTHER, 1877)	Somniosidae	Squaliformes	173
Cirrhigaleus	*asper*	(MERRETT, 1973)	Squalidae	Squaliformes	53
Cirrhigaleus	*australis*	WHITE, LAST & STEVENS, 2007	Squalidae	Squaliformes	16
Cirrhigaleus	*barbifer*	TANAKA, 1912	Squalidae	Squaliformes	43
Squalus	*acanthias*	LINNAEUS, 1758	Squalidae	Squaliformes	1499
Squalus	*acutipinnis*	REGAN, 1908	Squalidae	Squaliformes	10
Squalus	*albicaudus*	VIANA, DE CARVALHO & GOMES, 2016	Squalidae	Squaliformes	3
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	4
Squalus	*bassi*	VIANA, DE CARVALHO & EBERT, 2017	Squalidae	Squaliformes	1
Squalus	*blainville*	(RISSO, 1827)	Squalidae	Squaliformes	208
Squalus	*brevirostris*	TANAKA, 1917	Squalidae	Squaliformes	31
Squalus	*bucephalus*	LAST, SÉRET & POGONOSKI, 2007	Squalidae	Squaliformes	5
Squalus	*chloroculus*	LAST, WHITE & MOTOMURA, 2007	Squalidae	Squaliformes	14
Squalus	*clarkae*	PFLEGER, GRUBBS, COTTON & DALY-ENGEL, 2018	Squalidae	Squaliformes	1
Squalus	*crassispinus*	LAST, EDMUNDS & YEARSLEY, 2007	Squalidae	Squaliformes	13
Squalus	*cubensis*	HOWELL RIVERO, 1936	Squalidae	Squaliformes	91
Squalus	*edmundsi*	WHITE, LAST & STEVENS, 2007	Squalidae	Squaliformes	16
Squalus	*formosus*	WHITE & IGLÉSIAS, 2011	Squalidae	Squaliformes	7

Squalus	*grahami*	WHITE, LAST & STEVENS, 2007	Squalidae	Squaliformes	13
Squalus	*griffini*	PHILLIPPS, 1931	Squalidae	Squaliformes	21
Squalus	*hawaiiensis*	DALY-ENGEL, KOCH, ANDERSON, COTTON & GRUBBS, 2018	Squalidae	Squaliformes	1
Squalus	*hemipinnis*	WHITE, LAST & YEARSLEY, 2007	Squalidae	Squaliformes	16
Squalus	*japonicus*	ISHIKAWA, 1908	Squalidae	Squaliformes	41
Squalus	*lalannei*	BARANES, 2003	Squalidae	Squaliformes	5
Squalus	*lobularis*	VIANA, DE CARVALHO & GOMES, 2016	Squalidae	Squaliformes	3
Squalus	*mahia*	VIANA, LISHER & DE CARVALHO, 2017	Squalidae	Squaliformes	2
Squalus	*margaretsmithae*	VIANA, LISHER & DE CARVALHO, 2017	Squalidae	Squaliformes	1
Squalus	*megalops*	(MACLEAY, 1881)	Squalidae	Squaliformes	193
Squalus	*melanurus*	FOURMANOIR, 1979	Squalidae	Squaliformes	33
Squalus	*mitsukurii*	JORDAN & SNYDER, 1903	Squalidae	Squaliformes	167
Squalus	*montalbani*	WHITLEY, 1931	Squalidae	Squaliformes	30
Squalus	*nasutus*	LAST, MARSHALL & WHITE, 2007	Squalidae	Squaliformes	14
Squalus	*notocaudatus*	LAST, WHITE & STEVENS, 2007	Squalidae	Squaliformes	6
Squalus	*probatovi*	MYAGKOV & KONDYURIN, 1986	Squalidae	Squaliformes	3
Squalus	*quasimodo*	VIANA, DE CARVALHO & GOMES, 2016	Squalidae	Squaliformes	3
Squalus	*raoulensis*	DUFFY & LAST, 2007	Squalidae	Squaliformes	8
Squalus	*suckleyi*	(GIRARD, 1855)	Squalidae	Squaliformes	99
Squatina	*aculeata*	CUVIER, 1829	Squatinidae	Squatiniformes	77
Squatina	*africana*	REGAN, 1908	Squatinidae	Squatiniformes	45
Squatina	*albipunctata*	LAST & WHITE, 2008	Squatinidae	Squatiniformes	14
Squatina	*argentina*	(MARINI, 1930)	Squatinidae	Squatiniformes	42
Squatina	*armata*	(PHILIPPI, 1887)	Squatinidae	Squatiniformes	26

Squatina	*australis*	REGAN, 1906	Squatinidae	Squatiniformes	47
Squatina	*caillieti*	WALSH, EBERT & COMPAGNO, 2011	Squatinidae	Squatiniformes	3
Squatina	*californica*	AYRES, 1859	Squatinidae	Squatiniformes	125
Squatina	*david*	ACERO, TAVERA, ANGUILA & HERNÁNDEZ, 2016	Squatinidae	Squatiniformes	3
Squatina	*dumeril*	LESUEUR, 1818	Squatinidae	Squatiniformes	97
Squatina	*formosa*	SHEN & TING, 1972	Squatinidae	Squatiniformes	24
Squatina	*guggenheim*	MARINI, 1936	Squatinidae	Squatiniformes	82
Squatina	*heteroptera*	CASTRO-AGUIRRE, ESPINOSA PÉREZ & HUIDOBRO CAMPOS, 2007	Squatinidae	Squatiniformes	5
Squatina	*japonica*	BLEEKER, 1858	Squatinidae	Squatiniformes	57
Squatina	*legnota*	LAST & WHITE, 2008	Squatinidae	Squatiniformes	8
Squatina	*mexicana*	CASTRO-AGUIRRE, ESPINOSA PÉREZ & HUIDOBRO CAMPOS, 2007	Squatinidae	Squatiniformes	5
Squatina	*nebulosa*	REGAN, 1906	Squatinidae	Squatiniformes	40
Squatina	*occulta*	VOOREN & DA SILVA, 1991	Squatinidae	Squatiniformes	32
Squatina	*oculata*	BONAPARTE, 1840	Squatinidae	Squatiniformes	72
Squatina	*pseudocellata*	LAST & WHITE, 2008	Squatinidae	Squatiniformes	8
Squatina	*squatina*	(LINNAEUS, 1758)	Squatinidae	Squatiniformes	296
Squatina	*tergocellata*	MCCULLOCH, 1914	Squatinidae	Squatiniformes	26
Squatina	*tergocellatoides*	CHEN, 1963	Squatinidae	Squatiniformes	21
Squatina	*varii*	VAZ & DE CARVALHO, 2018	Squatinidae	Squatiniformes	1

3.3.3.2 "Top 20" most studied shark species

Genus	Species	Author	Family	Order	No or records
Squalus	*acanthias*	LINNAEUS, 1758	Squalidae	Squaliformes	1499
Prionace	*glauca*	(LINNAEUS, 1758)	Carcharhinidae	Carcharhiniformes	1274
Carcharodon	*carcharias*	(LINNAEUS, 1758)	Lamnidae	Lamniformes	1237
Scyliorhinus	*canicula*	(LINNAEUS, 1758)	Scyliorhinidae	Carcharhiniformes	1122
Isurus	*oxyrinchus*	RAFINESQUE, 1810	Lamnidae	Lamniformes	1109
Galeocerdo	*cuvier*	(PÉRON & LESUEUR, 1822)	Carcharhinidae	Carcharhiniformes	1003
Sphyrna	*lewini*	(GRIFFITH & SMITH, 1834)	Sphyrnidae	Carcharhiniformes	871
Carcharhinus	*leucas*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	809
Carcharhinus	*limbatus*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	795
Carcharhinus	*plumbeus*	(NARDO, 1827)	Carcharhinidae	Carcharhiniformes	795
Rhincodon	*typus*	SMITH, 1828	Rhincodontidae	Orectolobiformes	718
Sphyrna	*zygaena*	(LINNAEUS, 1758)	Sphyrnidae	Carcharhiniformes	705
Carcharhinus	*falciformis*	(MÜLLER & HENLE, 1839)	Carcharhinidae	Carcharhiniformes	671
Galeorhinus	*galeus*	(LINNAEUS, 1758)	Triakidae	Carcharhiniformes	654
Carcharias	*taurus*	RAFINESQUE, 1810	Odontaspididae	Lamniformes	633
Alopias	*vulpinus*	(BONNATERRE, 1788)	Alopiidae	Lamniformes	627
Hexanchus	*griseus*	(BONNATERRE, 1788)	Hexanchidae	Hexanchiformes	604
Carcharhinus	*obscurus*	(LESUEUR, 1818)	Carcharhinidae	Carcharhiniformes	594
Cetorhinus	*maximus*	(GUNNERUS, 1765)	Cetorhinidae	Lamniformes	576
Negaprion	*brevirostris*	(POEY, 1868)	Carcharhinidae	Carcharhiniformes	575

Order/Family	Number of Species	Number of Records
Carcharhiniformes	**289**	**26849**
Carcharhinidae	55	13624
Hemigaleidae	8	487
Leptochariidae	1	39
Pentanchidae	110	2689
Proscylliidae	6	195
Pseudotriakidae	5	182
Scyliorhinidae	49	2868
Sphyrnidae	9	2859
Triakidae	46	3906
Echinorhiniformes	**2**	**339**
Echinorhinidae	2	339
Heterodontiformes	**9**	**700**
Heterodontidae	9	700
Hexanchiformes	**7**	**1627**
Chlamydoselachidae	2	211
Hexanchidae	5	1416
Lamniformes	**15**	**6494**
Alopiidae	3	1345
Cetorhinidae	1	576
Lamnidae	5	3197
Megachasmidae	1	131
Mitsukurinidae	1	137
Odontaspididae	3	909
Pseudocarchariidae	1	199
Orectolobiformes	**45**	**3542**
Brachaeluridae	2	74
Ginglymostomatidae	4	785
Hemiscylliidae	17	991
Orectolobidae	12	476
Parascylliidae	8	151
Rhincodontidae	1	718
Stegostomatidae	1	347
Pristiophoriformes	**8**	**289**
Pristiophoridae	8	289
Squaliformes	**138**	**9123**
Centrophoridae	17	1584
Dalatiidae	9	963
Etmopteridae	52	2033
Oxynotidae	5	321
Somniosidae	17	1528
Squalidae	38	2694
Squatiniformes	**24**	**1156**
Total:	**537**	**50119**

3.3.3.3 Complete list of taxonomically valid ray and skate species

Genus	Species	Author	Family	Order	No of records
Aetobatus	*flagellum*	(BLOCH & SCHNEIDER, 1801)	Aetobatidae	Myliobatiformes	69
Aetobatus	*laticeps*	(GILL, 1865)	Aetobatidae	Myliobatiformes	16
Aetobatus	*narinari*	(EUPHRASEN, 1790)	Aetobatidae	Myliobatiformes	441
Aetobatus	*narutobiei*	WHITE, FURUMITSU & YAMAGUCHI, 2013	Aetobatidae	Myliobatiformes	6
Aetobatus	*ocellatus*	(KUHL, 1823)	Aetobatidae	Myliobatiformes	99
Bathytoshia	*brevicaudata*	(HUTTON, 1875)	Dasyatidae	Myliobatiformes	132
Bathytoshia	*centroura*	(MITCHILL, 1815)	Dasyatidae	Myliobatiformes	216
Bathytoshia	*lata*	(GARMAN, 1880)	Dasyatidae	Myliobatiformes	124
Brevitrygon	*heterura*	(BLEEKER, 1852)	Dasyatidae	Myliobatiformes	6
Brevitrygon	*imbricata*	(BLOCH & SCHNEIDER, 1801)	Dasyatidae	Myliobatiformes	89
Brevitrygon	*javaensis*	(LAST & WHITE, 2013)	Dasyatidae	Myliobatiformes	5
Brevitrygon	*walga*	(MÜLLER & HENLE, 1841)	Dasyatidae	Myliobatiformes	81
Dasyatis	*chrysonota*	(SMITH, 1828)	Dasyatidae	Myliobatiformes	34
Dasyatis	*gigantea*	(LINDBERG, 1930)	Dasyatidae	Myliobatiformes	11
Dasyatis	*hastata*	(DEKAY, 1842)	Dasyatidae	Myliobatiformes	34
Dasyatis	*hypostigma*	SANTOS & CARVALHO, 2004	Dasyatidae	Myliobatiformes	30
Dasyatis	*marmorata*	(STEINDACHNER, 1892)	Dasyatidae	Myliobatiformes	45
Dasyatis	*pastinaca*	(LINNAEUS, 1758)	Dasyatidae	Myliobatiformes	327
Dasyatis	*tortonesei*	CAPAPÉ, 1975	Dasyatidae	Myliobatiformes	33
Fluvitrygon	*kittipongi*	(VIDTHAYANON & ROBERTS, 2005)	Dasyatidae	Myliobatiformes	15
Fluvitrygon	*oxyrhynchus*	(SAUVAGE, 1878)	Dasyatidae	Myliobatiformes	47
Fluvitrygon	*signifer*	(COMPAGNO & ROBERTS, 1982)	Dasyatidae	Myliobatiformes	52
Fontitrygon	*colarensis*	(SANTOS, GOMES & CHARVET-ALMEIDA, 2004)	Dasyatidae	Myliobatiformes	11
Fontitrygon	*garouaensis*	(STAUCH & BLANC, 1962)	Dasyatidae	Myliobatiformes	25
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	160
Hemitrygon	*bennetti*	(MÜLLER & HENLE, 1841)	Dasyatidae	Myliobatiformes	55
Hemitrygon	*fluviorum*	(OGILBY, 1908)	Dasyatidae	Myliobatiformes	70
Hemitrygon	*izuensis*	(NISHIDA & NAKAYA, 1988)	Dasyatidae	Myliobatiformes	17
Hemitrygon	*laevigata*	CHU, 1960	Dasyatidae	Myliobatiformes	13
Hemitrygon	*laosensis*	(ROBERTS & KARNASUTA, 1987)	Dasyatidae	Myliobatiformes	22
Hemitrygon	*longicauda*	(LAST & WHITE, 2013)	Dasyatidae	Myliobatiformes	7
Hemitrygon	*navarrae*	(STEINDACHNER, 1892)	Dasyatidae	Myliobatiformes	18
Hemitrygon	*parvonigra*	(LAST & WHITE, 2008)	Dasyatidae	Myliobatiformes	12
Hemitrygon	*sinensis*	(STEINDACHNER, 1892)	Dasyatidae	Myliobatiformes	12
Himantura	*australis*	LAST, WHITE & NAYLOR, 2016	Dasyatidae	Myliobatiformes	11
Himantura	*leoparda*	MANJAJI-MATSUMOTO & LAST, 2008	Dasyatidae	Myliobatiformes	39
Himantura	*uarnak*	(FORSSKÅL, 1775)	Dasyatidae	Myliobatiformes	254
Himantura	*undulata*	(BLEEKER, 1852)	Dasyatidae	Myliobatiformes	66
Hypanus	*americanus*	(HILDEBRAND & SCHROEDER, 1928)	Dasyatidae	Myliobatiformes	199
Hypanus	*dipterurus*	(JORDAN & GILBERT, 1880)	Dasyatidae	Myliobatiformes	114
Hypanus	*guttatus*	(BLOCH & SCHNEIDER, 1801)	Dasyatidae	Myliobatiformes	114
Hypanus	*longus*	(GARMAN, 1880)	Dasyatidae	Myliobatiformes	93
Hypanus	*marianae*	(GOMES, ROSA & GADIG, 2000)	Dasyatidae	Myliobatiformes	27
Hypanus	*rudis*	(GÜNTHER, 1870)	Dasyatidae	Myliobatiformes	12
Hypanus	*sabinus*	(LESUEUR, 1824)	Dasyatidae	Myliobatiformes	234
Hypanus	*say*	(LESUEUR, 1817)	Dasyatidae	Myliobatiformes	119
Maculabatis	*ambigua*	LAST, BOGORODSKY & ALPERMANN, 2016	Dasyatidae	Myliobatiformes	6
Maculabatis	*arabica*	MANJAJI-MATSUMOTO & LAST, 2016	Dasyatidae	Myliobatiformes	4
Maculabatis	*astra*	(LAST, MANJAJI-MATSUMOTO & POGONOSKI, 2008)	Dasyatidae	Myliobatiformes	23
Maculabatis	*bineeshi*	MANJAJI-MATSUMOTO & LAST, 2016	Dasyatidae	Myliobatiformes	4

Maculabatis	*gerrardi*	(GRAY, 1851)	Dasyatidae	Myliobatiformes	144
Maculabatis	*macrura*	(BLEEKER, 1852)	Dasyatidae	Myliobatiformes	5
Maculabatis	*pastinacoides*	(BLEEKER, 1852)	Dasyatidae	Myliobatiformes	41
Maculabatis	*randalli*	(LAST, MANJAJI-MATSUMOTO & MOORE, 2012)	Dasyatidae	Myliobatiformes	12
Maculabatis	*toshi*	(WHITLEY, 1939)	Dasyatidae	Myliobatiformes	41
Makararaja	*chindwinensis*	ROBERTS, 2007	Dasyatidae	Myliobatiformes	6
Megatrygon	*microps*	(ANNANDALE, 1908)	Dasyatidae	Myliobatiformes	49
Neotrygon	*annotata*	(LAST, 1987)	Dasyatidae	Myliobatiformes	32
Neotrygon	*australiae*	LAST, WHITE & SÉRET, 2016	Dasyatidae	Myliobatiformes	10
Neotrygon	*bobwardi*	BORSA, ARLYZA, HOAREAU & SHEN, 2017	Dasyatidae	Myliobatiformes	1
Neotrygon	*caeruleopunctata*	LAST, WHITE & SÉRET, 2016	Dasyatidae	Myliobatiformes	12
Neotrygon	*indica*	PAVAN-KUMAR, KUMAR, PITALE, SHEN & BORSA, 2018	Dasyatidae	Myliobatiformes	2
Neotrygon	*kuhlii*	(MÜLLER & HENLE, 1841)	Dasyatidae	Myliobatiformes	247
Neotrygon	*leylandi*	(LAST, 1987)	Dasyatidae	Myliobatiformes	29
Neotrygon	*malaccensis*	BORSA, ARLYZA, HOAREAU & SHEN, 2017	Dasyatidae	Myliobatiformes	1
Neotrygon	*moluccensis*	BORSA, ARLYZA, HOAREAU & SHEN, 2017	Dasyatidae	Myliobatiformes	1
Neotrygon	*ningalooensis*	LAST, WHITE, & PUCKRIDGE, 2010	Dasyatidae	Myliobatiformes	8
Neotrygon	*orientale*	LAST, WHITE & SÉRET, 2016	Dasyatidae	Myliobatiformes	9
Neotrygon	*picta*	LAST & WHITE, 2008	Dasyatidae	Myliobatiformes	18
Neotrygon	*trigonoides*	(CASTELNAU, 1873)	Dasyatidae	Myliobatiformes	12
Neotrygon	*vali*	BORSA, 2017	Dasyatidae	Myliobatiformes	1
Neotrygon	*varidens*	(GARMAN, 1885)	Dasyatidae	Myliobatiformes	8
Neotrygon	*westpapuensis*	BORSA, ARLYZA, HOAREAU & SHEN, 2017	Dasyatidae	Myliobatiformes	3
Pastinachus	*ater*	(MACLEAY, 1883)	Dasyatidae	Myliobatiformes	54
Pastinachus	*gracilicaudus*	LAST & MANJAJI-MATSUMOTO, 2010	Dasyatidae	Myliobatiformes	12
Pastinachus	*sephen*	(FORSSKÅL, 1775)	Dasyatidae	Myliobatiformes	267
Pastinachus	*solocirostris*	LAST, MANJAJI & YEARSLEY, 2005	Dasyatidae	Myliobatiformes	19
Pastinachus	*stellurostris*	LAST, FAHMI & NAYLOR, 2010	Dasyatidae	Myliobatiformes	9

Pateobatis	*bleekeri*	(BLYTH, 1860)	Dasyatidae	Myliobatiformes	51
Pateobatis	*fai*	(JORDAN & SEALE, 1906)	Dasyatidae	Myliobatiformes	115
Pateobatis	*hortlei*	(LAST, MANJAJI-MATSUMOTO & KAILOLA, 2006)	Dasyatidae	Myliobatiformes	14
Pateobatis	*jenkinsii*	(ANNANDALE, 1909)	Dasyatidae	Myliobatiformes	82
Pateobatis	*uarnacoides*	(BLEEKER, 1852)	Dasyatidae	Myliobatiformes	65
Pteroplatytrygon	*violacea*	(BONAPARTE, 1832)	Dasyatidae	Myliobatiformes	278
Taeniura	*lessoni*	LAST, WHITE & NAYLOR, 2016	Dasyatidae	Myliobatiformes	6
Taeniura	*lymma*	(FORSSKÅL, 1775)	Dasyatidae	Myliobatiformes	223
Taeniurops	*grabatus*	(GEOFFROY SAINT-HILAIRE, 1817)	Dasyatidae	Myliobatiformes	61
Taeniurops	*meyeni*	(MÜLLER & HENLE, 1841)	Dasyatidae	Myliobatiformes	159
Telatrygon	*acutirostra*	(NISHIDA & NAKAYA, 1988)	Dasyatidae	Myliobatiformes	27
Telatrygon	*biasa*	LAST, WHITE & NAYLOR, 2016	Dasyatidae	Myliobatiformes	6
Telatrygon	*crozieri*	(BLYTH, 1860)	Dasyatidae	Myliobatiformes	3
Telatrygon	*zugei*	(MÜLLER & HENLE, 1841)	Dasyatidae	Myliobatiformes	118
Urogymnus	*acanthobothrium*	LAST, WHITE & KYNE, 2016	Dasyatidae	Myliobatiformes	5
Urogymnus	*asperrimus*	(BLOCH & SCHNEIDER, 1801)	Dasyatidae	Myliobatiformes	141
Urogymnus	*dalyensis*	(LAST & MANJAJI-MATSUMOTO, 2008)	Dasyatidae	Myliobatiformes	18
Urogymnus	*granulatus*	(MACLEAY, 1883)	Dasyatidae	Myliobatiformes	85
Urogymnus	*lobistoma*	(MANJAJI-MATSUMOTO & LAST, 2006)	Dasyatidae	Myliobatiformes	14
Urogymnus	*polylepis*	(BLEEKER, 1852)	Dasyatidae	Myliobatiformes	53
Gymnura	*altavela*	(LINNAEUS, 1758)	Gymnuridae	Myliobatiformes	195
Gymnura	*australis*	(RAMSAY & OGILBY, 1886)	Gymnuridae	Myliobatiformes	43
Gymnura	*crebripunctata*	(PETERS, 1869)	Gymnuridae	Myliobatiformes	33
Gymnura	*japonica*	(TEMMINCK & SCHLEGEL, 1850)	Gymnuridae	Myliobatiformes	72
Gymnura	*lessae*	YOKOTA & DE CARVALHO, 2017	Gymnuridae	Myliobatiformes	2
Gymnura	*marmorata*	(COOPER, 1864)	Gymnuridae	Myliobatiformes	80
Gymnura	*micrura*	(BLOCH & SCHNEIDER, 1801)	Gymnuridae	Myliobatiformes	154
Gymnura	*natalensis*	(GILCHRIST & THOMPSON, 1911)	Gymnuridae	Myliobatiformes	31
Gymnura	*poecilura*	(SHAW, 1804)	Gymnuridae	Myliobatiformes	94

Gymnura	*sereti*	YOKOTA & DE CARVALHO, 2017	Gymnuridae	Myliobatiformes	1
Gymnura	*tentaculata*	(MÜLLER & HENLE, 1841)	Gymnuridae	Myliobatiformes	26
Gymnura	*zonura*	(BLEEKER, 1852)	Gymnuridae	Myliobatiformes	42
Hexatrygon	*bickelli*	HEEMSTRA & SMITH, 1980	Hexatrygonidae	Myliobatiformes	51
Mobula	*alfredi*	(KREFFT, 1868)	Mobulidae	Myliobatiformes	114
Mobula	*birostris*	(WALBAUM, 1792)	Mobulidae	Myliobatiformes	367
Mobula	*hypostoma*	(BANCROFT, 1831)	Mobulidae	Myliobatiformes	125
Mobula	*kuhlii*	(MÜLLER & HENLE, 1841)	Mobulidae	Myliobatiformes	157
Mobula	*mobular*	(BONNATERRE, 1788)	Mobulidae	Myliobatiformes	363
Mobula	*munkiana*	NOTARBARTOLO DI SCIARA, 1987	Mobulidae	Myliobatiformes	52
Mobula	*tarapacana*	(PHILIPPI, 1892)	Mobulidae	Myliobatiformes	132
Mobula	*thurstoni*	(LLOYD, 1908)	Mobulidae	Myliobatiformes	131
Aetomylaeus	*asperrimus*	(GILBERT, 1898)	Myliobatidae	Myliobatiformes	20
Aetomylaeus	*bovinus*	(GEOFFROY SAINT-HILAIRE, 1817)	Myliobatidae	Myliobatiformes	138
Aetomylaeus	*caeruleofasciatus*	WHITE, LAST & BAJE, 2015	Myliobatidae	Myliobatiformes	6
Aetomylaeus	*maculatus*	(GRAY, 1834)	Myliobatidae	Myliobatiformes	72
Aetomylaeus	*milvus*	(MÜLLER & HENLE, 1841)	Myliobatidae	Myliobatiformes	42
Aetomylaeus	*nichofii*	(BLOCH & SCHNEIDER, 1801)	Myliobatidae	Myliobatiformes	128
Aetomylaeus	*vespertilio*	(BLEEKER, 1852)	Myliobatidae	Myliobatiformes	64
Myliobatis	*aquila*	(LINNAEUS, 1758)	Myliobatidae	Myliobatiformes	272
Myliobatis	*californica*	GILL, 1865	Myliobatidae	Myliobatiformes	146
Myliobatis	*chilensis*	PHILIPPI, 1892	Myliobatidae	Myliobatiformes	26
Myliobatis	*freminvillei*	LESUEUR, 1824	Myliobatidae	Myliobatiformes	103
Myliobatis	*goodei*	GARMAN, 1885	Myliobatidae	Myliobatiformes	82
Myliobatis	*hamlyni*	OGILBY, 1911	Myliobatidae	Myliobatiformes	24
Myliobatis	*longirostris*	APPLEGATE & FITCH, 1964	Myliobatidae	Myliobatiformes	33
Myliobatis	*peruvianus*	GARMAN, 1913	Myliobatidae	Myliobatiformes	20
Myliobatis	*ridens*	RUOCCO, LUCIFORA, DE ASTARLOA, MABRAGAÑA & DELPIANI, 2012	Myliobatidae	Myliobatiformes	14

Myliobatis	*tenuicaudatus*	HECTOR, 1877	Myliobatidae	Myliobatiformes	91
Myliobatis	*tobijei*	BLEEKER, 1854	Myliobatidae	Myliobatiformes	63
Plesiobatis	*daviesi*	(WALLACE, 1967)	Plesiobatididae	Myliobatiformes	77
Styracura	*pacifica*	(BEEBE & TEE-VAN, 1941)	Potamotrygonidae	Myliobatiformes	34
Styracura	*schmardae*	(WERNER, 1904)	Potamotrygonidae	Myliobatiformes	61
Rhinoptera	*bonasus*	(MITCHILL, 1815)	Rhinopteridae	Myliobatiformes	266
Rhinoptera	*brasiliensis*	MÜLLER, 1836	Rhinopteridae	Myliobatiformes	54
Rhinoptera	*javanica*	MÜLLER & HENLE, 1841	Rhinopteridae	Myliobatiformes	133
Rhinoptera	*jayakari*	BOULENGER, 1895	Rhinopteridae	Myliobatiformes	38
Rhinoptera	*marginata*	(GEOFFROY SAINT-HILAIRE, 1817)	Rhinopteridae	Myliobatiformes	60
Rhinoptera	*neglecta*	OGILBY, 1912	Rhinopteridae	Myliobatiformes	35
Rhinoptera	*peli*	BLEEKER, 1863	Rhinopteridae	Myliobatiformes	9
Rhinoptera	*steindachneri*	EVERMANN & JENKINS, 1891	Rhinopteridae	Myliobatiformes	79
Spinilophus	*armatus*	(MÜLLER & HENLE, 1841)	Urolophidae	Myliobatiformes	25
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	62
Urolophus	*aurantiacus*	MÜLLER & HENLE, 1841	Urolophidae	Myliobatiformes	46
Urolophus	*bucculentus*	MACLEAY, 1884	Urolophidae	Myliobatiformes	34
Urolophus	*circularis*	McKAY, 1966	Urolophidae	Myliobatiformes	12
Urolophus	*cruciatus*	(LACEPÈDE, 1804)	Urolophidae	Myliobatiformes	52
Urolophus	*deforgesi*	SÉRET & LAST, 2003	Urolophidae	Myliobatiformes	9
Urolophus	*expansus*	MCCULLOCH, 1916	Urolophidae	Myliobatiformes	25
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	44
Urolophus	*piperatus*	SÉRET & LAST, 2003	Urolophidae	Myliobatiformes	12
Urolophus	*sufflavus*	WHITLEY, 1929	Urolophidae	Myliobatiformes	18
Urolophus	*viridis*	MCCULLOCH, 1916	Urolophidae	Myliobatiformes	26
Urolophus	*westraliensis*	LAST & GOMON, 1987	Urolophidae	Myliobatiformes	14
Urobatis	*concentricus*	OSBURN & NICHOLS, 1916	Urotrygonidae	Myliobatiformes	30
Urobatis	*halleri*	(COOPER, 1863)	Urotrygonidae	Myliobatiformes	184
Urobatis	*jamaicensis*	(CUVIER, 1816)	Urotrygonidae	Myliobatiformes	135
Urobatis	*maculatus*	GARMAN, 1913	Urotrygonidae	Myliobatiformes	31
Urobatis	*marmoratus*	(PHILIPPI, 1892)	Urotrygonidae	Myliobatiformes	11
Urobatis	*pardalis*	DEL MORAL-FLORES, ANGULO, LÓPEZ & BUSSING, 2015	Urotrygonidae	Myliobatiformes	5
Urobatis	*tumbesensis*	(CHIRICHIGNO & McEACHRAN, 1979)	Urotrygonidae	Myliobatiformes	23
Urotrygon	*aspidura*	(JORDAN & GILBERT, 1882)	Urotrygonidae	Myliobatiformes	57
Urotrygon	*chilensis*	(GÜNTHER, 1872)	Urotrygonidae	Myliobatiformes	69
Urotrygon	*cimar*	LÓPEZ & BUSSING, 1998	Urotrygonidae	Myliobatiformes	15
Urotrygon	*microphthalmum*	DELSMAN, 1941	Urotrygonidae	Myliobatiformes	36
Urotrygon	*munda*	GILL, 1863	Urotrygonidae	Myliobatiformes	71
Urotrygon	*nana*	MIYAKE & McEACHRAN, 1988	Urotrygonidae	Myliobatiformes	32
Urotrygon	*reticulata*	MIYAKE & McEACHRAN, 1988	Urotrygonidae	Myliobatiformes	16
Urotrygon	*rogersi*	(JORDAN & STARKS, 1895)	Urotrygonidae	Myliobatiformes	67
Urotrygon	*simulatrix*	MIYAKE & McEACHRAN, 1988	Urotrygonidae	Myliobatiformes	17
Urotrygon	*venezuelae*	SCHULTZ, 1949	Urotrygonidae	Myliobatiformes	34
Anacanthobatis	*marmorata*	(VON BONDE & SWART, 1923)	Anacanthobatidae	Rajiformes	24

Indobatis	*ori*	(WALLACE, 1967)	Anacanthobatidae	Rajiformes	22
Schroederobatis	*americana*	(BIGELOW & SCHROEDER, 1962)	Anacanthobatidae	Rajiformes	26
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	21
Springeria	*longirostris*	BIGELOW & SCHROEDER, 1962	Anacanthobatidae	Rajiformes	20
Arhynchobatis	*asperrimus*	WAITE, 1909	Arhynchobatidae	Rajiformes	22
Atlantoraja	*castelnaui*	(MIRANDA RIBEIRO, 1907)	Arhynchobatidae	Rajiformes	86
Atlantoraja	*cyclophora*	(REGAN, 1903)	Arhynchobatidae	Rajiformes	77
Atlantoraja	*platana*	(GÜNTHER, 1880)	Arhynchobatidae	Rajiformes	52
Bathyraja	*abyssicola*	(GILBERT, 1896)	Arhynchobatidae	Rajiformes	50
Bathyraja	*aguja*	(KENDALL & RADCLIFFE, 1912)	Arhynchobatidae	Rajiformes	16
Bathyraja	*albomaculata*	(NORMAN, 1937)	Arhynchobatidae	Rajiformes	61
Bathyraja	*aleutica*	(GILBERT, 1896)	Arhynchobatidae	Rajiformes	71
Bathyraja	*andriashevi*	DOLGANOV, 1983	Arhynchobatidae	Rajiformes	15
Bathyraja	*bergi*	DOLGANOV, 1983	Arhynchobatidae	Rajiformes	24
Bathyraja	*brachyurops*	(FOWLER, 1910)	Arhynchobatidae	Rajiformes	77
Bathyraja	*cousseauae*	DÍAZ DE ASTARLOA & MABRAGAÑA, 2004	Arhynchobatidae	Rajiformes	22
Bathyraja	*diplotaenia*	(ISHIYAMA, 1952)	Arhynchobatidae	Rajiformes	26
Bathyraja	*eatonii*	(GÜNTHER, 1876)	Arhynchobatidae	Rajiformes	37
Bathyraja	*fedorovi*	DOLGANOV, 1983	Arhynchobatidae	Rajiformes	17
Bathyraja	*griseocauda*	(NORMAN, 1937)	Arhynchobatidae	Rajiformes	48
Bathyraja	*hesperafricana*	STEHMANN, 1995	Arhynchobatidae	Rajiformes	11

Bathyraja	*interrupta*	(GILL & TOWNSEND, 1897)	Arhynchobatidae	Rajiformes	58
Bathyraja	*irrasa*	HUREAU & OZOUF-COSTAZ, 1980	Arhynchobatidae	Rajiformes	15
Bathyraja	*ishiharai*	STEHMANN, 2005	Arhynchobatidae	Rajiformes	8
Bathyraja	*isotrachys*	(GÜNTHER, 1877)	Arhynchobatidae	Rajiformes	38
Bathyraja	*kincaidii*	(GARMAN, 1908)	Arhynchobatidae	Rajiformes	40
Bathyraja	*leucomelanos*	IGLÉSIAS & LÉVY-HARTMANN, 2012	Arhynchobatidae	Rajiformes	4
Bathyraja	*lindbergi*	ISHIYAMA & ISHIHARA, 1977	Arhynchobatidae	Rajiformes	25
Bathyraja	*longicauda*	(DE BUEN, 1959)	Arhynchobatidae	Rajiformes	17
Bathyraja	*maccaini*	SPRINGER, 1971	Arhynchobatidae	Rajiformes	25
Bathyraja	*macloviana*	(NORMAN, 1937)	Arhynchobatidae	Rajiformes	59
Bathyraja	*maculata*	ISHIYAMA & ISHIHARA, 1977	Arhynchobatidae	Rajiformes	36
Bathyraja	*magellanica*	(PHILIPPI, 1902)	Arhynchobatidae	Rajiformes	46
Bathyraja	*mariposa*	STEVENSON, ORR, HOFF & McEACHRAN, 2004	Arhynchobatidae	Rajiformes	16
Bathyraja	*matsubarai*	(ISHIYAMA, 1952)	Arhynchobatidae	Rajiformes	40
Bathyraja	*meridionalis*	STEHMANN, 1987	Arhynchobatidae	Rajiformes	16
Bathyraja	*microtrachys*	(OSBURN & NICHOLS, 1916)	Arhynchobatidae	Rajiformes	17
Bathyraja	*minispinosa*	ISHIYAMA & ISHIHARA, 1977	Arhynchobatidae	Rajiformes	40
Bathyraja	*multispinis*	(NORMAN, 1937)	Arhynchobatidae	Rajiformes	45
Bathyraja	*murrayi*	(GÜNTHER, 1880)	Arhynchobatidae	Rajiformes	19
Bathyraja	*notoroensis*	ISHIYAMA & ISHIHARA, 1977	Arhynchobatidae	Rajiformes	11
Bathyraja	*pacifica*	LAST, STEWART & SÉRET, 2016	Arhynchobatidae	Rajiformes	5
Bathyraja	*pallida*	(FORSTER, 1967)	Arhynchobatidae	Rajiformes	26
Bathyraja	*panthera*	ORR, STEVENSON, HOFF, SPIES & MCEACHRAN, 2011	Arhynchobatidae	Rajiformes	7
Bathyraja	*papilionifera*	STEHMANN, 1985	Arhynchobatidae	Rajiformes	18
Bathyraja	*parmifera*	(BEAN, 1881)	Arhynchobatidae	Rajiformes	80
Bathyraja	*peruana*	McEACHRAN & MIYAKE, 1984	Arhynchobatidae	Rajiformes	20
Bathyraja	*richardsoni*	(GARRICK, 1961)	Arhynchobatidae	Rajiformes	53
Bathyraja	*scaphiops*	(NORMAN, 1937)	Arhynchobatidae	Rajiformes	38

Bathyraja	*schroederi*	(KREFFT, 1968)	Arhynchobatidae	Rajiformes	30
Bathyraja	*shuntovi*	DOLGANOV, 1985	Arhynchobatidae	Rajiformes	15
Bathyraja	*simoterus*	(ISHIYAMA, 1967)	Arhynchobatidae	Rajiformes	11
Bathyraja	*smirnovi*	(SOLDATOV & PAVLENKO, 1915)	Arhynchobatidae	Rajiformes	32
Bathyraja	*smithii*	(MÜLLER & HENLE, 1841)	Arhynchobatidae	Rajiformes	42
Bathyraja	*spinicauda*	(JENSEN, 1914)	Arhynchobatidae	Rajiformes	66
Bathyraja	*spinosissima*	(BEEBE & TEE-VAN, 1941)	Arhynchobatidae	Rajiformes	26
Bathyraja	*taranetzi*	(DOLGANOV, 1983)	Arhynchobatidae	Rajiformes	42
Bathyraja	*trachouros*	(ISHIYAMA, 1958)	Arhynchobatidae	Rajiformes	18
Bathyraja	*trachura*	(GILBERT, 1892)	Arhynchobatidae	Rajiformes	56
Bathyraja	*tunae*	STEHMANN, 2005	Arhynchobatidae	Rajiformes	7
Bathyraja	*tzinovskii*	DOLGANOV, 1983	Arhynchobatidae	Rajiformes	16
Bathyraja	*violacea*	(SUVOROV, 1935)	Arhynchobatidae	Rajiformes	36
Brochiraja	*aenigma*	LAST & McEACHRAN, 2006	Arhynchobatidae	Rajiformes	6
Brochiraja	*albilabiata*	LAST & McEACHRAN, 2006	Arhynchobatidae	Rajiformes	10
Brochiraja	*asperula*	(GARRICK & PAUL, 1974)	Arhynchobatidae	Rajiformes	20
Brochiraja	*heuresa*	LAST & SÉRET, 2012	Arhynchobatidae	Rajiformes	6
Brochiraja	*leviveneta*	LAST & McEACHRAN, 2006	Arhynchobatidae	Rajiformes	10
Brochiraja	*microspinifera*	LAST & McEACHRAN, 2006	Arhynchobatidae	Rajiformes	10
Brochiraja	*spinifera*	(GARRICK & PAUL, 1974)	Arhynchobatidae	Rajiformes	17
Brochiraja	*vittacauda*	LAST & SÉRET, 2012	Arhynchobatidae	Rajiformes	6
Insentiraja	*laxipella*	(YEARSLEY & LAST, 1992)	Arhynchobatidae	Rajiformes	11
Insentiraja	*subtilispinosa*	(STEHMANN, 1989)	Arhynchobatidae	Rajiformes	17
Irolita	*waitii*	(MCCULLOCH, 1911)	Arhynchobatidae	Rajiformes	21
Irolita	*westraliensis*	LAST & GLEDHILL, 2008	Arhynchobatidae	Rajiformes	7
Notoraja	*alisae*	SÉRET & LAST, 2012	Arhynchobatidae	Rajiformes	6
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	5
Notoraja	*ochroderma*	McEACHRAN & LAST, 1994	Arhynchobatidae	Rajiformes	15
Notoraja	*sapphira*	SÉRET & LAST, 2009	Arhynchobatidae	Rajiformes	9
Notoraja	*sereti*	WHITE, LAST & MANA, 2017	Arhynchobatidae	Rajiformes	3
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	31
Pavoraja	*pseudonitida*	LAST, MALLICK & YEARSLEY, 2008	Arhynchobatidae	Rajiformes	7
Pavoraja	*umbrosa*	LAST, MALLICK & YEARSLEY, 2008	Arhynchobatidae	Rajiformes	5
Psammobatis	*bergi*	MARINI, 1932	Arhynchobatidae	Rajiformes	41
Psammobatis	*extenta*	(GARMAN, 1913)	Arhynchobatidae	Rajiformes	58
Psammobatis	*lentiginosa*	McEACHRAN, 1983	Arhynchobatidae	Rajiformes	33
Psammobatis	*normani*	McEACHRAN, 1983	Arhynchobatidae	Rajiformes	32
Psammobatis	*parvacauda*	McEACHRAN, 1983	Arhynchobatidae	Rajiformes	10
Psammobatis	*rudis*	GÜNTHER, 1870	Arhynchobatidae	Rajiformes	46
Psammobatis	*rutrum*	JORDAN, 1891	Arhynchobatidae	Rajiformes	30
Psammobatis	*scobina*	(PHILIPPI, 1857)	Arhynchobatidae	Rajiformes	44
Pseudoraja	*fischeri*	BIGELOW & SCHROEDER, 1954	Arhynchobatidae	Rajiformes	23
Rhinoraja	*kujiensis*	(TANAKA, 1916)	Arhynchobatidae	Rajiformes	23
Rhinoraja	*longicauda*	ISHIYAMA, 1952	Arhynchobatidae	Rajiformes	29
Rhinoraja	*odai*	ISHIYAMA, 1958	Arhynchobatidae	Rajiformes	13
Rioraja	*agassizii*	(MÜLLER & HENLE, 1841)	Arhynchobatidae	Rajiformes	98
Sympterygia	*acuta*	GARMAN, 1877	Arhynchobatidae	Rajiformes	66

Sympterygia	*bonapartii*	MÜLLER & HENLE, 1841	Arhynchobatidae	Rajiformes	102
Sympterygia	*brevicaudata*	(COPE, 1877)	Arhynchobatidae	Rajiformes	49
Sympterygia	*lima*	(POEPPIG, 1835)	Arhynchobatidae	Rajiformes	36
Cruriraja	*andamanica*	(LLOYD, 1909)	Gurgesiellidae	Rajiformes	22
Cruriraja	*atlantis*	BIGELOW & SCHROEDER, 1948	Gurgesiellidae	Rajiformes	12
Cruriraja	*cadenati*	BIGELOW & SCHROEDER, 1962	Gurgesiellidae	Rajiformes	13
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	48
Cruriraja	*poeyi*	BIGELOW & SCHROEDER, 1948	Gurgesiellidae	Rajiformes	22
Cruriraja	*rugosa*	BIGELOW & SCHROEDER, 1958	Gurgesiellidae	Rajiformes	30
Fenestraja	*atripinna*	(BIGELOW & SCHROEDER, 1950)	Gurgesiellidae	Rajiformes	17
Fenestraja	*cubensis*	(BIGELOW & SCHROEDER, 1950)	Gurgesiellidae	Rajiformes	15
Fenestraja	*ishiyamai*	(BIGELOW & SCHROEDER, 1962)	Gurgesiellidae	Rajiformes	20
Fenestraja	*maceachrani*	(SÉRET, 1989)	Gurgesiellidae	Rajiformes	12
Fenestraja	*mamillidens*	(ALCOCK, 1889)	Gurgesiellidae	Rajiformes	20
Fenestraja	*plutonia*	(GARMAN, 1881)	Gurgesiellidae	Rajiformes	36
Fenestraja	*sibogae*	(WEBER, 1913)	Gurgesiellidae	Rajiformes	12
Fenestraja	*sinusmexicanus*	(BIGELOW & SCHROEDER, 1950)	Gurgesiellidae	Rajiformes	25
Gurgesiella	*atlantica*	(BIGELOW & SCHROEDER, 1962)	Gurgesiellidae	Rajiformes	38
Gurgesiella	*dorsalifera*	McEACHRAN & COMPAGNO, 1980	Gurgesiellidae	Rajiformes	26
Gurgesiella	*furvescens*	DE BUEN, 1959	Gurgesiellidae	Rajiformes	26
Heliotrygon	*gomesi*	CARVALHO & LOVEJOY, 2011	Potamotrygonidae	Rajiformes	7
Heliotrygon	*rosai*	CARVALHO & LOVEJOY, 2011	Potamotrygonidae	Rajiformes	8
Paratrygon	*aiereba*	(MÜLLER & HENLE, 1841)	Potamotrygonidae	Rajiformes	98
Plesiotrygon	*iwamae*	ROSA, CASTELLO & THORSON, 1987	Potamotrygonidae	Rajiformes	43
Plesiotrygon	*nana*	CARVALHO & RAGNO, 2011	Potamotrygonidae	Rajiformes	6
Potamotrygon	*adamastor*	FONTENELLE & DE CARVALHO, 2017	Potamotrygonidae	Rajiformes	1
Potamotrygon	*albimaculata*	DE CARVALHO, 2016	Potamotrygonidae	Rajiformes	4

Potamotrygon	*amandae*	LOBODA & DE CARVALHO, 2013	Potamotrygonidae	Rajiformes	10
Potamotrygon	*amazona*	FONTENELLE & DE CARVALHO, 2017	Potamotrygonidae	Rajiformes	1
Potamotrygon	*boesemani*	ROSA, DE CARVALHO & DE ALMEIDA WANDERLEY, 2008	Potamotrygonidae	Rajiformes	8
Potamotrygon	*brachyura*	(GÜNTHER, 1880)	Potamotrygonidae	Rajiformes	30
Potamotrygon	*constellata*	(VAILLANT, 1880)	Potamotrygonidae	Rajiformes	45
Potamotrygon	*falkneri*	CASTEX & MACIEL, 1963	Potamotrygonidae	Rajiformes	90
Potamotrygon	*garmani*	FONTENELLE & DE CARVALHO, 2017	Potamotrygonidae	Rajiformes	1
Potamotrygon	*henlei*	(CASTELNAU, 1855)	Potamotrygonidae	Rajiformes	38
Potamotrygon	*histrix*	(MÜLLER & HENLE, 1841)	Potamotrygonidae	Rajiformes	67
Potamotrygon	*humerosa*	GARMAN, 1913	Potamotrygonidae	Rajiformes	20
Potamotrygon	*jabuti*	DE CARVALHO, 2016	Potamotrygonidae	Rajiformes	4
Potamotrygon	*leopoldi*	CASTEX & CASTELLO, 1970	Potamotrygonidae	Rajiformes	33
Potamotrygon	*limai*	FONTENELLE, DA SILVA & DE CARVALHO, 2014	Potamotrygonidae	Rajiformes	4
Potamotrygon	*magdalenae*	(DUMÉRIL, 1865)	Potamotrygonidae	Rajiformes	56
Potamotrygon	*marinae*	DEYNAT, 2006	Potamotrygonidae	Rajiformes	12
Potamotrygon	*motoro*	(MÜLLER & HENLE, 1841)	Potamotrygonidae	Rajiformes	186
Potamotrygon	*ocellata*	(ENGELHARDT, 1912)	Potamotrygonidae	Rajiformes	16
Potamotrygon	*orbignyi*	(CASTELNAU, 1855)	Potamotrygonidae	Rajiformes	107
Potamotrygon	*pantanensis*	LOBODA & DE CARVALHO, 2013	Potamotrygonidae	Rajiformes	6
Potamotrygon	*rex*	DE CARVALHO, 2016	Potamotrygonidae	Rajiformes	4
Potamotrygon	*schroederi*	FERNÁNDEZ-YÉPEZ, 1958	Potamotrygonidae	Rajiformes	43
Potamotrygon	*schuhmacheri*	CASTEX, 1964	Potamotrygonidae	Rajiformes	15
Potamotrygon	*scobina*	GARMAN, 1913	Potamotrygonidae	Rajiformes	44
Potamotrygon	*signata*	GARMAN, 1913	Potamotrygonidae	Rajiformes	20
Potamotrygon	*tatianae*	SILVA & CARVALHO, 2011	Potamotrygonidae	Rajiformes	8
Potamotrygon	*tigrina*	CARVALHO, SABAJ PEREZ & LOVEJOY, 2011	Potamotrygonidae	Rajiformes	7
Potamotrygon	*wallacei*	DE CARVALHO, ROSA & DE ARAÚJO, 2016	Potamotrygonidae	Rajiformes	9
Potamotrygon	*yepezi*	CASTEX & CASTELLO, 1970	Potamotrygonidae	Rajiformes	31

Amblyraja	*doellojuradoi*	(POZZI, 1935)	Rajidae	Rajiformes	56
Amblyraja	*frerichsi*	(KREFFT, 1968)	Rajidae	Rajiformes	26
Amblyraja	*georgiana*	(NORMAN, 1938)	Rajidae	Rajiformes	38
Amblyraja	*hyperborea*	(COLLETT, 1879)	Rajidae	Rajiformes	138
Amblyraja	*jenseni*	(BIGELOW & SCHROEDER, 1950)	Rajidae	Rajiformes	40
Amblyraja	*radiata*	(DONOVAN, 1808)	Rajidae	Rajiformes	290
Amblyraja	*reversa*	(LLOYD, 1906)	Rajidae	Rajiformes	18
Amblyraja	*taaf*	(MEISSNER, 1987)	Rajidae	Rajiformes	13
Beringraja	*binoculata*	(GIRARD, 1855)	Rajidae	Rajiformes	128
Beringraja	*cortezensis*	(McEACHRAN & MIYAKE, 1988)	Rajidae	Rajiformes	21
Beringraja	*inornata*	(JORDAN & GILBERT, 1881)	Rajidae	Rajiformes	65
Beringraja	*pulchra*	(LIU, 1932)	Rajidae	Rajiformes	44
Beringraja	*rhina*	(JORDAN & GILBERT, 1880)	Rajidae	Rajiformes	119
Beringraja	*stellulata*	(JORDAN & GILBERT, 1880)	Rajidae	Rajiformes	57
Breviraja	*claramaculata*	McEACHRAN & MATHESON, 1985	Rajidae	Rajiformes	15
Breviraja	*colesi*	BIGELOW & SCHROEDER, 1948	Rajidae	Rajiformes	22
Breviraja	*mouldi*	McEACHRAN & MATHESON, 1995	Rajidae	Rajiformes	12
Breviraja	*nigriventralis*	McEACHRAN & MATHESON, 1985	Rajidae	Rajiformes	20
Breviraja	*spinosa*	BIGELOW & SCHROEDER, 1950	Rajidae	Rajiformes	27
Dactylobatus	*armatus*	BEAN & WEED, 1909	Rajidae	Rajiformes	26
Dactylobatus	*clarkii*	(BIGELOW & SCHROEDER, 1958)	Rajidae	Rajiformes	33
Dentiraja	*australis*	(MACLEAY, 1884)	Rajidae	Rajiformes	25
Dentiraja	*cerva*	(WHITLEY, 1939)	Rajidae	Rajiformes	24
Dentiraja	*confusa*	(LAST, 2008)	Rajidae	Rajiformes	9
Dentiraja	*endeavouri*	(LAST, 2008)	Rajidae	Rajiformes	6
Dentiraja	*falloarga*	(LAST, 2008)	Rajidae	Rajiformes	7
Dentiraja	*flindersi*	LAST & GLEDHILL, 2008	Rajidae	Rajiformes	8
Dentiraja	*healdi*	(LAST, WHITE & POGONOSKI, 2008)	Rajidae	Rajiformes	8
Dentiraja	*lemprieri*	(RICHARDSON, 1845)	Rajidae	Rajiformes	42

Dentiraja	*oculata*	(LAST, 2008)	Rajidae	Rajiformes	6
Dentiraja	*polyommata*	(OGILBY, 1910)	Rajidae	Rajiformes	27
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	276
Dipturus	*bullisi*	(BIGELOW & SCHROEDER, 1962)	Rajidae	Rajiformes	24
Dipturus	*campbelli*	(WALLACE, 1967)	Rajidae	Rajiformes	16
Dipturus	*canutus*	LAST, 2008	Rajidae	Rajiformes	7
Dipturus	*chinensis*	(BASILEWSKY, 1855)	Rajidae	Rajiformes	11
Dipturus	*crosnieri*	(SÉRET, 1989)	Rajidae	Rajiformes	13
Dipturus	*doutrei*	(CADENAT, 1960)	Rajidae	Rajiformes	30
Dipturus	*ecuadoriensis*	(BEEBE & TEE-VAN, 1941)	Rajidae	Rajiformes	9
Dipturus	*garricki*	(BIGELOW & SCHROEDER, 1958)	Rajidae	Rajiformes	23
Dipturus	*gigas*	(ISHIYAMA, 1958)	Rajidae	Rajiformes	22
Dipturus	*grahami*	LAST, 2008	Rajidae	Rajiformes	7
Dipturus	*gudgeri*	(WHITLEY, 1940)	Rajidae	Rajiformes	19
Dipturus	*innominatus*	(GARRICK & PAUL, 1974)	Rajidae	Rajiformes	29
Dipturus	*intermedius*	(PARNELL, 1837)	Rajidae	Rajiformes	12
Dipturus	*johannisdavisi*	(ALCOCK, 1899)	Rajidae	Rajiformes	24
Dipturus	*kwangtungensis*	(CHU, 1960)	Rajidae	Rajiformes	34
Dipturus	*laevis*	(MITCHILL, 1818)	Rajidae	Rajiformes	83
Dipturus	*lanceorostratus*	(WALLACE, 1967)	Rajidae	Rajiformes	17
Dipturus	*leptocaudus*	(KREFFT & STEHMANN, 1975)	Rajidae	Rajiformes	19
Dipturus	*macrocaudus*	(ISHIYAMA, 1955)	Rajidae	Rajiformes	24
Dipturus	*melanospilus*	LAST, WHITE & POGONOSKI, 2008	Rajidae	Rajiformes	8
Dipturus	*mennii*	GOMES & PARAGÓ, 2001	Rajidae	Rajiformes	19
Dipturus	*nidarosiensis*	(STORM, 1881)	Rajidae	Rajiformes	55
Dipturus	*olseni*	(BIGELOW & SCHROEDER, 1951)	Rajidae	Rajiformes	27

Dipturus	*oregoni*	(BIGELOW & SCHROEDER, 1958)	Rajidae	Rajiformes	14
Dipturus	*oxyrinchus*	(LINNAEUS, 1758)	Rajidae	Rajiformes	229
Dipturus	*pullopunctatus*	(SMITH, 1964)	Rajidae	Rajiformes	31
Dipturus	*queenslandicus*	LAST, WHITE & POGONOSKI, 2008	Rajidae	Rajiformes	7
Dipturus	*springeri*	(WALLACE, 1967)	Rajidae	Rajiformes	24
Dipturus	*stenorhynchus*	(WALLACE, 1967)	Rajidae	Rajiformes	16
Dipturus	*teevani*	(BIGELOW & SCHROEDER, 1951)	Rajidae	Rajiformes	36
Dipturus	*tengu*	(JORDAN & FOWLER, 1903)	Rajidae	Rajiformes	40
Dipturus	*trachydermus*	(KREFFT & STEHMANN, 1975)	Rajidae	Rajiformes	54
Dipturus	*wengi*	SÉRET & LAST, 2008	Rajidae	Rajiformes	7
Dipturus	*wuhanlingi*	JEONG & NAKABO, 2008	Rajidae	Rajiformes	6
Hongeo	*koreana*	(JEONG & NAKABO, 1997)	Rajidae	Rajiformes	14
Leucoraja	*circularis*	(COUCH, 1838)	Rajidae	Rajiformes	138
Leucoraja	*compagnoi*	(STEHMANN, 1995)	Rajidae	Rajiformes	13
Leucoraja	*erinacea*	(MITCHILL, 1825)	Rajidae	Rajiformes	403
Leucoraja	*fullonica*	(LINNAEUS, 1758)	Rajidae	Rajiformes	168
Leucoraja	*garmani*	(WHITLEY, 1939)	Rajidae	Rajiformes	60
Leucoraja	*lentiginosa*	(BIGELOW & SCHROEDER, 1951)	Rajidae	Rajiformes	25
Leucoraja	*leucosticta*	(STEHMANN, 1971)	Rajidae	Rajiformes	14
Leucoraja	*melitensis*	(CLARK, 1926)	Rajidae	Rajiformes	45
Leucoraja	*naevus*	(MÜLLER & HENLE, 1841)	Rajidae	Rajiformes	201
Leucoraja	*ocellata*	(MITCHILL, 1815)	Rajidae	Rajiformes	157
Leucoraja	*pristispina*	LAST, STEHMANN & SÉRET, 2008	Rajidae	Rajiformes	6
Leucoraja	*wallacei*	(HULLEY, 1970)	Rajidae	Rajiformes	33
Leucoraja	*yucatanensis*	(BIGELOW & SCHROEDER, 1950)	Rajidae	Rajiformes	21
Malacoraja	*kreffti*	(STEHMANN, 1977)	Rajidae	Rajiformes	17
Malacoraja	*obscura*	DE CARVALHO, GOMES & GADIG, 2005	Rajidae	Rajiformes	10
Malacoraja	*senta*	(GARMAN, 1885)	Rajidae	Rajiformes	74
Malacoraja	*spinacidermis*	(BARNARD, 1923)	Rajidae	Rajiformes	55

Neoraja	*africana*	(STEHMANN & SÉRET, 1983)	Rajidae	Rajiformes	14
Neoraja	*caerulea*	(STEHMANN, 1976)	Rajidae	Rajiformes	25
Neoraja	*carolinensis*	McEACHRAN & STEHMANN, 1984	Rajidae	Rajiformes	13
Neoraja	*iberica*	STEHMANN, SÉRET, COSTA & BARO, 2008	Rajidae	Rajiformes	14
Neoraja	*stehmanni*	(HULLEY, 1972)	Rajidae	Rajiformes	24
Okamejei	*acutispina*	(ISHIYAMA, 1958)	Rajidae	Rajiformes	25
Okamejei	*arafurensis*	LAST & GLEDHILL, 2008	Rajidae	Rajiformes	8
Okamejei	*boesemani*	(ISHIHARA, 1987)	Rajidae	Rajiformes	22
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	147
Okamejei	*leptoura*	LAST & GLEDHILL, 2008	Rajidae	Rajiformes	6
Okamejei	*meerdervoortii*	(BLEEKER, 1860)	Rajidae	Rajiformes	38
Okamejei	*mengae*	JEONG, NAKABO & WU, 2007	Rajidae	Rajiformes	5
Okamejei	*ornata*	WEIGMANN, STEHMANN & THIEL, 2015	Rajidae	Rajiformes	6
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	25
Raja	*africana*	CAPAPÉ, 1977	Rajidae	Rajiformes	16
Raja	*asterias*	DELAROCHE, 1809	Rajidae	Rajiformes	184
Raja	*brachyura*	LAFONT, 1873	Rajidae	Rajiformes	176
Raja	*clavata*	LINNAEUS, 1758	Rajidae	Rajiformes	663
Raja	*herwigi*	KREFFT, 1965	Rajidae	Rajiformes	13
Raja	*maderensis*	LOWE, 1838	Rajidae	Rajiformes	32
Raja	*microocellata*	MONTAGU, 1818	Rajidae	Rajiformes	114
Raja	*miraletus*	LINNAEUS, 1758	Rajidae	Rajiformes	248
Raja	*montagui*	FOWLER, 1910	Rajidae	Rajiformes	238
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	80
Raja	*radula*	DELAROCHE, 1809	Rajidae	Rajiformes	116
Raja	*straeleni*	POLL, 1951	Rajidae	Rajiformes	51
Raja	*undulata*	LACEPÈDE, 1802	Rajidae	Rajiformes	152
Rajella	*annandalei*	(WEBER, 1913)	Rajidae	Rajiformes	11
Rajella	*barnardi*	(NORMAN, 1935)	Rajidae	Rajiformes	39
Rajella	*bathyphila*	(HOLT & BYRNE, 1908)	Rajidae	Rajiformes	40
Rajella	*bigelowi*	(STEHMANN, 1978)	Rajidae	Rajiformes	49
Rajella	*caudaspinosa*	(VON BONDE & SWART, 1923)	Rajidae	Rajiformes	33
Rajella	*challengeri*	LAST & STEHMANN, 2008	Rajidae	Rajiformes	5
Rajella	*dissimilis*	(HULLEY, 1970)	Rajidae	Rajiformes	27
Rajella	*eisenhardti*	LONG & McCOSKER, 1999	Rajidae	Rajiformes	9
Rajella	*fuliginea*	(BIGELOW & SCHROEDER, 1954)	Rajidae	Rajiformes	23
Rajella	*fyllae*	(LÜTKEN, 1887)	Rajidae	Rajiformes	85
Rajella	*kukujevi*	(DOLGANOV, 1985)	Rajidae	Rajiformes	24
Rajella	*leoparda*	(VON BONDE & SWART, 1923)	Rajidae	Rajiformes	41
Rajella	*lintea*	(FRIES, 1838)	Rajidae	Rajiformes	69
Rajella	*nigerrima*	(DE BUEN, 1960)	Rajidae	Rajiformes	18
Rajella	*paucispinosa*	WEIGMANN, STEHMANN & THIEL, 2014	Rajidae	Rajiformes	6
Rajella	*purpuriventralis*	(BIGELOW & SCHROEDER, 1962)	Rajidae	Rajiformes	26
Rajella	*ravidula*	(HULLEY, 1970)	Rajidae	Rajiformes	26
Rajella	*sadowskii*	(KREFFT & STEHMANN, 1974)	Rajidae	Rajiformes	30
Rostroraja	*ackleyi*	GARMAN, 1881	Rajidae	Rajiformes	29
Rostroraja	*alba*	(LACÉPÈDE, 1803)	Rajidae	Rajiformes	181
Rostroraja	*bahamensis*	(BIGELOW & SCHROEDER, 1965)	Rajidae	Rajiformes	11
Rostroraja	*cervigoni*	(BIGELOW & SCHROEDER, 1964)	Rajidae	Rajiformes	21
Rostroraja	*eglanteria*	(LACEPÈDE (ex BOSC), 1800)	Rajidae	Rajiformes	210

Rostroraja	*equatorialis*	(JORDAN & BOLLMAN, 1890)	Rajidae	Rajiformes	32
Rostroraja	*texana*	(CHANDLER, 1921)	Rajidae	Rajiformes	35
Rostroraja	*velezi*	(CHIRICHIGNO, 1973)	Rajidae	Rajiformes	52
Spiniraja	*whitleyi*	(IREDALE, 1938)	Rajidae	Rajiformes	42
Zearaja	*argentinensis*	(DÍAZ DE ASTARLOA, MABRAGAÑA, HANNER & FIGUEROA, 2008)	Rajidae	Rajiformes	8
Zearaja	*brevicaudata*	(MARINI, 1933)	Rajidae	Rajiformes	2
Zearaja	*chilensis*	(GUICHENOT, 1848)	Rajidae	Rajiformes	133
Zearaja	*maugeana*	LAST & GLEDHILL, 2007	Rajidae	Rajiformes	11
Zearaja	*nasuta*	(MÜLLER & HENLE, 1841)	Rajidae	Rajiformes	55
Glaucostegus	*cemiculus*	(GEOFFROY SAINT-HILAIRE, 1817)	Glaucostegidae	Rhinopristiformes	95
Glaucostegus	*granulatus*	(CUVIER, 1829)	Glaucostegidae	Rhinopristiformes	120
Glaucostegus	*halavi*	(FORSSKÅL, 1775)	Glaucostegidae	Rhinopristiformes	70
Glaucostegus	*obtusus*	MÜLLER & HENLE, 1841	Glaucostegidae	Rhinopristiformes	36
Glaucostegus	*thouin*	(ANONYMOUS, 1798)	Glaucostegidae	Rhinopristiformes	65
Glaucostegus	*typus*	(BENNETT, 1830)	Glaucostegidae	Rhinopristiformes	168
Platyrhina	*hyugaensis*	IWATSUKI, MIYAMOTO & NAKAYA, 2011	Platyrhinidae	Rhinopristiformes	5
Platyrhina	*psomadakisi*	WHITE & LAST, 2016	Platyrhinidae	Rhinopristiformes	4
Platyrhina	*sinensis*	(BLOCH & SCHNEIDER, 1801)	Platyrhinidae	Rhinopristiformes	62
Platyrhina	*tangi*	IWATSUKI, ZHANG & NAKAYA, 2011	Platyrhinidae	Rhinopristiformes	11
Platyrhinoidis	*triseriata*	(JORDAN & GILBERT, 1880)	Platyrhinidae	Rhinopristiformes	91
Anoxypristis	*cuspidata*	(LATHAM, 1794)	Pristidae	Rhinopristiformes	169
Pristis	*clavata*	GARMAN, 1906	Pristidae	Rhinopristiformes	83
Pristis	*pectinata*	LATHAM, 1794	Pristidae	Rhinopristiformes	278
Pristis	*pristis*	(LINNAEUS, 1758)	Pristidae	Rhinopristiformes	444
Pristis	*zijsron*	BLEEKER, 1851	Pristidae	Rhinopristiformes	169
Rhina	*ancylostoma*	BLOCH & SCHNEIDER, 1801	Rhinidae	Rhinopristiformes	166
Rhynchobatus	*australiae*	WHITLEY, 1939	Rhinidae	Rhinopristiformes	66
Rhynchobatus	*cooki*	LAST, KYNE & COMPAGNO, 2016	Rhinidae	Rhinopristiformes	4
Rhynchobatus	*djiddensis*	(FORSSKÅL, 1775)	Rhinidae	Rhinopristiformes	214

Rhynchobatus	*immaculatus*	LAST, HO & CHEN, 2013	Rhinidae	Rhinopristiformes	7
Rhynchobatus	*laevis*	(BLOCH & SCHNEIDER, 1801)	Rhinidae	Rhinopristiformes	52
Rhynchobatus	*luebberti*	EHRENBAUM, 1915	Rhinidae	Rhinopristiformes	19
Rhynchobatus	*palpebratus*	COMPAGNO & LAST, 2008	Rhinidae	Rhinopristiformes	16
Rhynchobatus	*springeri*	COMPAGNO & LAST, 2010	Rhinidae	Rhinopristiformes	9
Rhynchorhina	*mauritaniensis*	SÉRET & NAYLOR, 2016	Rhinidae	Rhinopristiformes	4
Acroteriobatus	*annulatus*	MÜLLER & HENLE, 1841	Rhinobatidae	Rhinopristiformes	56
Acroteriobatus	*blochii*	(MÜLLER & HENLE, 1841)	Rhinobatidae	Rhinopristiformes	37
Acroteriobatus	*leucospilus*	(NORMAN, 1926)	Rhinobatidae	Rhinopristiformes	20
Acroteriobatus	*ocellatus*	(NORMAN, 1926)	Rhinobatidae	Rhinopristiformes	14
Acroteriobatus	*omanensis*	LAST, HENDERSON & NAYLOR, 2016	Rhinobatidae	Rhinopristiformes	6
Acroteriobatus	*salalah*	RANDALL & COMPAGNO, 1995	Rhinobatidae	Rhinopristiformes	18
Acroteriobatus	*variegatus*	(NAIR & LAL MOHAN, 1973)	Rhinobatidae	Rhinopristiformes	16
Acroteriobatus	*zanzibarensis*	(NORMAN, 1926)	Rhinobatidae	Rhinopristiformes	10
Pseudobatos	*glaucostigmus*	(JORDAN & GILBERT, 1883)	Rhinobatidae	Rhinopristiformes	44
Pseudobatos	*horkelii*	(MÜLLER & HENLE, 1841)	Rhinobatidae	Rhinopristiformes	67
Pseudobatos	*lentiginosus*	(GARMAN, 1880)	Rhinobatidae	Rhinopristiformes	70
Pseudobatos	*leucorhynchus*	(GÜNTHER, 1866)	Rhinobatidae	Rhinopristiformes	64
Pseudobatos	*percellens*	(WALBAUM, 1792)	Rhinobatidae	Rhinopristiformes	89
Pseudobatos	*planiceps*	(GARMAN, 1880)	Rhinobatidae	Rhinopristiformes	47
Pseudobatos	*prahli*	(ACERO & FRANKE, 1995)	Rhinobatidae	Rhinopristiformes	26
Pseudobatos	*productus*	(AYRES, 1854)	Rhinobatidae	Rhinopristiformes	127
Rhinobatos	*albomaculatus*	NORMAN, 1930	Rhinobatidae	Rhinopristiformes	17
Rhinobatos	*annandalei*	NORMAN, 1926	Rhinobatidae	Rhinopristiformes	27
Rhinobatos	*austini*	EBERT & GON, 2017	Rhinobatidae	Rhinopristiformes	2
Rhinobatos	*borneensis*	LAST, SÉRET & NAYLOR, 2016	Rhinobatidae	Rhinopristiformes	5
Rhinobatos	*holcorhynchus*	NORMAN, 1922	Rhinobatidae	Rhinopristiformes	21
Rhinobatos	*hynnicephalus*	RICHARDSON, 1846	Rhinobatidae	Rhinopristiformes	44
Rhinobatos	*irvinei*	NORMAN, 1931	Rhinobatidae	Rhinopristiformes	15

Rhinobatos	*jimbaranensis*	LAST, WHITE & FAHMI, 2006	Rhinobatidae	Rhinopristiformes	9
Rhinobatos	*lionotus*	NORMAN, 1926	Rhinobatidae	Rhinopristiformes	16
Rhinobatos	*manai*	WHITE, LAST & NAYLOR, 2016	Rhinobatidae	Rhinopristiformes	4
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	33
Rhinobatos	*rhinobatos*	(LINNAEUS, 1758)	Rhinobatidae	Rhinopristiformes	123
Rhinobatos	*sainsburyi*	LAST, 2004	Rhinobatidae	Rhinopristiformes	9
Rhinobatos	*schlegelii*	(MÜLLER & HENLE, 1841)	Rhinobatidae	Rhinopristiformes	91
Rhinobatos	*whitei*	LAST, CORRIGAN & NAYLOR, 2014	Rhinobatidae	Rhinopristiformes	5
Aptychotrema	*rostrata*	(SHAW, 1794)	Trygonorrhinidae	Rhinopristiformes	108
Aptychotrema	*timorensis*	LAST, 2004	Trygonorrhinidae	Rhinopristiformes	9
Aptychotrema	*vincentiana*	(HAACKE, 1885)	Trygonorrhinidae	Rhinopristiformes	31
Trygonorrhina	*dumerilii*	(CASTELNAU, 1873)	Trygonorrhinidae	Rhinopristiformes	38
Trygonorrhina	*fasciata*	MÜLLER & HENLE, 1841	Trygonorrhinidae	Rhinopristiformes	74
Zapteryx	*brevirostris*	(MÜLLER & HENLE, 1841)	Trygonorrhinidae	Rhinopristiformes	89
Zapteryx	*exasperata*	(JORDAN & GILBERT, 1880)	Trygonorrhinidae	Rhinopristiformes	73
Zapteryx	*xyster*	JORDAN & EVERMANN, 1896	Trygonorrhinidae	Rhinopristiformes	46
Zanobatus	*maculatus*	SÉRET, 2016	Zanobatidae	Rhinopristiformes	3
Zanobatus	*schoenleinii*	(MÜLLER & HENLE, 1841)	Zanobatidae	Rhinopristiformes	49
Hypnos	*monopterygius*	(SHAW, 1795)	Hypnidae	Torpediniformes	53
Benthobatis	*kreffti*	RINCON, STEHMANN & VOOREN, 2001	Narcinidae	Torpediniformes	14
Benthobatis	*marcida*	BEAN & WEED, 1909	Narcinidae	Torpediniformes	25
Benthobatis	*moresbyi*	ALCOCK, 1898	Narcinidae	Torpediniformes	29
Benthobatis	*yangi*	CARVALHO, COMPAGNO & EBERT, 2003	Narcinidae	Torpediniformes	10
Diplobatis	*colombiensis*	FECHHELM & McEACHRAN, 1984	Narcinidae	Torpediniformes	16
Diplobatis	*guamachensis*	MARTÍN SALAZAR, 1957	Narcinidae	Torpediniformes	16
Diplobatis	*ommata*	(JORDAN & GILBERT, 1890)	Narcinidae	Torpediniformes	44
Diplobatis	*picta*	PALMER, 1950	Narcinidae	Torpediniformes	28

Discopyge	*castelloi*	MENNI, RINCON & GARCIA, 2008	Narcinidae	Torpediniformes	4
Discopyge	*tschudii*	HECKEL, 1846	Narcinidae	Torpediniformes	88
Narcine	*atzi*	CARVALHO & RANDALL, 2003	Narcinidae	Torpediniformes	6
Narcine	*baliensis*	DE CARVALHO & WHITE, 2016	Narcinidae	Torpediniformes	3
Narcine	*bancroftii*	(GRIFFITH & SMITH, 1834)	Narcinidae	Torpediniformes	37
Narcine	*brasiliensis*	(OLFERS, 1831)	Narcinidae	Torpediniformes	149
Narcine	*brevilabiata*	BESSEDNOV, 1966	Narcinidae	Torpediniformes	12
Narcine	*brunnea*	ANNANDALE, 1909	Narcinidae	Torpediniformes	21
Narcine	*entemedor*	JORDAN & STARKS, 1895	Narcinidae	Torpediniformes	66
Narcine	*insolita*	CARVALHO, SÉRET & COMPAGNO, 2002	Narcinidae	Torpediniformes	6
Narcine	*leoparda*	CARVALHO, 2001	Narcinidae	Torpediniformes	19
Narcine	*lingula*	RICHARDSON, 1846	Narcinidae	Torpediniformes	21
Narcine	*maculata*	(SHAW, 1804)	Narcinidae	Torpediniformes	48
Narcine	*nigra*	DUMÉRIL, 1852	Narcinidae	Torpediniformes	6
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	85
Narcine	*vermiculata*	BREDER, 1928	Narcinidae	Torpediniformes	32
Narcinops	*lasti*	(CARVALHO & SÉRET, 2002)	Narcinidae	Torpediniformes	11
Narcinops	*nelsoni*	(CARVALHO, 2008)	Narcinidae	Torpediniformes	9
Narcinops	*ornata*	(CARVALHO, 2008)	Narcinidae	Torpediniformes	6
Narcinops	*tasmaniensis*	(RICHARDSON, 1841)	Narcinidae	Torpediniformes	32
Narcinops	*westraliensis*	(MCKAY, 1966)	Narcinidae	Torpediniformes	13
Electrolux	*addisoni*	COMPAGNO & HEEMSTRA, 2007	Narkidae	Torpediniformes	6
Heteronarce	*bentuviai*	(BARANES & RANDALL, 1989)	Narkidae	Torpediniformes	13
Heteronarce	*garmani*	REGAN, 1921	Narkidae	Torpediniformes	27
Heteronarce	*mollis*	(LLOYD, 1907)	Narkidae	Torpediniformes	22
Narke	*capensis*	(GMELIN, 1789)	Narkidae	Torpediniformes	40

Narke	*dipterygia*	(BLOCH & SCHNEIDER, 1801)	Narkidae	Torpediniformes	57
Narke	*japonica*	(TEMMINCK & SCHLEGEL, 1850)	Narkidae	Torpediniformes	87
Temera	*hardwickii*	GRAY, 1831	Narkidae	Torpediniformes	31
Typhlonarke	*aysoni*	(HAMILTON, 1902)	Narkidae	Torpediniformes	41
Tetranarce	*occidentalis*	(STORER, 1843)	Torpedinidae	Torpediniformes	25
Tetronarce	*californica*	(AYRES, 1855)	Torpedinidae	Torpediniformes	121
Tetronarce	*cowleyi*	EBERT, HAAS & DE CARVALHO, 2015	Torpedinidae	Torpediniformes	7
Tetronarce	*formosa*	(HAAS & EBERT, 2006)	Torpedinidae	Torpediniformes	10
Tetronarce	*nobiliana*	(BONAPARTE, 1835)	Torpedinidae	Torpediniformes	229
Tetronarce	*puelcha*	(LAHILLE, 1926)	Torpedinidae	Torpediniformes	24
Tetronarce	*tokionis*	(TANAKA, 1908)	Torpedinidae	Torpediniformes	30
Tetronarce	*tremens*	(DE BUEN, 1959)	Torpedinidae	Torpediniformes	66
Torpedo	*adenensis*	CARVALHO, STEHMANN & MANILO, 2002	Torpedinidae	Torpediniformes	8
Torpedo	*alexandrinsis*	MAZHAR, 1987	Torpedinidae	Torpediniformes	4
Torpedo	*andersoni*	BULLIS, 1962	Torpedinidae	Torpediniformes	19
Torpedo	*bauchotae*	CADENAT, CAPAPÉ & DESOUTTER, 1978	Torpedinidae	Torpediniformes	10
Torpedo	*fuscomaculata*	PETERS, 1855	Torpedinidae	Torpediniformes	43
Torpedo	*mackayana*	METZELAAR, 1919	Torpedinidae	Torpediniformes	11
Torpedo	*marmorata*	RISSO, 1810	Torpedinidae	Torpediniformes	352
Torpedo	*panthera*	OLFERS, 1831	Torpedinidae	Torpediniformes	35
Torpedo	*sinuspersici*	OLFERS, 1831	Torpedinidae	Torpediniformes	69
Torpedo	*suessii*	STEINDACHNER, 1898	Torpedinidae	Torpediniformes	10
Torpedo	*torpedo*	(LINNAEUS, 1758)	Torpedinidae	Torpediniformes	213

3.3.3.4 "Top 20" most studied ray and skate species

Genus	Species	Author	Family	Order	No or records
Raja	*clavata*	LINNAEUS, 1758	Rajidae	Rajiformes	663
Pristis	*pristis*	(LINNAEUS, 1758)	Pristidae	Rhinopristiformes	444
Aetobatus	*narinari*	(EUPHRASEN, 1790)	Aetobatidae	Myliobatiformes	441
Leucoraja	*erinacea*	(MITCHILL, 1825)	Rajidae	Rajiformes	403
Mobula	*birostris*	(WALBAUM, 1792)	Mobulidae	Myliobatiformes	367
Mobula	*mobular*	(BONNATERRE, 1788)	Mobulidae	Myliobatiformes	363
Torpedo	*marmorata*	RISSO, 1810	Torpedinidae	Torpediniformes	352
Dasyatis	*pastinaca*	(LINNAEUS, 1758)	Dasyatidae	Myliobatiformes	327
Amblyraja	*radiata*	(DONOVAN, 1808)	Rajidae	Rajiformes	290
Pteroplatytrygon	*violacea*	(BONAPARTE, 1832)	Dasyatidae	Myliobatiformes	278
Pristis	*pectinata*	LATHAM, 1794	Pristidae	Rhinopristiformes	278
Dipturus	*batis*	(LINNAEUS, 1758)	Rajidae	Rajiformes	276
Myliobatis	*aquila*	(LINNAEUS, 1758)	Myliobatidae	Myliobatiformes	272
Pastinachus	*sephen*	(FORSSKÅL, 1775)	Dasyatidae	Myliobatiformes	267
Rhinoptera	*bonasus*	(MITCHILL, 1815)	Rhinopteridae	Myliobatiformes	266
Himantura	*uarnak*	(FORSSKÅL, 1775)	Dasyatidae	Myliobatiformes	254
Raja	*miraletus*	LINNAEUS, 1758	Rajidae	Rajiformes	248
Neotrygon	*kuhlii*	(MÜLLER & HENLE, 1841)	Dasyatidae	Myliobatiformes	247
Raja	*montagui*	FOWLER, 1910	Rajidae	Rajiformes	238
Hypanus	*sabinus*	(LESUEUR, 1824)	Dasyatidae	Myliobatiformes	234

Order/Family	Number of Species	No of records
Myliobatiformes	**197**	**197**
Aetobatidae	5	5
Dasyatidae	97	97
Gymnuridae	12	12
Hexatrygonidae	1	1
Mobulidae	8	8
Myliobatidae	18	18
Plesiobatididae	1	1
Potamotrygonidae	2	2
Rhinopteridae	8	8
Urolophidae	28	28
Urotrygonidae	17	17
Rajiformes	**329**	**329**
Anacanthobatidae	14	14
Arhynchobatidae	106	106
Gurgesiellidae	19	19
Potamotrygonidae	35	35
Rajidae	155	155
Rhinopristiformes	**69**	**69**
Glaucostegidae	6	6
Platyrhinidae	5	5
Pristidae	5	5
Rhinidae	10	10
Rhinobatidae	33	33
Trygonorrhinidae	8	8
Zanobatidae	2	2
Torpediniformes	**61**	**61**
Hypnidae	1	1
Narcinidae	32	32
Narkidae	9	9
Total:	**656**	**656**

3.3.3.5 Complete list of taxonomically valid chimaeriform species

Genus	Species	Author	Family	No of records
Callorhinchus	*callorynchus*	(LINNAEUS, 1758)	Callorhinchidae	114
Callorhinchus	*capensis*	DUMÉRIL, 1865	Callorhinchidae	45
Callorhinchus	*milii*	BORY DE SAINT-VINCENT, 1823	Callorhinchidae	164
Chimaera	*argiloba*	LAST, WHITE & POGONOSKI, 2008	Chimaeridae	4
Chimaera	*bahamaensis*	KEMPER, EBERT, DIDIER & COMPAGNO, 2010	Chimaeridae	4
Chimaera	*buccanigella*	CLERKIN, EBERT & KEMPER, 2017	Chimaeridae	1
Chimaera	*carophila*	KEMPER, EBERT, NAYLOR & DIDIER, 2015	Chimaeridae	6
Chimaera	*cubana*	HOWELL RIVERO, 1936	Chimaeridae	17
Chimaera	*didierae*	CLERKIN, EBERT & KEMPER, 2017	Chimaeridae	1
Chimaera	*fulva*	DIDIER, LAST & WHITE, 2008	Chimaeridae	7
Chimaera	*jordani*	TANAKA, 1905	Chimaeridae	10
Chimaera	*lignaria*	DIDIER, 2002	Chimaeridae	21
Chimaera	*macrospina*	DIDIER, LAST & WHITE, 2008	Chimaeridae	5
Chimaera	*monstrosa*	LINNAEUS, 1758	Chimaeridae	297
Chimaera	*notafricana*	KEMPER, EBERT, COMPAGNO & DIDIER, 2010	Chimaeridae	8
Chimaera	*obscura*	DIDIER, LAST & WHITE, 2008	Chimaeridae	4
Chimaera	*ogilbyi*	WAITE, 1898	Chimaeridae	59
Chimaera	*opalescens*	LUCHETTI, IGLÉSIAS & SELLOS, 2011	Chimaeridae	10
Chimaera	*orientalis*	ANGULO, LÓPEZ, BUSSING & MURASE, 2014	Chimaeridae	6
Chimaera	*owstoni*	TANAKA, 1905	Chimaeridae	10
Chimaera	*panthera*	DIDIER, 1998	Chimaeridae	10
Chimaera	*phantasma*	JORDAN & SNYDER, 1900	Chimaeridae	58
Chimaera	*willwatchi*	CLERKIN, EBERT & KEMPER, 2017	Chimaeridae	1
Hydrolagus	*affinis*	(DE BRITO CAPELLO, 1868)	Chimaeridae	77
Hydrolagus	*africanus*	(GILCHRIST, 1922)	Chimaeridae	26
Hydrolagus	*alberti*	BIGELOW & SCHROEDER, 1951	Chimaeridae	25

Hydrolagus	*alphus*	QUARANTA, DIDIER, LONG & EBERT, 2006	Chimaeridae	5
Hydrolagus	*barbouri*	(GARMAN, 1908)	Chimaeridae	26
Hydrolagus	*bemisi*	DIDIER, 2002	Chimaeridae	18
Hydrolagus	*colliei*	(LAY & BENNETT, 1839)	Chimaeridae	187
Hydrolagus	*deani*	(SMITH & RADCLIFFE, 1912)	Chimaeridae	3
Hydrolagus	*eidolon*	(JORDAN & HUBBS, 1925)	Chimaeridae	3
Hydrolagus	*erithacus*	WALOVICH, EBERT & KEMPER, 2017	Chimaeridae	1
Hydrolagus	*homonycteris*	DIDIER, 2008	Chimaeridae	10
Hydrolagus	*lusitanicus*	MOURA, FIGUEIREDO, BORDALO-MACHADO, ALMEIDA & GORDO, 2005	Chimaeridae	8
Hydrolagus	*macrophthalmus*	DE BUEN, 1959	Chimaeridae	21
Hydrolagus	*marmoratus*	DIDIER, 2008	Chimaeridae	5
Hydrolagus	*matallanasi*	SOTO & VOOREN, 2004	Chimaeridae	7
Hydrolagus	*mccoskeri*	BARNETT, DIDIER, LONG & EBERT, 2006	Chimaeridae	5
Hydrolagus	*melanophasma*	JAMES & EBERT & LONG & DIDIER, 2009	Chimaeridae	15
Hydrolagus	*mirabilis*	(COLLETT, 1904)	Chimaeridae	41
Hydrolagus	*mitsukurii*	(JORDAN & SNYDER, 1904)	Chimaeridae	26
Hydrolagus	*novaezealandiae*	(FOWLER, 1911)	Chimaeridae	35
Hydrolagus	*pallidus*	HARDY & STEHMANN, 1990	Chimaeridae	30
Hydrolagus	*purpurescens*	(GILBERT, 1905)	Chimaeridae	22
Hydrolagus	*trolli*	DIDIER & SÉRET, 2002	Chimaeridae	19
Harriotta	*haeckeli*	KARRER, 1972	Rhinochimaeridae	25
Harriotta	*raleighana*	GOODE & BEAN, 1895	Rhinochimaeridae	115
Neoharriotta	*carri*	BULLIS & CARPENTER, 1966	Rhinochimaeridae	15
Neoharriotta	*pinnata*	(SCHNAKENBECK, 1931)	Rhinochimaeridae	37
Neoharriotta	*pumila*	DIDIER & STEHMANN, 1996	Rhinochimaeridae	11
Rhinochimaera	*africana*	COMPAGNO, STEHMANN & EBERT, 1990	Rhinochimaeridae	27
Rhinochimaera	*atlantica*	HOLT & BYRNE, 1909	Rhinochimaeridae	49
Rhinochimaera	*pacifica*	(MITSUKURI, 1895)	Rhinochimaeridae	65

3.3.3.6 "Top 20" most studied chimaeriform species

Genus	Species	Author	Family	No or records
Chimaera	*monstrosa*	LINNAEUS, 1758	Chimaeridae	297
Hydrolagus	*colliei*	(LAY & BENNETT, 1839)	Chimaeridae	187
Callorhinchus	*milii*	BORY DE SAINT-VINCENT, 1823	Callorhinchidae	164
Harriotta	*raleighana*	GOODE & BEAN, 1895	Rhinochimaeridae	115
Callorhinchus	*callorynchus*	(LINNAEUS, 1758)	Callorhinchidae	114
Hydrolagus	*affinis*	(DE BRITO CAPELLO, 1868)	Chimaeridae	77
Rhinochimaera	*pacifica*	(MITSUKURI, 1895)	Rhinochimaeridae	65
Chimaera	*ogilbyi*	WAITE, 1898	Chimaeridae	59
Chimaera	*phantasma*	JORDAN & SNYDER, 1900	Chimaeridae	58
Rhinochimaera	*atlantica*	HOLT & BYRNE, 1909	Rhinochimaeridae	49
Callorhinchus	*capensis*	DUMÉRIL, 1865	Callorhinchidae	45
Hydrolagus	*mirabilis*	(COLLETT, 1904)	Chimaeridae	41
Neoharriotta	*pinnata*	(SCHNAKENBECK, 1931)	Rhinochimaeridae	37
Hydrolagus	*novaezealandiae*	(FOWLER, 1911)	Chimaeridae	35
Hydrolagus	*pallidus*	HARDY & STEHMANN, 1990	Chimaeridae	30
Rhinochimaera	*africana*	COMPAGNO, STEHMANN & EBERT, 1990	Rhinochimaeridae	27
Hydrolagus	*africanus*	(GILCHRIST, 1922)	Chimaeridae	26
Hydrolagus	*barbouri*	(GARMAN, 1908)	Chimaeridae	26
Hydrolagus	*mitsukurii*	(JORDAN & SNYDER, 1904)	Chimaeridae	26
Hydrolagus	*alberti*	BIGELOW & SCHROEDER, 1951	Chimaeridae	25

Order/Family	Number of Species	Number of Records
Chimaeriformes	**54**	**1821**
Callorhinchidae	3	323
Chimaeridae	43	1154
Rhinochimaeridae	8	344
Total:	**54**	**1821**

3.3.4 Papers of new extant genera/species

WEIGMANN, S. & KASCHNER, C.J. & THIEL, R. (2018): A new microendemic species of the deep-water catshark genus *Bythaelurus* (Carcharhiniformes, Pentanchidae) from the northwestern Indian Ocean, with investigations of its feeding ecology, generic review and identification key*. PLoS ONE, 13 (12): e0207887*

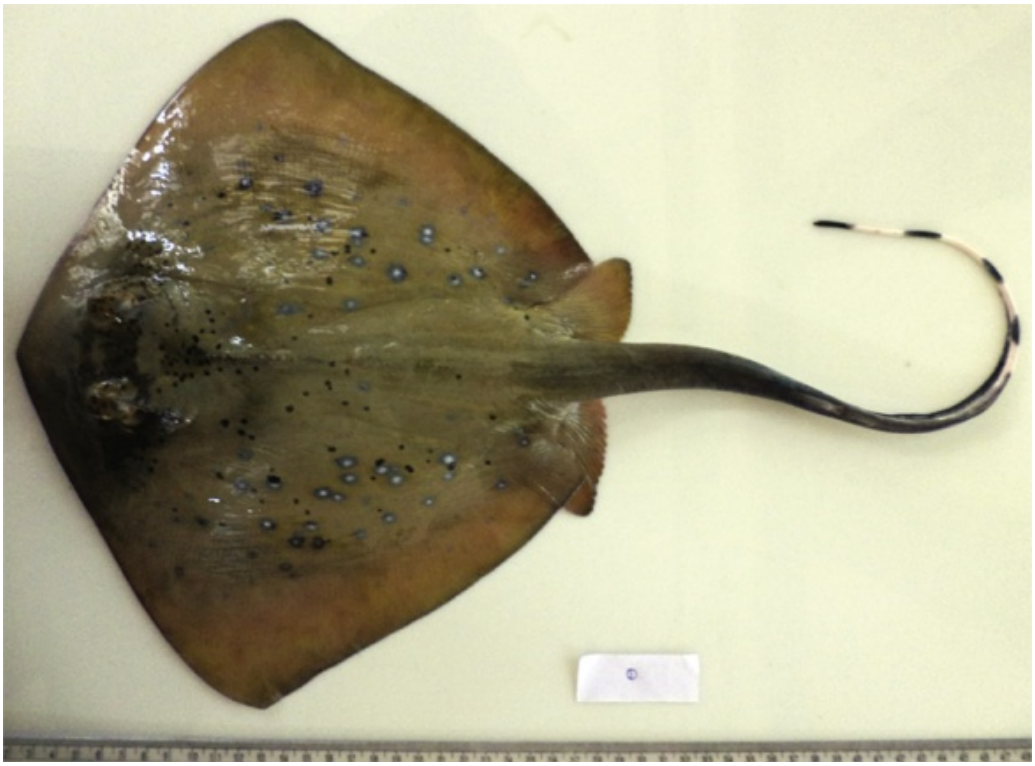
New species: *Bythaelurus stewarti*

Abstract: A new deep-water catshark, *Bythaelurus stewarti*, is described based on 121 examined specimens caught on the Error Seamount (Mount Error Guyot) in the northwestern Indian Ocean. The new species differs from all congeners in the restricted distribution, a higher spiral valve turn count and in the morphology of the dermal denticles. It is distinguished from its morphologically and geographically closest congener, *B*. *hispidus* (Alcock), by the larger size (maximum size 44 vs. 39 cm TL, maturity size of males 35–39 vs. 21–28 cm TL), darker fresh coloration and dark grayish-brown mottling of the ventral head (vs. ventral head typically uniformly yellowish or whitish). Furthermore, it has a strongly different morphology of dermal denticles, in particular smaller and less elongate branchial, trunk and lateral caudal denticles that are set much less densely and have a surface that is very strongly and fully structured by reticulations (vs. structured by reticulations only in basal fourth). In addition, the new species differs from *B*. *hispidus* in having more slender claspers that are gradually narrowing to the bluntly pointed tip without knob-like apex (vs. claspers broader and with distinct knob-like apex), more spiral valve turns (11–12 vs. 8–10) and numerous statistical differences in morphometrics. A review of and a key to the species of *Bythaelurus* are given.

EBERT, D.A. & VAN HEES, K.E. (2018): *Etmopterus marshae* sp. nov, a new lanternshark (Squaliformes: Etmopteridae) from the Philippine Islands, with a revised key to the *Etmopterus lucifer* clade. *Zootaxa, 4508 (2): 197–210*

New species: *Etmopterus marshae*

Abstract: A new species of lanternshark, *Etmopterus marshae* (Squaliformes: Etmopteridae), is described from the Philippine Islands, western North Pacific Ocean. The new species occurs along insular slopes at a depth range of 322–337 m. The new species resembles other members of the "*Etmopterus lucifer*" clade in having linear rows of dermal denticles, and most closely resembles *E. burgessi* from Taiwan and *E. evansi* and *E. pycnolepis* from the South Pacific. It can be distinguished from all other members of the *E. lucifer* clade by a combination of characteristics, including length of anterior and posterior flank branches being of relatively equal length, straight vs. curved anterior flank marking, relative lengths of caudal markings, coloration, and relatively small size. A revised key to the revised key to the *Etmopterus lucifer* clade is provided.

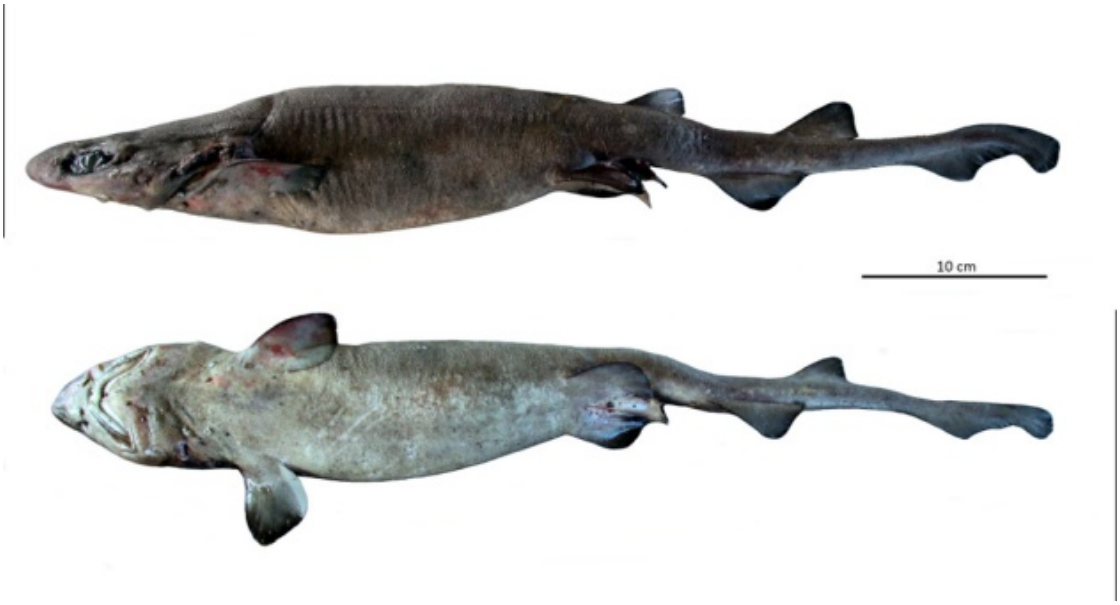


PAVAN-KUMAR, A. & KUMAR, R. & PITALE, P. & SHEN, K.N. & BORSA, P. (2018): *Neotrygon indica* sp nov., the Indian Ocean blue-spotted maskray (Myliobatoidei, Dasyatidae). *Comptes Rendus Biologies, 341 (2): 120-130*

New species: *Neotrygon indica*

Abstract: The blue-spotted maskray, previously *N. kuhlii*, consists of up to eleven lineages representing separate species. Nine of these species (*N. australiae, N. bobwardi, N. caeruleopunctata, N. malaccensis, N. moluccensis, N. orientale, N. vali, N. varidens, N. westpapuensis*) have already been formally described and two (Indian Ocean maskray and Ryukyu maskray) remain undescribed. Here, the Indian Ocean maskray is described as a new species, *Neotrygon indica* sp. nov. Specimens of the new species were generally characterized on their dorsal side by a moderately large number of small ocellated blue spots, a low number of medium-sized ocellated blue spots, the absence of large ocellated blue spots, a high number of dark speckles, a few dark spots, and a conspicuous occipital mark. The new species formed a distinct haplogroup in the tree built from concatenated nucleotide sequences at the CO1 and cytochrome b loci. A diagnosis based on colour patterns and nucleotide sequences at the CO1 and cytochrome b loci is proposed. The distribution of *N. indica* sp. nov. includes the Indian coast of the Bay of Bengal, the Indian coast of the Laccadives Sea, and Tanzania.

Considerable sampling effort remains necessary for an in-depth investigation of the phylogeographic structure of the Indian Ocean maskray.



FAHMI & EBERT, D.A. (2018): *Parmaturus nigripalatum* n. sp., a new species of deep-sea catshark (Chondrichthyes: Carcharhiniformes: Scyliorhinidae) from Indonesia. *Zootaxa, 4413 (3): 531–540*

New species: *Parmaturus nigripalatum*

Abstract: *Parmaturus nigripalatum*, a new species of catshark of the genus *Parmaturus* is described from a single specimen collected from a deep-water shark longliner operating in south Sumbawa waters, Indonesia. This new species is distinguished from its closest geographic congener *P. lanatus* by having prominent enlarged caudal crests, well-developed labial furrows with the uppers and lowers of equal lengths, mouth roof blackish with dark pores, first dorsal fin origin more posteriorly positioned on body trunk, and much lower tooth counts than all other known *Parmaturus* species. This is the second *Parmaturus* species recorded from Indonesian waters.

EBERT, D.A. & AKHILESH, K.V. & WEIGMANN, S. (2018): *Planonasus indicus* sp. n., a new species of pygmy false catshark (Chondrichthyes: Carcharhiniformes: Pseudotriakidae), with a revised diagnosis of the genus and key to the family. *Marine Biodiversity, in press*

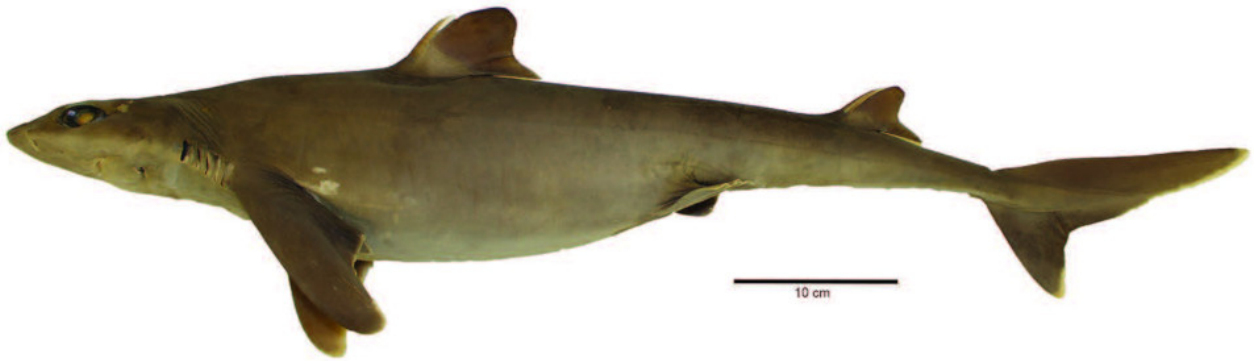
New species: *Planonasus indicus*

Abstract: A new species of the genus *Planonasus* is described from off southwestern India and Sri Lanka in the northern Indian Ocean. The new species occurs along the upper continental slope from 200 to 1000 m deep and was landed in fisheries for gulper sharks (*Centrophorus* spp.). *Planonasus indicus* sp. n. externally closely resembles *P. parini* (Carcharhiniformes: Pseudotriakidae), the only other member of the genus. It can be distinguished from *P. parini* by a combination of morphological characters including absence of oral papillae, lack of a distinct white mark on the free rear tip of the first dorsal fin, sides and underside of head, as well as fin edges that are similar in color as body (vs. dusky), more tooth rows in the lower jaw, shorter labial furrows, longer and less high spiracles, proportionally higher, more angular dorsal fins, especially the second dorsal fin, proportionally longer pectoral fins, a proportionally larger anal fin, longer distances from the snout tip to the origins of the caudal fin, both dorsal fins and the pelvic fins, as well as to the vent, and shorter distances for preorbital snout, prepectoral length, pelvic midpoint to second dorsal fin origin, and pelvic-anal space. A revised diagnosis of the genus and key to the family is also provided.

PFLEGER, M.O. & GRUBBS, R.D. & COTTON, C.F. & DALY-ENGEL, T.S. (2018): *Squalus clarkae* sp. nov., a new dogfish shark from the Northwest Atlantic and Gulf of Mexico, with comments on the *Squalus mitsukurii* species complex. *Zootaxa, 4444 (2): 101–119*

New species: *Squalus clarkae*

Abstract: Sharks of the genus *Squalus* have slow reproductive rates coupled with low genetic diversity, as is typical of deep-water sharks, making this group slow to rebound from depletion due to overfishing. The number of species within *Squalus* has been expanding recently due to increased attention on taxonomic revision, and a growing research focus on little-known deep-water sharks in general. Here we use genetics and morphology to describe a new species of dogfish shark, *Squalus clarkae* sp. nov. from the Gulf of Mexico (GoM) which replaces *Squalus mitsukurii* in this region, and place it in the context of congeners from the Atlantic and elsewhere. Previously, *S. clarkae* sp. nov. was considered a part of the *Squalus mitsukurii* species complex, a group of closely related but distinct species. We sequenced the mitochondrial cytochrome oxidase I and the NADH Dehydrogenase II gene of *S. mitsukurii* from the type location in Japan, *S. clarkae* sp. nov. from the GoM, as well as three closely related species (*S. cubensis, S. blainville,* and *S. megalops*) and *S.* cf. *mitsukurii* from Brazil. *Squalus clarkae* sp. nov. is genetically distinct from other species with significant statistical support (>98.6% bootstrap support/posterior probability), and 2.8% divergent from *S. mitsukurii* in the type location of Japan. Morphological estimates also revealed differences between *S. clarkae* sp. nov., *S. mitsukurii*, and other Atlantic *Squalus* species, with *S. clarkae* sp. nov. exhibiting a longer body, smaller interorbital space, shorter caudal fin, and a differently-proportioned first dorsal fin. In general, dogfish sharks in the Atlantic and GoM are characterized by similar but distinct morphology, significant genetic variation, and small species ranges.



DALY-ENGEL, T.S. & KOCH, A. & ANDERSON, J.M. & COTTON, C.F. & GRUBBS, R.D. (2018): Description of a new deep-water dogfish shark from Hawaii, with comments on the *Squalus mitsukurii* species complex in the West Pacific. *ZooKeys, 798: 135–157*

New species: *Squalus hawaiiensis*

Abstract: Dogfish sharks of the genus *Squalus* are small, deep-water sharks with a slow rate of molecular evolution that has led to their designation as a series of species complexes, with low between-species diversity relative to other taxa. The largest of these complexes is named for the Shortspine spurdog (*Squalus mitsukurii* Jordan & Snyder), a medium-sized dogfish shark common to warm upper slope and seamount habitats, with a putative circumglobal distribution that has come under investigation recently due to geographic variation in morphology and genetic diversity. The Hawaiian population of *Squalus mitsukurii* was examined using both morphological and molecular analyses, putting this group in an evolutionary context with animals from the type population in Japan and closely-related congeners. External morphology differs significantly between the Hawaiian and Japanese *S. mitsukurii*, especially in dorsal fin size and relative interdorsal length, and molecular analysis of 1,311 base pairs of the mitochondrial genes ND2 and COI show significant, species-level divergence on par with other taxonomic studies of this genus. The dogfish shark in Hawaii represents a new species in the genus, and the name *Squalus hawaiiensis*, the Hawaiian spurdog, is designated after the type location.

VAZ, D.F.B. & DE CARVALHO, M.R. (2018): New Species of *Squatina* (Squatiniformes: Squatinidae) from Brazil, with Comments on the Taxonomy of Angel Sharks from the Central and Northwestern Atlantic. *Copeia, 106 (1): 144–160*

New species: *Squatina varii*

Abstract: Morphological analysis of South- and Northwestern Atlantic specimens of *Squatina* revealed an undescribed species of angel shark occurring on the continental slope of Brazil between latitudes 11° and 22°S. The new species of *Squatina* is distinguished from western Atlantic congeners by a unique combination of dorsal color pattern, vertebral counts, morphology of lateral dermal folds, dermal denticles, female reproductive tract, clasper, and pectoral fin characters. A preliminary assessment of the taxonomy of angel shark species from the Central and Northwestern Atlantic is also provided.

DALY-ENGEL, T.S. & BAREMORE, I.E. & GRUBBS, R.D. & GULAK, S.J.B. & GRAHAM, R.T. & ENZENAUER, M.P. (2018): Resurrection of the sixgill shark *Hexanchus vitulus* Springer & Waller, 1969 (Hexanchiformes, Hexanchidae), with comments on its distribution in the northwest Atlantic Ocean. *Marine Biodiversity, in press*

New species: *Hexanchus vitulus* (Resurrection)

Abstract: The sixgill sharks of the genus *Hexanchus* (Hexanchiformes, Hexanchidae) are large, rarely encountered deep-sea sharks, thought to comprise just two species: the bluntnose sixgill *Hexanchus griseus* (Bonaterre, 1788) and the bigeye sixgill *Hexanchus nakamurai* (Teng, 1962). Their distribution is putatively worldwide in tropical and temperate waters, but many verified records for these species are lacking, and misidentification is common. Taxonomic uncertainty has long surrounded *H. nakamurai* in particular, with debate as to whether individuals from the Atlantic constitute a separate species. Using 1,310 base pairs of two mitochondrial genes, *COI* and *ND2*, we confirm that bigeye sixgill sharks from the Atlantic Ocean (Belize, Gulf of Mexico, and Bahamas) diverge from those in the Pacific and Indian Oceans (Japan, La Reunion, and Madagascar) with 7.037% sequence divergence. This difference is similar to the genetic distance between both Atlantic and Indo-Pacific bigeye sixgill sharks and the bluntnose sixgill shark (7.965% and 8.200%, respectively), and between the entire genus *Hexanchus* and its sister genus *Heptranchias* (8.308%). Such variation far exceeds previous measures of species-level genetic divergence in elasmobranchs, even among slowly-evolving deep-water taxa. Given the high degree of morphological similarity within *Hexanchus*, and the fact that cryptic diversity is common even among frequently observed shark species, we conclude that these results support the resurrection of the name *Hexanchus vitulus* Springer and Waller, 1969 for bigeye sixgill sharks in the northwest Atlantic Ocean. We propose the common name “Atlantic sixgill shark” for *H. vitulus*, and provide new locality records from Belize, as well as comments on its overall distribution.

3.4 Parasitology

3.4.1 Research Articles

BAKENHASTER, M.D. & BULLARD, S.A. & CURRAN, S.S. & KRITSKY, D.C. & LEONE, E.H. & PARTRIDGE, L.K. & RUIZ, C.F. & SCHARER, R.M. & POULAKIS, G.R. (2018) Parasite component community of smalltooth sawfish off Florida: diversity, conservation concerns, and research applications. *Endangered Species Research, 35: 47-58* http://dx.doi.org/10.3354/esr00863

BAKOPOULOS, V. & TSEPA, E. & DIAKOU, A. & KOKKORIS, G. & KOLYGAS, M.N. & ATHANASSOPOULOU, F. (2018) Parasites of Scyliorhinus canicula (Linnaeus, 1758) in the north-eastern Aegean Sea. *Journal of the Marine Biological Association of the United Kingdom, 98 (Special Issue 8): 2133-2143* http://dx.doi.org/10.1017/S0025315417001552

BOWATER, R.O. & DENNIS, M.M. & BLYDE, D. & STONE, B. & BARNES, A.C. & DELAMARE-DEBOUTTEVILLE, J. & HORTON, M.A. & WHITE, M. & CONDON, K. & JONES, R. (2018) Epizootics of Streptococcus agalactiae infection in captive rays from Queensland, Australia. *Journal of Fish Diseases, 41 (2): 223-232* http://dx.doi.org/10.1111/jfd.12701

BOXSHALL, G. (2018) The sea lice (Copepoda: Caligidae) of Moreton Bay (Queensland, Australia), with descriptions of thirteen new species. *Zootaxa, 4398 (1): 1-172* http://dx.doi.org/10.11646/zootaxa.4398.1.1

CAIRA, J.N. & JENSEN, K. & FYLER, C.A. (2018) A new genus of tapeworm (Cestoda: Onchoproteocephalidea) from sawfish (Elasmobranchii: Pristidae). *Journal of Parasitology, 104 (2): 133-144* http://dx.doi.org/10.1645/17-165

CANTATORE, D.M.P. & IRIGOITIA, M.M. & HOLZER, A.S. & BARTOSOVA-SOJKOVA, P. & PECKOVA, H. & FIALA, I. & TIMI, J.T. (2018) The description of two new species of Chloromyxum from skates in the Argentine Sea reveals that a limited geographic host distribution causes phylogenetic lineage separation of myxozoans in Chondrichthyes. *Parasite, 25: 47* http://dx.doi.org/10.1051/parasite/2018051

CHERO, J.D. & CRUCES, C.L. & SÁEZ, G. & CAMARGO, A.C.A. & SANTOS, C.P. & LUQUE, J.L. (2018) Hypanocotyle bullardi n. gen. n. sp. (Monogenea: Hexabothriidae) from gill of the diamond stingray Hypanus dipterurus (Jordan et Gilbert) (Myliobatiformes: Dasyatidae) in the Southeastern Pacific Ocean off Peru. *Parasitology International, 67 (4): 425–430* http://dx.doi.org/10.1016/j.parint.2018.03.010

CHERO, J.D. & CRUCES, C.L. & SÁEZ, G. & LUQUE, J.L. (2018) A new genus and species of the Dasybatotreminae Bychowsky, 1957 (Monogenea: Monocotylidae), parasitic on Hypanus dipterurus (Jordan & Gilbert) (Myliobatiformes: Dasyatidae) in the Southeastern Pacific Ocean off Peru. *Zootaxa, 4527 (3): 347–356* http://dx.doi.org/10.11646/zootaxa.4527.3.4

COLEMAN, G.M. & BEVERIDGE, I. & CAMPBELL, R.A. (2018) New species of Rhinebothrium Linton, 1890 (Cestoda: Rhinebothriidea) parasitic in Australian stingrays (Elasmobranchii: Batoidea). *Systematic Parasitology, in press* http://dx.doi.org/10.1007/s11230-018-9835-8

CRUZ-QUINTANA, Y. & CAÑA-BOZADA, V. & SUÁREZ-MORALES, E. & SANTANA-PIÑEROS, A.M. (2018) A new species of Pupulina van Beneden, 1892 (Copepoda, Siphonostomatoida, Caligidae) from Aetobatus cf. narinari (Pisces, Myliobatidae) from the Pacific coast of Ecuador. *ZooKeys, 777: 1-16* http://dx.doi.org/10.3897/zookeys.777.26017

CUTMORE, S.C. & CRIBB, T.H. & BENNETT, M.B. & BEVERIDGE, I. (2018) Tetraphyllidean and onchoproteocephalidean cestodes of elasmobranchs from Moreton Bay, Australia: description of two new species and new records for seven described species. *Systematic Parasitology, 95 (8-9): 807–827* http://dx.doi.org/10.1007/s11230-018-9817-x

CUTMORE, S.C. & CRIBB, T.H. & YONG, R.Q.Y. (2018) Aporocotylids from batoid and elopomorph fishes from Moreton Bay, Queensland, Australia, including a new genus and species of blood fluke infecting the Giant shovelnose ray, Glaucostegus typus (Rhinopristiformes: Glaucostegidae). *Parasitology International, 67 (6): 768-775* http://dx.doi.org/10.1016/j.parint.2018.08.003

DEDRICK, E.A. & REYDA, F.B. & IWANYCKYJ, E.K. & RUHNKE, T.R. (2018) Two new species of Stillabothrium (Cestoda: Rhinebothriidea) from stingrays of the genus Fontitrygon from Senegal. *Folia Parasitologica, 65: 014* http://dx.doi.org/10.14411/fp.2018.014

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DIPPENAAR, S.M. (2018) Symbiotic Siphonostomatoida (Copepoda) collected from white sharks, Carcharodon carcharias (Lamniformes, Lamnidae), during the OCEARCH expedition along the coast of South Africa. *Crustaceana, 91 (1): 103-111* http://dx.doi.org/10.1163/15685403-00003746

DIPPENAAR, S.M. (2018) Resurrection of Alebion difficile (van Beneden, 1892) (Copepoda: Siphonostomatoida: Caligidae) with notes on other species of Alebion Krøyer, 1863 collected from

elasmobranchs off South Africa and an updated key of the adult females. *Systematic Parasitology, 95 (8-9): 881–891* http://dx.doi.org/10.1007/s11230-018-9811-3
DUCATTI, R. & TAKATSUKA, V. & AZEVEDO, V.G. & SANCHES, E.G. & PASCHOAL, F. & LUQUE, J.L. (2018) Occurrence of Metacaligus rufus (Wilson, 1908) (Copepoda, Caligidae) parasitizing the cownose ray Rhinoptera bonasus (Mitchill, 1815) (Elasmobranchii, Myliobatidae) in Brazil. *Brazilian Journal of Biology, 78 (3): 597-599* http://dx.doi.org/10.1590/1519-6984.175363
ESPÍNOLA-NOVELO, J.F. & ESCRIBANO, R. & OLIVA, M.E. (2018) Metazoan parasite communities of two deep-sea elasmobranchs: the southern lanternshark, Etmopterus granulosus, and the largenose catshark, Apristurus nasutus, in the Southeastern Pacific Ocean. *Parasite, 25: 53* http://dx.doi.org/10.1051/parasite/2018054
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IRIGOITIA, M.M. & INCORVAIA, I.S. & TIMI, J.T. (2018) Corrigendum to Evaluating the usefulness of natural tags for host population structure in chondrichthyans: Parasite assemblages of Sympterygia bonapartii (Rajiformes: Arhynchobatidae) in the Southwestern Atlantic (vol 195, pg 80, 2017). *Fisheries Research, 199: 272* http://dx.doi.org/10.1016/j.fishres.2017.10.024
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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)

Aloculibothrium	MANNA & MANNA, 2018	(Onchoproteocephalideadea: Onchobothriidae)
Alveobothrium	BOUDAYA, NEIFAR & EUZET, 2018	(Rhinebothriidea: Anthocephaliidae)
Hypanocotyle	CHERO, CRUCES, SÁEZ, CAMARGO, SANTOS & LUQUE, 2018	(Diclybothriidea: Hexabothriidae)
Matticestus	CAIRA, JENSEN & FYLER, 2018	(Onchoproteocephalidea)
Ogawaia	CUTMORE, CRIBB & YONG, 2018	(Diplostomida: Aporocotylidae)
Peruanocotyle	CHERO, CRUCES, SÁEZ & LUQUE, 2018	(Monocotylidea: Monocotylidae)

3.4.2.2 List of new Parasites of Elasmobranchs (species)

Acanthobothrium marquesi	RODRIGUEZ-IBARRA, PULIDO-FLORES, VIOLANTE-GONZALEZ & MONKS, 2018	(Onchoproteocephalideadea: Onchobothriidae)
Acanthobothrium stefaniae	FRANZESE & IVANOV, 2018	(Onchoproteocephalideadea: Onchobothriidae)
Acanthocotyle gurgesiella	NACARI, SEPULVEDA, ESCRIBANO & OLIVA, 2018	(Gyrodactylidea: Acanthocotylidae)
Aloculibothrium dasyatii	MANNA & MANNA, 2018	(Onchoproteocephalideadea: Onchobothriidae)
Alveobothrium grabatum	BOUDAYA, NEIFAR & EUZET, 2018	(Rhinebothriidea: Anthocephaliidae)
Alveobothrium zarzisense	BOUDAYA, NEIFAR & EUZET, 2018	(Rhinebothriidea: Anthocephaliidae)
Alveobothrium jeancadenati	BOUDAYA, NEIFAR & EUZET, 2018	(Rhinebothriidea: Anthocephaliidae)
Anthocephalum blairi	HERZOG & JENSEN, 2018	(Rhinebothriidea: Anthocephaliidae)
Anthocephalum gravisi	HERZOG & JENSEN, 2018	(Rhinebothriidea: Anthocephaliidae)
Anthocephalum haroldsoni	HERZOG & JENSEN, 2018	(Rhinebothriidea: Anthocephaliidae)
Anthocephalum mounseyi	HERZOG & JENSEN, 2018	(Rhinebothriidea: Anthocephaliidae)
Anthocephalum ruhnkei	HERZOG & JENSEN, 2018	(Rhinebothriidea: Anthocephaliidae)
Caligus elasmobranchi	BOXSHALL, 2018	(Siphonostomatoida: Caligidae)
Chloromyxum atlantoraji	CANTATORE, IRIGOITIA,HOLZER, BARTOSOVA-SOJKOVA, PECKOVA, FIALA & TIMI, 2018	(Bivalvulida: Chloromyxidae)

Chloromyxum zearaji	CANTATORE, IRIGOITIA,HOLZER, BARTOSOVA-SOJKOVA, PECKOVA, FIALA & TIMI, 2018	(Bivalvulida: Chloromyxidae)
Hypanocotyle bullardi	CHERO, CRUCES, SÁEZ, CAMARGO, SANTOS & LUQUE, 2018	(Diclybothriidea: Hexabothriidae)
Matticestus anneae	CAIRA, JENSEN & FYLER, 2018	(Onchoproteocephalidea)
Matticestus kathleenae	CAIRA, JENSEN & FYLER, 2018	(Onchoproteocephalidea)
Neonchocotyle violantei	QUITERIO-RENDON & MONKS & PULIDO-FLORES, 2018	(Diclybothriidea: Hexabothriidae)
Ogawaia glaucostegi	CUTMORE, CRIBB & YONG, 2018	(Diplostomida: Aporocotylidae)
Parachristianella mendozai	SCHAEFFNER & MARQUES, 2018	(Trypanorhyncha: Eutetrarhynchidae)
Parachristianella kuchtai	SCHAEFFNER & MARQUES, 2018	(Trypanorhyncha: Eutetrarhynchidae)
Parachristianella campbelli	SCHAEFFNER & MARQUES, 2018	(Trypanorhyncha: Eutetrarhynchidae)
Parachristianella soldanovae	SCHAEFFNER & MARQUES, 2018	(Trypanorhyncha: Eutetrarhynchidae)
Parachristianella dollfusi	SCHAEFFNER & MARQUES, 2018	(Trypanorhyncha: Eutetrarhynchidae)
Peruanocotyle chisholmae	CHERO, CRUCES, SÁEZ & LUQUE, 2018	(Monocotylidea: Monocotylidae)
Pupulina keiri	BOXSHALL, 2018	(Siphonostomatoida: Caligidae)
Pupulina mantensis	CRUZ-QUINTANA, CAÑA-BOZADA, SUÁREZ-MORALES & SANTANA-PIÑEROS, 2018	(Siphonostomatoida: Caligidae)
Rhinebothrium dasyatidis	COLEMAN, BEVERIDGE & CAMPBELL, 2018	(Rhinebothriidea: Rhinebothriidae)
Rhinebothrium bunburyense	COLEMAN, BEVERIDGE & CAMPBELL, 2018	(Rhinebothriidea: Rhinebothriidae)
Rhinebothrium vandiemeni	COLEMAN, BEVERIDGE & CAMPBELL, 2018	(Rhinebothriidea: Rhinebothriidae)
Rhinebothrium fluviorum	COLEMAN, BEVERIDGE & CAMPBELL, 2018	(Rhinebothriidea: Rhinebothriidae)
Rhinebothrium urolophi	COLEMAN, BEVERIDGE & CAMPBELL, 2018	(Rhinebothriidea: Rhinebothriidae)
Rhinebothrium nickoli	COLEMAN, BEVERIDGE & CAMPBELL, 2018	(Rhinebothriidea: Rhinebothriidae)
Rhinebothrium fungiforme	COLEMAN, BEVERIDGE & CAMPBELL, 2018	(Rhinebothriidea: Rhinebothriidae)
Stillabothrium allisonae	DEDRICK & REYDA, 2018	(Tetraphyllidea: Escherbothriidae)
Stillabothrium charlotteae	IWANYCKYJ, DEDRICK & REYDA, 2018	(Tetraphyllidea: Escherbothriidae)
Yorkeria williamsi	CUTMORE, CRIBB, BENNETT & BEVERIDGE, 2018	(Tetraphyllidea: Onchobothriidae)
Yorkeria moretonensis	CUTMORE, CRIBB, BENNETT & BEVERIDGE, 2018	(Tetraphyllidea: Onchobothriidae)

3.4.3 Papers of new parasites genera/species

RODRIGUEZ-IBARRA, E. & PULIDO-FLORES, G. & VIOLANTE-GONZALEZ, J. & MONKS, S. (2018): A new species of *Acanthobothrium* (Eucestoda: Onchobothriidae) in *Aetobatus* cf*. narinari* (Myliobatidae) from Campeche, Mexico*. Revista Brasileira De Parasitologia Veterinaria, 27 (1): 67-74*

New species: *Acanthobothrium marquesi*

Abstract: The helminthological examination of nine individuals of *Aetobatus* cf. *narinari* (spotted eagle ray; raya pinta; arraia pintada) revealed the presence of an undescribed species of cestode of the genus *Acanthobothrium*. The stingrays were collected from four locations in México: Laguna Términos, south of Isla del Carmen and the marine waters north of Isla del Carmen and Champotón, in the State of Campeche, and Isla Holbox, State of Quintana Roo. The new species, nominated *Acanthobothrium marquesi*, is a category 3 species (i.e, the strobila is long, has more than 50 proglottids, the numerous testicles greater than 80, and has asymmetrically-lobed ovaries); at the present, the only category 3 species that has been reported in the Western Atlantic Ocean is *Acanthobothrium tortum*. *Acanthobothrium marquesi* n. sp. can be distinguished from *A. tortum* by length (26.1 cm vs. 10.6 cm), greater number of proglottids (1,549 vs. 656), a larger scolex (707 µm long by 872 µm wide vs. 699 µm long by 665 µm wide), larger bothridia (626 µm long by 274 µm wide vs. 563 µm long by 238 µm wide). This is the first report of a species of *Acanthobothrium* from the Mexican coast of the Gulf México.

FRANZESE, S. & IVANOV, V.A. (2018): Hyperapolytic species of *Acanthobothrium* (Cestoda: Onchoproteocephalidea) from batoids off Argentina. *Journal of Helminthology, 92 (2): 223-227*

New species: *Acanthobothrium stefaniae*

Abstract: Two hyperapolytic species of *Acanthobothrium* Blanchard, 1848 have been collected from *Discopyge tschudii* Heckel, 1846 and *Zapteryx brevirostris* (Muller et Henle) along the coast of Argentina. *Acanthobothrium stefaniae* sp. n. from *D. tschudii* is a category one species (i.e., it is less than 15 mm in total length, possesses fewer than 50 proglottids, fewer than 80 testes and essentially symmetrical ovary), and differs from all congeners by the following combination of features: proglottid hyperapolysis, hook morphology, size and shape of the cirrus sac, and by having spinitriches in the distal bothridial surface. This is the first record of *Acanthobothrium* in *Discopyge* Heckel, 1846. The specimens from *Z. brevirostris* conform to the morphology of *Acanthobothrium zapterycum* Ostrowski de NUfiez, 1971. A redescription of this species is presented, which expands most ranges of measurements originally given, and provides details omitted in the original description, including the microthrix pattern. This study allowed us to observe the intraspecific variation in ovarian symmetry in *A. zapterycum*, which shed some doubt on the validity of this as a diagnostic feature. The reproductive strategy (apolysis) of several species of *Acanthobothrium* was reviewed and summarized.

NACARI, L.A. & SEPULVEDA, F.A. & ESCRIBANO, R. & OLIVA, M.E. (2018): *Acanthocotyle gurgesiella* n. sp. (Monogenea: Acanthocotylidae) from the deep-sea skate *Gurgesiella furvescens* (Rajidae) in the south-eastern Pacific. *Journal of Helminthology, 92 (2): 223-227*

New species: *Acanthocotyle gurgesiella*

Abstract: Little is known about the diversity of parasites of the deep-sea fish of the world's oceans. Here, a new species of monogenean parasite of the deep-sea skate *Gurgesiella furvescens* is described. Specimens of parasites were obtained from the skin of two specimens of the dusky finless skate, *G. furvescens* (Rajidae), in the vicinity of Valparaiso (33 degrees S, 72 degrees W), central Chile, from midwater trawl fishing at depths of 350-450 m. Both morphological and molecular analyses were conducted to provide a full description of the new species, named *Acanthocotyle gurgesiella*. For the molecular analyses, nuclear large subunit (LSU) rDNA and the mitochondrial gene cytochrome c oxidase 1 (COI) were used. From the morphological analysis and a comparison with the known species of the genus, *A. gurgesiella* can be identified by a combination of morphological characteristics, including the number of testes, number of radial rows of sclerites in the

pseudohaptor, aperture of the genital pore and shape of the vitelline follicles. The results from the DNA analysis indicated that *A. gurgesiella* has a genetic divergence of 3.2-3.7% (LSU rDNA gene) from *A. urolophi,* the only congener species for which molecular data are available.

MANNA, S. & MANNA, B. (2018): A New Genus of the Tetraphyllidean Cestodes from *Dasyatis sephen* Forsskal, 1775 Captured from Digha Coastal Water, Bay of Bengal, India. *Proceedings of the Zoological Society, 71 (4): 305–312*

New species: *Aloculibothrium dasyatii*

Abstract: *Aloculibothrium dasyatii* n. gen. n. sp. is described from the spiral intestine of *Dasyatis sephen*Forsskal, 1775 captured at Digha coastal waters, Bay of Bengal, India. This species is placed under the famil Onchobothriidae (Braun, 1900) and erected a new genus *Aloculibothrium* to accommodate this specimen. The body is 24.22–36.58 mm long and with 310–325 proglottids; scolex rectangular with two parts; anterior bearing four bothridia with paired bifurcated hooks, divided into inner and outer prong and posterior with fleshy collar. The cestode has been compared with all the existing twelve different valid genera under the family Onchobothriidae but to accommodate the present specimens a new genera *Aloculibothrium* is erected.

BOUDAYA, L. & NEIFAR, L. & EUZET, L. (2018): A new genus and three new species of *Anthocephaliidae* (Cestoda, Rhinebothriidea) from the round fantail stingray, *Taeniurops grabata* (Chondrichthyes, Dasyatidae) from the Mediterranean Sea and Atlantic Ocean*. Systematic Parasitology, in press*

New species: *Alveobothrium grabatum Alveobothrium zarzisense, Alveobothrium jeancadenati*

Abstract: The spiral intestines of a total of 16 round fantail stingrays *Taeniurops grabata* from the Mediterranean Sea off Tunisia were examined for cestodes. A new genus is erected in the Anthocephaliidae (Rhinebothridea) as *Alveobothrium* gen. n., with *Alveobothrium grabatum* sp. n. as its type species; the new genus differs from the other genera in the order in that its members possess bothridia with an apical sucker, marginal loculi and multiple staggered rows of facial loculi. *Alveobothrium zarzisense* sp. n. is also described. The species differ in the number of marginal loculi and in proglotid anatomy. Another anthocephaliid belonging to the genus *Anthocephalum* is also described from *T. grabata*. *Anthocephalum jeancadenati* sp. n. is most similar to *A. alicae* and *A. michaeli*, but differs in size of terminal proglottid and number of proglottids. All these new species are also found in formalin-preserved cestodes from *T. grabata* collected at Gorée Island (Senegal) between 1946 and 1954 by the French ichthyologist J. Cadenat and conserved in the personal collection of the late L. Euzet. The presence of the same rhinebothriideans species parasitizing *T. grabata* in both the Mediterranean (Tunisia) and the eastern Atlantic (Senegal) is discussed.

HERZOG, K.S. & JENSEN, K. (2018): Five new species of the tapeworm genus *Anthocephalum* (Rhinebothriidea: Anthocephaliidae) parasitizing a single species of Indo-Pacific stingray, and a revised diagnosis of the genus. *Journal of Parasitology, 104 (5): 505-522*

New species: *Anthocephalum blairi, Anthocephalum gravisi, Anthocephalum haroldsoni, Anthocephalum mounseyi, Anthocephalum ruhnkei*

Abstract: Five new species of the elasmobranch tapeworm genus *Anthocephalum* Linton, 1890(Rhinebothriidea: Anthocephaliidae Ruhnke, Caira and Cox, 2015) are described from the mangrove whipray, *Urogymnus granulatus* (Macleay) from the Solomon Islands and northern Australia. *Anthocephalum blairi* n. sp., *Anthocephalum gravisi* n. sp., *Anthocephalum haroldsoni*n. sp., *Anthocephalum mounseyi* n. sp., and *Anthocephalum ruhnkei* n. sp. differ from one another and their congeners based on quantitative and qualitative features of the scolex and proglottid anatomy. Species boundaries recognized by these distinguishing morphological features are supported by a maximum likelihood phylogenetic analysis based on combined *18S rDNA* and *28S rDNA* (D1–D3) sequence data showing the new species as independent lineages among 13 of the 18 species of *Anthocephalum* described to date. Several morphological features (the possession of columns of vitelline follicles that are interrupted by the ovary, a uterus that does not extend to the anterior margin of the proglottid but stops short in the anterior region of the field of testes, proximal surfaces of the marginal loculi covered with acicular filitriches only throughout, or with gladiate spinitriches and acicular filitriches throughout, and proximal bothridial surfaces with gladiate spinitriches and acicular filitriches)

are collectively exhibited by the 5 new species and have not been documented previously in other species of *Anthocephalum*. The genus is herein amended to reflect these features. Additionally, the replacement name *Anthocephalum centrurum*(Southwell, 1925) Ruhnke, 1994 is reinstated as the valid name for the type species of the genus, *Anthocephalum gracile* Linton, 1890, with the latter being the junior secondary homonym of *A. gracile* (Wedl, 1855) Ruhnke, 1994. The description of these new species increases the number of valid species of *Anthocephalum* from 18 to 23.

BOXSHALL, G. (2018): The sea lice (Copepoda: Caligidae) of Moreton Bay (Queensland, Australia), with descriptions of thirteen new species. *Zootaxa, 4398 (1): 1-172*

New species: *Caligus elasmobranchi, Pupulina keiri*

Abstract: Fifty species of sea lice, members of the family Caligidae, were collected from the marine fishes of Moreton Bay, Queensland, during two workshops held in 2016. Only 21 of these species had previously been reported from Australian waters: of the remaining 29 species, 13 are new to science and another 16 are recorded from Australia for the first time. An illustrated differential diagnosis is presented for well known species; but for new or poorly known species a full description is provided. The 13 new species are: *Anuretes amplus* sp. nov. and *A. amymichaelae* sp. nov., both from *Diagramma pictum* (Thunberg, 1792); *Caligus abigailae* sp. nov. from *Sphyraena obtusata* Cuvier, 1829; *C. elasmobranchi* sp. nov. from *Himantura uarnak* (Gmelin, 1789), *H. toshi* Whitley, 1939, *Dasyatis fluviorum* Ogilby, 1908, *Aetobatus ocellatus* (Kuhl, 1823) and *Pastinachus atrus* (Macleay, 1883); *C. hyporhamphi* sp. nov. from *Hyporhamphus quoyi*(Valenciennes, 1847); *C. nataliae* sp. nov. from *Herklotsichthys castelnaui*(Ogilby, 1897) and *Neoarius graeffei* (Kner & Steindachner, 1867); *C. neoaricolus* sp. nov. and *C. paranengai* sp. nov. both from *Neoarius graeffei*; *C. pseudorhombi* sp. nov. from *Pseudorhombus arsius* (Hamilton, 1822); *C. turbidus* sp. nov. from *Tripodichthys angustifrons* (Hollard, 1854); *C. upenei*sp. nov. from *Upeneus tragula* Richardson, 1846; *Lepeophtheirus robertae*sp. nov. from *Scarus ghobbhan* Forsskål, 1775 and *Pupulina keiri* sp. nov. from *Aetobatus ocellatus*. The rare species *Caligodes alatus* Heegaard, 1945 is redescribed and transferred to the genus *Caligus* Müller, 1785, but requires a replacement name due to secondary homonymy: *Caligus alepicolus* nom. nov. is proposed. Similarly, *Parapetalus spinosus* Byrnes, 1986 is redescribed and transferred to the genus *Caligus* where it becomes a secondary homonym: the replacement name *Caligus seriolicolus* nom. nov. is proposed. Five large species-groups within the genus *Caligus* are recognised here on the basis of suites of morphological character states. They are based around the following species: *C. bonito* Wilson, 1905, *C. confusus* Pillai, 1961, *C. diaphanus* von Nordmann, 1832, *C. macarovi*Gusev, 1951 and *C. productus* Dana, 1852. These species-groups can be used to navigate this relatively large genus, but their monophyletic status should not be assumed.

CANTATORE, D.M.P. & IRIGOITIA, M.M. & HOLZER, A.S. & BARTOSOVA-SOJKOVA, P. & PECKOVA, H. & FIALA, I. & TIMI, J.T. (2018): The description of two new species of *Chloromyxum* from skates in the Argentine Sea reveals that a limited geographic host distribution causes phylogenetic lineage separation of myxozoans in Chondrichthyes. *Parasite, 25: 47*

New species: *Chloromyxum atlantoraji, Chloromyxum zearaji*

Abstract: During a survey on the myxosporean fauna of Rajiformes from the Atlantic coast of Argentina, in waters off Buenos Aires Province (34–42S; 53–62W), the gall bladders of 217 specimens belonging to seven species of skates, representatives of two families, were examined. As a result, three species of *Chloromyxum* Mingazzini, 1890, namely *C. atlantoraji* n. sp., *C. zearaji* n. sp. and *C. riorajum* Azevedo, Casal, Garcia, Matos, Teles-Grilo and Matos, 2009 were found infecting three endemic host species, the spotback skate *Atlantoraja castelnaui* (Arhynchobatidae), the yellownose skate *Zearaja chilensis* (Rajidae) and the Rio skate *Rioraja agassizii* (Arhynchobatidae), respectively. These species were described based on myxospore morphology and morphometry characterization, as well as by providing their small subunit ribosomal DNA (SSU rDNA) sequences. The SSU rDNA-based phylogenetic analyses showed that these three species constituted a well-established monophyletic subclade within the marine *Chloromyxum* clade, while branches subtending the other *Chloromyxum* species were poorly resolved or unresolved, independently of the host taxonomic identities (Carchariniformes, Myliobatiformes, Orectolobiformes, Pristiophoriformes, Rajiformes, Squaliformes and Torpediniformes) and/or host geographic distribution (Atlantic coast of Portugal, Atlantic coast of the USA,

Australian waters or Mediterranean Sea). The possible causes of these discrepancies are discussed, providing new insights into the phylogeny of the marine *Chloromyxum* clade.

SCHAEFFNER, B.C. (2018): *Hispidorhynchus styracurae* n. sp. (Trypanorhyncha: Eutetrarhynchidae) From the Chupare Stingray, *Styracura schmardae* (Werner), from the Caribbean Sea, Including New Records of *Oncomegas wageneri* (Linton, 1890). *Journal of Parasitology, 104 (6): 685-696*

New species: *Hispidorhynchus styracurae*

Abstract: Species of the eutetrarhynchid genus Hispidorhynchus Schaeffner and Beveridge, 2012 possess an uncinate macrohook on the bothrial surface of the basal swelling of each tentacle. This unique feature of the oncotaxy is only shared with the closely related genus Oncomegas Dollfus, 1929. A new species of Hispidorhynchus is described from specimens infecting Styracura schmardae (Werner, 1904) (Potamotrygonidae) from the western Caribbean Sea off the coast of Belize and Panama. Hispidorhynchus styracurae n. sp. differs from its 3 congeners in the possession of smaller and narrower bulbs, fewer principle hooks in the metabasal armature, size of the macrohook, and different scolex proportions. Scanning electron microscopy reveals new information on the microthrix morphology of the genus. A diagnostic key for the differentiation of species of Hispidorhynchus is provided. In addition, new host and locality records are reported for Oncomegas wageneri (Linton, 1890) Dollfus, 1929, collected from Hypanus guttatus (Bloch and Schneider, 1801) (Dasyatidae) off the coast of Maceió, Alagoas (Brazil). This considerably expands the geographical distribution of this species in the western Atlantic Ocean.

CHERO, J.D. & CRUCES, C.L. & SÁEZ, G. & CAMARGO, A.C.A. & SANTOS, C.P. & LUQUE, J.L. (2018): *Hypanocotyle bullardi* n. gen. n. sp. (Monogenea: Hexabothriidae) from gill of the diamond stingray *Hypanus dipterurus* (Jordan et Gilbert) (Myliobatiformes: Dasyatidae) in the Southeastern Pacific Ocean off Peru. *Parasitology International, 67 (4): 425–430*

New genus: *Hypanocotyle*

New species: *Hypanocotyle bullardi*

Abstract: A new genus and species of monogenean belonging to Hexabothriidae, *Hypanocotyle bullardi* n. gen. n. sp., is described based on specimens collected from the gill filaments of the diamond stingray, *Hypanus dipterurus* (Jordan et Gilbert) (Myliobatiformes: Dasyatidae), a demersal chondrichthyan collected off the coast of Callao, Peru. *Hypanocotyle* n. gen. has the following combination of diagnostic features that differentiate it from other hexabothriid genera: haptor symmetrical; vasa efferentia having proximal (narrow, with thin glandular wall) and distal (expanded, interlaced, with thick glandular wall) portions, joining medially to form vas deferens; vas deferens having proximal (expanded, sinuous, with thick glandular wall) and distal (narrow, strongly sinuous, with thin glandular wall) portions; male copulatory organ unarmed, proximal portion slightly sinuous and tube-like, distal portion funnel-shaped; prostatic glands present, distributed around of the MCO; seminal receptacle present; ootype lacking longitudinal rows of large cells (no oötype côtelé); vaginae parallel, with well-differentiated proximal (glandular, narrow, tube-like, slightly sinuous) and distal (musculoglandular, convoluted) portions; gland cells surrounding the vaginal duct along the entire length of distal portion, densely clustered in middle portion; uterine eggs with 2 elongate filaments. Phylogenetic reconstructions by maximum-likelihood method, based on newly obtained partial 18S and 28S sequences, shows that *H. bullardi* n. gen. is included within the family Hexabothriidae, order Diclybothriidea. This is the second hexabothriid genus recorded from a diamond stingray (Dasyatidae), and the fourth hexabothriid species recorded from Peru. A key to hexabothriid genera is provided.

CAIRA, J.N. & JENSEN, K. & FYLER, C.A. (2018): A new genus of tapeworm (Cestoda: Onchoproteocephalidea) from sawfish (Elasmobranchii: Pristidae). *Journal of Parasitology, 104 (2): 133-144*

New genus: *Matticestus*

New species: *Matticestus anneae, Matticestus kathleenae*

Abstract: Collections from the dwarf sawfish, *Pristis clavata*, near Darwin, Australia in 1997 led to the discovery of the new onchoproteocephalidean genus *Matticestus* n. gen.—a taxon that has been referred to in molecular phylogenetic analyses in which it has been included as "New genus 8." Its type species, *Matticestus anneae* n. gen., n. sp., and a second species, *Matticestus kathleenae* n. sp. are described. Placement of this taxon in the Onchoproteocephalidea is supported morphologically in that both species bear a scolex with 4 bothridia each with a pair of bipronged hooks and spinitriches that extend throughout the length of the body. Sequence data for the D1-D3 region of the 28S rDNA gene also place the genus solidly among the other elasmobranch-hosted members of the order. The new genus differs from the other elasmobranch-hosted genera in the order in its possession of a combination of biloculated bothridia with lateral lappets on the posterior margin of the anterior loculus and a pair of bipronged hooks with a distinctive configuration of tubercles and internal channels. Its members are also extremely small. In summary, *Matticestus* n. gen. is an unusually tiny, "spiny," genus of cestode that appears to exclusively parasitize sawfish of the genus *Pristis*.

QUITERIO-RENDON, G. & MONKS, S. & PULIDO-FLORES, G. (2018): *Neonchocotyle violantei* n. sp (Monogenea, Hexabothriidae) from *Pseudobatos lentiginosus* (Rhinopristiformes, Rhinobatidae) of Yucatan, Gulf of Mexico. *Revista Brasileira De Parasitologia Veterinaria, 27 (1): 33-41*

New species: *Neonchocotyle violantei*

Abstract: *Neonchocotyle violantei* n. sp. (Monogenea: Hexabothriidae) infects the gill of the Atlantic guitarfish, *Pseudobatos lentiginosus* (Rhinopristiformes, Rhinobatidae) from littoral waters of Celestun, Yucatan, Mexico. It is assigned to *Neonchocotyle* because it has, among other features, an asymmetrical haptor, a seminal receptacle, a smooth ootype, and an egg with two elongate filaments. It differs from *Neonchocotyle pastinacae*, the only congener, by having a small body (821 long by 315 wide, length to width = 2.6:1), two pairs of microhooks between the haptoral appendix suckers, extracaecal (submarginal) vaginal pores, and 5-9 testes. This is the first record of a species of *Neonchocotyle* in the Gulf of Mexico, the first monogenean reported from *P. lentiginosus* in Mexico and the second species of Hexabothriidae reported from Mexico.

CUTMORE, S.C. & CRIBB, T.H. & YONG, R.Q.Y. (2018): Aporocotylids from batoid and elopomorph fishes from Moreton Bay, Queensland, Australia, including a new genus and species of blood fluke infecting the Giant shovelnose ray, *Glaucostegus typus* (Rhinopristiformes: Glaucostegidae). *Parasitology International, 67 (6): 768-775*

New genus: *Ogawaia*

New species: *Ogawaia glaucostegi*

Abstract: Fishes of the elasmobranch superorder Batoidea and the basal teleost superorder Elopomorpha were assessed for blood flukes (Digenea: Aporocotylidae) during a parasitological survey conducted in Moreton Bay, Queensland, Australia. A new blood fluke genus and species, *Ogawaia glaucostegi* n. gen., n. sp., is described from the Giant shovelnose ray, *Glaucostegus typus* (Anonymous [Bennett]) (Rhinopristiformes: Glaucostegidae). *Ogawaia glaucostegi* differs from species of all other aporocotylid genera in the combination of the absence of anterior caeca and oral sucker, having a pronounced distal oesophageal chamber, a strongly coiled testis and a common genital pore. The new species most closely resembles *Myliobaticola richardheardi* Bullard & Jensen, 2008, from which it differs in lacking an oral sucker and in possessing a straight (rather than coiled) oesophagus, longer caeca in proportion to the oesophageal and total body length, and a much longer testis relative to body length. *Ogawaia glaucostegi* is just the eighth aporocotylid described from chondrichthyans, of which four belong to monotypic genera. This is the first description of a blood fluke from the order Rhinopristiformes, and the first of a chondrichthyan-infecting aporocotylid from Australian waters. Elopicola bristowi Orelis-Ribeiro & Bullard, 2017 is reported from Australia for the first time, from the type-host, *Elops hawaiensis* Regan (Elopiformes: Elopidae). This species is identified by morphological and molecular data and distinctions between our specimens and those of the original description are discussed.

SCHAEFFNER, B.C. & MARQUES, F.P.L. (2018): Integrative taxonomy unravels the species diversity of *Parachristianella* (Cestoda : Trypanorhyncha) from both sides of the Panamanian isthmus. *Invertebrate Systematics, 32 (2): 278-318*

New species: *Parachristianella mendozai, Parachristianella kuchtai, Parachristianella campbelli, Parachristianella soldanovae, Parachristianella dollfusi*

Abstract: The uplift of the Panamanian isthmus in the Pliocene caused the termination of gene flow among members of many ancestral populations of marine lineages leading the diversification of geminate species confined to opposite sides of Central America. This palaeogeographical event has been evoked to explain the diversification of few lineages of batoids with trans-isthmian distribution. As such, there is the expectation that this vicariance event also affected lineages of parasites associated with them. Our study suggests that this event can explain the diversification of *Parachristianella*Dollfus, 1946 (Trypanorhyncha : Eutetrarhynchidae) in the Caribbean Sea and tropical eastern Pacific Ocean. We provide molecular, morphological and biogeographical evidence to recognise five lineages within this genus inhabiting the coastal waters of Panama, including *P. parva* Campbell & Beveridge, 2007 and four new species: *P. mendozai*, sp. nov., *P. kuchtai*, sp. nov., *P. campbelli*, sp. nov. and *P. soldanovae*, sp. nov. These species can be diagnosed by unambiguous sets of molecular characters. The morphological cohesiveness of sister species, which most likely diverged from around 3 million years ago through the uplift of the Panamanian isthmus, suggests that the traditional emphasis on the tentacular armature to circumscribe species within trypanorhynchs might underestimate the diversity of recently diverged lineages.

CHERO, J.D. & CRUCES, C.L. & SÁEZ, G. & LUQUE, J.L. (2018): A new genus and species of the Dasybatotreminae Bychowsky, 1957 (Monogenea: Monocotylidae), parasitic on *Hypanus dipterurus* (Jordan & Gilbert) (Myliobatiformes: Dasyatidae) in the Southeastern Pacific Ocean off Peru. *Zootaxa, 4527 (3): 347–356*

New genus: *Peruanocotyle*

New species: *Peruanocotyle chisholmae*

Abstract: *Peruanocotyle* n. gen. is proposed to accommodate *Peruanocotyle chisholmae* n. sp. (Monogenea: Monocotylidae). The new species is a gill parasite of the diamond stingray, *Hypanus dipterurus* (Jordan & Gilbert) (Myliobatiformes: Dasyatidae), a demersal chondrichthyan collected off the coast of Callao, Peru. *Peruanocotyle* n. gen. is placed in the Dasybatotreminae Bychowsky, 1957 because its anterior attachment organ has multiple glandular openings. *Peruanocotyle chisholmae* n. gen., n. sp. is unique among the Dasybatotreminae, by having: a well-developed, broadly ovoid anterior attachment organ with numerous grooves and an anteromedial notch; three prominent anterior glands that are connected to numerous peripheral glands; an unusual whip-shaped male copulatory organ composed of four connate tubes; an ejaculatory duct with slightly sclerotized walls where the proximal end has criss-crossed creases and the distal portion is highly convoluted; an ejaculatory bulb with one bipartite internal seminal vesicle; a wheel-shaped haptor with one central loculus and eight peripheral loculi; anchors that are much shorter than the width of marginal membrane and have an accessory sclerotized piece present; four oval testes, arranged in two groups; an ovary that has six clavate, proximal lobules and a distal portion that is strongly coiled; intestinal ceca with large lateral and medial diverticula; an oral opening surrounded by numerous small dome-like papillae; and a single vagina with sclerotized walls. Dasybatotreminae is amended to accommodate the new genus, and the new species is fully described and illustrated herein. The present finding adds to the other three marine monocotylids previously reported from Peru, namely *Anoplocotyloides chorrillensis* Luque & Iannacone, 1991; *Anoplocotyloides papillatus* (Doran, 1953) Young, 1967 and *Monocotyle luquei* Chero, Cruces, Iannacone, Sanchez, Minaya, Sáez & Alvariño, 2016.

CRUZ-QUINTANA, Y. & CAÑA-BOZADA, V. & SUÁREZ-MORALES, E. & SANTANA-PIÑEROS, A.M. (2018): A new species of *Pupulina* van Beneden, 1892 (Copepoda, Siphonostomatoida, Caligidae) from *Aetobatus* cf. *narinari* (Pisces, Myliobatidae) from the Pacific coast of Ecuador. *ZooKeys, 777: 1-16*

New species: *Pupulina mantensis*

Abstract: A new caligid copepod species, *Pupulina mantensis* sp. n. is described based on female and male specimens collected from the gills of the myliobatid elasmobranch *Aetobatus* cf. *narinari* Euphrasen, 1790 captured off the Pacific coast of Ecuador. The new species has a unique combination of characters that diverges from its known congeners, including: (i) weakly developed posterolateral processes on the genital complex; (ii) large spines on posterior surface of maxilliped basis (iii) abdomen slender, unsegmented, approximately 1/2 length and 1/5 width of genital complex; (iv) third exopodal segment of leg II with single long naked spine adjacent to minute, naked lateral spine; (v) velum of leg II with adjacent patch of denticles; (vi) caudal rami slightly less than half the length of genital complex; (vii) post-antennal process with robust, posteriorly directed tine, sclerotized stump posterolaterally, and two multi-sensillate papillae located on or near base of process (viii) post-oral process oval. The overall prevalence of *P. mantensis* sp. n. on its host was 37.5% and its mean abundance was 1.87 specimens per host. This is the second record of the genus *Pupulina* from Ecuador and the second record of *Pupulina* infecting rays of the Myliobatinae genus *Aetobatus*, of the subfamily Myliobatinae, after its discovery on *A. ocellatus* in Australia, thus confirming this expansion of its previously known host range to a new elasmobranch subfamily.

COLEMAN, G.M. & BEVERIDGE, I. & CAMPBELL, R.A. (2018): New species of *Rhinebothrium* Linton, 1890 (Cestoda: Rhinebothriidea) parasitic in Australian stingrays (Elasmobranchii: Batoidea). *Systematic Parasitology, in press*

New species: *Rhinebothrium dasyatidis, Rhinebothrium bunburyense, Rhinebothrium vandiemeni, Rhinebothrium fluviorum, Rhinebothrium urolophi, Rhinebothrium nickoli, Rhinebothrium fungiforme*

Abstract: Seven new species of the cestode genus *Rhinebothrium* Linton, 1890 are reported from the spiral intestines of batoid elasmobranchs from the coasts of Australia. The new species are: *Rhinebothrium dasyatidis* n. sp. from the smooth stingray *Bathytoshia brevicaudata* (Hutton) from Spencer Gulf, South Australia; *Rhinebothrium bunburyense* n. sp. from the southern eagle ray, *Myliobatis tenuicaudatus* Hector from off Bunbury, Western Australia; *Rhinebothrium vandiemeni* n. sp. from the reticulate whipray, *Himantura australis* Last, Naylor & Manjaji-Matsumoto from off Cape van Diemen, Northern Territory; *Rhinebothrium fluviorum* n. sp. from the estuary stingray, *Hemitrygon fluviorum* (Ogilby) from Moreton Bay, Queensland; *Rhinebothrium urolophi* n. sp. from the wide stingaree *Urolophus expansus* McCulloch from off Beachport, South Australia; *Rhinebothrium nickoli* n. sp. from the brown whipray *Maculabatis toshi* (Whitley) and the reticulate whipray, *Himantura australis* Last, Naylor & Manjaji-Matsumoto, from Nickol Bay, Western Australia and from the white-spotted guitarfish *Rhynchobatus australiae* (Whitley) from off Broome, Western Australia and *Rhinebothrium fungiforme* n. sp. from the estuary stingray, *Hemitrygon fluviorum* (Ogilby) from Fog Bay in the Northern Territory.

DEDRICK, E.A. & REYDA, F.B. & IWANYCKYJ, E.K. & RUHNKE, T.R. (2018): Two new species of *Stillabothrium* (Cestoda: Rhinebothriidea) from stingrays of the genus *Fontitrygon* from Senegal. *Folia Parasitologica, 65: 014*

New species: *Stillabothrium allisonae, Stillabothrium charlotteae*

Abstract: Morphological and molecular analyses of cestode specimens collected during survey work of batoid elasmobranchs and their parasites in Senegal revealed two new species of the rhinebothriidean cestode genus *Stillabothrium* Healy et Reyda 2016. *Stillabothrium allisona*e Dedrick et Reyda sp. n. and *Stillabothrium charlotteae* Iwanyckyj, Dedrick et Reyda sp. n. are both described from *Fontitrygon margaritella (*Compagno et Roberts) and *Fontitrygon margarita* (Günther). Both new cestode species overlap in geographic distribution, host use and proglottid morphology, but are distinguished from each other, and from the other seven described species of *Stillabothrium*, on the basis of their pattern of bothridial loculi. Phylogenetic analyses based on sequence data for 1,084 bp from the D1–D3 region of 28S rDNA that included multiple specimens of both new species and eight other species of *Stillabothrium* corroborated the morphologically-determined species boundaries. The phylogenetic analyses indicate that *S. allisonae* sp. n. and *S. charlotteae* sp. n. are sister species, a noteworthy pattern given that the two species of the stingray genus *Fontitrygon* they both parasitise, *F. margaritella* and *F. margarita*, are also sister species. Although species of *Stillabothrium* vary widely in their patterns of facial loculi, the variation does not appear to correlate with phylogeny. Most species of *Stillabothrium* parasitise myliobatiform elasmobranch genera of the Dasyatidae Jordan. This study brings the

number of described species of *Stillabothrium* to nine, three of which occur in the eastern Atlantic, two of which occur off the northern coast of Australia, and four of which are from coastal Borneo.

CUTMORE, S.C. & CRIBB, T.H. & BENNETT, M.B. & BEVERIDGE, I. (2018): Tetraphyllidean and onchoproteocephalidean cestodes of elasmobranchs from Moreton Bay, Australia: description of two new species and new records for seven described species. *Systematic Parasitology, 95 (8-9): 807–827*

New species: *Yorkeria williamsi. Yorkeria moretonensis*

Abstract: Parasitological examination of elasmobranchs of Moreton Bay, Queensland, Australia, resulted in the discovery of cestodes belonging to several armed genera of the Tetraphyllidea and Onchoproteocephalidea. Two new tetraphyllideans, *Yorkeria moretonensis* n. sp. and *Yorkeria williamsi* n. sp., are described from *Chiloscyllium* cf. *punctatum* (Hemiscylliidae). *Yorkeria moretonensis* n. sp. differs from its congeners in the possession of vitelline follicles that are discontinuous in the region of the ovary and in the length of its pedicels. *Yorkeria williamsi* n. sp. is most similar to *Y. parva* Southwell, 1927, but has larger, oval bothridia, longer pedicels and differences in the sizes of the scolex hooks. *Yorkeria longstaffae* Caira, Jensen & Rajan, 2007 is reported from Moreton Bay for the first time, and S*piniloculus mavensis* Southwell, 1925 is re-reported from the type-locality and likely type-host (Moreton Bay and *Chiloscyllium* cf. *punctatum*, respectively), over 90 years after its original description. Six known onchoproteocephalideans, *Acanthobothrium cannoni* Campbell & Beveridge, 2002, *A. chisholmae* Campbell & Beveridge, 2002, *A. ocallaghani* Campbell & Beveridge, 2002, *A. margieae* Fyler, 2011, *Megalonchos shawae* Caira, Reyda & Mega, 2007 and *M. sumansinghai* Caira, Reyda & Mega, 2007, are reported from Moreton Bay for the first time, representing significant range extensions for all species.

3.5 Distribution

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4. Index (Genera only)