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

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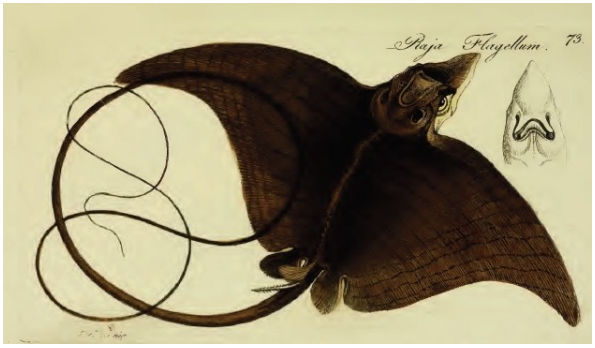
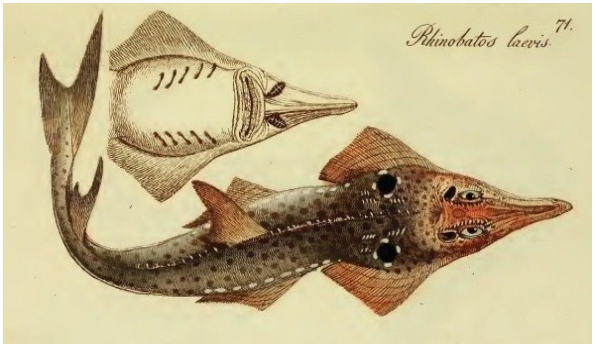
ISSN: 2195-6499





Abstract: This collection is the result of research in numerous journals, books and online publications. It contains 721 citations of papers about living/fossil sharks, rays and chimaeras (Chondrichtyes: Elasmobranchii, Holocephali) and a list of 2013 new described species and parasites of elasmobranchs.

Notice:
This paper is intended to be consulted for advice and information. This information has been compiled to the best of my abilities based on current knowledge and practice, however, please note that possible errors cannot be altogether/entirely excluded.

Citation:
Pollerspöck, J. (2014), Bibliography database of living/fossil sharks, rays and chimaeras (Chondrichtyes: Elasmobranchii, Holocephali) - Papers of the year 2013 -, www.shark-references.com, World Wide Web electronic publication, Version 01/2014; **ISSN: 2195-6499**

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1. Fossil

1.1 Papers

1.1.1 Complete list (arrange in alphabetical order)

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1.2 Abstracts

1.2.1 Complete list (arrange in alphabetical order)

ADNET, S. & CAPPETTA, H. & MORRISON, K. (2013): A Giant frilled shark from the Late Cretaceous of Western Canada. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes - Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 5*
CARRILLO-BRICEÑO, J.D. (2013): Chondrichthyans from the Upper Cretaceous of Venezuela: Diversity and Palaeobiogeographic implications. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes - Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 13*

COOK, T.D. & SIVERSON, M. & NEWBREY, M.G. & WILSON, M.V.H. (2013): Ontogenetic variation in the dentition of a new anacoracid shark from the Haycock Marl (Latest Cenomanian) of Western Australia. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes - Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 16*

CUNY, G. & LIARD, R. & DEESRI, U. & LIARD, T. & KHAMHA, S.& SUTEETHORN, V. (2013): Freshwater hybodont sharks from the Late Jurassic - Early Cretaceous of Northeastern Thailand: stratigraphical and palaeobiogeographical implications. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes - Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 18*

ENAULT, S. (2013): New look on the adaptive radiation of mesozoic batoids, inferences from teeth microstructure. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes - Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 23*

GARCÍA, E.X.M. & BALBINO, A.C. & ANTUNES, M.T. & RUIZ, F. & CIVIS, J. & SÁNCHEZ, M.M. & ABAD, M. & TOSCANO, A. & GONZÁLEZ REGALADO, M.L. (2013): Los Hexanchiformes del Plioceno inferior de Huelva Cuenca del Guadalquivir Espana. Abstract. *In. Programa y resúmenes, VIII Congreso Latinoamericano de Paleontología, Mexico: 49-50*

GOTO, M. (2013): Tooth evolution and adaptation of elasmobranchs. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes - Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 28*

GREGOROVA, R. (2013): Sphenodus Agassiz (Neoselachii, Synechodontiformes, Oxfordian) from the Hady Hill in Brno, Czech Republic - A preliminary Report. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes - Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 32*

GUINOT, G. & CAPPETTA, H. & ADNET, S. (2013): A rare Valanginian elasmobranch assemblage and its bearing on Mesozoic chondrychthan diversity. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes - Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 34*

IVANOV, A.O. (2013): Phoebodont-like teeth from the Triassic of Europe. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes - Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 35*

KOGAN, I. & FISCHER, J. & VOIGT, S. & SCHNEIDER, J.W. & SPINDLER, F. (2013): The ichthyofauna of the non-marine Triassic Madygen Formation (Southwest Kyrgyzstan, Central Asia). Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes - Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 40*

KOOT, M.B. & ROMANO, C. & TWITCHETT, R.J. & CUNY, G. & HART, M.B. (2013): Diversity dynamics in the global Permian-Triassic chondrichthyan fauna: taxonomic diversity, palaeoecology and distribution. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes - Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 41*

LAURINI, C.R. & DE CARVALHO, M.R. (2013): A new look at Rhinobatiformes (Chondrichthyes) from Araripe, Lower Cretaceous of NE Brazil. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes – Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 45*

NEWBREY, M.G. & COOK, T.C. & BRINKMAN, D.B. & NEUMAN, A.G. & SANCHEZ, R. & TANKE, D. (2013): A partial orectolobiform skeleton from the Freshwater Scollard Formation (Maastrichtian), Alberta, Canada. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes – Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 53*

PFEIL, F.H. (2013): Two well preserved Upper Cretaceous sharks from Lebanon … and many questions. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes – Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 55*

POPOV, E.V. (2013): A revision of the chimaeroid genus Elasmodus Egerton, 1843 (Holocephali: Chimaeroidei). Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes – Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 57*

POPOV, E.V. & DUFFIN, C. & TISCHLINGER, H. & ATUCHIN, A. (2013): Reconstructions of the German Plattenkalk (Late Jurassic) chimaeroid fishes (Holocephali, Chimaeroidei). Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th International Meeting on Mesozoic Fishes – Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 56*

TOMITA, T. (2013): Intermittent swimming lifestyle in hybodontid sharks, reconstructed on the basis of gill arch and caudal fin morphologies. Abstract. *In: SCHWARZ, C. & KRIWET, J. (editors): 6th*

International Meeting on Mesozoic Fishes – Diversification and Diversity Patterns, Vienna, Austria August 4th-10th, 2013: 66

2. Rezent

2.1 Papers

2.1.1 Complete list (arrange in alphabetical order)

ABERCROMBIE, D.L. & CHAPMAN, D.D. & GULAK, S.J.B. & CARLSON, J.K. (2013): Visual Identification of Fins from Common Elasmobranchs in the Northwest Atlantic Ocean. *NOAA Technical Memorandum NMFS-SEFSC-643: 51pp*

ACUÑA-MARRERO, D. & ZIMMERHACKEL, J.S. & MAYORGA, J. & HEARN, A. (2013): First record of three shark species, Odontaspis ferox, Mustelus albipinnis and Centrophorus squamosus, from the Galápagos Islands. *Marine Biodiversity Records, 6: e87* http://dx.doi.org/10.1017/S1755267213000596

AGNESE, M. & VALIANTE, S. & LAFORGIA, V. & ANDREUCCETTI, P. &PRISCO, M. (2013): Cellular Localization of PACAP and Its Receptors in the Ovary of the Spotted Ray Torpedo marmorata Risso 1880 (Elasmobranchii: Torpediniformes). *Journal of Experimental Zoology Part A: Ecological Genetics and Physiology, 319 (1): s 1-9* http://dx.doi.org/10.1002/jez.1764

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AJEMIAN, M.J. & POWERS, S.P. (2013): Foraging effects of cownose rays (Rhinoptera bonasus) along barrier islands of the northern Gulf of Mexico. *Journal of Experimental Marine Biology and Ecology, 439: 119-128* http://dx.doi.org/10.1016/j.jembe.2012.10.021

AKHILESH, K.V. & BINEESH, K.K. & GANGA, U. & PILLAI, N.G.K. (2013): Report of crocodile shark Pseudocarcharias kamoharai (Pseudocarchariidae) from deep waters off the south-west coast of India. *Marine Biodiversity Records, 6: e99* http://dx.doi.org/10.1017/S1755267213000778

AKHILESH, K.V. & BINEESH, K.K. & GANGA, U. & PILLAI, N.G.K. (2013): Report of velvet dogfish, Zameus squamulosus (Günther, 1877) (Somniosidae: Squaliformes) from Indian waters. *Indian Journal of Fisheries, 60 (3): 127-129*

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AVENDAÑO-ALVAREZ, J. & PÉREZ-ESPAÑA, H. & SALAS-MONREAL, D. & GARCÍA-RODRÍGUEZ, E. (2013): Captures and Diet of Three Sharks Species in the Veracruz Reef System. *Open Journal of Marine Science, 3 (2): 66-73* http://dx.doi.org/10.4236/ojms.2013.32008
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BA, A. & DIOP, M.S. & DIATTA, Y. & JUSTINE, D. & BA, C.T. (2013): Diet of the milk shark, Rhizoprionodon acutus (Chondrichthyes: Carcharhinidae), from the Senegalese coast. *Journal of Applied Ichthyology, 29 (4): 789-795* http://dx.doi.org/10.1111/jai.12156
BAKER, C.V.H. & MODRELL, M.S. & GILLIS, J.A. (2013): The evolution and development of vertebrate lateral line electroreceptors. *Journal of Experimental Biology, 216 (14): 2515-2522* http://dx.doi.org/10.1242/jeb.082362
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BARBINI, S.A. & SCENNA, L.B. & FIGUEROA, D.E. & DÍAZ DE ASTARLOA, J.M. (2013): Effects of intrinsic and extrinsic factors on the diet of Bathyraja macloviana, a benthophagous skate. *Journal of Fish Biology, 83 (1): 156-169* http://dx.doi.org/10.1111/jfb.12159
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BARNETT, A. & YICK, J.L. & ABRANTES, K.G. & AWRUCH, C.A. (2013): Trophic ecology of an abundant predator and its relationship with fisheries. *Marine Ecology Progress Series, 494: 241-248* http://dx.doi.org/10.3354/meps10577

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BARRERA-GARCÍA, A. & O'HARA, T. & GALVÁN-MAGAÑA, F. & MÉNDEZ-RODRÍGUEZ, L.C. & CASTELLINI, J.M. & ZENTENO-SAVÍN, T. (2013): Trace elements and oxidative stress indicators in the liver and kidney of the blue shark (Prionace glauca). *Comparative Biochemistry and Physiology - Part A, Molecular & Integrative Physiology, 165(4): 483-490* http://dx.doi.org/10.1016/j.cbpa.2013.01.024

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BECKMANN, C.L. & MITCHELL, J.G. & SEURONT, L. & STONE, D.A.J. & HUVENEERS, C. (2013): Erratum: Experimental Evaluation of Fatty Acid Profiles as a Technique to Determine Dietary Composition in Benthic Elasmobranchs (vol 86, pg 266, 2013). *Physiological and Biochemical Zoology, 86 (3): 383* http://dx.doi.org/10.1086/670758

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WHITE, J. & SIMPFENDORFER, C.A. & TOBIN, A.J. & HEUPEL, M.R. (2013): Application of baited remote underwater video surveys to quantify spatial distribution of elasmobranchs at an ecosystem scale. *Journal of Experimental Marine Biology and Ecology, 448: 281–288* http://dx.doi.org/10.1016/j.jembe.2013.08.004

WHITE, W.T. & EBERT, D.A. & NAYLOR, G.J.P. & HO, H.-C. & CLERKIN, P. & VERÍSSIMO, A. & COTTON, C.F. (2013): Revision of the genus Centrophorus (Squaliformes: Centrophoridae): Part 1—Redescription of Centrophorus granulosus (Bloch & Schneider), a senior synonym of C. acus Garman and C. niaukang Teng. *Zootaxa, 3752: 35-72* http://dx.doi.org/10.11646/zootaxa.3752.1.5

WHITE, W.T. & FURUMITSU, K. & YAMAGUCHI, A. (2013): A New Species of Eagle Ray Aetobatus narutobiei from the Northwest Pacific: An Example of the Critical Role Taxonomy Plays in Fisheries and Ecological Sciences. *PLoS ONE, 8 (12): e83785* http://dx.doi.org/10.1371/journal.pone.0083785

WHITE, W.T. & HARRIS, M. (2013): Redescription of Paragaleus tengi (Chen, 1963) (Carcharhiniformes: Hemigaleidae) and first record of Paragaleus randalli Compagno, Krupp & Carpenter, 1996 from the western North Pacific. *Zootaxa, 3752: 172-184* http://dx.doi.org/10.11646/zootaxa.3752.1.10

WHITE, W.T. & LAST, P.R. (2013): Notes on shark and ray types at the South China Sea Fisheries Research Institute (SCSFRI) in Guangzhou, China. *Zootaxa, 3752: 228-248* http://dx.doi.org/10.11646/zootaxa.3752.1.14

WHITE, W.T. & MOORE, A.B.M. (2013): Redescription of Aetobatus flagellum (Bloch & Schneider, 1801), an endangered eagle ray (Myliobatoidea: Myliobatidae) from the Indo-West Pacific. *Zootaxa, 3752: 199-213* http://dx.doi.org/10.11646/zootaxa.3752.1.12

WILKINSON, K. (2013): An analysis of shark bite scars on the Sarasota Bay resident bottlenose dolphin community and implications for habitat use. *Nick n Notches: 21*

WILLEMS, T. & DEPESTELE, J. & DE BACKER, A. & HOSTENS, K. (2013): By-catch of rays in the trawl fishery for Atlantic seabob shrimp Xiphopenaeus kroyeri in Suriname: How effective are TEDs and BRDs? *ILVO Mededeling, 139: 22pp*

WILLIAMS, L.J. & CAMPBELL, M.D. & TSANG, P.C.W. & SULIKOWSKI, J.A. (2013): Using estradiol and progesterone concentrations to assess individual variability in the reproductive cyclicity of captive female little skates, Leucoraja erinacea, from the western Gulf of Maine. *Fish Physiology and Biochemistry, 39 (5): 1089-1099* http://dx.doi.org/10.1007/s10695-012-9766-2

WIRTZ, P. & BRITO, A. & FALCÓN, J.M. & FREITAS, R. & FRICKE, R. & MONTEIRO, V. & REINER, F. & TARICHE, O. (2013): The coastal fishes of the Cape Verde Islands – new records and an annotated check-list (Pisces). *Spixiana, 36 (1): 113-142*

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WOOD, C.M. & LIEW, H.J. & DE BOECK, G. & WALSH, P.J. (2013): A perfusion study of the handling of urea and urea analogues by the gills of the dogfish shark (Squalus acanthias). *PeerJ, 1: e33* http://dx.doi.org/10.7717/peerj.33

WORM, B. & DAVIS, B. & KETTEMER, L. & WARD-PAIGE, C.A. & CHAPMAN, D. & HEITHAUS, M.R. & KESSEL, S.T. & GRUBER, S.H. (2013): Global catches, exploitation rates, and rebuilding options for sharks. *Marine Policy, 40: 194-204* http://dx.doi.org/10.1016/j.marpol.2012.12.034
WOSNICK, N. & FREIRE, C.A. (2013): Some euryhalinity may be more common than expected in marine elasmobranchs: The example of the South American skate Zapteryx brevirostris (Elasmobranchii, Rajiformes, Rhinobatidae). *Comparative Biochemistry and Physiology - Part A, Molecular & Integrative Physiology, 166: 36-43* http://dx.doi.org/10.1016/j.cbpa.2013.05.002
XYDES, A. & MOLINE, M. & LOWE, C.G. & FARRUGIA, T.J. & CLARK, C. (2013): Behavioral characterization and Particle Filter localization to improve temporal resolution and accuracy while tracking acoustically tagged fishes. *Ocean Engineering, 61: 1–11* http://dx.doi.org/10.1016/j.oceaneng.2012.12.028
YAGLIOGLU, D. & TURAN, C. & GURLEK, M. (2013): On the occurrence of the giant devil ray Mobula mobular (Bonnaterre, 1788) from the Mediterranean coast of Turkey – a by-catch documentation. *Journal of Applied Ichthyology, 29 (4): 935-936* http://dx.doi.org/10.1111/jai.12205
YAMANE, K. & YAGAI, T. & NISHIMIYA, O. & SUGAWARA, R. & AMANO, H. & FUJITA, T. & HIRAMATSU, N. & TODO, T. & MATSUBARA, T. & HARA, A. (2013): Characterization of vitellogenin and its derived yolk proteins in cloudy catshark (Scyliorhinus torazame). *Fish Physiology and Biochemistry, 39 (2): 373-390* http://dx.doi.org/10.1007/s10695-012-9706-1
YANG, B. & ZHANG, J. & YAMAGUCHI, A. & ZHANG, B. (2013): Mitochondrial genome of Dasyatis bennettii (Chondrichthyes: Dasyatidae). *Mitochondrial DNA, 24 (4): 344-346* http://dx.doi.org/10.3109/19401736.2012.760552
YELDAN, H. & AVŞAR, D. & MAVRUK, S. & MANAŞIRLI, M. (2013): Temporal changes in some Rajiformes species of cartilaginous fish (Chondrichthyes) from the west coast of İskenderun Bay (northeastern Mediterranean). *Turkish Journal of Zoology, 37: 693-698* http://dx.doi.org/10.3906/zoo-1208-17
YIGIN, C.C. & ISMEN, A. (2013): Reproductive Biology of Spiny Dogfish Squalus acanthias, in the North Aegean Sea. *Turkish Journal of Fisheries and Aquatic Sciences, 13: 169-177* http://dx.doi.org/10.4194/1303-2712-v13_1_20
YOKOTA, L. & GOITEIN, R. & GIANETI, M.D. & LESSA, R. T.P. (2013): Diet and feeding strategy of smooth butterfly ray Gymnura micrura in northeastern Brazil. *Journal of Applied Ichthyology, 29 (6): 1325–1329* http://dx.doi.org/10.1111/jai.12213
ZHANG, J. & LIU, Y. & ZHANG, X. & PAN, J. & NIE, Z. & ZHANG, W. & YU, W. & CHEN, J. & LIU, L. & LI, J. & ZHANG, Y. & GUO, J. & WU, W. & ZHU, H. & LV, Z. (2013): The identification of microRNAs in the whitespotted bamboo shark (Chiloscyllium plagiosum) liver by Illumina sequencing. *Gene, 527 (1): 259-265* http://dx.doi.org/10.1016/j.gene.2013.06.012
ZHANG, V. & DU PASQUIER, L. & HSU, E. (2013): Shark IgW C Region Diversification through RNA Processing and Isotype Switching. *Journal of Immunology, 191 (6): 3410-3418* http://dx.doi.org/10.4049/jimmunol.1301257
ZHOU, S. & TONG, L. & TANG, Q. & GU, X. & XUE, B. & LIU, W. (2013): Residues, sources and tissue distributions of organochlorine pesticides in dog sharks (Mustelus griseus) from Zhoushan Fishing Ground, China. *Marine Pollution Bulletin, 73 81): 374-380* http://dx.doi.org/10.1016/j.marpolbul.2013.05.035

2.2 Abstracts

2.2.1 Complete list (arrange in alphabetical order)

BALABAN, J.B. & SUMMERS, A.P. & WILGA, C.A.D. (2013): Mechanical Properties of a Shark Jaw Support Structure. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E9*
BEDORE, C.N. & MCCOMB, D.M. & FRANK, T.F. & HUETER, R.E. & KAJIURA, S.M. (2013): Effects of temperature and anesthesia on visual temporal resolution in elasmobranch fishes. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E12*
BLACK, M.P. & GROBER, M. & SCHREIBER, C. & COCO, C. & DOVE, A. (2013): Whale shark (Rhincodon typus) behavior: A multi-year analysis of individuals at Georgia Aquarium. Abstract. *PeerJ PrePrints, 1: e88v1*

BLEVINS, E.L. (2013): Structure-function relationships in the pectoral fin of freshwater stingray Potamotrygon orbignyi. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E18*
BLUEMEL, J.K. & FRENCH, G.C. & ROWAT, D. (2013): An aerial view: Insights into the effects of ecotourism on the behavior of whale sharks (Rhincodon typus) in Seychelles. Abstract. *PeerJ PrePrints, 1:e103v1*
CAPIETTO, A. & CHAVANCE, P. & PIANET, R. & DE MOLINA, A.D. & MURUA, H. & FLOCH, L. & DAMIANO, A. & MERIQOT, B. (2013): Hotspots of interactions between whale sharks, marine mammals and tropical tuna purse seine fishery in the Indian and Atlantic Oceans. Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 149*
CAVE, E.J. & GUNN, T. & BEDORE, C.N. & KAJIURA, S.M. & KERSTETTER, D.W. (2013): Sexual dimorphism in the dentition of pelagic stingrays, Pteroplatytrygon violacea. Abstract-Poster *Integrative and Comparative Biology, 53 (Suppl. 1): E260*
CORRIGAN, S. & STRAUBE, N. & LI, C. & ROCHEL, E. & ROSANA, K. & NAYLOR, G.J.P. (2013): Jaws for the Tree of Life: Taxon-rich estimates of chondrichthyan phylogeny based on mitochondrial and nuclear DNA markers. Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 22*
COSCIA, M.R. & COCCA, E. & GIACOMELLI, S. & CUCCARO, F. & ORESTE, U. (2013): Investigations on immunoglobulin from Antarctic skates. Abstract. *Fish & Shellfish Immunology, 34 (6): 1702*
CRISWELL, K.E. & FINARELLI, J.A. & FRIEDMAN, M. & GARWOOD, R. & COATES, M. (2013): Deltoptychius: investigating the roots of the chimaeroid cranial condition. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E43*
DE CARVALHO, M.R. & SOARES, M.C. & LAURINI, C.R. & DA SILVA, J.P.C.B. & VAZ, D.F.B. & VIANA, S.T.F. & LOBODA, T. & DA SILVA, J.P.F.A.F. & RAGNO, M.P. & PETEAN, F.F. & SHIBUYA, A. & YOKOTA, L. & CARVALHO, M. & MINELLI, J.B. & SOARES, W. & CASAS, A. & MOREIRA, R.A. & GOMES, U.L. (2013): Phylogenetic relationships among major groups of living elasmobranchs: a morphological perspective Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 25*
DE FIGUEIREDO, S.T.V. & DE CARVALHO, M.R. & RAMOS, S.G.A.C. & GOMES, U.L. (2013): Cranial morphology of Cirrhigaleus asper (Merrett, 1973) and its implications for the systematics of the family Squalidae (Chondrichthyes: Squaliformes). Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 26*
DE LA PARRA, R. & DOVE, A.D. & GALVÁN, B. (2013): Whale shark behaviors observed in northeastern Quintana Roo, Mexico. Abstract. *PeerJ PrePrints, 1:e132v1*
DEPEW, M.J. & COMPAGNUCCI, C. & FISH, J. & DEBIAIS, M. & COOLON, M. & BERTOCCHINI, F. & CASANE, D. & MAZAN, S. (2013): Pattern and Polarity in the Development and Evolution of the Gnathostome Jaw: Both Conservation and Heterotopy in the Branchial Arches of the Shark, Scyliorhinus canicula. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E51*
ESPINOZA, M. & HEUPEL, M.R. & SIMPFENDORFER, C.A. (2013): Predicting MPA utilization for reef-associated sharks: an individual-based simulation approach. Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 150*
FISH, F.E. & NEAL, D. & FONTANELLA, J.E. & DINENNO, N. & GABLER, M.K. (2013): Flow patterns associated with swimming motions of benthic and pelagic batoids as visualized with DPIV. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E69*
FRENCH, G.C. & BLUEMEL, J.K. & ROWAT, D. (2013): Developing appropriate conservation measures for the seasonal whale shark feeding aggregation in Seychelles using ecological modeling tools. Abstract. *PeerJ PrePrints, 1:e125v1*
GABLER, M.K. & FISH, F.E. & BENESKI, J.T. & MULVANY, S. & MOORED, K.W. (2013): The hydrodynamics of ground effect in relation to the head shape of the spotted eagle ray. Abstract-Poster *Integrative and Comparative Biology, 53 (Suppl. 1): E286*
GALVAN, B.E. & FOX, S. & DE LA PARRA, R. (2013): Whale shark regional research collaboration between Utila, Honduras and Isla Mujeres, México. Abstract. *PeerJ PrePrints, 1:e133v1*
GARDINER, J.M. & ATEMA, J. & HUETER, R.E. & MOTTA, P.J. (2013): Sensory switching in sharks: the role of multimodal stimuli in prey tracking and capture. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E74*
GILLAND, E. & RAHMAT, S. (2013): Anatomy and development of brainstem vasculature in the spiny dogfish, Squalus acanthias. Abstract *FASEB Journal, 27 (Meeting Abstracts): 745.1*
HARRISON, L.R. & DULVY, N.K. & SIMPFENDORFER, C.A. & SAWFISH NETWORK (2013): Ghosts of the coast: A first step toward understanding the ecosystem role of sawfishes. Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 148*

HARTUP, J. & MARSHELL, A. & STEVENS, G. & KOTTERMAIR, M. & CARLSON, P. (2013): Marine megafauna, Manta alfredi target multispecies surgeonfish spawning aggregations as a food source. Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 147*

HUBER, D.R. & NOAKER, D.E. & STINSON, C.M. & TATE, E.E. & ANDERSON, P.A. & BERZINS, I.K. (2013): Etiology of spinal deformities in captive sandtiger sharks Carcharias taurus. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E97*

JOHN, J. & CHAMBERLAIN, J.A. & TAPPERO, R. (2013): Trace and Minor Element Chemistry of Modern Shark Teeth and Implications for Shark Tooth Geochronometry. Abstract. *Geological Society of America Abstracts with Programs, 45 (2): 72*

KILADZE, A.B. & CHERNOVA, O.F. (2013): Skin of the Sandbar Shark (Carcharhinus plumbeus Nardo, 1827): microstructure, properties and industrial use. (in Russian, with English abstract). *Moscow−Yaroslavl: IPK Litera Publishing House, ISBN: 978-5-904729-80-6, 2013, 40 p.*

KOLPAS, A. & FISH, F.E. & MEADE, A. & DUDAS, M.A. & MOORED, K.W. (2013): Mathematical analysis of three-dimensional open water maneuverability by mantas (Manta birostris). Abstract-Poster *Integrative and Comparative Biology, 53 (Suppl. 1): E312*

LASH, J.L. & SHERMAN, R. L. (2013): A Preliminary Comparative Study of Vascular Corrosion Casts of the Spiral Intestine of Select Acipenseriformes and Elasmobranchs. Abstract-Poster *Integrative and Comparative Biology, 53 (Suppl. 1): E315*

LAST, P.R. (2013): Rays: a guide to the world's fauna. Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 25*

LEVENSON, J. & WARE, C. & COOPER, R. & SLY, J. & WISE, D. & DE LA PARRA-VENEGAS, R. & DOVE, A. (2013): Visualizing habitat use and behavior of whale sharks using the open-tag, applications for ecotourism regulation. Abstract. *PeerJ PrePrints, 1:e145v1*

LI, C. & HOFREITER, M. & STRAUBE, N. & CORRIGAN, S. & NAYLOR, G.J.P. (2013): Capturing protein-coding genes across divergent species and its implication in evolutionary biology. Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 24*

LU, S. & ZHANG, N. & CHEN, R. & XIA, C. (2013): Crystal structure of nurse shark β2-microglobulin: Insights into the evolutionary origin of immunoglobulin superfamily constant. Abstract. *Fish & Shellfish Immunology, 34 (6): 1662*

MAISEY, J.G. & BALANOFF, A. & PRADEL, A. & NAYLOR, G.J.P. & CRAWFORD, C. & FUSSELL, T. (2013): Scanning and Segmentation of Chondrichthyan Skeletons for the Tree of Life: a Progress Report. Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 23*

MARSHALL, H.M. & BRILL, R. & BUSHNELL, P. & SKOMAL, G. & BERNAL, D. (2013): Comparison of fishing-induced stress response and post-release mortality between sandbar (Carcharhinus plumbeus) and dusky (Carcharhinus obscurus) sharks. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E137*

MARSHALL, L. (2013): Gould and Me and the Tree of Life: Illustrating the world's shark and ray species. Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 23*

MCKINNEY, J. & HOFFMAYER, E.R. & HOLMBERG, J. & GRAHAM, R. & DE LA PARRA, R. & GALVAN PASTORIZA, B. & FOX, S. & PIERCE, S. & DOVE, A.D.M. (2013): Regional connectivity of whale sharks demonstrated using photo-identification – Western Atlantic, 1999 - 2013. Abstract. *PeerJ PrePrints, 1: e98v1*

MCKINNEY, J.A. & HOFFMAYER, E.R. & FRANKS, J.S. & HENDON, J.M. & DRIGGERS, W.B. (2013): Seasonal habitat use of whale sharks in the northern Gulf of Mexico, USA 2003 - 2013. Abstract. *PeerJ PrePrints, 1: e93v1*

MENARD, F. & SIMIER, M. & POTIER, M. & MERIGOT, B. & ROMANOV, E. & BACH, P. (2013): Pelagic diversity highlighted by longline fisheries in the Indian Ocean. Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 149*

MERIGOT, B. & LAUGIER, F. & POTIER, M. & SIMIER, M. & MENARD, F. (2013): Functional diversity of large top predator fish community: monsoon matters in the Indian Ocean. Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 147*

MOORE, A.B.M. (2013): Shark nursery identification on a shoestring without getting wet: evidence for the regional importance of the threatened Tigris-Euphrates system to bull sharks. Abstract. *In: Progrtamm and Abstracts, 17. European Elasmobranch Association Conference (EEA), Plymouth*

MUNEVAR, C.L. & ROA, J.N. & TRESGUERRES, M. (2013): Acid and base secreting cells in leopard shark (Triakis semifasciata) gills: mitochondrial richness, ATPase specificity, and vacuolar H+ ATPase (VHA) translocation. Abstract. *FASEB Journal, 27 (Meeting Abstracts): 937.4*

NAYLOR, G.J.P. & CORRIGAN, S. & DAVIES, J. & HOFREITER, M. & LAST, P.R. & LI, C. & MAISEY, J. & MARSHALL, L. & STRAUBE, N. & WHITE, W.T. (2013): The Chondrichthyan Tree of Life Project. Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 22*

NOWINOWSKI, I. & BALABAN, J. & WILGA, C. (2013): Shape Changes in the Hyoid Arch of Four Shark Species. Abstract-Poster *Integrative and Comparative Biology, 53 (Suppl. 1): E344*

PAIG-TRAN, E.W.M. & SUMMERS, A.P. (2013): A filtration mechanism for large vertebrate suspension feeders: fluid flow and filter anatomy in the devil rays (Mantas and Mobulas). Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E160*

PORTER, M.E. & DIAZ, C. & LONG, J.H. (2013): Extracellular matrix dominates the mechanical properties of shark vertebral columns in bending. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E170*

RAMSAY, J.B. & WILGA, C.D. (2013): Preorbitalis and quadratomandibularis function during feeding in little skates, Leucoraja erinacea. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E175*

RYGG, A.D. & COX, J.P.L. & ABEL, R. & WEBB, A.G. & SMITH, N.B. & CRAVEN, B.A. (2013): The Hydrodynamics of Olfaction in the Hammerhead Shark (Sphyrna tudes). Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E187*

SICILIANO, A.M. & PORTER, M.E. & KAJIURA, S.M. (2013): Are you positive? Discrimination between poles of electric fields by elasmobranch fishes. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E198*

SIMPFENDORFER, C.A. & ESPINOZA, M. & HEUPEL, M.R. & TOBIN, A.J. (2013): The role of non-resident sharks in shaping coral reef communities. Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 148*

SODA, K.J. & SLICE, D.E. & NAYLOR, G.J.P. (2013): The use of geometric morphometrics and artificial neural networks to identify teeth to species in requiem sharks (Carcharhinus sp.). Abstract-Poster *Integrative and Comparative Biology, 53 (Suppl. 1): E372*

STRAUBE, N. & LI, C. & CORRIGAN, S. & NAYLOR, G.J.P. (2013): Molecular phylogeny of Squaliformes: targeted gene capturing methods allow insights into the phylogeny and evolution of dogfish sharks Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 24*

SUGIYAMA, I. & HORII, Y. & OHIZUMI, H. (2013): Relationship between diet composition of pelagic sharks and oceanographic condition around Hachijo Island, Izu Archipelago, Japan Abstract. *9th Indo-Pacific Fish Conference (IPFC), Abstracts: 150*

WEBB, J.F. & GILLIS, J.A. (2013): Lateral Line Morphogenesis in Chondrichthyan vs. Osteichthyan Fishes: New Perspectives on an Old Problem. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E223*

WEN, L. & LAUDER, G. & WEAVER, J.C. & KOVAC, M. & WOOD, R.J. (2013): Hydrodynamics of Self-propelling Flexible Synthetic Shark Skin Membranes. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E223*

WILGA, C. & SAKAI, S. (2013): Strain in the Hyomandibular Cartilage of Elasmobranchs. Abstract *Integrative and Comparative Biology, 53 (Suppl. 1): E225*

3. Database Reports

3.1 Species Descriptions -fossil-

BATCHELOR, T.J. (2013): A new species of Vectiselachos (Chondrichthyes, Selachii) from the Early Cretaceous of southern England. *Proceedings of the Geologists' Association, 124 (6): 967–972*
New Species: Vectiselachos gosslingi
Abstract: Teeth of a new species of hybodont shark Vectiselachos (Chondrichthyes: Lonchidiidae) are described from the late Aptian (Early Cretaceous) of southern England. Vectiselachos gosslingi sp. nov. has very distinctive coarse striations that form raised ridges over the occlusal surfaces of the crown.

CAPPETTA, H. & GAYET, M. (2013): A new elasmobranch genus (Myliobatiformes, Dasyatoidea) from the Danian of Potosí (Bolivia). *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen, 269 (3): 285-290* http://dx.doi.org/10.1127/0077-7749/2013/0351
New Genus: Potobatis
New Species: Potobatis semperei

Abstract: Potobatis semperei gen. et sp. nov. sp. (Myliobatiformes, Dasyatoidea) comes from a level located at the top of the section of the El Molino Formation at La Palca, near Potosí. This level is Danian in age according to magnetostratigraphic studies. Close to the African genus Hypolophites (Dasyatoidea, Dasyatidae) by its dental morphology, the new genus differs from the latter by its much smaller size and by its less specialized dentition. The palaeoenvironment was probably an estuarine or a mangrove area.

CASE, G.R. & CAPPETTA, H. (2013): Ewingia Case & Cappetta , 1997 (Chondrichthyes: Rajiformes), preoccupied by Ewingia pearse , 1929 (Insecta: Arachnida). *Neues Jahrbuch für Geologie und Paläontologie - Abhandlungen, 268 (1): 125-126* http://dx.doi.org/10.1127/0077-7749/2013/0320

New Genus: Tomewingia

CIONE, A.L. & TEJEDOR, M. & GOIN, F.J. (2013): A new species of the rare batomorph genus Hypolophodon (?latest Cretaceous to earliest Paleocene, Argentina). *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen, 267 (1): 1 - 8* http://dx.doi.org/10.1127/0077-7749/2012/0293

New Species: Hypolophodon patagoniensis

Abstract: Isolated teeth of a new species of the rare batomorph genus Hypolophodon were found in Paleocene beds of the Lefipán Formation (Maastrichtian-Paleocene) of southern Argentina. The new species H. patagoniensis differs from the type species H. sylvestris in the absence of an occlusal tranverse crest on the crown of unworn teeth and of a broad and rounded central uvula on the lingual face of the crown; and in the presence of a lower boundary of the enameloid smooth on all crown faces, many expanded basoapically striae on all sides of the root, and a deep root. It differs from the Eocene species H. dockery in the larger size, the less widely separated root branches, the presence of root foraminae or striae, the absence of uvula, and the deeper crown. The new species material, the two teeth from Jaguel Formation, and an indeterminate tooth of Hypolophodon from the Lower Cenozoic of Chile represent the sole records of the genus in the Southern Hemisphere. The shark fauna helped to date the bearing beds.

CLAESON, K.M. & UNDERWOOD, C.J. & WARD, D.J. (2013): †Tingitanius tenuimandibulus, a new platyrhinid batoid from the Turonian (Cretaceous) of Morocco and the cretaceous radiation of the Platyrhinidae. *Journal of Vertebrate Paleontology, 33 (5): 1019-1036* http://dx.doi.org/10.1080/02724634.2013.767266

New Genus: Tingitanius, Britobatos

New Species: Tingitanius tenuimandibulus

Abstract: An exceptionally well-preserved specimen of a batoid from the Turonian (Late Cretaceous) of Morocco has been named as †Tingitanius tenuimandibulus, sp. nov. The fossil has been identified as a member of the Platyrhinidae and represents the oldest known example of a thornback ray. Mechanical and acid preparation of the ventral surface has revealed the general body form of the specimen and permitted teeth and three morphotypes of dermal denticles to be extracted. Computed tomographic (CT) scanning of the chondrocranium and thoracic region has allowed the detailed study of the skeletal elements concealed within the rock. The phylogenetic position of the new specimen and implications for the phylogenetic positions of the 'rhinobatoids' are discussed. †Britobatos, gen. nov., is erected to accommodate †Raja primarmata which is here shown to be a sister taxon to the Platyrhinidae including †Tingitanius. It is likely that reassessment of isolated batoid teeth from the Cretaceous and Paleogene will confirm the former importance of the Platyrhinidae.

COOK, T.D. & WILSON, M.V.H. & MURRAY, A.M. & PLINT, A.G. & NEWBREY, M.G. & EVERHART, M.J. (2013): A high latitude euselachian assemblage from the early Turonian of Alberta, Canada. *Journal of Systematic Palaeontology, 11 (5): 555-587* http://dx.doi.org/10.1080/14772019.2012.707990

New Species: Odontaspis watinensis

Abstract: Numerous isolated euselachian teeth were recovered from the early Turonian Kaskapau Formation situated in northwestern Alberta, Canada. This high palaeolatitude assemblage was collected from a sandstone lens along the bank of the Smoky River, and includes 16 species belonging to at least three orders, at least 11 families, and 15 genera. Here we describe Odontaspis watinensis sp. nov. and report the first Canadian occurrence of Polyacrodus sp., Scapanorhynchus sp., and Carcharias aff. C. striatula. The scarcity of benthic taxa in this assemblage supports the previous notion that bottom waters in this region of the Western Interior Seaway experienced enduring anoxic episodes. By comparing the faunal composition of this assemblage with that of middle Cenomanian Canadian assemblages, we show that seven species have a biostratigraphical range that extended across the Cenomanian-Turonian boundary in the northern region of the seaway. Of the taxa described herein, Archaeolamna ex. gr. kopingensis, Cardabiodon aff. C. ricki, Carcharias aff. C.

striatula, Odontaspis watinensis, and Johnlongia parvidens have not been reported from deposits of the southernmost region of the seaway and may have been restricted to cooler waters.

ELLIOTT, D.K. & HODNETT, J.-P.M. (2013): A New Species of Bransonella (Chondrichthyes, Xenacanthimorpha, Bransonelliformes) from the Middle Permian Kaibab Formation of Northern Arizona. *Journal of Paleontology, 87 (6): 1136-1142* http://dx.doi.org/10.1666/12-099

New Species: Bransonella tribula

Abstract: Isolated teeth from the Middle Permian (early Guadalupian) Kaibab Formation of Arizona are described as a new species of the xenacanth shark genus Bransonella. Bransonella tribula n. sp. is a small tooth in which the intermediate cusp is 65% of the length of the principal cusps and the cristae on the labial face extend down over the base, covering it, and bifurcating to form distinctive double crested ridges. Fin spines from the same localities in the Kaibab Formation show the characteristic xenacanth feature of a double row of large thorn-like denticles along the posterior margin. Bransonella tribula n. sp. is the only xenacanth shark known from the Kaibab Formation at present, however, due to the lack of articulated material the fin spines are attributed to ?Bransonella tribula n. sp. The ecomorphology of Bransonella suggests a primitive, small, gracile, marine xenacanth that fed near the sea floor like the modern catsharks (Scyliorhinidae).

GUINOT, G. & UNDERWOOD, C.J. & CAPPETTA, H. & WARD, D.J. (2013): Sharks (Elasmobranchii: Euselachii) from the Late Cretaceous of France and the UK. *Journal of Systematic Palaeontology, 11 (6): 589-671* http://dx.doi.org/10.1080/14772019.2013.767286

New Genus: Sigmoscyllium, Adnetoscyllium, Palaeotriakis, Platyrhizodon,

New Species: Protosqualus barringtonensis, Heterodontus boussioni, Heterodontus laevis, Adnetoscyllium angloparisensis, Chiloscyllium frequens, Chiloscyllium vulloi, Pararhincodon ornatus, Cederstroemia siverssoni, Pseudocorax duchaussoisi, Squalicorax bernardezi, Eoptolamna supracretacea, Anomotodon genaulti, Scyliorhinus monsaugustus, Scyliorhinus muelleri, Sigmoscyllium acuspidatum, Paratriakis robustus, Platyrhizodon gracilis, Platyrhizodon barbei,

Abstract: Bulk-sampling of 22 phosphatic horizons from the Upper Cretaceous of northern France and the UK has yielded very rich selachian faunas dominated by shark taxa. These samples, collected from Cenomanian to Campanian Chalks and one glauconitic sediment, allow the identification of numerous new taxa, and improve our knowledge of northern European Late Cretaceous selachian assemblages, with a special focus on small to minute remains that were previously overlooked. Among the 96 taxa described here, 18 species and four genera are newly described: Protosqualus barringtonensis sp. nov., Heterodontus boussioni sp. nov., Heterodontus laevis sp. nov., Adnetoscyllium angloparisensis gen. et sp. nov., Chiloscyllium frequens sp. nov., Chiloscyllium vulloi sp. nov., Pararhincodon ornatus sp. nov., Cederstroemia siverssoni sp. nov., Pseudocorax duchaussoisi sp. nov., Squalicorax bernardezi sp. nov., Eoptolamna supracretacea sp. nov., Anomotodon genaulti sp. nov., Scyliorhinus monsaugustus sp. nov., Scyliorhinus muelleri sp. nov., Sigmoscyllium acuspidatum gen. et sp. nov., Palaeotriakis gen. nov., Paratriakis robustus sp. nov., Platyrhizodon gracilis gen. et sp. nov. and Platyrhizodon barbei gen. et sp. nov. In addition, numerous potential new taxa are left in open nomenclature pending the discovery of more material. Stratigraphical and geographical ranges of taxa are updated and observations on the dentition of a few species (Anomotodon hermani, Cederstroemia, Carcharias latus, Palaeotriakis, Paratriakis) are made. An updated Late Cretaceous selachian fossil record and global standing diversity are also presented.

HAMPE, O. & HAIRAPETIAN, V. & DORKA, M. & WITZMANN, F. & AKBARI, A.M. & KORN, D. (2013): A first Late Permian fish fauna from Baghuk Mountain (Neo-Tethyan shelf, central Iran). *Bulletin of Geosciences, 88 (1): 1 - 20*

New Species: Bobbodus xerxesi

Abstract: A diverse Late Permian assemblage of chondrichthyan and actinopterygian micro- and macroremains is presented from the central Iranian locality of Baghuk Mountain for the first time. The vertebrate remains were found in sediments containing mainly pelagic organisms such as nautiloids, ammonoids, and conodonts. Their habitat is interpreted as a deep shelf area with well-oxygenated bottom water conditions below the storm wave base. The chondrichthyans are represented by various dermal denticles, a fragment of a spine, and a low number of teeth from mostly durophagous hybodontiforms and eugeneodontiforms. A new eugeneodontid species is described as Bobbodus xerxesi sp. nov.; this genus was known only from the east coast of the former Panthalassic Ocean. The actinopterygian remains are represented by dermal bones, teeth, and scales. The bones are only fragmentarily preserved. The Baghuk Mountain vertebrate fauna shows closest similarities to remains known from the Russian Platform and from localities situated at the east coastal region of the Panthalassic Ocean (central United States).

HODNETT, J.-P.M. & ELLIOTT, D.K. & OLSON, T.J. (2013): A new basal hybodont (Chondrichthyes, Hybodontiformes) from the Middle Permian (Roadian) Kaibab Formation, of northern Arizona. *New Mexico Museum of Natural History and Science, Bulletin, 60: 103-108*
New Genus: Diablodontus
New Species: Diablodontus michaeledmundi
Abstract: The teeth of a new basal hybodont shark are described from the Middle Permian (Roadian) Kaibab Formation of northern Arizona. Diablodontus michaeledmundi gen. et sp. nov. represents the only known nondurophagous (crushing toothed) hybodont from the marine Middle Permian. Dental morphology suggests a close relationship between D. michaeledmundi gen. et sp. nov. and the Pennsylvanian and early Permian "Maiseyodus," both of which belong to an indeterminate family of hybodontid hybodonts that was ancestral to the Hybodus clade. D. michaeledmundi gen. et sp. nov. could have inhabited a littoral habitat and had an ecomorphotype similar to extant hound sharks (Triakidae).
IVANOV, A.O. (2013): Chondrichthyans from the early/late Carboniferous boundary beds of the Gissar Mountains, Uzbekistan. *New Mexico Museum of Natural History and Science, Bulletin, 60: 143-151*
New Genus: Gissarodus
New Species: Gissarodus flabellatus
Abstract: Chondrichthyan microremains are described from the Late Serpukhovian-Early Bashkirian of the Aksu sections, Surkhantau Range, southwestern Gissar Mountains, Uzbekistan. The fauna contains an assemblage including diverse symmoriiforms, Denaea cf. D. williamsi Ginter and Hansen, Denaea sp., Stethacanthulus decorus (Ivanov), S. meccaensis (Williams), a euselachian, Gissarodus flabellatus gen. et sp. nov, and various chondrichthyan denticles and scales.
KIEL, S. & PECKMANN, J. & SIMON, K. (2013): Catshark egg capsules from a Late Eocene deep-water methane-seep deposit in western Washington State, USA. *Acta Palaeontologica Polonica, 58 (1): 77-84* http://dx.doi.org/10.4202/app.2011.0077
New Genus: Scyliorhinotheca
New Species: Scyliorhinotheca goederti
Abstract: Fossil catshark egg capsules, Scyliorhinotheca goederti gen. et sp. nov., are reported from a Late Eocene deep-water methane-seep limestone deposit in western Washington State, USA. The capsules are preserved three-dimensionally and some show mineralized remnants of the ribbed capsule wall consisting of small globular crystals that are embedded in a microsparitic matrix. The globules are calcitic, but a strontium content of 2,400-3,000 ppm suggests that they were originally aragonitic. The carbonate enclosing the egg capsules, and the capsule wall itself, show δ13C values as low as -36.5‰, suggesting that formation was induced by the anaerobic oxidation of methane and hence in an anoxic environment. We put forward the following scenario for the mineralization of the capsule wall: (i) the collagenous capsules experienced a sudden change from oxic to anoxic conditions favouring an increase of alkalinity; (ii) this led to the precipitation of aragonitic globules within the collagenous capsule wall; (iii) subsequently the remaining capsule wall was mineralized by calcite or aragonite; (iv) finally the aragonitic parts of the wall recrystallized to calcite. The unusual globular habit of the early carbonate precipitates apparently represents a taphonomic feature, resulting from mineralization mediated by an organic matrix. Taphonomic processes, however, at best contributed to an increase of alkalinity, which was mostly driven by methane oxidation at the ancient seep site.
KITAMURA, N. (2013): Description of a New Species of the Family Echinorhinidae (Chondrichthyes, Elasmobranchii) from the Upper Cretaceous Himenoura Group in Kumamoto Prefecture, Southwestern Japan. *Paleontological Research, 17 (2): 189-195* http://dx.doi.org/10.2517/1342-8144-17.2.189
New Species: Echinorhinus wadanohanaensis
Abstract: Many species of the family Echinorhinidae are reported from the Cenozoic, but from the Cretaceous only a few species have been reported. In this paper, a new species, Echinorhinus wadanohanaensis of the family Echinorhinidae, is described from the Upper Cretaceous (Santonian) Hinoshima Formation of the Himenoura Group at Ryugatake-machi in Kumamoto Prefecture, Japan. The species differs from other congeners in having a distally inclined main cusp, the distally directed cusp apex not extending beyond the distal demarcation of the distal heel, no lateral cusplets (basal cusplets), a large principal cusp, no vertical groove in the root, few grooves below the boundary of the enameloid on the lingual face, and being markedly large in size. This is the first report of the family Echinorhinidae from the Santonian as well as the first report of the family Echinorhinidae from the Cretaceous of Japan.

KOOT, M.B. & CUNY, G. & TINTORI, A. & TWITCHETT, R.J. (2013): A new diverse shark fauna from the Wordian (Middle Permian) Khuff Formation in the interior Haushi-Huqf area, Sultanate of Oman. *Palaeontology, 56 (2): 303-343* http://dx.doi.org/10.1111/j.1475-4983.2012.01199.x
New Genus: Omanoselache, Reesodus, Teresodus, Khuffia,
New Species: Glikmanius culmenis, Omanoselache hendersoni, Omanoselache angiolinii, Reesodus underwoodi, Teresodus amplexus, Khuffia lenis, Khuffia prolixa
Abstract: Chondrichthyans are newly reported from the autochthonous Wordian Khuff Formation (middle Permian), cropping out in well-exposed, low-palaeolatitude sections in the interior Haushi-Huqf area of Oman. The shark remains comprise isolated teeth, dermal denticles and fin spines and have been recovered by processing limestone in buffered acetic acid from bulk rock samples. The fauna consists of mainly ctenacanthiform and hybodontiform taxa, identified as Glikmanius cf. myachkovensis, Glikmanius culmenis sp. nov., Omanoselache hendersoni gen. et sp. nov., Omanoselache angiolinii gen. et sp. nov., cf. Omanoselache sp., Reesodus underwoodi gen et sp. nov., Teresodus amplexus gen. et sp. nov., Gunnellodus bellistriatus, Khuffia lenis gen. et sp. nov., Khuffia prolixa gen. et sp. nov. and Euselachii sp. indet. Additional specimens include rare teeth of the lonchidiid cf. 'Palaeozoic Genus 1' sp., of the neoselachian Cooleyella cf. fordi and a further indeterminate neoselachian, of an indeterminate petalodont and of the holocephalan Deltodus aff. mercurei and Solenodus cf. crenulatus. Fin spines add a further two taxa, Nemacanthus sp. and Amelacanthus cf. sulcatus, which have neoselachian affinities and therefore an unclear relationship to the recovered teeth. The occurrence of Nemacanthus within this Wordian fauna represents the oldest record of this taxon and its only known occurrence in the Palaeozoic. Of the remaining genera, Glikmanius has previously been recorded from the Wordian, whereas for all the others, this study represents their youngest known stratigraphic occurrence and first occurrence in Guadalupian (middle Permian) strata. This adds significantly to our knowledge of the global diversity of chondrichthyans preceding the end-Guadalupian biotic crisis. Palaeogeographically, for all taxa, this study represents the first record from the western fringe of the marine Neotethyan basin, and only Cooleyella was previously known from the southern (Gondwanan) part of the Pangaean continental margin.
OTERO, R.A. & OYARZÚN, J.L. & SOTO-ACUÑA, S. & YURY-YÁÑEZ, R.E. & GUTIERREZ, N.M. & LE ROUX, J.P. & TORRES, T. & HERVÉ, F. (2013): Neoselachians and Chimaeriformes (Chondrichthyes) from the latest Cretaceous-Paleogene of Sierra Baguales, southernmost Chile. Chronostratigraphic, paleobiogeographic and paleoenvironmental implications. *Journal of South American Earth Sciences, 48: 13–30* http://dx.doi.org/10.1016/j.jsames.2013.07.013
New Species: Jaekelotodus bagualensis
Abstract: This paper discusses a well-represented fossil record of cartilaginous fishes (Chondrichthyes) from southern South America. The recovered samples allow the recognition of three assemblages with chronostratigraphic and paleogeographic value: i) typical Maastrichtian sharks and rays with affinities to eastern Pacific fauna, including the taxa Ischyrhiza chilensis, Serratolamna serrata, Centrophoroides sp. associated to Carcharias sp., and Dasyatidae indet.; ii) a scarce reworked assemblage of Paleocene–Early Eocene age including the taxa Otodus obliquus and Megascyliorhinus cooperi; iii) a rich assemblage with reworked taxa of Early to Middle Eocene age, together with autochthonous deposited Middle to Late Eocene taxa with close affinities to paleoichthyofaunas recovered from the North Atlantic, represented by Carcharias 'hopei', Odontaspis winkleri, Carcharoides catticus, Macrorhizodus praecursor, Carcharocles auriculatus, Striatolamia sp., Striatolamia macrota, Hexanchus agassizi, Notorhynchus sp., Myliobatis sp., Abdounia sp., Pristiophorus sp., Squatina sp., cf. Rhizoprionodon sp., Ischyodus sp., and one new species, Jaekelotodus bagualensis sp. nov. The studied samples include for the first time taxa with well established chronostratigraphic resolutions as well as taphonomic information that help clarifying the age of the fossil-bearing units. In addition, they provide relevant information about the evolution of the Magallanes (=Austral) Basin from the Upper Cretaceous to the Paleogene, suggesting a probable connection with the Quiriquina Basin of south-central Chile during the latest Cretaceous. Finally, the studied assemblages indicate a latitudinal pattern of distribution that provides valuable data on the environmental evolution and temperature of southern South America during the Paleogene.
OTERO, R.A. & RUBILAR-ROGERS, D. & YURY-YANEZ, R.E. & VARGAS, A.O. & GUTSTEIN, C.S. & MOURGUES, F.A. & ROBERT, E. (2013): A new species of chimaeriform (Chondrichthyes, Holocephali) from the uppermost Cretaceous of the Lopez de Bertodano Formation, Isla Marambio (Seymour Island), Antarctica. *Antarctic Science, 25 (1): 99-106*
http://dx.doi.org/10.1017/S095410201200079X
New Species: Callorhinchus torresi

Abstract: We describe a new chimaeriform fish, Callorhinchus torresi sp. nov., from the uppermost Cretaceous (late Maastrichtian) of the Lopez de Bertodano Formation, Isla Marambio (Seymour Island), Antarctica. The material shows it is distinct from currently known fossil and extant species of the genus, whereas the outline of the tritors (abrasive surfaces of each dental plate) shows an intermediate morphology between earlier records from the Cenomanian of New Zealand and those from the Eocene of Isla Marambio. This suggests an evolutionary trend in tritor morphology in the lineage leading to modern callorhynchids, during the Late Cretaceous-Palaeogene interval.

PINHEIRO, F.L. & DE FIGUEIREDO, A.E.Q. & DENTZIEN-DIAS, P.C. & FORTIER, D.C. & SCHULTZ, C.L. & VIANA, M.S.S. (2013): Planohybodus marki sp nov., a new fresh-water hybodontid shark from the Early Cretaceous of northeastern Brazil *Cretaceous Research, 41: 210-216* http://dx.doi.org/10.1016/j.cretres.2012.12.005

New Species: Planohybodus marki

Abstract: A new species of hybodontid shark is described for the Lower Cretaceous of Brazil. The type specimen is derived from pre-Aptian strata of Malhada Vermelha Formation, Lima Campos Basin (Ceara State, northeastern Brazil), with referred material from the Missao Velha Formation of Araripe Basin, northeastern Brazil. The new taxon differs from other Planohybodus species by the presence of a stronger tooth ornamentation characterized by simple, usually non-branching cristae that nearly reach the apex of the main cusp as well as distinctly divergent lateral cusplets. In addition, certain North-American specimens formerly attributed to Hybodus are identified as Planohybodus. The new species presented herein, in addition to the North-American remains, represents an important contribution to the knowledge of the distribution of Planohybodus, expanding the geographic range of the genus to South and North America in the Late Jurassic and Early Cretaceous. (c) 2012 Elsevier Ltd. All rights reserved.

PLA, C. & MÁRQUEZ-ALIAGA, A. & BOTELLA, H. (2013): The Chondrichthyan Fauna from the Middle Triassic (Ladinian) of the Iberian Range (Spain). *Journal of Vertebrate Paleontology, 33 (4): 770-785* http://dx.doi.org/10.1080/039.033.0414

New Genus: Prolatodon

New Species: Hybodus bugarensis

Abstract: Here we present for the first time a detailed taxonomic study of a diverse chondrichthyan fauna from the Middle Triassic of the Iberian Range (Spain). The assemblage consists of isolated remains of seven species of five non-neoselachian shark genera (Palaeobates, Hybodus, Pseudodalatias, Prolatodon, gen. nov., and Lissodus), including a new species of hybodontiform shark, Hybodus bugarensis, sp. nov. In addition, a new homalodontid genus, Prolatodon, sp. nov., is erected for the taxa 'Polyacrodus' bucheri and 'Polyacrodus' contrarius. The chondrichthyans of the Iberian Range represent a heterogeneous group from a paleogeographic point of view made up of common components of Middle Triassic shark faunas of northern Europe (Hybodus plicatilis and Palaeobates angustisimus) together with species only known previously from North America and China (Prolatodon bucheri, comb. nov., and Prolatodon contrarius, comb. nov.), as well as several 'endemic' taxa (Pseudodalatias henarejensis, Hybodus bugarensis, sp. nov., and Lissodus aff. L. lepagei). This fauna demonstrated adaptation for a wide diversity of feeding strategies, implying that non-neoselachian sharks dominated among the predator community of Middle Triassic coastal ecosystems of Iberia. The co-occurrence with bivalves, ammonoids, and conodonts allows us to date the chondrichthyan assemblage as 'Longobardian' (upper Ladinian).

REES, J. & CUNY, G. & POUECH, J. & MAZIN, J.-M. (2013): Non-marine selachians from the basal Cretaceous of Charente, SW France. *Cretaceous Research, 44: 122-131* http://dx.doi.org/10.1016/j.cretres.2013.04.002

New Species: Parvodus celsucuspus

Abstract: A gypsum quarry at Cherves-de-Cognac in south-western France exposes a large section of Berriasian (basal Cretaceous) sediments deposited in a lagoonal environment. The sediments have yielded rich vertebrate faunas, but only two species of selachians are present; the lonchidiid hybodont Parvodus celsucuspus sp. nov. and the batoid Belemnobatis variabilis. The composition of the fauna, including only a single, seemingly endemic, hybodont species from a time when hybodont faunas are relatively well investigated in Europe, indicate that small hybodonts were not able to migrate longer distances. The recorded batoid species also occurs in southern England, demonstrating that these batoids were primarily marine fishes that regularly explored areas with reduced salinity.

UNDERWOOD, C.J. & SCHLOGL, J. (2013): Deep-water chondrichthyans from the Early Miocene of the Vienna Basin (Central Paratethys, Slovakia). *Acta Palaeontologica Polonica, 58 (3): 487-509* http://dx.doi.org/10.4202/app.2011.0101

New Genus: Nanocetorhinus

New Species: Pristiophorus striatus, Eosqualiolus skrovinai, Paraetmopterus horvathi, Nanocetorhinus tuberculatus,

Abstract: Sampling of latest Burdigalian (Miocene) mudstones from the Malé Karpaty Mountains in the Slovak Republic revealed a deep water, low diversity shark fauna. The fauna is dominated by teeth of very small squaliform sharks, including two new species, Eosqualiolus skrovinai sp. nov. and Paraetmopterus horvathi sp. nov. The generic composition of the squaliform fauna is more similar to that known from the Eocene than that of today, suggesting a post-middle Miocene faunal turnover within this clade, at least locally. Nectobenthic, non squaliform sharks are rare, but include the new sawshark species Pristiophorus striatus sp. nov., while minute teeth of an enigmatic taxon described here as Nanocetorhinus tuberculatus gen. et sp. nov. probably indicate the presence of a previously unrecorded planktivore. The unusual composition of the fauna, with the complete absence of taxa known to be of medium to large size, suggests an unusual, and probably very stressed, palaeoenvironment.

WELTON, B.J. (2013): A New Archaic Basking Shark (Lamniformes: Cetorhinidae) from the Late Eocene of Western Oregon, U.S.A., and Description of the Dentition, Gill Rakers and Vertebrae of the Recent Basking Shark Cetorhinus maximus (Gunnerus). *New Mexico Museum of Natural History and Science, Bulletin, 58: 48pp*

New Genus: Keasius

New Species: Keasius taylori

Abstract: The Family Cetorhinidae Gill, includes one extant genus, Cetorhinus Blainville, and a single living species, the basking shark, C. maximus (Gunnerus). Excluding Pseudocetorhinus Duffin, a questionable cetorhinid from the Late Triassic of Europe, the oldest cetorhinids are found in the middle Eocene of Antarctica, the Eocene of Oregon, and possibly the Eocene (Bartonian-Priabonian) Tavda Formation, west Siberia, Russia. The genus Cetorhinus has previously included only one valid extinct species, C. parvus Leriche, a small Oligocene to middle Miocene shark from marine sediments of Europe, and possibly the late Oligocene of South Carolina, U.S.A. Late Miocene through Pleistocene basking sharks from Europe, Japan, Chile, California and Oregon, are generally referred to the Recent species, C. maximus, or just identified as Cetorhinus sp.

For purposes of comparison with fossil cetorhinids, the gill rakers, teeth, and vertebrae of C. maximus are described and illustrated. The basking shark dentition shows weak gradient monognathic heterodonty in upper and lower jaws, weak dignathic heterodonty, no evidence of disjunct monognathic heterodonty in either jaw, strong ontogenetic heterodonty in both sexes, and no dental sexual dimorphism. The occurrence of abnormal teeth, especially in the upper dental series, is relatively common.

The most primitive known cetorhinid has been discovered in deep water (bathyal), late Eocene sediments of the Keasey Formation, Columbia County, Oregon, U.S.A. The specimen, consisting of a partial associated skeleton, with 11 vertebrae, 5 gill rakers, and 22 teeth, and a second grill raker association from the same formation, form the basis for description of a new genus and species, Keasius taylori. The Oligocene-early Miocene species Cetorhinus parvus, is referred to the genus Keasius, and diagnoses for the Family Cetorhinidae, genus Cetorhinus, and species K. parvus, are emended to accommodate new information on the heterodonty, gill rakers and vertebral calcification patterns found in K. taylori. In most characters of its teeth, vertebrae, and gill rakers, K. taylori is more ancestral than Cetorhinus maximus, and is closely related to K. parvus. Based on dental reconstructions, K. taylori has an ancestral lamnoid dental formula, lacks the derived secondary homodonty of C. maximus, possesses moderate dignathic heterodonty, and moderate disjunct monognathic heterodonty in both jaws. Keasius taylori is interpreted to have dental bullae in both jaws. Among modern macrophagous lamniforms, the dentition of K. taylori resembles most closely that of the Lamnidae, and specifically Lamna. The vertebral calcifications found in centra of K. taylori most closely resemble the lamnoids, Isurus oxyrinchus and L. nasus, and the alopiid, Alopias superciliosus, but not Carcharodon carcharias, A. vulpinus, A. pelagicus, or any other extant lamniform species. The gill raker morphology of K. taylori is ancestral relative to those of the Oligocene K. parvus, or Miocene and younger Cetorhinus. Gill raker size increases from the Eocene to Recent. Keasius taylori was certainly microphagous, but may have been macrophagous as well. The holotype individual of K. taylori appears to be about 15 years old, based on counts of growth band increments on the corpus calcareum of seven centra.

ZHANG, B. & ZENG, X. & CHEN, X. & LI, Z. & ZHOU, P. & ZHANG, M. (2013): New Materials of Fish Microfossils from the Middle Permian in West Hubei. *Acta Micropalaeontologica Sinica, 30 (2): 184-190*

New Species: Parvidiabolus yichangensi, Fragilicorona guizhouensi
Abstract: This paper reports some Elasmobranch scales and teleostean teeth from the Maokou Formation in the Datiankeng area, Yichang County. These fish microfossils are associated with conodonts Mesogondolella aserrata Hindeodus minutus, Ellisonia teicherli and Xaniognathus elongates. According to the analysis of the conodont assemblage, the fish-microfossils-bearing strata, namely Maokou Formation, are of the Middle Permian in age.

3.2 Species Descriptions -recent-

ALLEN, G.R. & ERDMANN, M.V. & DUDGEON, C.L. (2013): Hemiscyllium halmahera, a new species of Bamboo Shark (Hemiscylliidae) from Indonesia. *Aqua, International Journal of Ichyology, 19 (3): 123-136*
New Species: Hemiscyllium halmahera
Abstract: Hemiscyllium halmahera new species is described from two specimens, 656-681 mm TL, collected at Ternate, Halmahera, Indonesia. The new species is clearly differentiated on the basis of colour pattern. Its features include a general brown colouration with numerous clusters of mainly 2-3 dark polygonal spots, widely scattered white spots in the matrix between dark clusters, relatively few (< 10), large dark spots on the interorbital/snout region, a pair of large dark marks on the ventral surface of the head, and a fragmented post-cephalic mark consisting of a large U-shaped dark spot with a more or less continuous white margin on the lower half, followed by a vertical row of three, smaller clusters of 2-3 polygonal dark marks. The new species is most similar in general appearance to H. galei from Cenderawasih Bay, West Papua, which differs in having 7-8 large, horizontally elongate dark spots on the lower side between the abdomen and caudal-fin base, a cluster of solid dark post-cephalic spots, and usually about 25 dark spots on the upper surface of the head.
BORSA, P. & DURAND, J.-D. & SHEN, K.-N. & ARLYZA, I.S. & SOLIHIN, D.D. & BERREBI, P. (2013): Himantura tutul sp. nov. (Myliobatoidei: Dasyatidae), a new ocellated whipray from the tropical Indo-West Pacific, described from its cytochrome-oxidase I gene sequence *Comptes Rendus Biologies, 336 (2): 82-92* http://dx.doi.org/10.1016/j.crvi.2013.01.004
New Species: Himantura tutul
Abstract: It has been previously established that the Leopard Whipray, Himantura leoparda, consists of two genetically isolated, cryptic species, provisionally designated as 'Cluster 1' and 'Cluster 4' (Arlyza et al., Mol. Phylogenet. Evol. 65 (2013) [11). Here, we show that the two cryptic species differ by the spotting patterns on the dorsal surface of adults: Cluster-4 individuals tend to have larger-ocellated spots, which also more often have a continuous contour than Cluster-1 individuals. We show that H. leopard a's holotype has the typical larger-ocellated spot pattern, designating Cluster 4 as the actual H. leoparda. The other species (Cluster 1) is described as Himantura tutul sp. nov. on the basis of the nucleotide sequence of a 655-base pair fragment of its cytochrome-oxidase I gene (GENBANK accession No. JX263335). Nucleotide synapomorphies at this locus clearly distinguish H. tutul sp. nov. from all three other valid species in the H. uarnak species complex, namely H. leoparda, H. uarnak, and H. undulata. H. tutul sp. nov. has a wide distribution in the Indo-West Pacific, from the shores of eastern Africa to the Indo-Malay archipelago. H. leoparda under its new definition has a similarly wide Indo-West Pacific distribution. (C) 2013 Academie des sciences. Published by Elsevier Masson SAS.
EBERT, D.A. & WILMS, H.A. (2013): Pristiophorus lanae sp. nov., a new sawshark species from the Western North Pacific, with comments on the genus Pristiophorus Müller & Henle, 1837 (Chondrichthyes: Pristiophoridae). *Zootaxa, 3752: 86-100* http://dx.doi.org/10.11646/zootaxa.3752.1.7
New Species: Pristiophorus lanae
Abstract: A new species of sawshark, Pristiophorus lanae sp. nov., is described from off the Philippine Islands. The new species is the second member of the genus Pristiophorus described from the western North Pacific and can be separated from its closest geographic congener, P. japonicus, by having fewer rostral teeth in front of rostral barbels (17–26 versus 25–32), mouth at corners extending forward to below the rear margin of the eye versus extending below the rear one-third of eye margin, a greater mouth width at 6.9–7.8 times into pre-oral length (versus 5.8–6.9), eye length into head length (15.6– 15.9 versus 9.8–13.2), mouth width into head length 9.0–10.0 versus 7.4–8.5 times, head width at nostrils 5.2–6.1 times into pre-orbital length versus 3.9–4.9 times, shorter prebarbel length (from snout tip to barbel) of 50.7–54.5% of preoral length versus 53.6–59.2%, a snout angle of 10.6–13.0° versus 12.4°–14.6°, and lateral trunk denticles with flat crowns that are imbricated versus erect crowns

that are not imbricated. The number of monospondylous vertebrae is slightly lower in P. lanae (43–48) versus P. japonicus (51–52). The genus is reviewed, with a revised key to its species presented.

LAST, P.R. & ALAVA, M. (2013): Dipturus amphispinus sp. nov., a new longsnout skate (Rajoidei: Rajidae) from the Philippines. *Zootaxa, 3752: 214-227* http://dx.doi.org/10.11646/zootaxa.3752.1.13

New Species: Dipturus amphispinus

Abstract: A new long-snouted skate, Dipturus amphispinus sp. nov., is formally described based on material caught in the Sulu Sea and later acquired from fish markets of the central and southern Philippines. It differs from its congeners in the western North Pacific, apart from D. wuhanlingi (East and South China Seas), in having a variably-defined, parallel row of poste-rolaterally directed lumbar thorns, and well-developed scapular thorns on each side of the disc. However, the paired rows of lumbar thorns are better defined in Dipturus amphispinus sp. nov. than in D. wuhanlingi, and these species also differ in some aspects of their morphometrics, meristics and squamation. Dipturus amphispinus sp. nov. displays marked sexual dimorphism with adult males having a relatively broader mouth, much longer teeth, a relatively shorter snout, head and disc, a taller first dorsal fin, and a proportionally longer posterior pelvic-fin lobe and tail, than adult-sized females.

LAST, P.R. & HO, H.-C. & CHEN, R.-R. (2013): A new species of wedgefish, Rhynchobatus immaculatus (Chondrichthyes, Rhynchobatidae), from Taiwan. *Zootaxa, 3752: 185-198* http://dx.doi.org/10.11646/zootaxa.3752.1.11

New Species: Rhynchobatus immaculatus

Abstract: A new species of wedgefish, Rhynchobatus immaculatus sp. nov., is described from a small collection of specimens ob-tained from fish markets in northern Taiwan. It is probably a medium-sized species (probably attaining ca. 1.5 m TL) be-cause the largest known specimen, an immature male (ca. 1 m TL), has prolongated dorsal and caudal fins typical of adult wedgefishes. Rhynchobatus immaculatus is unique within the family in having a very high vertebral count (within the range of 165–170 total free centra) and in lacking a dark pectoral marking. Other Rhynchobatus species occurring in Tai-wanese seas appear to attain a larger adult size, possess a dark pectoral marking at least in young, and have lower vertebral counts (fewer than 161 total fee centra). Rhynchobatus yentinesis, which was described from a specimen taken nearby at Wenzhou, China, has not yet been attributed to a currently recognised species. However, based on the illustration of the holotype, which reveals a broad-snouted species with a dark pectoral spot, it is closest to either R. palpebratus or R. springeri.

LAST, P.R. & WHITE, W.T. (2013): Two new stingrays (Chondrichthyes: Dasyatidae) from the eastern Indonesian Archipelago. *Zootaxa, 3722 (1): 1-21* http://dx.doi.org/10.11646/zootaxa.3722.1.1

New Species: Dasyatis longicauda, Himantura javaensis

Abstract: Two new stingrays, Dasyatis longicauda sp. nov. and Himantura javaensis sp. nov., are described from material collected in the eastern Indonesian Archipelago. These species, which are both relatively small stingrays (both probably smaller than 40 cm DW), have been confused with closest relatives in the region. Dasyatis longicauda sp. nov., known from West Papua, differs from its congener, the Australian endemic D. fluviorum, in having a slightly lower vertebral count, lower pectoral-radial count, a longer tail, larger and less numerous thorns along the mid-disc and tail, as well as a different CO1 Barcode. Himantura javaensis sp. nov., known only from southern Java (near Cilacap), belongs to a complex of small whiprays which also includes another Indonesian species, H. walga. Apart from major differences in squamation and a different CO1 Barcode, Himantura javaensis is more brownish in coloration, has more vertebrae, a longer tail, smaller eye and orbit, more posteriorly positioned sting, shorter adult claspers, shorter pelvic fin, and differs in various measurements around the head.

QUATTRO, J.M. & DRIGGERS, W.B. & GRADY, J.M. & ULRICH, G.F. & ROBERTS, M.A. (2013): Sphyrna gilberti sp. nov., a new hammerhead shark (Carcharhiniformes, Sphyrnidae) from the western Atlantic Ocean. *Zootaxa, 3702 (2): 159-178* http://dx.doi.org/10.11646/zootaxa.3702.2.5

New Species: Sphyrna gilberti

Abstract: Sphyrna gilberti sp. nov. is described based on 54 specimens collected in the coastal waters of South Carolina, U.S.A. Morphologically, S. gilbertisp. nov. is separable from S. lewini (Griffith & Smith 1834) only in the number of precaudal vertebrae. Due to rarity of specimens and the highly migratory behavior of most sphyrnids, the range of S. gilbertisp. nov. is unknown.

SATO, K. & STEWART, A.L. & NAKAYA, K. (2013): Apristurus garricki sp. nov., a new deep-water catshark from the northern New Zealand waters (Carcharhiniformes: Scyliorhinidae). *Marine Biology Research, 9 (8): 758-767* http://dx.doi.org/10.1080/17451000.2013.765586

New Species: Apristurus garricki

Abstract: A new deep-water catshark, Apristurus garricki sp. nov., is described from northern New Zealand waters. This species is a member of the longicephalus-group and has a conspicuously

elongated prenarial snout and short duodenum and is morphologically similar to A. herklotsi from the western North Pacific and A. australis from Australian waters. A. garricki sp. nov. differs from A. australis and A. herklotsi by possessing large dermal denticles on the dorsal side of the body, and higher counts of monospondylous vertebrae and spiral valves. In addition, this species can be distinguished from A. herklotsi by its larger size at maturation, a higher count of monospondylous vertebrae and spiral valves, and distinct longitudinal striations on the surface of egg cases. It differs from A. australis by having fewer tooth rows on both jaws and the posterior position of the first dorsal-fin insertion being distinctly behind pelvic insertions. This species is currently only known from northern New Zealand waters, and is thought to be endemic to this region.

WEIGMANN, S. & STEHMANN, M. & THIEL, R. (2013): Planonasus parini n. g. and n. sp., a new genus and species of false cat sharks (Carchariniformes, Pseudotriakidae) from the deep northwestern Indian Ocean off Socotra Islands. *Zootaxa, 3609 (2): 163-181* http://dx.doi.org/10.11646/zootaxa.3609.2.3

New Genus: Planonasus **New Species:** Planonasus parini

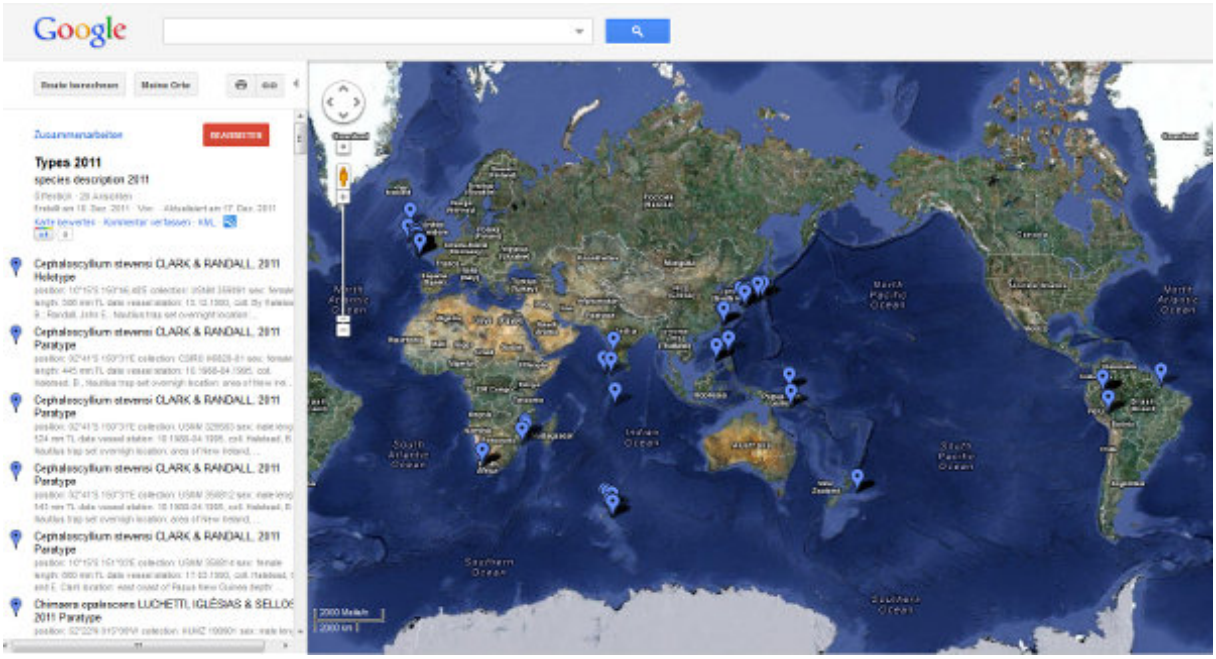
Abstract: A new genus and species of the carcharhiniform family Pseudotriakidae is described based on three specimens caught near the Socotra Islands in the northwestern Indian Ocean. The first specimen and holotype of Planonasus parini g. n. and sp. n. was caught during cruise 17 of RV 'Vityaz' in 1988/89 along the deep western Indian Ocean. Two further specimens of the new genus and species were caught somewhat later by commercial trawlers close to the locality of the holotype. The new genus differs from the two other pseudotriakid genera Gollum and Pseudotriakis by the presence of oral papillae, the absence of nicitating eyelids, a longer head, an intermediate prenarial snout length, an intermediate number of tooth rows per jaw, a first dorsal fin of intermediate height and length and with a white free rear tip, a caudal peduncle of intermediate length, and fewer vertebrae.

WHITE, W.T. & FURUMITSU, K. & YAMAGUCHI, A. (2013): A New Species of Eagle Ray Aetobatus narutobiei from the Northwest Pacific: An Example of the Critical Role Taxonomy Plays in Fisheries and Ecological Sciences. *PLoS ONE, 8 (12): e83785* http://dx.doi.org/10.1371/journal.pone.0083785

New Species: Aetobatus narutobiei

Abstract: Recent taxonomic and molecular work on the eagle rays (Family Myliobatidae) revealed a cryptic species in the northwest Pacific. This species is formally described as Aetobatus narutobiei sp. nov. and compared to its congeners. Aetobatus narutobiei is found in eastern Vietnam, Hong Kong, China, Korea and southern Japan. It was previously considered to be conspecific with Aetobatus flagellum, but these species differ in size, structure of the NADH2 and CO1 genes, some morphological and meristic characters and colouration. Aetobatus narutobiei is particularly abundant in Ariake Bay in southern Japan where it is considered a pest species that predates heavily on farmed bivalve stocks and is culled annually as part of a 'predator control' program. The discovery of A. narutobiei highlights the paucity of detailed taxonomic research on this group of rays. This discovery impacts on current conservation assessments of A. flagellum and these need to be revised based on the findings of this study.

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 Parasitology

3.3.1 Papers

BORUCINSKA, J.D. & ADAMS, D.H. (2013): Parasitic metritis and oophoritis associated with nematode larvae in an Atlantic sharpnose shark, Rhizoprionodon terraenovae (Richardson), collected in the western Atlantic off Florida. *Journal of Fish Diseases, 36 (9): 811-817* http://dx.doi.org/10.1111/jfd.12085

BORUCINSKA, J.D. & CIELOCHA, J.J. & JENSEN, K. (2013): The parasite-host interface in the zonetail butterfly ray Gymnura zonura, infected with Hexacanalis folifer (Cestoda: Lecanicephalidea). *Journal of Fish Diseases, 36 (1): 1-8* http://dx.doi.org/10.1111/j.1365-2761.2012.01408.x

CAIRA, J.N. & MARQUES, F.P.L. & JENSEN, K. & KUCHTA, R. & IVANOV, V. (2013): Phylogenetic analysis and reconfiguration of genera in the cestode order Diphyllidea. *International Journal for Parasitology, 43 (8): 621-639* http://dx.doi.org/10.1016/j.ijpara.2013.03.001

CAIRA, J.N. & PICKERING, M. & SCHULMAN, A.D. & HANESSIAN, N.J. (2013): Two New Species of Echinobothrium (Cestoda: Diphyllidea) from Batoids off South Africa. *Comparative Parasitology, 80 (1): 22-32*

CAIRA, J.N. & RODRIGUEZ, N. & PICKERING, M. (2013): New African species of Echinobothrium (Cestoda: Diphyllidea) and implications for the identities of their skate hosts. *Journal of Parasitology, 99 (5): 781-788* http://dx.doi.org/10.1645/13-198.1

CHISHOLM, L.A. (2013): Septesinus gibsoni n. g., n. sp (Monocotylidae: Heterocotylinae), from the gills of Himantura walga (Dasyatidae) off Sarawak, Borneo. *Parasitology, 84 (3): 255-264* http://dx.doi.org/10.1007/s11230-013-9405-z

DE BURON, I. & ROTH, P.B. & BERGQUIST, D.C. & KNOTT, D.M. (2013): Mulinia lateralis (Mollusca: Bivalvia) die-off in South Carolina: discovery of a vector for two elasmobranch cestode species. *Journal of Parasitology, 99 (1): 51-55* http://dx.doi.org/10.1645/GE-3092.1

DIPPENAAR, S.M. & LEBEPE, M.C. (2013): Two new species of Pupulina van Beneden, 1892 (Copepoda: Siphonostomatoida: Caligidae) from mobulid rays off South Africa. *Systematic Parasitology, 85 (1): 27-35* http://dx.doi.org/10.1007/s11230-013-9406-y

HASELI, M. (2013): Trypanorhynch cestodes from elasmobranchs from the Gulf of Oman, with the description of Prochristianella garshaspi n. sp. (Eutetrarhynchidae). *Systematic Parasitology, 85 (3): 271-279* http://dx.doi.org/10.1007/s11230-013-9425-8

HENDERSON, A.C. & REEVE, A.J. & TANG, D. (2013): Parasitic copepods from some northern Indian Ocean elasmobranchs. *Marine Biodiversity Records, 6: e44* http://dx.doi.org/10.1017/S1755267213000195

IVANOV, V.A. & CAIRA, J.N. (2013): Two new species of Halysioncum Caira, Marques, Jensen, Kuchta et Ivanov, 2013 (Cestoda, Diphyllidea) from Indo-Pacific rays of the genus Aetomylaeus Garman (Myliobatiformes, Myliobatidae). *Folia Parasitologica, 60 (4): 321-330*

IZAWA, K. (2013): Redescription of adults and description of developmental stages of Trebius shiinoi Nagasawa, Tanaka & Benz, 1998 (Copepoda, Siphonostomatoida, Trebiidae) from the Japanese Angelshark, Squatina japonica Bleeker, 1858. *Crustaceana, 86 (6): 739-766* http://dx.doi.org/10.1163/15685403-00003199

JACOBSEN, I.P. & SCOTT-HOLLAND, T. & BENNETT, M.B. (2013): Lepadidae barnacles (Lepadiformes: Lepadomorpha) in association with copepods parasitising pelagic elasmobranchs in the Western Pacific. *New Zealand Journal of Marine and Freshwater Research, 47 (1): 120-123* http://dx.doi.org/10.1080/00288330.2012.732953

MALEKI, L. & MALEK, M. & PALM, H.W. (2013): Two new species of Acanthobothrium (Tetraphyllidea: Onchobothriidae) from Pastinachus cf. sephen (Myliobatiformes: Dasyatidae) from the Persian Gulf and Gulf of Oman. *Folia Parasitologica, 60 (5): 448-456*

MÉNDEZ, O. & GONZÁLEZ, M.A.D. (2013): Cestodes of the bull shark Carcharhinus leucas in Chachalacas beach, Veracruz, Mexico. *Neotropical Helminthology, 7 (1): 167 - 171*

MOJICA, K.R. & JENSEN, K. & CAIRA, J.N. (2013): Revision of Anteropora (Cestoda: Lecanicephalidea) and Descriptions of five new Species from Stingrays (Myliobatiformes: Dasyatidae) in Borneo. *Raffles Bulletin of Zoology, 61 (2): 491-506*

ORÉLIS-RIBEIRO, R. & RUIZ, C.F. & CURRAN, S.S. & BULLARD, S.A. (2013): Blood flukes (Digenea: Aporocotylidae) of lamniforms: Redescription of Hyperandrotrema cetorhini from basking shark (Cetorhinus maximus) and description of a new congener from shortfin mako shark (Isurus oxyrinchus) off Alabama. *Journal of Parasitology, 99 (5): 835-846* http://dx.doi.org/10.1645/12-125.1

PATELLA, R. & BULLARD, S.A. (2013): Hexabothriids of devil rays (Mobulidae): New genus and species from gill of Mobula hypostoma in the Gulf of Mexico and redescription of a congener from Mobula rochebrunei in the eastern Atlantic Ocean. *Journal of Parasitology, 99 (5): 856-867* http://dx.doi.org/10.1645/12-153.1

PODDUBNAYA, L.G. & HEMMINGSEN, W. & GIBSON, D.I. (2013): Ultrastructural characteristics of the vaginae of the basal monogenean Chimaericola leptogaster (Leuckart, 1830). *Parasitology Research, 112 (12): 4053-4064* http://dx.doi.org/10.1007/s00436-013-3596-8

PURIVIROJKUL, W. (2013): Cestodes of the brown-banded bamboo shark Chiloscyllium punctatum (Elasmobranchii: Hemiscylliidae) from the Gulf of Thailand. *Walailak Journal of Science and Technology, 10 (6): 591-596*

ROCHA, S. & CASAL, G. & AL-QURAISHY, S. & AZEVEDO, C. (2013): Morphological and Molecular Characterization of a New Myxozoan Species (Myxosporea) Infecting the Gall Bladder of Raja clavata (Chondrichthyes), from the Portuguese Atlantic Coast. *Journal of Parasitology, 99 (2): 307-317* http://dx.doi.org/10.1645/GE-3150.1

RUHNKE, T.R. & WORKMAN, R.E. (2013): Two new species and a new phyllobothriid cestode genus from sharks of the genus Negaprion Whitley (Carcharhiniformes). *Systematic Parasitology, 85 (1): 37-48* http://dx.doi.org/10.1007/s11230-013-9411-1

RUIZ, C.F. & BULLARD, S.A. (2013): Huffmanela markgracei sp. n. (Nematoda: Trichosomoididae) from buccal cavity of Atlantic sharpnose shark, Rhizoprionodon terraenovae, (Carcharhiniformes: Carcharhinidae) in the northwestern Gulf of Mexico off Texas. *Folia Parasitologica, 60 (4): 353-358*

SCHAEFFNER, B.C. & BEVERIDGE, I. (2013): Redescriptions and new records of species of Otobothrium Linton, 1890 (Cestoda: Trypanorhyncha). *Systematic Parasitology, 84 (1): 17-55* http://dx.doi.org/10.1007/s11230-012-9388-1

SCHAEFFNER, B.C. & BEVERIDGE, I. (2013): Pristiorhynchus palmi n. g., n. sp. (Cestoda: Trypanorhyncha) from sawfishes (Pristidae) off Australia, with redescriptions and new records of six species of the Otobothrioidea Dollfus, 1942. *Systematic Parasitology, 84 (2): 97-121* http://dx.doi.org/10.1007/s11230-012-9391-6

SCHAEFFNER, B.C. & BEVERIDGE, I. (2013): Poecilorhynchus perplexus n. g., n. sp. (Trypanorhyncha: Eutetrarhynchidae) from the brownbanded bambooshark, Chiloscyllium punctatum Müller & Henle, from Australia. *Systematic Parasitology, 85 (1): 1-9* http://dx.doi.org/10.1007/s11230-013-9408-9

SCHAEFFNER, B.C. & BEVERIDGE, I. (2013): Dollfusiella Campbell & Beveridge, 1994 (Trypanorhyncha: Eutetrarhynchidae) from elasmobranchs off Borneo, including descriptions of five new species. *Systematic Parasitology, 86 (1): 1-31* http://dx.doi.org/10.1007/s11230-013-9435-6
SCHAEFFNER, B.C. & BEVERIDGE, I. (2013): Prochristianella mattisi sp. n. (Trypanorhyncha: Eutetrarhynchidae) from the wedgenose skate, Dipturus whitleyi (Rajiformes: Rajidae), from Tasmania (Australia). *Folia Parasitologica, 60 (3): 257-263*
TANG, D. & MARANB, V. & MATSUMOTO, Y. & NAGASAWA, K. (2013): Redescription of Lepeophtheirus acutus Heegaard, 1943 (Copepoda: Caligidae) parasitic on two elasmobranch hosts off Okinawa-jima Island, Japan. *Journal of Natural History, 47 (5-12): 581-596* http://dx.doi.org/10.1080/00222933.2012.738832

3.3.2 Species Descriptions: Parasites of Elasmobranchs

RUHNKE, T.R. & WORKMAN, R.E. (2013): Two new species and a new phyllobothriid cestode genus from sharks of the genus Negaprion Whitley (Carcharhiniformes). *Systematic Parasitology, 85 (1): 37-48* http://dx.doi.org/10.1007/s11230-013-9411-1
New Genus: Alexandercestus
New Species: Alexandercestus gibsoni, Alexandercestus manteri
Abstract: Alexandercestus n. g. (Cestoda: Tetraphyllidea) is erected for two cestode species found parasitising the two known species of lemon sharks (Carcharhiniformes: Negaprion spp.). This new genus differs from all other phyllobothriid genera except for Hemipristicola Cutmore, Theiss, Bennett & Cribb, 2011, Marsupiobothrium Yamaguti, 1952, Nandocestus Reyda, 2008, Orectolobicestus Ruhnke, Caira & Carpenter 2006, Orygmatobothrium Diesing, 1863, Paraorygmatobothrium Ruhnke, 1994 and Phyllobothrium van Beneden, 1849 in possessing uniloculate bothridia with an apical sucker and neck scutes. Alexandercestus differs from Orectolobicestus and Nandocestus in lacking marginal loculi on the bothridia, from Paraorygmatobothrium in possessing uninterrupted vitelline follicles at the level of the ovary and from Phyllobothrium in being euapolytic as opposed to anapolytic and in lacking posteriorly bifid bothridia. The new genus lacks the central accessory bothridial organ seen in specimens of Orygmatobothrium, and lacks the central bothridial accessory sucker of specimens of Marsupiobothrium. Alexandercestus spp. compare most favourably with specimens of Hemipristicola, especially with respect to aspects of proglottid morphology, but differ in possessing aristate gladiate spinitriches rather than serrate gladiate spinitriches on the proximal bothridial surface. In addition, the bothridia of Alexandercestus spp. are comparatively more fleshy and foliose than those in specimens of Hemipristicola. Two new species of Alexandercestus n. g. are described, Alexandercestus gibsoni n. sp. from Negaprion acutidens, collected from off northern Australia and the Marshall Islands, and Alexandercestus manteri n. sp. from N. brevirostris, collected off the islands of Bimini and the Florida Keys. The two new species differ in total length and vitelline follicle distribution. Bayesian inference and parsimony analysis of the D1-D3 region of the large nuclear ribosomal DNA of 17 published and seven novel sequences placed A. gibsoni as the sister taxon to a clade containing Hemipristicola gunterae Cutmore, Theiss, Bennett & Cribb, 2011 and species of Paraorygmatobothrium. This result supports the erection of Alexandercestus as a genus separate from Hemipristicola and Paraorygmatobothrium. At the present time, species of Alexandercestus are known only from hosts of the carcharhinid genus Negaprion Whitley; examination of extensive survey data suggests this may be the extent of the host distribution of this genus.
CAIRA, J.N. & MARQUES, F.P.L. & JENSEN, K. & KUCHTA, R. & IVANOV, V. (2013): Phylogenetic analysis and reconfiguration of genera in the cestode order Diphyllidea. *International Journal for Parasitology, 43 (8): 621-639* http://dx.doi.org/10.1016/j.ijpara.2013.03.001
New Genus: Halysioncum, Coronocestus
New Species:
Abstract: The generic boundaries of the Diphyllidea are reassessed based on parsimony and likelihood phylogenetic analyses of 28S rDNA (ribonucleic acid large subunit), 18S rDNA (ribonucleic acid small subunit), and COI (cytochrome oxidase subunit I) sequence data for 31 species representing morphological variation across the order. Trees resulting from these analyses yielded a number of well-supported clades that are congruent with unique morphological features mandating generic revision of the order and erection of at least two new genera. Species originally assigned to Echinobothriumvan Beneden, 1849 but bearing a corona of spines on the region of the scolex anterior to the bothria and posterior to the apical organ armature are transferred to Coronocestus n. gen.; members of this genus typically parasitize triakid sharks, although one report from a hemiscylliid shark

exists. Species with lateral hooklets arranged in continuous bands, rather than in two distinct clusters, are transferred to Halysioncum n. gen.; all species parasitize batoids, mostly myliobatids and rhinopterids, but a few records also exist from arhynchobatids, rhinobatids, platyrhinids and urotrygonids. Our analyses support transfer of the five species originally assigned to MacrobothridiumKhalil and Abdul-Salam, 1989 owing to their lack of cephalic peduncle spines to Echinobothrium. As a consequence, Echinobothrium sensu stricto includes species both with and without spines on the cephalic peduncle, but all members of the genus possess lateral hooklets arranged in clusters on either side of the dorsal and ventral apical hooks. With respect to diphyllideans parasitizing catsharks, AhamulinaMarques, Jensen and Caira, 2012 is unique in possessing apical hooks but lacking lateral hooklets and DitrachybothridiumRees, 1959 is unique in entirely lacking scolex armature. By far the majority of species of Echinobothrium sensu stricto parasitize skates of the family Rajidae, guitarfish of the family Rhinobatidae, and stingrays of the dasyatid genera Taeniura Müller and Henle, Dasyatis Rafinesque, and Himantura Müller and Henle, although a single species each has been reported from Anacanthobatidae, Rhynchobatidae, Platyrhinidae and Myliobatidae. It now seems clear that while by far the majority of diphyllideans parasitize batoids, the diphyllideans parasitizing sharks, and catsharks in particular, remain problematic. Additional collections from these carcharhiniform hosts are likely to be particularly illuminating.

PATELLA, R. & BULLARD, S.A. (2013): Hexabothriids of devil rays (Mobulidae): New genus and species from gill of Mobula hypostoma in the Gulf of Mexico and redescription of a congener from Mobula rochebrunei in the eastern Atlantic Ocean. *Journal of Parasitology, 99 (5): 856-867* http://dx.doi.org/10.1645/12-153.1

New Genus: Mobulicola

New Species: Mobulicola enantiomorphica

Abstract: A new species of Hexabothriidae, Mobulicola enantiomorphica n. gen., n. sp., is described based on specimens collected from the gill of a lesser devil ray, Mobula hypostoma (Bancroft, 1831), (Rajiformes: Mobulidae) captured in the northern Gulf of Mexico (30°13'49.22"N, 88°20'31.69"W) off Dauphin Island, Alabama. We also herein redescribe Mobulicola dubium (Euzet and Maillard, 1967) n. comb. based on the holotype (36HG-69-1) and paratypes (36HG-69-2 and 36HG-69-3) collected from the gill of a lesser Guinean devil ray, Mobula rochebrunei (Vaillant, 1879), captured in the eastern Atlantic Ocean off the island of Gorée (14°40'02.26"N, 17°23'4.96"W), Senegal. Mobulicola has the following combination of diagnostic features that differentiate it from other hexabothriid genera: haptor symmetrical; vasa efferentia narrow for entire length (not dilated distally), glandular-walled, joining medially immediately anterior to testicular field; vas deferens glandular for part or all of length and extensively convoluted; male copulatory organ massive, oblong, unarmed, dilated for entire length, lacking prostatic region; seminal receptacle present; ootype lacking longitudinal rows of large cells (ootype côtelé); vaginae parallel, with well-differentiated proximal (narrow, tube-like) and distal (laterally-expanded, musculoglandular) portions; uterine eggs with 2 elongate filaments. Mobulicola is morphologically most similar to Branchotenthes Bullard and Dippenaar, 2003 but differs from it by the combination of having short, delicate vasa efferentia that are narrow for their entire length and that each extend slightly anteriad from the testicular field before uniting medially, a vas deferens that is convoluted between the common vitelline duct and male copulatory organ, an ovate, compact seminal receptacle, an ovary that ascends, descends, then ascends, and a proximal uterus that is extensively convoluted posterior to the male copulatory organ. The new species differs from M. dubium by the combination of having a proportionally shorter sclerite hook (19-29% of sclerite shaft total length), a vas deferens that is glandular-walled and laterally-expanded proximally and non-glandular and narrow distally, and a common vitelline duct with dextral and sinistral loops extending anteriad. This is only the second report of a hexabothriid from a mobulid and the first report of a monogenoid from M. hypostoma.

SCHAEFFNER, B.C. & BEVERIDGE, I. (2013): Poecilorhynchus perplexus n. g., n. sp. (Trypanorhyncha: Eutetrarhynchidae) from the brownbanded bambooshark, Chiloscyllium punctatum Müller & Henle, from Australia. *Systematic Parasitology, 85 (1): 1-9* http://dx.doi.org/10.1007/s11230-013-9408-9

New Genus: Poecilorhynchus

New Species: Poecilorhynchus perplexus

Abstract: A new genus of trypanorhynch cestodes is described from the brownbanded bambooshark, Chiloscyllium punctatum Muller & Henle (Hemiscylliidae) from off Nickol Bay, Western Australia. Poecilorhynchus perplexus n. g., n. sp. is placed in the Eutetrarhynchidae Guiart, 1927 because it is characterised by an elongate, acraspedote scolex with two oval bothria, the absence of bothrial pits, elongate bulbs, the presence of gland-cells within the bulbs and prebulbar organs, retractor muscles

inserting at the base of each bulb and an acraspedote strobila. It can be distinguished from all other genera in this family by its possession of a poeciloacanthous typical armature, with a chainette composed of two longitudinal files of uncinate hooks on the external tentacular surface.

SCHAEFFNER, B.C. & BEVERIDGE, I. (2013): Pristiorhynchus palmi n. g., n. sp. (Cestoda: Trypanorhyncha) from sawfishes (Pristidae) off Australia, with redescriptions and new records of six species of the Otobothrioidea Dollfus, 1942. *Systematic Parasitology, 84 (2): 97-121* http://dx.doi.org/10.1007/s11230-012-9391-6

New Genus: Pristiorhynchus

New Species: Pristiorhynchus palmi

Abstract: A new genus of trypanorhynch cestodes, Pristiorhynchus n. g. (Otobothrioidea: Otobothriidae), is described from two species of modern sawfishes (Pristidae) from off northern Australia. Pristiorhynchus palmi n. g., n. sp. is characterised by an acraspedote scolex with two bothria, paired bothrial pits on the posterior margins of each bothrium, the absence of gland-cells within the bulbs and prebulbar organs, a retractor muscle inserting at the posterior region of the elongate bulbs, a characteristic basal tentacular armature with dispersed billhooks and a heteroacanthous atypical metabasal armature with five principle and three intercalary hooks. Furthermore, redescriptions are provided for Symbothriorhynchus tigaminacantha Palm, 2004, Parotobothrium balli (Southwell, 1929) and Pseudotobothrium arii (Bilqees & Shaukat, 1976). Observations of adult worms revealed novel information on the segment morphology, which has not been described for these three species. Specimens of Proemotobothrium linstowi (Southwell, 1924), Pr. southwelli Beveridge & Campbell, 2001 and Fossobothrium perplexum Beveridge & Campbell, 2005 collected from elasmobranchs from several sampling localities off Australia revealed additional information on host range and geographical distribution.

CHISHOLM, L.A. (2013): Septesinus gibsoni n. g., n. sp (Monocotylidae: Heterocotylinae), from the gills of Himantura walga (Dasyatidae) off Sarawak, Borneo. *Parasitology, 84 (3): 255-264* http://dx.doi.org/10.1007/s11230-013-9405-z

New Genus: Septesinus

New Species: Septesinus gibsoni

Abstract: Septesinus gibsoni n. g., n. sp. (Monocotylidae: Heterocotylinae) is described from the gills of the dwarf whipray Himantura walga (Müller & Henle) collected in marine waters off Sarawak (Borneo), Malaysia. Septesinus n. g. is distinguished from other genera in the Monocotylidae by a combination of characters, including a haptor with one central and seven peripheral loculi, the presence of a highly sinuous ridge surmounting all haptoral septa, four rounded accessory structures on the dorsal surface of the haptor, and the anterior region with two pairs of anteromedian and three pairs of anterolateral gland-duct openings. Septesinus n. g. is accommodated in the Heterocotylinae. Septesinus gibsoni n. sp. is described and fully illustrated, and a key to the genera of Heterocotylinae is provided. The composition of the ridges surrounding the mouth of a number of heterocotyline species and their usefulness as a taxonomic character are examined. The identity of four specimens of Monocotyle Taschenberg, 1878, also recovered from the gills of this host species, is discussed.

MALEKI, L. & MALEK, M. & PALM, H.W. (2013): Two new species of Acanthobothrium (Tetraphyllidea: Onchobothriidae) from Pastinachus cf. sephen (Myliobatiformes: Dasyatidae) from the Persian Gulf and Gulf of Oman. *Folia Parasitologica, 60 (5): 448-456*

New Species: Acanthobothrium jalalii Acanthobothrium sphaera

Abstract: Two new species of Acanthobothrium van Beneden, 1850 from the spiral intestine of Pastinachus cf. sephen Forsskal from the Iranian coast of the Persian Gulf and the Gulf of Oman are described. To analyse the surface ultrastructure the worms were studied using light and scanning electron microscopy. Acanthobothrium jalalii sp. n. belongs to the category 1 species of the genus so far including 43 species. This tiny new species differs from the other category 1 species by its small total length (2.18 ± 0.49 mm), number of proglottids (4.7 ± 0.9) and testes (24 ± 3), terminal segments in an apolytic condition and the shape of the cirrus-sac. Acanthobothrium sphaera sp. n. is a small worm that belongs to the category 2 species of the genus so far including 36 species. A. sphaera sp. n. differs from the other category 2 species by its small total length (1.6 ± 0.2 mm), number of proglottids (9.6 ± 1.2) and testes (12 ± 1), the presence of a vaginal sphincter and the shape of the ovary. This is the first report of Acanthobothrium from the cowtail stingray, P. cf. sephen, from the Persian Gulf and Gulf of Oman. Pastinachus sephen sensu lato has been reported as a common host of species of Acanthobothrium. Most recently, the host genus Pastinachus Ruppell has been split into five nominal species and several Acanthobothrium species infect the newly described congeners but not P sephen. The real identity of the host studied within the present study is still in question, since

sequence data of three specimens from the Gulf of Oman do not correspond to P sephen sensu stricto.

MOJICA, K.R. & JENSEN, K. & CAIRA, J.N. (2013): Revision of Anteropora (Cestoda: Lecanicephalidea) and Descriptions of five new Species from Stingrays (Myliobatiformes: Dasyatidae) in Borneo. *Raffles Bulletin of Zoology, 61 (2): 491-506*

New Species: Anteropora joannae, Anteropora patulobothridium, Anteropora cuba, Anteropora glandapiculis, Anteropora pumilionis

Abstract: The discovery of five new species of Anteropora from dasyatid stingrays in Malaysian and Indonesian Borneo requires expansion of the concepts of the genus and family to accommodate these euapolytic (rather than hyperapolytic) forms. The five species are as follows: Anteropora joannae, new species, and A. patulobothridium, new species, both from Taeniura lymma 1, A. cuba, new species, from Himantura cf. gerrardi 1, as well as A. glandapiculis, new species, and A. pumilionis, new species, both from Himantura pastinacoides 1. Unlike the apical organs of A. patulobothridium, new species, and A. pumilionis, new species, the apical organs of A. joannae, new species, A. glandapiculis, new species, and A. cuba, new species, are primarily glandular, rather than muscular. The latter is the largest of the five species and possesses a spherical rather than dorso-ventrally flattened scolex. Anteropora pumilionis, new species, is unique in its possession of lateral (as well as posterior) bothridial notches and also in possessing fewer proglottids than its four euapolytic congeners. Among the euapolytic species, A. joannae, new species, and A. glandapiculis, new species, are most similar, but differ in genital pore position. A key to the nine species of Anteropora is presented. This is the first report of lecanicephalidean cestodes from the Himantura pastinacoides and Himantura gerrardi species complexes.

SCHAEFFNER, B.C. & BEVERIDGE, I. (2013): Dollfusiella Campbell & Beveridge, 1994 (Trypanorhyncha: Eutetrarhynchidae) from elasmobranchs off Borneo, including descriptions of five new species. *Systematic Parasitology, 86 (1): 1-31* http://dx.doi.org/10.1007/s11230-013-9435-6

New Species: Dollfusiella angustiformis, Dollfusiella hemispinosa, Dollfusiella spinosa, Dollfusiella imparispinis, Dollfusiella parva

Abstract: Sampling of a large number of elasmobranchs from coastal waters off Borneo revealed the presence of five new species of Dollfusiella Campbell & Beveridge, 1994 (Trypanorhyncha: Eutetrarhynchidae), namely D. angustiformis n. sp., D. hemispinosa n. sp., D. spinosa n. sp., D. imparispinis n. sp. and D. parva n. sp. Dollfusiella angustiformis n. sp. is described from the spiral intestines of four species of the dasyatid stingray genus Himantura Muller & Henle from both the Indonesian and Malaysian parts of Borneo. All the other species were obtained from Malaysian Borneo. Dollfusiella hemispinosa n. sp. is described from the spiral intestines of three species of Himantura, whereas D. spinosa n. sp. was obtained from several specimens of Pastinachus solocirostris Last, Manjaji & Yearsley (Dasyatidae) as well as from Taeniura lymma 1 (sensu Naylor et al., 2012) (Dasyatidae), Neotrygon kuhlii 2 (sensu Naylor et al., 2012) (Dasyatidae), and Glaucostegus cf. typus (sensu Naylor et al., 2012) (Rhinobatidae). Dollfusiella imparispinis n. sp. is described from the spiral intestine of a single specimen of Chiloscyllium punctatum Muller & Henle (Hemiscyllidae) from the South China Sea off Sarawak, whereas D. parva n. sp. was obtained from several species of Himantura. Specimens of the five novel taxa possess scoleces covered with enlarged microtriches, a morphological characteristic exhibited by several other congeners. However, the new species differ from all congeners by possessing unique patterns of oncotaxy as well as combinations of additional morphological features. The number of valid species within Dollfusiella is increased to 26. For this reason, a key for the species of Dollfusiella is provided. Furthermore, novel information on hosts and geographic distribution is provided for two previously described species of Dollfusiella, D. michiae (Southwell, 1929) and D. spinulifera (Beveridge & Jones, 2000). The latter species differs slightly from the original description and shows a much higher variability with regard to the lengths of the scolex and muscular bulbs and the number of testes. These variable characters subdivided specimens of D. spinulifera into relatively distinct groups. However, the specimens did not differ in their oncotaxy and are considered to represent a single variable species.

CAIRA, J.N. & PICKERING, M. & SCHULMAN, A.D. & HANESSIAN, N.J. (2013): Two New Species of Echinobothrium (Cestoda: Diphyllidea) from Batoids off South Africa. *Comparative Parasitology, 80 (1): 22-32*

New Species: Echinobothrium dorothyae, Echinobothrium dougbermani

Abstract: Examination of the bycatch from a hake survey off the coast of South Africa in 2010 yielded new diphyllidean tapeworms from 2 species of batoids not previously examined for this cestode order. The spotted skate, Raja straeleni (Rajidae), was found to host Echinobothrium dorothyae n. sp., which differs in hook formula from 37 of its 43 congeners, and can be distinguished from the 6 remaining

species in features such as length, number and arrangement of testes, and number of cephalic peduncle spines. The second new species, Echinobothrium dougbermani n. sp., was collected from the lesser guitarfish, Rhinobatos annulatus (Rhinobatidae). This species differs from all but 6 of its congeners in hook formula. With respect to these 6 species, it differs in numbers of cephalic peduncle spines, testes and proglottids, overall size, and ovary shape. Furthermore, it bears lateral hooklets that are more posterior in position relative to the apical hooks than is seen in most of its congeners. Scanning electron microscopy of these 2 species highlights ultrastructural differences that exist among diphyllideans, which, although their complete taxonomic distribution and function(s) are not yet understood, are interesting to consider. These are: the presence or absence of a spinithrix-lacking "V" shaped region on the medial distal bothrial surface, variation in spinithrix form from anterior to posterior on the proximal bothrial surface, and surface elaborations in the form of tiny, ridgelike structures of varying length that may or may not anastomose with one another. The relatively random nature of the selection of the skates and guitarfish hosts sampled here supports the notion that the small percentage of species in these genera that are currently known to host diphyllideans, and likely also their respective families Rajidae and Rhinobatidae, are likely a result of a lack of sampling.

CAIRA, J.N. & RODRIGUEZ, N. & PICKERING, M. (2013): New African species of Echinobothrium (Cestoda: Diphyllidea) and implications for the identities of their skate hosts. *Journal of Parasitology, 99 (5): 781-788* http://dx.doi.org/10.1645/13-198.1

New Species: Echinobothrium mercedesae, Echinobothrium yiae

Abstract: Two new species of diphyllidean cestodes of the genus Echinobothrium, each hosted by a different skate species in the Raja miraletus complex, are described. Echinobothrium mercedesae n. sp. is described from R. cf. miraletus 2 off Senegal. Echinobothrium yiae n. sp. is described from R. cf. miraletus 1 off South Africa. Both species are small worms that differ from their 29 described congeners in the combination of number of cephalic peduncle spines per column, hook formula, number and arrangement of testes, and arrangement of vitelline follicles. They are easily distinguished from one another in that whereas the vitelline follicles of E. yiae n. sp. are circumcortical, they are lateral in E. mercedesae n. sp., and also in number of cephalic peduncle spines per column (14-17 vs. 10-12). Echinobothrium yiae n. sp. is also unusual in that the cephalic peduncle spines stop short of the anterior margin of the peduncle. In addition, although the paucity of available material precluded their formal description, evidence of 2 additional new species parasitizing R. miraletus also from Senegal is presented. In combination these worms provide support for the interpretation that what is currently recognized as Raja miraletus actually consists of a complex of geographically restricted species, rather than a polymorphic species of multiple parapatric or allopatrically distributed populations. This interpretation is not only supported by previously published molecular data, but also by newly collected morphological data involving differences in the color patterns of disc ocelli among host specimens of the 3 forms available as a result of digital efforts to ensure the accuracy of host identifications, which are also presented here.

IVANOV, V.A. & CAIRA, J.N. (2013): Two new species of Halysioncum Caira, Marques, Jensen, Kuchta et Ivanov, 2013 (Cestoda, Diphyllidea) from Indo-Pacific rays of the genus Aetomylaeus Garman (Myliobatiformes, Myliobatidae). *Folia Parasitologica, 60 (4): 321-330*

New Species: Halysioncum gibsoni, Halysioncum arafurense

Abstract: Recent collections of cestode parasites from two species of the myliobatid genus Aetomylaeus Garman from several localities in the Pacific Ocean resulted in the discovery of two new species of Halysioncum Caira, Marques, Jensen, Kuchta et Ivanov, 2013. Halysioncum gibsoni sp. n. from Aetomylaeus maculatus (Gray) in the South China Sea off Borneo differs from all of its congeners in having the following combination of characters: 27 apical hooks (14 type A and 13 type B hooks), 11–12 lateral hooklets, 22–28 spines per column on the cephalic peduncle, testes distributed in a single column and an internal seminal vesicle. Halysioncum arafurense sp. n., recovered from Aetomylaeus cf. nichofii 2 (sensu Naylor et al. 2012b) in the Arafura Sea off the Wessel Islands, Northern Territory, Australia, can be distinguished from its congeners based on the following combination of characters: 23 apical hooks (12 type A and 11 type B hooks), the number of lateral hooklets (9–11), the number of spines per column on the cephalic peduncle (20–24), the number and distribution of the testes (13–15 testes in two irregular columns), and the distribution of vitelline follicles (interrupted dorsally at the level of the ovarian lobes). Both species represent the first verified records of diphyllideans from eagle rays of the genus Aetomylaeus and formally extend the host associations of diphyllideans to include a third genus of Myliobatiformes. The myliobatiforms are indeed an understudied group of available hosts for diphyllideans and represent interesting target hosts if the diversity of diphyllidean tapeworms is to be fully estimated and understood.

RUIZ, C.F. & BULLARD, S.A. (2013): Huffmanela markgracei sp. n. (Nematoda: Trichosomoididae) from buccal cavity of Atlantic sharpnose shark, Rhizoprionodon terraenovae, (Carcharhiniformes: Carcharhinidae) in the northwestern Gulf of Mexico off Texas. *Folia Parasitologica, 60 (4): 353-358*
New Species: Huffmanela markgracei
Abstract: Eggs of Huffmanela markgracei sp. n. infected one of three Atlantic sharpnose sharks, Rhizoprionodon terraenovae (Richardson) (Carcharhiniformes: Carcharhinidae) captured by bottom long-line in the northwestern Gulf of Mexico off Padre Island, Texas. Eggs in the skin formed sinuous tracks (1–8 eggs wide; 1–4 eggs deep; 150 eggs/mm2) occupying a swath of the skin 22 cm × 2 cm on the tongue, branchial arches and the dorsal surface of the buccal cavity. Eggs had transverse eggshell ridges (branching and non-branching), had shells that were clear, amber or brown, and measured 90–113 µm (x = 102 ± 4; n = 190) long, 38–54 µm (43 ± 3; 190) wide, 3–5 µm (4 ± 0; 190) in eggshell thickness with protruding polar plugs 8–12 µm (10 ± 1; 190) wide. Apparently fully developed larvae in eggs were 255–335 µm (299 ± 26; 30) long, 8–10 µm (9 ± 1; 30) wide, and in-folded 5–6 (6 ± 0; 30) times. Some of these larvae were emerging from eggs in the skin. The new species differs from congeners by the combination of having a large, spindle-shaped egg, transverse eggshell ridges, an envelope that is smooth, tightly-apposed to the eggshell and surrounds the entire eggshell inclusive of the polar plugs, and a large larva. This is the first report of a species of Huffmanela Moravec, 1987 from a chondrichthyan in the Gulf of Mexico and from a shark not assigned to Carcharhinus.
ORÉLIS-RIBEIRO, R. & RUIZ, C.F. & CURRAN, S.S. & BULLARD, S.A. (2013): Blood flukes (Digenea: Aporocotylidae) of lamniforms: Redescription of Hyperandrotrema cetorhini from basking shark (Cetorhinus maximus) and description of a new congener from shortfin mako shark (Isurus oxyrinchus) off Alabama. *Journal of Parasitology, 99 (5): 835-846* http://dx.doi.org/10.1645/12-125.1
New Species: Hyperandrotrema walterboegeri
Abstract: We emend the original generic diagnosis for Hyperandrotrema Maillard and Ktari, 1978 and redescribe its type species Hyperandrotrema cetorhini Maillard and Ktari, 1978 (Digenea: Aporocotylidae Odhner, 1912) based on the holotype and 2 paratypes collected from the heart of basking shark (Cetorhinus maximus). We also describe Hyperandrotrema walterboegeri Orélis-Ribeiro and Bullard n. sp. based on light and scanning electron microscopy of 6 adult specimens collected from the heart of a shortfin mako shark (Isurus oxyrinchus Rafinesque, 1810) captured from Viosca Knoll (N29°11.70'; W88°33.32'; 123 km southwest of Dauphin Island, Alabama), northern Gulf of Mexico. Hyperandrotrema spp. infect lamniforms and differ from all other nominal aporocotylids at least by having a ventrolateral field of robust C-shaped spines (rather than transverse rows of minute, shaft-like spines), an inverse U-shaped intestine with extremely elongate ceca terminating near the level of the excretory bladder, and a common genital pore that comprises the dorsal opening of a common genital atrium. Adults of the new species exceeded 12 mm in total length, making them the largest of the nominal fish blood flukes. The new species further differs from H. cetorhini by the combination of having an adult body that is 7-8 × longer than wide, large midbody tegumental spines measuring 25-38 µm long × 10-12 µm wide, a long vas deferens 4-5% of the body length, a testis 9-11 × longer than wide, and a large ootype 105-150 µm long × 85-105 µm wide. This is the first report of Hyperandrotrema from the Gulf of Mexico and the second aporocotylid species reported from an epipelagic elasmobranch. Our results demonstrate that ecologically-related (epipelagic, marine) and phylogenetically-related (Lamniformes) definitive hosts are infected by morphologically similar (congeneric) fish blood flukes.
HASELI, M. (2013): Trypanorhynch cestodes from elasmobranchs from the Gulf of Oman, with the description of Prochristianella garshaspi n. sp. (Eutetrarhynchidae). *Systematic Parasitology, 85 (3): 271-279* http://dx.doi.org/10.1007/s11230-013-9425-8
New Species: Prochristianella garshaspi
Abstract: In a study on the order Trypanorhyncha Diesing, 1863, a total of 35 specimens belonging to nine species of elasmobranch in the Gulf of Oman, was examined. The following trypanorhynch species were identified: Pterobothrium lesteri Campbell & Beveridge, 1996, Otobothrium carcharidis (Shipley & Hornell, 1906), Eutetrarhynchus platycephali Palm, 2004, Parachristianella indonesiensis Palm, 2004, Pa. monomegacantha Kruse, 1959 and Prochristianella mooreae Beveridge, 1990. Prochristianella garshaspi n. sp. is described from Pastinachus sephen (Forsskål) and Rhinoptera sp. The new species is allocated to the genus Prochristianella Dollfus, 1946 on the basis of the presence of two bothria, prebulbar organs, and a heteroacanthous typical tentacular armature with relatively few hooks in each principal row, hollow hooks increasing in size from antibothrial and then decreasing towards the bothrial surface of the tentacle, hooks 1 and 1′ being separated, and a basal swelling with characteristic billhooks increasing in size towards the bothrial surface. The lack of microscopically

visible microtriches on the scolex distinguishes the new species from P. hispida (Linton, 1890), P. clarkeae Beveridge, 1990, P. thalassia (Kovaks & Schmidt, 1980), P. multidum Friggens & Duszynski, 2005 and P. cairae Schaeffner & Beveridge, 2012. Prochristianella garshaspi n. sp. can be distinguished from the remaining species within the genus by a combination of the following morphological features: the presence of numerous gland-cells within the tentacular bulbs, the number of rows on the basal swelling, the number of hooks per half spiral row, the size of the principal hooks, the number of the testes and the presence of an external seminal vesicle.

SCHAEFFNER, B.C. & BEVERIDGE, I. (2013): Prochristianella mattisi sp. n. (Trypanorhyncha: Eutetrarhynchidae) from the wedgenose skate, Dipturus whitleyi (Rajiformes: Rajidae), from Tasmania (Australia). *Folia Parasitologica, 60 (3): 257-263*

New Species: Prochristianella mattisi

Abstract: A new species of Prochristianella Dollfus, 1946 is described from the spiral intestine of the wedgenose skate, Dipturus whitleyi (Iredale) (Rajiformes: Rajidae), off the north-western coast of Tasmania (Australia). Prochristianella mattisi sp. n. is characterised by an acraspedote scolex, two oval bothria, elongate, bent bulbs, a retractor muscle inserting at the base of each bulb and the presence of gland-cells within the bulbs and prebulbar organs. The tentacular armature is typical heteroacanthous, heteromorphous, with a characteristic basal oncotaxy and a metabasal armature with hooks first increasing and then decreasing in size along each principle row. It can be differentiated from other species of Prochristianella by a combination of morphological characters, such as the metabasal tentacular armature with eight hooks per principle row, a unique basal armature without enlarged hooks on the basal swelling and genital pores slightly posterior to the mid-line of the segment. The description of P. mattisi sp. n. increases the number of known species within Prochristianella to 20, eight of which occur in Australian waters. A key for the identification to species within Prochristianella is provided.

DIPPENAAR, S.M. & LEBEPE, M.C. (2013): Two new species of Pupulina van Beneden, 1892 (Copepoda: Siphonostomatoida: Caligidae) from mobulid rays off South Africa. *Systematic Parasitology, 85 (1): 27-35* http://dx.doi.org/10.1007/s11230-013-9406-y

New Species: Pupulina cliffi, Pupulina merira

Abstract: The caligid genus Pupulina van Beneden, 1892 currently has three accepted species. Two new species, Pupulina cliffi n. sp. and P. merira n. sp., are described from Mobula kuhlii (Muller & Henle) and M. eregoodootenkee (Bleeker) (Mobulidae) caught along the east coast of South Africa. Pupulina cliffi can be distinguished from all the other species by the absence of posterolateral processes on the genital complex, whereas P. merira has very short, rounded posterolateral processes on the genital complex compared to the three previously known species. Additionally, P. merira is the only species with the abdomen only about two-thirds the length of the genital complex and the caudal rami about the same length as the abdomen. A dichotomous key to distinguish the five species of Pupulina is provided.

3.4 Distribution

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3.5 Reproduction

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3.6 Diet

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3.7 Size

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3.8 Taxonomy

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4. Index (only Genera)