

Список литературы

- [1] G. Arratia, K. A. González-Rodríguez, and C. Hernández-Guerrero, A new Pachyrhizodontid Fish (Actinopterygii, Teleostei) from the Muhi Quarry (Albian-Cenomanian), Hidalgo, Mexico, *Fossil Record* **21**(1), 93–107 (2018).
- [2] L. Agassiz, *Recherches sur les Poissons Fossiles. Tome II*, 1833.
- [3] R. Doiuchi and T. Nakabo, The *Sphyaena obtusata* group (Perciformes: Sphyaenidae) with a description of a new species from southern Japan, *Ichthyological Research* **52**, 132–151 (2005).
- [4] A. J. Mainwaring, Anatomical and Systematic review of the Pachycormidae, a family of Mesozoic fossil fishes, page 162 (1978).
- [5] M. R. Sánchez-Villagra, R. J. Asher, A. D. Rincón, A. A. Carlini, P. A. Meylan, and R. W. Purdy, New faunal reports for the cerro La Cruz locality (Lower Miocene), north-eastern Venezuela, *Special Papers in Palaeontology* **71**, 105–112 (2004).
- [6] R. Betancur-R, E. O. Wiley, G. Arratia, A. Acero, N. Bailly, M. Miya, G. Lecointre, and G. Ortí, Phylogenetic classification of bony fishes, *BMC Evolutionary Biology* **17**(162), 1–40 (2017).
- [7] H. W. Fowler, New and little known Mugilidae and Sphyaenidae, *Proceedings of the Academy of Natural Sciences of Philadelphia* **55**(1903), 743–752 (1903).
- [8] R. Brzobohatý and D. Nolf, Fish otoliths from the middle Eocene (Bartonian) of Yebra de Basa, province of Huesca, Spain, *Bulletin de l’Institut Royal des Sciences Naturelles de Belgique, Sciences de la Terre* **81**, 279–295 (2011).
- [9] E. D. Cope, Synopsis of the Vertebrata of the Miocene of Cumberland County, New Jersey, *Proceedings of the American Philosophical Society* **14**(94), 361–364 (1875).
- [10] J. D. Bryant, New early Barstovian (Middle Miocene) vertebrates from the upper Torreya Formation, Eastern Florida Panhandle, *Journal of Vertebrate Paleontology* **11**(4), 472–489 (1991).
- [11] K. Okonechnikov, O. Golosova, M. Fursov, A. Varlamov, Y. Vaskin, I. Efremov, O. G. German Grehov, D. Kandrov, K. Rasputin, M. Syabro, and T. Tleukenov, Unipro UGENE: A unified bioinformatics toolkit, *Bioinformatics* **28**, 1166–1167 (2012).
- [12] C. Arambourg, Les poissons oligocènes de l’Iran, *Notes et Mémoires sur le Moyen-Orient* **3**, 1–210 (1966).
- [13] J. Amalfitano, L. Giusberti, E. Fornaciari, and G. Carnevale, A reappraisal of the Italian record of the cretaceous Pachycormid Fish *Protosphyraena* Leidy, 1857, *Rivista Italiana di Paleontologia e Stratigrafia* **123**(3), 475–485 (2017).
- [14] L. Dollo and R. Storms, Sur les Téléostéens du Rupélien, *Zoologischer Anzeiger* **11**, 265–267 (1888).
- [15] F. Ronquist, M. Teslenko, P. Van Der Mark, D. L. Ayres, A. Darling, S. Höhna, B. Larget, L. Liu, M. A. Suchard, and J. P. Huelsenbeck, MrBayes 3.2: Efficient bayesian phylogenetic inference and model choice across a large model space, *Systematic Biology* **61**(3), 539–542 (2012).
- [16] R Core Development Team, R: A language and environment for statistical computing, 2017.
- [17] A. F. Bannikov, *Iskopaemye pozvonochnye Rossii i sopredel’nykh stran. Iskopaemye kolyucheperye ryby (Teleostei, Acanthopterygii)*, GEOS, Moscow, 2010.
- [18] J. Leidy, Notice of remains of extinct vertebrated animals of New-Jersey, collected by Prof. Cook of the State Geological Survey under the direction of Dr. W. Kitchell, *Proceedings of the Academy of Natural Sciences of Philadelphia* **8**, 220–221 (1856).
- [19] W. v. W. Weiler, Neue Untersuchungen an Mitteloligozänen Fischen Ungarns, *Geologica Hungarica. Series Palaeontologica* **15**(1-30) (1938).

- [20] D. A. Bone, J. A. Todd, and S. Tracey, Fossils from the Bracklesham Group exposed in the M27 Motorway excavations, Southampton, Hampshire, Tertiary Research **12**(3-4), 131–137 (1991).
- [21] FAO-FIGIS, *Trachurus trachurus*, in *A World Overview of Species of Interest to Fisheries*, pages 1–3, FAO, Rome, 2005.
- [22] R. S. Rana, Palaeontology and palaeoecology of the intertrappean (Cretaceous-Tertiary transition) beds of the Peninsular India, Journal of the Palaeontological Society of India **35**, 105–120 (1990).
- [23] J. Leidy, Indications of twelve species of fossil Fishes, Proceedings of the Academy of Natural Sciences of Philadelphia **7**, 395–397 (1855).
- [24] J. R. Grubich, A. N. Rice, and M. W. Westneat, Functional morphology of bite mechanics in the Great Barracuda (*Sphyraena barracuda*), Zoology **111**(1), 16–29 (jan 2008).
- [25] D. Bardack, Anatomy and evolution of Chirocentrid fishes, University of Kansas Paleontological Contributions **10**, 1–86 (1969).
- [26] E. Casier, La faune ichthyologique de l’Yprésien de la Belgique, Mémoires du Musée Royal d’Histoire Naturelle de Belgique **104**, 1–267 (1946).
- [27] O. Mateus, P. M. Callapez, M. J. Polcyn, A. S. Schulp, A. O. Gonçalves, and L. L. Jacobs, The Fossil Record of Biodiversity in Angola Through Time: A Paleontological Perspective, Biodiversity of Angola , 53–76 (2019).
- [28] M. Friedman and G. Carnevale, The Bolca Lagerstätten: shallow marine life in the Eocene, Journal of the Geological Society **175**(4), 569–579 (2018).
- [29] K. A. Monsch, *The Phylogeny of the Scombroid Fishes*, PhD thesis, 2000.
- [30] A. F. Bannikov, Revision of the Atheriniform fish genera *Rhamphognathus* Agassiz and *Mesogaster* Agassiz (Teleostei) From the Eocene of Bolca, northern Italy, Studie Ricerche sui Giacimenti Terziari di Bolca **9**, 65–76 (2008).
- [31] J. S. Nelson, T. Grande, and M. V. H. Wilson, *Fishes of the World*, John Wiley & Sons, New Jersey, 5 edition, 2016.
- [32] M. A. Pastore, *Sphyraena intermedia* sp. nov. (Pisces: Sphyraenidae): a potential new species of barracuda identified from the central Mediterranean Sea, Journal of the Marine Biological Association of the United Kingdom **89**(6), 1299–1303 (2009).
- [33] P. L. Forey, The osteology of *Notelops* Woodward, *Rhacolepis* Agassiz and *Pachyrhizodus* Dixon (Pisces: Teleostei), Bulletin of the British Museum (Natural History) **28**(2), 123–204 (1977).
- [34] G. Mas, Ictiofauna del Pliocè mitjà-superior de la conca sedimentària de Palma (Illes Balears, Mediterrània Occidental). Implicacions paleoambientals, Bolleti de la Societat d’Historia Natural de les Balears **43**, 39–61 (2000).
- [35] D. Nolf, *Handbook of Paleoichthyology. Otolithi Piscium*, Gustav Fischer Verlag, 1985.
- [36] I. Hays, Description of a fragment of the head of a new fossil animal, discovered in a Marl Pit, near Moorestown, New Jersey, Transactions of the American Philosophical Society **3**, 471–477 (1830).
- [37] J. D. Carrillo-Briceño, A. E. Reyes-Cespedes, R. Salas-Gismondi, and R. Sánchez, A new vertebrate continental assemblage from the Tortonian of Venezuela, Swiss Journal of Palaeontology **0123456789** (2018).
- [38] R. Fricke, M. Kulbick, and L. Wantiez, Checklist of the fishes of New Caledonia, and their distribution in the Southwest Pacific Ocean (Pisces), Stuttgarter Beiträge zur Naturkunde A, New Series **4**, 341–463 (2011).

- [39] A. S. Woodward, *Catalogue of the Fossil Fishes in the British Museum (Natural History). Part III*, Taylor & Francis, London, 1895.
- [40] P. Artedi, *Petri Artedi Angermannia-Sueci synonymia nominum piscium fere omnium;... Ichthyologiae pars IV. Editio II. Grypeswaldiae*, 1793.
- [41] R. Fricke, W. N. Eschmeyer, and R. van der Laan, Eschmeyer’s catalog of Fishes: Genera, species, references, 2019.
- [42] F. Fanti, D. Minelli, G. L. Conte, and T. Miyashita, An exceptionally preserved Eocene Shark and the rise of modern predator–prey interactions in the coral reef food web, *Zoological Letters* **2**, 2–18 (2016).
- [43] D. P. de Sylva, Systematics and life history of the great barracuda *Sphyræna barracuda* (Walbaum), *Studies in Tropical Oceanography* **1**, 1–179 (1963).
- [44] F. T. W. Dames, Über eine tertiäre Wirbelthier-fauna von der westlichen Insel Birket-el-Qurun im Fajum (Aegypten)., *Sitzungsber . d . kgl . pr . Akad . d . Wiss. zu Berlin* **6**, 129–135 (1883).
- [45] M. E. Páramo-Fonseca, Los peces de la familia Pachyrhizodontidae (Teleostei) del Turoniano del Valle Superior del Magdalena, *Boletín Geológico Ingeominas* **39**, 47–83 (2001).
- [46] G. P. Whitley, New sharks and fishes from Western Australia. Part 3, *Australian Zoologist* **11**(2), 129–150 (1947).
- [47] T. A. Deméré, M. A. Roeder, R. M. Chandler, and J. A. Minch, Paleontology of the middle Miocene Los Indios Member of the Rosarito Formation, northwestern Baja California, Mexico, in *Miocene and Cretaceous Depositional Environments, Northwestern Baja California, Mexico*, edited by J. A. Minch and J. R. Ashby, pages 47–56, Pacific Section AAPG, Baja California, 1984.
- [48] J. R. Bourque, Fossil Kinosternidae from the Oligocene and Miocene of Florida, USA, in *Morphology and Evolution of Turtles*, pages 459–475, Springer Sciences+Business Media, Dordrecht, 2013.
- [49] F. Santini, G. Carnevale, and L. Sorenson, First timetree of Sphyrænidae (Percomorpha) reveals a Middle Eocene crown age and an Oligo–Miocene radiation of Barracudas, *Italian Journal of Zoology* **82**(1), 133–142 (2015).
- [50] D. Darriba, G. L. Taboada, R. Doallo, and D. Posada, jModelTest 2: more models, new heuristics and parallel computing, *Nature Methods* **9**(8), 772–772 (aug 2012).
- [51] W. F. Rapp, Check list of the fossil fishes of New Jersey, *Journal of Paleontology* **20**(5), 510–513 (1946).
- [52] S. Marsili, G. Carnevale, E. Danese, G. Bianucci, and W. Landini, Early Miocene vertebrates from Montagna della Maiella, Italy, *Annales de Paléontologie* **93**(1), 27–66 (jan 2007).
- [53] E. Casier, Contributions a l’étude des poissons fossiles de la Belgique. VII. Morphologie du dentaire de *Sphyrænodus lerichei* Casier, *Bulletin du Musée Royal d’Histoire Naturelle de Belgique* **20**(23), 1–8 (1944).
- [54] B. Huyghebaert and D. Nolf, on fish-otoliths, published since 1968, *Mededelingen van de Werkgroep voor Tertiaire en Kwartaire Geologie* **16**(4), 139–170 (1979).
- [55] W. E. Bemis, A. Giuliano, and B. McGuire, Structure, attachment, replacement and growth of teeth in bluefish, *Pomatomus saltatrix* (Linnaeus, 1766), a teleost with deeply socketed teeth, *Zoology* **108**(4), 317–327 (2005).
- [56] I. Nakamura, *FAO Species Catalogue. Volume 5. Billfishes of the World*, volume 5, FAO, Rome, 1985.

- [57] E. T. Newton, On the remains of *Hypsodon*, *Porthoeus*, and *Ichthyodectes* from British Cretaceous strata, with descriptions of new species, *Quarterly Journal of the Geological Society* **33**(1-4), 505–523 (1877).
- [58] F. Bassani, Ricerche sui pesci fossili di Chiavon (Strati di Sotzka - Miocene Inferiore), *Atti della Reale Accademia delle Scienze Fisiche e Matematiche* **3**(2), 1–100 (1889).
- [59] A. S. Woodward, *Catalogue of the Fossil Fishes in the British Museum (Natural History). Part IV*, Taylor & Francis, London, 1901.
- [60] J. Leidy, Description of vertebrate remains chiefly from the phosphate beds of South Carolina, *Journal of the Academy of Natural Sciences* **8**(3), 209–261 (1877).
- [61] E. I. White, Eocene Fishes from Nigeria, *Bulletin of the Geological Survey of Nigeria* **10**, 1–82 (1926).
- [62] A. J. W. Hendy, D. S. Jones, F. Moreno, V. Zapata, and C. A. Jaramillo, Neogene molluscs, shallow marine paleoenvironments, and chronostratigraphy of the Guajira Peninsula, Colombia, *Swiss Journal of Palaeontology* , 1–31 (2015).
- [63] K. Katoh and D. M. Standley, MAFFT multiple sequence alignment software version 7: Improvements in performance and usability, *Molecular Biology and Evolution* **30**(4), 772–780 (2013).
- [64] D. Nolf, Deuxième note sur les Téléostéens des sabens de Lede (Éocène Belge), *Bulletin de la Societe Belge de Geologie, Paleontologie et Hydrologie* **81**(1-2), 95–109 (1972).
- [65] H. Senou, Sphyrænidae, in *The Living Marine Resources of the Western Central Pacific. Volume 6*, edited by K. E. Carpenter and V. H. Niem, pages 3685–3697, FAO, Rome, 2001.
- [66] D. D. Gillette, A marine ichthyofauna from the Miocene of Panama, and the Tertiary Caribbean Faunal Province, *Journal of Vertebrate Paleontology* **4**(2), 172–186 (1984).
- [67] A. S. Woodward, *Catalogue of the Fossil Fishes in the British Museum (Natural History). Part I*, Taylor & Francis, London, 1889.
- [68] L. Agassiz, *Nomina Systematica Generum Piscium, tam Viventum Quam Fossilum*, 1846.
- [69] L. Agassiz, *Recherches sur les Poisson Fossiles. Tome III*, 1833.
- [70] C. E. Ray, A. Wetmore, D. H. Dunkle, and P. Drez, Fossil vertebrates from the marine Pleistocene of southeastern Virginia, *Smithsonian Miscellaneous Collections* **153**(3), 1–25 (1968).
- [71] F. Quillévéré, E. Koskeridou, J.-J. Cornée, P. Moissette, A. Girone, and K. Agiadi, Pleistocene marine fish invasions and paleoenvironmental reconstructions in the eastern Mediterranean, *Quaternary Science Reviews* **196**, 80–99 (2018).
- [72] O. Schultz, R. Brzobohatý, and O. Kroupa, Fish teeth from the Middle Miocene of Kienberg at Mikulov, Czech Republic, Vienna Basin, *Annalen des Naturhistorischen Museums in Wien, Serie A* **112**, 489–506 (2010).
- [73] S. Díaz-Franco and R. Rojas-Consuegra, Dientes fósiles de *Sphyræna* (Perciformes: Sphyrænidae) en el Terciario de Cuba Occidental, *Solenodon* **8**, 124–129 (2009).
- [74] J. Böhm, Ueber tertiäre Versteinerungen von den hogenfelder Diamantfeldern, in *Die Diamantenwüste Sudwestafrikasfrikas. Vol II*, edited by E. Kaiser, pages 55–87, Berlin, 1926.
- [75] J. W. Westgate, Lower vertebrates from the late Eocene Crow Creek local fauna, St. Francis County, Arkansas, *Journal of Vertebrate Paleontology* **4**(4), 536–546 (1984).
- [76] M. D. Gottfried, K. E. Samonds, S. A. Ostrowski, T. H. Andrianavalona, and T. N. Ramihangihajason, New evidence indicates the presence of Barracuda (Sphyrænidae) and supports a tropical marine environment in the Miocene of Madagascar, *PLoS ONE* **12**(5), 1–9 (2017).

- [77] ICZN, *International Code of Zoological Nomenclature*, The International Trust for Zoological Nomenclature, London, 4th edition, 1999.
- [78] R. Harlan, On a new fossil genus, of the order Enalio Sauri (of Conybeare): and on a new species of Ichthyosaurus, Journal fo the Academy of Natural Sciences of Philadelphia **3**, 331–338 (1824).
- [79] E. Casier, Contributions à l'étude des Poissons fossiles de la Belgique. VI. Sur le Sphyaenodus de l'Eocene e sur la présence d'un Sphyaenidé dans le Bruxellien (Lutétien inférieur), Bulletin de l'Institut Royal des Sciences Naturelles de Belgique **20**(11), 11–15 (1944).
- [80] A. S. Woodward, *Catalogue of the Fossil Fishes in the British Museum (Natural History). Part II*, Taylor & Francis, London, 1891.
- [81] STRINGER, GARY L., Department of Ge, Paleoenvironmental Interpretations Based on Vertebrate Fossil Assemblages: An Example of their Utilization in the Gulf Coast, AAPG Bulletin **85** (2003).
- [82] M. E. Páramo-Fonseca, *Bachea huilensis* nov. gen., nov. sp., premier Tselfatioidei (Teleostei) de Colombie, Comptes Rendus de l'Academie de Sciences - Serie IIa: Sciences de la Terre et des Planetes **325**(2), 147–150 (1997).
- [83] F. Chapman, Descriptions of fossil fish from New Zealand, Transactions and Proceedings of the Royal Society of New Zealand **64**, 117–121 (1935).
- [84] D. P. de Sylva and F. Williams, Sphyaenidae, in *Smiths' Sea Fishes*, edited by M. M. Smith and P. C. Heemstra, pages 721–726, Macmillan South Africa, Johannesburg, 1986.
- [85] C. E. Ray and D. J. Bohaska, *Geology and Paleontology of the Lee Creek Mine, North Carolina, III*, Number 90, Washington DC, smithsonia edition, 2001.
- [86] C. Patterson, An overview of the early fossil record of Acanthomorphs, Bulletin of Marine Science **52**(1), 29–59 (1993).
- [87] D. Bardack and G. Sprinkle, Morphology and relationships of saurocephalid fishes, Fieldiana Geology **16**, 297–340 (1969).
- [88] K. A. Monsch, Revision of the scombroid fishes from the Cenozoic of England, Transactions of the Royal Society of Edinburgh: Earth Sciences **95**(November 2016), 445–489 (2005).
- [89] L. Agassiz, *Recherches sur les Poissons Fossiles. Tome IV*, 1833.
- [90] F. Moreno, A. J. W. Hendy, L. Quiroz, N. Hoyos, D. S. Jones, V. Zapata, S. Zapata, G. A. Ballen, E. Cadena, A. L. Cárdenas, J. D. Carrillo-Briceño, J. D. Carrillo, D. Delgado-Sierra, J. Escobar, J. I. Martínez, C. Martínez, C. Montes, J. Moreno, N. Pérez, R. Sánchez, C. Suárez, M. C. Vallejo-Pareja, and C. A. Jaramillo, Revised stratigraphy of Neogene strata in the Cocinetas Basin, La Guajira, Colombia, Swiss Journal of Palaeontology **134**, 5–43 (2015).
- [91] L. Agassiz, *Recherches sur les Poissons Fossiles. Tome I*, 1833.
- [92] R. Van der Laan, Family-group names of fossil fishes, European Journal of Taxonomy (466), 1–167 (2018).
- [93] S. E. Meek and R. G. Newland, A review of the American species of the genus *Sphyaena*, Proceedings of the Academy of Natural Sciences of Philadelphia **36**, 67–75 (1884).
- [94] G. L. Stringer, S. Q. Breard, and M. Kontrovitz, Biostratigraphy and Paleoecology of Diagnostic Invertebrates and Vertebrates from the Type Locality of the Oligocene Rosefiled Marl Beds, Louisiana, Gulf Coast Association of Geological Societies Transactions **LI**, 321–328 (2001).
- [95] E. D. Cope, Synopsis of the Batrachia and Reptilia of North America. Part I, Transactions of the American Philosophical Society **14**, 1–252 (1869).

- [96] A. A. Switchenska, A new genus from the family Sphyraeniadae from the middle Miocene of Transcaucasia, in *Ocherki po Filogenii i Sistematike Iskopaemykh Ryb I Beschelyustnykh*, pages 157–161, 1968.
- [97] L. Agassiz, *Recherches sur les Poisson Fossiles. Tome V*, 1843.
- [98] L. W. Viñola-López, R. Rojas-Consuegra, and O. Jiménez-Vásquez, Nuevos registros de *Sphyraena* (Perciformes: Sphyraenidae) para el Neógeno de Cuba y La Española, *Novitates Caribaea* **11**, 89–94 (2017).
- [99] NCBI, *Entrez Programming Utilities Help*, Number Md, NCBI, Bethesda, 2018.
- [100] L. Taverne and B. Chanet, *Faugichthys loryi* n. gen., n. sp. (Teleostei, Ichthyodectiformes) de l’Albien terminal (Crétacé inférieur marin) du vallon de la Fauge (Isère, France) et considérations sur la phylogénie des Ichthyodectidae, *Geodiversitas* **22**(1), 23–34 (2000).
- [101] J. L. B. Smith, The fishes of the family Sphyraenidae in the western Indian Ocean, *Ichthyological Bulletin of the Department of Ichthyology of Rhodes University* **3**, 37–46 (1956).
- [102] V. d. A. Távara, A. A. R. dos Santos, and R. N. Araújo, Localidades fossilíferas da Formação Pirabas (Mioceno Inferior), *Boletim do Museu Paraense Emilio Goeldi Ciencias Naturais* **5**(2), 207–224 (2010).