

Список литературы

- [1] Arratia Gloria, González-Rodríguez Katia A., Hernández-Guerrero Citlalli. A new Pachyrhizodontid Fish (Actinopterygii, Teleostei) from the Muhi Quarry (Albian-Cenomanian), Hidalgo, Mexico *Fossil Record*. 2018;21:93–107.
- [2] Agassiz Louis. *Recherches sur les Poissons Fossiles. Tome II* . 1833.
- [3] Doiuchi Ryu, Nakabo Tetsuji. The *Sphyraena obtusata* group (Perciformes: Sphyraenidae) with a description of a new species from southern Japan *Ichthyological Research*. 2005;52:132–151.
- [4] Mainwaring A. J.. Anatomical and Systematic review of the Pachycormidae, a family of Mesozoic fossil fishes 1978:162.
- [5] Sánchez-Villagra Marcelo R, Asher Robert J, Rincón Ascanio D, Carlini Alfredo A, Meylan Peter A, Purdy Robert W. New faunal reports for the cerro La Cruz locality (Lower Miocene), north-eastern Venezuela *Special Papers in Palaeontology*. 2004;71:105–112.
- [6] Betancur-R Ricardo, Wiley Edward O, Arratia Gloria, et al. Phylogenetic classification of bony fishes *BMC Evolutionary Biology*. 2017;17:1–40.
- [7] Fowler Henry W. New and little known Mugilidae and Sphyraenidae *Proceedings of the Academy of Natural Sciences of Philadelphia*. 1903;55:743–752.
- [8] Brzobohatý Rostislav, Nolf Dirk. 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*. 2011;81:279–295.
- [9] Cope Edward D. Synopsis of the Vertebrata of the Miocene of Cumberland County , New Jersey *Proceedings of the American Philosophical Society*. 1875;14:361–364.
- [10] Bryant J Daniel. New early Barstovian (Middle Miocene) vertebrates from the upper Torreya Formation, Eastern Florida Panhandle *Journal of Vertebrate Paleontology*. 1991;11:472–489.
- [11] Okonechnikov Konstantin, Golosova Olga, Fursov Mikhail, et al. Unipro UGENE: A unified bioinformatics toolkit *Bioinformatics*. 2012;28:1166–1167.
- [12] Arambourg Camille. Les poissons oligocènes de l'Iran *Notes et Mémoires sur le Moyen-Orient*. 1966;3:1–210.
- [13] Amalfitano J., Giusberti L., Fornaciari E., Carnevale Giorgio. A reappraisal of the Italian record of the cretaceous Pachycormid Fish *Protosphyraena* Leidy, 1857 *Rivista Italiana di Paleontologia e Stratigrafia*. 2017;123:475–485.
- [14] Dollo Louis, Storms Raymond. Sur les Téléostéens du Rupélien *Zoologischer Anzeiger*. 1888;11:265–267.
- [15] Ronquist Fredrik, Teslenko Maxim, Van Der Mark Paul, et al. MrBayes 3.2: Efficient bayesian phylogenetic inference and model choice across a large model space *Systematic Biology*. 2012;61:539–542.
- [16] R Core Development Team . R: A language and environment for statistical computing 2017.
- [17] Bannikov Alexandre F. *Iskopaemye pozvonochnye Rossii i sopredel'nykh stran. Iskopaemye kolyucheperye ryby (Teleostei, Acanthopterygii)*. Moscow: GEOS 2010.
- [18] Leidy Joseph. 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*. 1856;8:220–221.
- [19] Weiler Worms von Wilhelm. Neue Untersuchungen an Mitteloligozänen Fischen Ungarns *Geologica Hungarica. Series Palaeontologica*. 1938;15.

- [20] Bone David A, Todd Jonathan A, Tracey Steve. Fossils from the Bracklesham Group exposed in the M27 Motorway excavations, Southampton, Hampshire *Tertiary Research*. 1991;12:131–137.
- [21] FAO-FIGIS . *Trachurus trachurus* in *A World Overview of Species of Interest to Fisheries*:1–3Rome: FAO 2005.
- [22] Rana Rajendra Singh. Palaeontology and palaeoecology of the intertrappean (Cretaceous-Tertiary transition) beds of the Peninsular India *Journal of the Palaeontological Society of India*. 1990;35:105–120.
- [23] Leidy Joseph. Indications of twelve species of fossil Fishes *Proceedings of the Academy of Natural Sciences of Philadelphia*. 1855;7:395–397.
- [24] Grubich Justin R, Rice Aaron N, Westneat Mark W. Functional morphology of bite mechanics in the Great Barracuda (*Sphyraena barracuda*) *Zoology*. 2008;111:16–29.
- [25] Bardack David. Anatomy and evolution of Chirocentrid fishes *University of Kansas Paleontological Contributions*. 1969;10:1–86.
- [26] Casier Edgard. La faune ichthyologique de l’Yprésien de la Belgique *Mémoires du Musée Royal d’Histoire Naturelle de Belgique*. 1946;104:1–267.
- [27] Mateus Octávio, Callapez Pedro M., Polcyn Michael J., Schulp Anne S., Gonçalves António Olímpio, Jacobs Louis L.. The Fossil Record of Biodiversity in Angola Through Time: A Paleontological Perspective *Biodiversity of Angola*. 2019:53–76.
- [28] Friedman Matt, Carnevale Giorgio. The Bolca Lagerstätten: shallow marine life in the Eocene *Journal of the Geological Society*. 2018;175:569–579.
- [29] Monsch Kenneth Anthony. *The Phylogeny of the Scombroid Fishes*. PhD thesis 2000.
- [30] Bannikov Alexandre F. 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*. 2008;9:65–76.
- [31] Nelson J S, Grande Terry, Wilson Mark V H. *Fishes of the World*. New Jersey: John Wiley & Sons5 ed. 2016.
- [32] Pastore Michele A.. *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*. 2009;89:1299–1303.
- [33] Forey Peter L. The osteology of *Notelops* Woodward, *Rhacolepis* Agassiz and *Pachyrhizodus* Dixon (Pisces: Teleostei) *Bulletin of the British Museum (Natural History)*. 1977;28:123–204.
- [34] Mas Guillem. 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*. 2000;43:39–61.
- [35] Nolf Dirk. *Handbook of Paleoichthyology. Otolithi Piscium*. Gustav Fischer Verlag 1985.
- [36] Hays Isaac. 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*. 1830;3:471–477.
- [37] Carrillo-Briceño Jorge D, Reyes-Cespedes Andrés E, Salas-Gismondi Rodolfo, Sánchez Rodolfo. A new vertebrate continental assemblage from the Tortonian of Venezuela *Swiss Journal of Palaeontology*. 2018;0123456789.
- [38] Fricke Ronald, Kulbick Michel, Wantiez Laurent. Checklist of the fishes of New Caledonia, and their distribution in the Southwest Pacific Ocean (Pisces) *Stuttgarter Beiträge zur Naturkunde A, New Series*. 2011;4:341–463.

- [39] Woodward Arthur Smith. *Catalogue of the Fossil Fishes in the British Museum (Natural History). Part III*. London: Taylor & Francis 1895.
- [40] Arteni P. *Petri Arteni Angermannia-Sueci synonymia nominum piscium fere omnium;... Ichthyologiae pars IV. Editio II. Grypeswaldiae* . 1793.
- [41] Fricke R, Eschmeyer W N, Laan R. Eschmeyer’s catalog of Fishes: Genera, species, references 2019.
- [42] Fanti Federico, Minelli Daniela, Conte Gabriele Larocca, Miyashita Tetsuto. An exceptionally preserved Eocene Shark and the rise of modern predator–prey interactions in the coral reef food web *Zoological Letters*. 2016;2:2–18.
- [43] Sylva Donald P. Systematics and life history of the great barracuda *Sphyræna barracuda* (Walbaum) *Studies in Tropical Oceanography*. 1963;1:1–179.
- [44] Dames F T W. Über eine tertiäre Wirbelthier-fauna von der westlichen Insel Birket-el-Qurun im Fajum (Aegypten). *Sitzungsber . d . kgl . pr . Akad . d . Wiss. zu Berlin*. 1883;6:129–135.
- [45] Páramo-Fonseca María Eurídice. Los peces de la familia Pachyrhizodontidae (Teleostei) del Turoniano del Valle Superior del Magdalena *Bolteín Geológico Ingeominas*. 2001;39:47–83.
- [46] Whitley G P. New sharks and fishes from Western Australia. Part 3 *Australian Zoologist*. 1947;11:129–150.
- [47] Deméré Thomas A, Roeder Mark A, Chandler Robert M, Minch John A. 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* (Minch John A, Ashby James R. , eds.):47–56Baja California: Pacific Section AAPG 1984.
- [48] Bourque Jason R. Fossil Kinosternidae from the Oligocene and Miocene of Florida, USA in *Morphology and Evolution of Turtles*:459–475Dordrecht: Springer Sciences+Business Media 2013.
- [49] Santini F, Carnevale G, Sorenson L. First timetree of Sphyrænidae (Percomorpha) reveals a Middle Eocene crown age and an Oligo–Miocene radiation of Barracudas *Italian Journal of Zoology*. 2015;82:133–142.
- [50] Darriba Diego, Taboada Guillermo L, Doallo Ramón, Posada David. jModelTest 2: more models, new heuristics and parallel computing *Nature Methods*. 2012;9:772–772.
- [51] Rapp William F. Check list of the fossil fishes of New Jersey *Journal of Paleontology*. 1946;20:510–513.
- [52] Marsili Stefano, Carnevale Giorgio, Danese Ermanno, Bianucci Giovanni, Landini Walter. Early Miocene vertebrates from Montagna della Maiella, Italy *Annales de Paléontologie*. 2007;93:27–66.
- [53] Casier Edgard. Contributions a l’etude des poissons fossiles de la Belgique. VII. Morphologie du dentaire de Sphyrænodus lerichei Casier *Bulletin du Musée Royal d’Histoire Naturelle de Belgique*. 1944;20:1–8.
- [54] Huyghebaert Beatrijs, Nolf Dirk. on fish-otoliths, published since 1968 *Mededelingen van de Werkgroep voor Tertiaire en Kwartaire Geologie*. 1979;16:139–170.
- [55] Bemis William E., Giuliano Anne, McGuire Betty. Structure, attachment, replacement and growth of teeth in bluefish, *Pomatomus saltatrix* (Linnaeus, 1766), a teleost with deeply socketed teeth *Zoology*. 2005;108:317–327.
- [56] Nakamura Izumi. *FAO Species Catalogue. Volume 5. Billfishes of the World*;5. Rome: FAO 1985.
- [57] Newton E Tulley. On the remains of *Hypsodon*, *Portheus*, and *Ichthyodectes* from British Cretaceous strata, with descriptions of new species *Quarterly Journal of the Geological Society*. 1877;33:505–523.

- [58] Bassani Francesco. Ricerche sui pesci fossili di Chiavon (Strati di Sotzka - Miocene Inferiore) *Atti della Reale Accademia delle Scienze Fisiche e Matematiche*. 1889;3:1–100.
- [59] Woodward Arthur Smith. *Catalogue of the Fossil Fishes in the British Museum (Natural History). Part IV*. London: Taylor & Francis 1901.
- [60] Leidy Joseph. Description of vertebrate remains chiefly from the phosphate beds of South Carolina *Journal of the Academy of Natural Sciences*. 1877;8:209–261.
- [61] White Errol Ivor. Eocene Fishes from Nigeria *Bulletin of the Geological Survey of Nigeria*. 1926;10:1–82.
- [62] Hendy Austin J. W., Jones Douglas S., Moreno Federico, Zapata Vladimir, Jaramillo Carlos A. Neogene molluscs, shallow marine paleoenvironments, and chronostratigraphy of the Guajira Peninsula, Colombia *Swiss Journal of Palaeontology*. 2015:1–31.
- [63] Katoh Kazutaka, Standley Daron M.. MAFFT multiple sequence alignment software version 7: Improvements in performance and usability *Molecular Biology and Evolution*. 2013;30:772–780.
- [64] Nolf Dirk. Deuxième note sur les Téléostéens des sabens de Lede (Éocène Belge) *Bulletin de la Societe Belge de Geologie, Paleontologie et Hydrologie*. 1972;81:95–109.
- [65] Senou H. Sphyraenidae in *The Living Marine Resources of the Western Central Pacific. Volume 6* (Carpenter K E, Niem V H. , eds.):3685–3697 Rome: FAO 2001.
- [66] Gillette David D. A marine ichthyofauna from the Miocene of Panama, and the Tertiary Caribbean Faunal Province *Journal of Vertebrate Paleontology*. 1984;4:172–186.
- [67] Woodward Arthur Smith. *Catalogue of the Fossil Fishes in the British Museum (Natural History). Part I*. London: Taylor & Francis 1889.
- [68] Agassiz Louis. *Nomina Systematica Generum Piscium, tam Viventum Quam Fossilum* . 1846.
- [69] Agassiz Louis. *Recherches sur les Poisson Fossiles. Tome III* . 1833.
- [70] Ray Clayton E, Wetmore Alexander, Dunkle David H, Drez Paul. Fossil vertebrates from the marine Pleistocene of southeastern Virginia *Smithsonian Miscellaneous Collections*. 1968;153:1–25.
- [71] Quillévéré Frédéric, Koskeridou Efterpi, Cornée Jean-Jacques, Moissette Pierre, Girone Angela, Agiadi Konstantina. Pleistocene marine fish invasions and paleoenvironmental reconstructions in the eastern Mediterranean *Quaternary Science Reviews*. 2018;196:80–99.
- [72] Schultz Ortwin, Brzobohatý Rostislav, Kroupa Oldrich. Fish teeth from the Middle Miocene of Kienberg at Mikulov, Czech Republic, Vienna Basin *Annalen des Naturhistorischen Museums in Wien, Serie A*. 2010;112:489–506.
- [73] Díaz-Franco Stephen, Rojas-Consuegra Reinaldo. Dientes fósiles de *Sphyraena* (Perciformes: Sphyraenidae) en el Terciario de Cuba Occidental *Solenodon*. 2009;8:124–129.
- [74] Böhm J. Ueber tertiäre Versteinerungen von den hogenfelder Diamantfeldern in *Die Diamantenwüste Sudwestafrikasfrikas. Vol II* (Kaiser E. , ed.):55–87 1926.
- [75] Westgate James W. Lower vertebrates from the late Eocene Crow Creek local fauna, St. Francis County, Arkansas *Journal of Vertebrate Paleontology*. 1984;4:536–546.
- [76] Gottfried Michael D, Samonds Karen E, Ostrowski Summer A, Andrianavalona Tsiory Harimalala, Ramihangihajason Tolotra Niaina. New evidence indicates the presence of Barracuda (Sphyraenidae) and supports a tropical marine environment in the Miocene of Madagascar *PLoS ONE*. 2017;12:1–9.
- [77] ICZN . *International Code of Zoological Nomenclature*. London: The International Trust for Zoological Nomenclature 4th ed. 1999.

- [78] Harlan R. On a new fossil genus, of the order Enalio Sauri (of Conybeare): and on a new species of Ichthyosaurus *Journal for the Academy of Natural Sciences of Philadelphia.* 1824;3:331–338.
- [79] Casier Edgard. 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.* 1944;20:11–15.
- [80] Woodward Arthur Smith. *Catalogue of the Fossil Fishes in the British Museum (Natural History). Part II.* London: Taylor & Francis 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.* 2003;85.
- [82] Páramo-Fonseca María Eurídice. *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.* 1997;325:147–150.
- [83] Chapman Frederick. Descriptions of fossil fish from New Zealand *Transactions and Proceedings of the Royal Society of New Zealand.* 1935;64:117–121.
- [84] Sylva Donald P, Williams F. Sphyaenidae in *Smiths' Sea Fishes* (Smith M M, Heemstra P C. , eds.):721–726Johannesburg: Macmillan South Africa 1986.
- [85] Ray Clayton E, Bohaska David J. *Geology and Paleontology of the Lee Creek Mine, North Carolina, III.* No. 90smithsonia ed. 2001.
- [86] Patterson C.. An overview of the early fossil record of Acanthomorphs *Bulletin of Marine Science.* 1993;52:29–59.
- [87] Bardack David, Sprinkle G. Morphology and relationships of saurocephalid fishes *Fieldiana Geology.* 1969;16:297–340.
- [88] Monsch Kenneth A.. Revision of the scombroid fishes from the Cenozoic of England *Transactions of the Royal Society of Edinburgh: Earth Sciences.* 2005;95:445–489.
- [89] Agassiz Louis. *Recherches sur les Poissons Fossiles. Tome IV .* 1833.
- [90] Moreno Federico, Hendy A J W, Quiroz Luis, et al. Revised stratigraphy of Neogene strata in the Cocinetas Basin, La Guajira, Colombia *Swiss Journal of Palaeontology.* 2015;134:5–43.
- [91] Agassiz Louis. *Recherches sur les Poissons Fossiles. Tome I* 1833.
- [92] Van der Laan Richard. Family-group names of fossil fishes *European Journal of Taxonomy.* 2018:1–167.
- [93] Meek Seth E, Newland Robert G. A review of the American species of the genus *Sphyaena* *Proceedings of the Academy of Natural Sciences of Philadelphia.* 1884;36:67–75.
- [94] Stringer G L, Breard S Q, Kontrovitz M. Biostratigraphy and Paleocology of Diagnostic Invertebrates and Vertebrates from the Type Locality of the Oligocene Rosefiled Marl Beds, Louisiana *Gulf Coast Association of Geological Societies Transactions.* 2001;LI:321–328.
- [95] Cope E. D.. Synopsis of the Batrachia and Reptilia of North America. Part I *Transactions of the American Philosophical Society.* 1869;14:1–252.
- [96] Switchenska Alexandra A. A new genus from the family Sphyaeniadae from the middle Miocene of Transcaucasia in *Ocherki po Filogenii i Sistematike Iskopaemykh Ryb I Beschelyustnykh:*157–161 1968.
- [97] Agassiz Louis. *Recherches sur les Poisson Fossiles. Tome V .* 1843.

- [98] Viñola-López Lázaro William, Rojas-Consuegra Reinaldo, Jiménez-Vásquez Osvaldo. Nuevos registros de *Sphyraena* (Perciformes: Sphyraenidae) para el Neógeno de Cuba y La Española *Novitates Caribaea*. 2017;11:89–94.
- [99] NCBI . *Entrez Programming Utilities Help*. No. MdBethesta: NCBI 2018.
- [100] Taverne Louis, Chanut Bruno. *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*. 2000;22:23–34.
- [101] Smith J L B. The fishes of the family Sphyraenidae in the western Indian Ocean *Ichthyological Bulletin of the Department of Ichthyology of Rhodes University*. 1956;3:37–46.
- [102] Távora Vladimir de Araújo, Santos André Augusto Rodrigues, Araújo Raphael Neto. Localidades fossilíferas da Formação Pirabas (Mioceno Inferior) *Boletim do Museu Paraense Emilio Goeldi Ciências Naturais*. 2010;5:207–224.