## Список литературы

- [1] Arratia G, González-Rodríguez KA, Hernández-Guerrero C. 2018 A new Pachyrhizodontid Fish (Actinopterygii, Teleostei) from the Muhi Quarry (Albian-Cenomanian), Hidalgo, Mexico. Fossil Record 21, 1, 93–107. (doi:10.5194/fr-21-93-2018).
- [2] Agassiz L. 1833 Recherches sur les Poissons Fossiles. Tome II.
- [3] Doiuchi R, Nakabo T. 2005 The *Sphyraena obtusata* group (Perciformes: Sphyraenidae) with a description of a new species from southern Japan. *Ichthyological Research* **52**, 132–151. (doi: 10.1007/s10228-004-0263-1).
- [4] Mainwaring AJ. 1978 Anatomical and Systematic review of the Pachycormidae, a family of Mesozoic fossil fishes p. 162.
- [5] Sánchez-Villagra MR, Asher RJ, Rincón AD, Carlini AA, Meylan PA, Purdy RW. 2004 New faunal reports for the cerro La Cruz locality (Lower Miocene), north-eastern Venezuela. Special Papers in Palaeontology 71, 105–112.
- [6] Betancur-R R, Wiley EO, Arratia G, Acero A, Bailly N, Miya M, Lecointre G, Ortí G. 2017 Phylogenetic classification of bony fishes. BMC Evolutionary Biology 17, 162, 1–40.
- [7] Fowler HW. 1903 New and little known Mugilidae and Sphyraenidae. *Proceedings of the Academy of Natural Sciences of Philadelphia* **55**, 1903, 743–752.
- [8] Brzobohatý R, Nolf D. 2011 Fish otoliths from the middle Eocene (Bartonian) of Yebra de Basa, province of Huesca, Spain. Bulletin de l'Institut Royal des Sciences Naturelles de Belqique, Sciences de la Terre 81, 279–295.
- [9] Cope ED. 1875 Synopsis of the Vertebrata of the Miocene of Cumberland County, New Jersey. Proceedings of the American Philosophical Society 14, 94, 361–364.
- [10] Bryant JD. 1991 New early Barstovian (Middle Miocene) vertebrates from the upper Torreya Formation, Eastern Florida Panhandle. *Journal of Vertebrate Paleontology* 11, 4, 472–489.
- [11] Okonechnikov K, Golosova O, Fursov M, Varlamov A, Vaskin Y, Efremov I, German Grehov OG, Kandrov D, Rasputin K, Syabro M, et al. 2012 Unipro UGENE: A unified bioinformatics toolkit. Bioinformatics 28, 1166–1167. (doi:10.1093/bioinformatics/bts091).
- [12] Arambourg C. 1966 Les poissons oligocènes de l'Iran. Notes et Mémoires sur le Moyen-Orient 3, 1–210.
- [13] Amalfitano J, Giusberti L, Fornaciari E, Carnevale G. 2017 A reappraisal of the Italian record of the cretaceous Pachycormid Fish Protosphyraena Leidy, 1857. Rivista Italiana di Paleontologia e Stratigrafia 123, 3, 475–485.
- [14] Dollo L, Storms R. 1888 Sur les Téléostéens du Rupélien. Zoologischer Anzeiger 11, 265–267.
- [15] Ronquist F, Teslenko M, Van Der Mark P, Ayres DL, Darling A, Höhna S, Larget B, Liu L, Suchard MA, Huelsenbeck JP. 2012 MrBayes 3.2: Efficient bayesian phylogenetic inference and model choice across a large model space. Systematic Biology 61, 3, 539–542. (doi:10.1093/sysbio/sys029).
- [16] R Core Development Team. 2017. R: A language and environment for statistical computing.
- [17] Bannikov AF. 2010 Iskopaemye pozvonochnye Rossii i sopredel'nykh stran. Iskopaemye kolyucheperye ryby (Teleostei, Acanthopteriqii). Moscow: GEOS.
- [18] Leidy J. 1856 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.
- [19] Weiler WvW. 1938 Neue Untersuchungen an Mitteloligozänen Fischen Ungarns. Geologica Hungarica. Series Palaeontologica 15, 1-30.

- [20] Bone DA, Todd JA, Tracey S. 1991 Fossils from the Bracklesham Group exposed in the M27 Motorway excavations, Southampton, Hampshire. Tertiary Research 12, 3-4, 131–137.
- [21] FAO-FIGIS. 2005 Trachurus trachurus. In: A World Overview of Species of Interest to Fisheries, pp. 1–3. Rome: FAO.
- [22] Rana RS. 1990 Palaeontology and palaeoecology of the intertrappean (Cretaceous-Tertiary transition) beds of the Peninsular India. *Journal of the Palaeontological Society of India* 35, 105–120.
- [23] Leidy J. 1855 Indications of twelve species of fossil Fishes. *Proceedings of the Academy of Natural Sciencies of Philadelphia* 7, 395–397.
- [24] Grubich JR, Rice AN, Westneat MW. 2008 Functional morphology of bite mechanics in the Great Barracuda (*Sphyraena barracuda*). Zoology 111, 1, 16–29. (doi:10.1016/j.zool.2007.05.003).
- [25] Bardack D. 1969 Anatomy and evolution of Chirocentrid fishes. University of Kansas Paleontological Contributions 10, 1–86.
- [26] Casier E. 1946 La faune ichthyologique de l'Yprésien de la Belgique. *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **104**, 1–267.
- [27] Mateus O, Callapez PM, Polcyn MJ, Schulp AS, Gonçalves AO, Jacobs LL. 2019 The Fossil Record of Biodiversity in Angola Through Time: A Paleontological Perspective. *Biodiversity of Angola* pp. 53–76. (doi:10.1007/978-3-030-03083-4).
- [28] Friedman M, Carnevale G. 2018 The Bolca Lagerstätten: shallow marine life in the Eocene. Journal of the Geological Society 175, 4, 569–579. (doi:10.1144/jgs2017-164).
- [29] Monsch KA. 2000 The Phylogeny of the Scombroid Fishes. Ph.D. thesis.
- [30] Bannikov AF. 2008 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.
- [31] Nelson JS, Grande T, Wilson MVH. 2016 Fishes of the World. New Jersey: John Wiley & Sons, 5 ed.
- [32] Pastore MA. 2009 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. (doi:10.1017/S0025315409000575).
- [33] Forey PL. 1977 The osteology of *Notelops* Woodward, *Rhacolepis* Agassiz and *Pachyrhizodus* Dixon (Pisces: Teleostei). *Bulletin of the British Museum (Natural History)* **28**, 2, 123–204.
- [34] Mas G. 2000 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.
- [35] Nolf D. 1985 Handbook of Paleoichthyology. Otolithi Piscium. Gustav Fischer Verlag.
- [36] Hays I. 1830 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.
- [37] Carrillo-Briceño JD, Reyes-Cespedes AE, Salas-Gismondi R, Sánchez R. 2018 A new vertebrate continental assemblage from the Tortonian of Venezuela. *Swiss Journal of Palaeontology* **0123456789**. (doi:10.1007/s13358-018-0180-y).
- [38] Fricke R, Kulbick M, Wantiez L. 2011 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.
- [39] Woodward AS. 1895 Catalogue of the Fossil Fishes in the British Museum (Natural History).

  Part III. London: Taylor & Francis.

- [40] Artedi P. 1793 Petri Artedi Angermannia-Sueci synonymia nominum piscium fere omnium;... Ichthyologiae pars IV. Editio II. Grypeswaldiae.
- [41] Fricke R, Eschmeyer WN, van der Laan R. 2019. Eschmeyer's catalog of Fishes: Genera, species, references.
- [42] Fanti F, Minelli D, Conte GL, Miyashita T. 2016 An exceptionally preserved Eocene Shark and the rise of modern predator–prey interactions in the coral reef food web. *Zoological Letters* 2, 2–18. (doi:10.1186/s40851-016-0045-4).
- [43] de Sylva DP. 1963 Systematics and life history of the great barracuda Sphyraena barracuda (Walbaum). Studies in Tropical Oceanography 1, 1–179.
- [44] Dames FTW. 1883 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.
- [45] Páramo-Fonseca ME. 2001 Los peces de la familia Pachyrhizodontidae (Teleostei) del Turoniano del Valle Superior del Magdalena. Bolteín Geológico Ingeominas 39, 47–83.
- [46] Whitley GP. 1947 New sharks and fishes from Western Australia. Part 3. Australian Zoologist 11, 2, 129–150.
- [47] Deméré TA, Roeder MA, Chandler RM, Minch JA. 1984 Paleontology of the middle Miocene Los Indios Member of the Rosarito Formation, northwestern Baja California, Mexico. In: Minch JA, Ashby JR (eds.), Miocene and Cretaceous Depositional Environments, Northwestern Baja California, Mexico, pp. 47–56. Baja California: Pacific Section AAPG.
- [48] Bourque JR. 2013 Fossil Kinosternidae from the Oligocene and Miocene of Florida, USA. In: *Morphology and Evolution of Turtles*, pp. 459–475. Dodrecht: Springer Sciences+Business Media. (doi:10.5860/choice.50-3263).
- [49] Santini F, Carnevale G, Sorenson L. 2015 First timetree of Sphyraenidae (Percomorpha) reveals a Middle Eocene crown age and an Oligo-Miocene radiation of Barracudas. *Italian Journal of Zoology* 82, 1, 133–142. (doi:10.1080/11250003.2014.962630).
- [50] Darriba D, Taboada GL, Doallo R, Posada D. 2012 jModelTest 2: more models, new heuristics and parallel computing. Nature Methods 9, 8, 772–772. (doi:10.1038/nmeth.2109).
- [51] Rapp WF. 1946 Check list of the fossil fishes of New Jersey. Journal of Paleontology 20, 5, 510–513.
- [52] Marsili S, Carnevale G, Danese E, Bianucci G, Landini W. 2007 Early Miocene vertebrates from Montagna della Maiella, Italy. Annales de Paléontologie 93, 1, 27–66. (doi:10.1016/j.annpal. 2007.01.001).
- [53] Casier E. 1944 Contributions a l'étude des poissons fossiles de la Belgique. VII. Morphologie du dentaire de Sphyraenodus lerichei Casier. Bulletin du Museé Royal d'Histoire Naturelle de Belgique 20, 23, 1–8.
- [54] Huyghebaert B, Nolf D. 1979 on fish-otoliths, published since 1968. Mededelingen van de Werkgroep voor Tertiaire en Kwartaire Geologie 16, 4, 139–170.
- [55] Bemis WE, Giuliano A, McGuire B. 2005 Structure, attachment, replacement and growth of teeth in bluefish, *Pomatomus saltatrix* (Linnaeus, 1766), a teleost with deeply socketed teeth. *Zoology* **108**, 4, 317–327. (doi:10.1016/j.zool.2005.09.004).
- [56] Nakamura I. 1985 FAO Species Catalogue. Volume 5. Billifishes of the World, vol. 5. Rome: FAO.
- [57] Newton ET. 1877 On the remains of *Hypsodon*, *Portheus*, and *Ichthyodectes* from British Cretaceous strata, with descriptions of new species. *Quarterly Journal of the Geological Society* 33, 1-4, 505–523.

- [58] Bassani F. 1889 Ricerche sui pesci fossili di Chiavon (Strati di Sotzka Miocene Inferiore). Atti della Reale Accademia delle Scienze Fisiche e Matematiche 3, 2, 1–100.
- [59] Woodward AS. 1901 Catalogue of the Fossil Fishes in the British Museum (Natural History).

  Part IV. London: Taylor & Francis.
- [60] Leidy J. 1877 Description of vertebrate remains chiefly from the phosphate beds of South Carolina. Journal of the Academy of Natural Sciences 8, 3, 209–261.
- [61] White EI. 1926 Eocene Fishes from Nigeria. Bulletin of the Geological Survey of Nigeria 10, 1–82.
- [62] Hendy AJW, Jones DS, Moreno F, Zapata V, Jaramillo CA. 2015 Neogene molluscs, shallow marine paleoenvironments, and chronostratigraphy of the Guajira Peninsula, Colombia. *Swiss Journal of Palaeontology* pp. 1–31. (doi:10.1007/s13358-015-0074-1).
- [63] Katoh K, Standley DM. 2013 MAFFT multiple sequence alignment software version 7: Improvements in performance and usability. *Molecular Biology and Evolution* **30**, 4, 772–780. (doi:10.1093/molbev/mst010).
- [64] Nolf D. 1972 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.
- [65] Senou H. 2001 Sphyraenidae. In: Carpenter KE, Niem VH (eds.), The Living Marine Resources of the Western Central Pacific. Volume 6, pp. 3685–3697. Rome: FAO.
- [66] Gillette DD. 1984 A marine ichthyofauna from the Miocene of Panama, and the Tertiary Caribbean Faunal Province. *Journal of Vertebrate Paleontology* 4, 2, 172–186.
- [67] Woodward AS. 1889 Catalogue of the Fossil Fishes in the British Museum (Natural History).

  Part I. London: Taylor & Francis.
- [68] Agassiz L. 1846 Nomina Systematica Generum Piscium, tam Viventum Quam Fossilum.
- [69] Agassiz L. 1833 Recherches sur les Poisson Fossiles. Tome III.
- [70] Ray CE, Wetmore A, Dunkle DH, Drez P. 1968 Fossil vertebrates from the marine Pleistocene of southeastern Virginia. *Smithsonian Miscellaneous Collections* **153**, 3, 1–25.
- [71] Quillévéré F, Koskeridou E, Cornée JJ, Moissette P, Girone A, Agiadi K. 2018 Pleistocene marine fish invasions and paleoenvironmental reconstructions in the eastern Mediterranean. *Quaternary Science Reviews* **196**, 80–99. (doi:10.1016/j.quascirev.2018.07.037).
- [72] Schultz O, Brzobohatý R, Kroupa O. 2010 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.
- [73] Díaz-Franco S, Rojas-Consuegra R. 2009 Dientes fósiles de *Sphyraena* (Perciformes: Sphyraenidae) en el Terciario de Cuba Occidental. *Solenodon* 8, 124–129.
- [74] Böhm J. 1926 Ueher tertiâre Versteinerungen von den hogenfelser Diamantfeldern. In: Kaiser E (ed.), Die Diamantenwüste Sudwestafrikasfrikas. Vol II, pp. 55–87. Berlin.
- [75] Westgate JW. 1984 Lower vertebrates from the late Eocene Crow Creek local fauna, St. Francis County, Arkansas. *Journal of Vertebrate Paleontology* 4, 4, 536–546.
- [76] Gottfried MD, Samonds KE, Ostrowski SA, Andrianavalona TH, Ramihangihajason TN. 2017 New evidence indicates the presence of Barracuda (Sphyraenidae) and supports a tropical marine environment in the Miocene of Madagascar. *PLoS ONE* **12**, 5, 1–9. (doi:10.1371/journal.pone. 0176553).
- [77] ICZN. 1999 International Code of Zoological Nomenclature. London: The International Trust for Zoological Nomenclature, 4th ed.

- [78] Harlan R. 1824 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. (doi:10.1080/14786442408644630).
- [79] Casier E. 1944 Contributions à l'étude des Poissons fossiles de la Belgique. VI. Sur le Sphyraenodus de l'Eocene e sur la présence d'un Sphyraenidé dans le Bruxellien (Lutétien inférieur). Bulletin de l'Institut Royal des Sciences Naturelles de Belgique 20, 11, 11–15.
- [80] Woodward AS. 1891 Catalogue of the Fossil Fishes in the British Museum (Natural History).

  Part II. London: Taylor & Francis.
- [81] STRINGER, GARY L, Department of Ge. 2003 Paleoenvironmental Interpretations Based on Vertebrate Fossil Assemblages: An Example of their Utilization in the Gulf Coast. AAPG Bulletin 85. (doi:10.1306/8626cfaf-173b-11d7-8645000102c1865d).
- [82] Páramo-Fonseca ME. 1997 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. (doi:10.1016/S1251-8050(97)83976-6).
- [83] Chapman F. 1935 Descriptions of fossil fish from New Zealand. Transactions and Proceedings of the Royal Society of New Zealand 64, 117–121.
- [84] de Sylva DP, Williams F. 1986 Sphyraenidae. In: Smith MM, Heemstra PC (eds.), Smiths' Sea Fishes, pp. 721–726. Johannesburg: Macmillan South Africa.
- [85] Ray CE, Bohaska DJ. 2001 Geology and Paleontology of the Lee Creek Mine, North Carolina, III. 90. Washington DC, smithsonia ed. (doi:10.5479/si.00810266.90.1).
- [86] Patterson C. 1993 An overview of the early fossil record of Acanthomorphs. *Bulletin of Marine Science* **52**, 1, 29–59.
- [87] Bardack D, Sprinkle G. 1969 Morphology and relationships of saurocephalid fishes. Fieldiana Geology 16, 297–340.
- [88] Monsch KA. 2005 Revision of the scombroid fishes from the Cenozoic of England. Transactions of the Royal Society of Edinburgh: Earth Sciences 95, November 2016, 445–489. (doi:10.1017/ S0263593300001164).
- [89] Agassiz L. 1833 Recherches sur les Poissons Fossiles. Tome IV.
- [90] Moreno F, Hendy AJW, Quiroz L, Hoyos N, Jones DS, Zapata V, Zapata S, Ballen GA, Cadena E, Cárdenas AL, et al. 2015 Revised stratigraphy of Neogene strata in the Cocinetas Basin, La Guajira, Colombia. Swiss Journal of Palaeontology 134, 5–43. (doi:10.1007/s13358-015-0071-4).
- [91] Agassiz L. 1833. Recherches sur les Poissons Fossiles. Tome I.
- [92] Van der Laan R. 2018 Family-group names of fossil fishes. European Journal of Taxonomy, 466, 1–167. (doi:10.5852/ejt.2018.466).
- [93] Meek SE, Newland RG. 1884 A review of the American species of the genus Sphyraena. Proceedings of the Academy of Natural Sciences of Philadelphia 36, 67–75.
- [94] Stringer GL, Breard SQ, Kontrovitz M. 2001 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.
- [95] Cope ED. 1869 Synopsis of the Batrachia and Reptilia of North America. Part I. Transactions of the American Philosophical Society 14, 1–252.
- [96] Switchenska AA. 1968 A new genus from the family Sphyraeniadae from the middle Miocene of Transcaucasia. In: Ocherki po Filogenii i Sistematike Iskopaemykh Ryb I Beschelyustnykh, pp. 157–161.

- [97] Agassiz L. 1843 Recherches sur les Poisson Fossiles. Tome V.
- [98] Viñola-López LW, Rojas-Consuegra R, Jiménez-Vásquez O. 2017 Nuevos registros de *Sphyraena* (Perciformes: Sphyraenidae) para el Neógeno de Cuba y La Española. *Novitates Caribaea* 11, 89–94.
- [99] NCBI. 2018 Entrez Programming Utilities Help. Md. Bethesta: NCBI.
- [100] Taverne L, Chanet B. 2000 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.
- [101] Smith JLB. 1956 The fishes of the family Sphyraenidae in the western Indian Ocean. Ichthyological Bulletin of the Department of Ichthyology of Rhodes University 3, 37–46.
- [102] Távora VdA, dos Santos AAR, Araújo RN. 2010 Localidades fossilíferas da Formação Pirabas (Mioceno Inferior). Boletim do Museu Paraense Emilio Goeldi Ciencias Naturais 5, 2, 207–224.