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** no. 1, (2018) 93–107.

[2] L. Agassiz, *Recherches sur les Poissons Fossiles. Tome II.* 1833.

[3] R. Doiuchi and T. Nakabo, "The *Sphyraena obtusata* group (Perciformes: Sphyraenidae) with a description of a new species from southern Japan," *Ichthyological Research* **52** (2005) 132–151.

[4] A. J. Mainwaring, "Anatomical and Systematic review of the Pachycormidae, a family of Mesozoic fossil fishes,".

[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** (2004) 105–112.

[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** no. 162, (2017) 1–40.

[7] H. W. Fowler, "New and little known Mugilidae and Sphyraenidae," *Proceedings of the Academy of Natural Sciences of Philadelphia* **55** no. 1903, (1903) 743–752.

[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 Belqique, Sciences de la Terre* **81** (2011) 279–295.

[9] E. D. Cope, "Synopsis of the Vertebrata of the Miocene of Cumberland County , New Jersey," *Proceedings of the American Philosophical Society* **14** no. 94, (1875) 361–364.

[10] J. D. Bryant, "New early Barstovian (Middle Miocene) vertebrates from the upper Torreya Formation, Eastern Florida Panhandle," *Journal of Vertebrate Paleontology* **11** no. 4, (1991) 472–489.

[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** (2012) 1166–1167.

[12] C. Arambourg, "Les poissons oligocènes de l'Iran," *Notes et Mémoires sur le Moyen-Orient* **3** (1966) 1–210.

[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** no. 3, (2017) 475–485.

[14] L. Dollo and R. Storms, "Sur les Téléostéens du Rupélien," *Zoologischer Anzeiger* **11** (1888) 265–267.

[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** no. 3, (2012) 539–542.

[16] R Core Development Team, "R: A language and environment for statistical computing," 2017. http://www.r-project.org/.

[17] A. F. Bannikov, *Iskopaemye pozvonochnye Rossii i sopredel'nykh stran. Iskopaemye kolyucheperye ryby (Teleostei, Acanthopterigii)*. 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** (1856) 220–221.

[19] W. v. W. Weiler, "Neue Untersuchungen an Mitteloligozänen Fischen Ungarns," *Geologica Hungarica. Series Palaeontologica* **15** no. 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** no. 3-4, (1991) 131–137.

[21] FAO-FIGIS, "*Trachurus trachurus*," in *A World Overview of Species of Interest to Fisheries*, pp. 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** (1990) 105–120.

[23] J. Leidy, "Indications of twelve species of fossil Fishes," *Proeceedings of the Academy of Natural Sciencies of Philadelphia* **7** (1855) 395–397.

[24] J. R. Grubich, A. N. Rice, and M. W. Westneat, "Functional morphology of bite mechanics in the Great Barracuda (*Sphyraena barracuda*)," *Zoology* **111** no. 1, (Jan, 2008) 16–29. http://www.ncbi.nlm.nih.gov/pubmed/18082386.

[25] D. Bardack, "Anatomy and evolution of Chirocentrid fishes," *University of Kansas Paleontological Contributions* **10** (1969) 1–86.

[26] E. Casier, "La faune ichthyologique de l'Yprésien de la Belgique," *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **104** (1946) 1–267.

[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* (2019) 53–76. http://link.springer.com/10.1007/978-3-030-03083-4{_}4.

[28] M. Friedman and G. Carnevale, "The Bolca Lagerstätten: shallow marine life in the Eocene," *Journal of the Geological Society* **175** no. 4, (2018) 569–579.

[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** (2008) 65–76.

[31] J. S. Nelson, T. Grande, and M. V. H. Wilson, *Fishes of the World*. John Wiley & Sons, New Jersey, 5 ed., 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** no. 6, (2009) 1299–1303.

[33] P. L. Forey, "The osteology of *Notelops* Woodward, *Rhacolepis* Agassiz and *Pachyrhizodus* Dixon (Pisces: Teleostei)," *Bulletin of the British Museum (Natural History)* **28** no. 2, (1977) 123–204.

[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** (2000) 39–61.

[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** (1830) 471–477.

[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** (2011) 341–463.

[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. http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp.

[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** (2016) 2–18. http://dx.doi.org/10.1186/s40851-016-0045-4.

[43] D. P. de Sylva, "Systematics and life history of the great barracuda *Sphyraena barracuda* (Walbaum)," *Studies in Tropical Oceanography* **1** (1963) 1–179.

[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** (1883) 129–135.

[45] M. E. Páramo-Fonseca, "Los peces de la familia Pachyrhizodontidae (Teleostei) del Turoniano del Valle Superior del Magdalena," *Bolteín Geológico Ingeominas* **39** (2001) 47–83.

[46] G. P. Whitley, "New sharks and fishes from Western Australia. Part 3," *Australian Zoologist* **11** no. 2, (1947) 129–150.

[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*, J. A. Minch and J. R. Ashby, eds., pp. 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*, pp. 459–475. Springer Sciences+Business Media, Dodrecht, 2013. arXiv:arXiv:1011.1669v3.

[49] F. Santini, G. Carnevale, and L. Sorenson, "First timetree of Sphyraenidae (Percomorpha) reveals a Middle Eocene crown age and an Oligo–Miocene radiation of Barracudas," *Italian Journal of Zoology* **82** no. 1, (2015) 133–142. http://dx.doi.org/10.1080/11250003.2014.962630.

[50] D. Darriba, G. L. Taboada, R. Doallo, and D. Posada, "jModelTest 2: more models, new heuristics and parallel computing," *Nature Methods* **9** no. 8, (Aug, 2012) 772–772, arXiv:arXiv:1011.1669v3. http://www.nature.com/nmeth/journal/v9/n8/full/nmeth.2109.htmlhttp://www.nature.com/doifinder/10.1038/nmeth.2109.

[51] W. F. Rapp, "Check list of the fossil fishes of New Jersey," *Journal of Paleontology* **20** no. 5, (1946) 510–513.

[52] S. Marsili, G. Carnevale, E. Danese, G. Bianucci, and W. Landini, "Early Miocene vertebrates from Montagna della Maiella, Italy," *Annales de Paléontologie* **93** no. 1, (Jan, 2007) 27–66. http://linkinghub.elsevier.com/retrieve/pii/S075339690700002X.

[53] E. Casier, "Contributions a l'etude des poissons fossiles de la Belgique. VII. Morphologie du dentaire de Sphyraenodus lerichei Casier," *Bulletin du Museé Royal d'Histoire Naturelle de Belgique* **20** no. 23, (1944) 1–8.

[54] B. Huyghebaert and D. Nolf, "on fish-otoliths, published since 1968," *Mededelingen van de Werkgroep voor Tertiaire en Kwartaire Geologie* **16** no. 4, (1979) 139–170.

[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** no. 4, (2005) 317–327.

[56] I. Nakamura, *FAO Species Catalogue. Volume 5. Billifishes of the World*, vol. 5. FAO, Rome, 1985.

[57] E. T. Newton, "On the remains of *Hypsodon*, *Portheus*, and *Ichthyodectes* from British Cretaceous strata, with descriptions of new species," *Quarterly Journal of the Geological Society* **33** no. 1-4, (1877) 505–523.

[58] F. Bassani, "Ricerche sui pesci fossili di Chiavon (Strati di Sotzka - Miocene Inferiore)," *Atti della Reale Accademia delle Scienze Fisiche e Matematiche* **3** no. 2, (1889) 1–100.

[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** no. 3, (1877) 209–261.

[61] E. I. White, "Eocene Fishes from Nigeria," *Bulletin of the Geological Survey of Nigeria* **10** (1926) 1–82.

[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* (2015) 1–31. http://link.springer.com/10.1007/s13358-015-0074-1.

[63] K. Katoh and D. M. Standley, "MAFFT multiple sequence alignment software version 7: Improvements in performance and usability," *Molecular Biology and Evolution* **30** no. 4, (2013) 772–780.

[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** no. 1-2, (1972) 95–109.

[65] H. Senou, "Sphyraenidae," in *The Living Marine Resources of the Western Central Pacific. Volume 6*, K. E. Carpenter and V. H. Niem, eds., pp. 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** no. 2, (1984) 172–186.

[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** no. 3, (1968) 1–25.

[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** (2018) 80–99.

[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** (2010) 489–506.

[73] S. Díaz-Franco and R. Rojas-Consuegra, "Dientes fósiles de *Sphyraena* (Perciformes: Sphyraenidae) en el Terciario de Cuba Occidental," *Solenodon* **8** (2009) 124–129.

[74] J. Böhm, "Ueher tertiâre Versteinerungen von den hogenfelser Diamantfeldern," in *Die Diamantenwüste Sudwestafrikasfrikas. Vol II*, E. Kaiser, ed., pp. 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** no. 4, (1984) 536–546.

[76] M. D. Gottfried, K. E. Samonds, S. A. Ostrowski, T. H. Andrianavalona, and T. N. Ramihangihajason, "New evidence indicates the presence of Barracuda (Sphyraenidae) and supports a tropical marine environment in the Miocene of Madagascar," *PLoS ONE* **12** no. 5, (2017) 1–9.

[77] ICZN, *International Code of Zoological Nomenclature*. The International Trust for Zoological Nomenclature, London, 4th ed., 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** (1824) 331–338.

[79] E. Casier, "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** no. 11, (1944) 11–15.

[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** no. 2, (1997) 147–150.

[83] F. Chapman, "Descriptions of fossil fish from New Zealand," *Transactions and Proceedings of the Royal Society of New Zealand* **64** (1935) 117–121.

[84] D. P. de Sylva and F. Williams, "Sphyraenidae," in *Smiths' Sea Fishes*, M. M. Smith and P. C. Heemstra, eds., pp. 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*. No. 90. Washington DC, smithsonia ed., 2001. http://si-pddr.si.edu/dspace/handle/10088/2006.

[86] C. Patterson, "An overview of the early fossil record of Acanthomorphs," *Bulletin of Marine Science* **52** no. 1, (1993) 29–59.

[87] D. Bardack and G. Sprinkle, "Morphology and relationships of saurocephalid fishes," *Fieldiana Geology* **16** (1969) 297–340.

[88] K. A. Monsch, "Revision of the scombroid fishes from the Cenozoic of England," *Transactions of the Royal Society of Edinburgh: Earth Sciences* **95** no. November 2016, (2005) 445–489. http://www.journals.cambridge.org/abstract{_}S0263593300001164.

[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** (2015) 5–43.

[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* no. 466, (2018) 1–167.

[93] S. E. Meek and R. G. Newland, "A review of the American species of the genus *Sphyraena*," *Proceedings of the Academy of Natural Sciences of Philadelphia* **36** (1884) 67–75.

[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** (2001) 321–328.

[95] E. D. Cope, "Synopsis of the Batrachia and Reptilia of North America. Part I," *Transactions of the American Philosophical Society* **14** (1869) 1–252.

[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*, pp. 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** (2017) 89–94.

[99] NCBI, *Entrez Programming Utilities Help*. No. Md. NCBI, Bethesta, 2018. http://www.ncbi.nlm.nih.gov/books/NBK25501/.

[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** no. 1, (2000) 23–34.

[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** (1956) 37–46.

[102] V. d. A. Távora, 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** no. 2, (2010) 207–224.