

considered to be the earliest stromatoporoids by YAWORSKY (1932, p. 613), ZHURAVLEVA (1955, p. 17; 1960, p. 312), KHALFINA (1960, p. 79), VLASOV (1961, p. 22; 1967, p. 120), KHALFINA & YAVORSKIY (1967, p. 133) and VOLOGDIN (1940b, p. 102; 1966, p. 7), but NESTOR (1966, p. 3) considered them to be archaeocyathans of the Order Archaeosyconida. Herein they are considered probably not archaeocyathans. *L.Cam.(up. Botom.)*.

Altaicyathus VOLOGDIN, 1932, p. 27 [**A. notabilis*; M] [= *Korovinella* RADUGIN (MS in KHALFINA), 1960, p. 81 (type, *Clathrodictyon sajanicum* YAWORSKY, 1932, p. 614; OD)]. *L.Cam.(up. Botom.)*, USSR (Sayano-Altay).

Family UNCERTAIN

Atikokania WALCOTT, 1912, p. 6 [**A. lawsoni*; OD]. ?*Precam.(Steepprook Series)*, Can.

Cambrostroma VLASOV, 1961, p. 29 [**C. rossicum*; OD]. *L.Cam.(up.Botom.)*, USSR (Sayano-Altay).

Miassocyathus FOMIN, 1963, p. 17 [**M. lobanovae*; OD]. *M.Dev.*, USSR (S.Urals).

Misracyathus VOLOGDIN, 1959, p. 82 [**M. vindhianus*; M]. *U.Proteroz.(Vindhyan)*, India.

Orlinocyathus KRASNOPEEVA in VOLOGDIN, 1957, p. 212 [**O. olgae*; M]. *U.Cam.*, USSR (Salair). Probably a sponge of the family Archaeoscyphidae RAUFF.

Praeactinostroma KHALFINA, 1960, p. 81 [**Actinostroma vologdini* YAWORSKY, 1932, p. 613; OD]. *L.Cam.(up.Botom.)*, USSR (Sayano-Altay).

Spongiosicyathus ZHURAVLEVA, 1968, p. 174 [**Dicyathus translucidus* ZHURAVLEVA, 1960, p. 275; OD]. Solitary or colonial, cups in form like a round loaf, or commonly conical; skeletal walls absent; intervallum a framework of regularly spaced spicules arranged at right angles in three planes—radial longitudinal, radial horizontal and tangential; adherent outgrowths form shapeless carbonate mass. *L.Cam.(up.Tommot.-low.Botom.)*, USSR (Sib.Plattf.).

REFERENCES

Bayfield, H. W.

- (1) 1845, *On the junction of the transition and primary rocks of Canada and Labrador*: Geol. Soc. London, Quart. Jour., v. 1, p. 450-459.

Bedford, R., & Bedford, J.

- (2) 1936, *Further notes on Cyathospongia (Archaeocyathi) and other organisms from the Lower Cambrian of Beltana, South Australia*: Kyancutta Museum, Mem., no. 3, p. 21-26, pl. 21-26 (fig. 88-105).
- (3) 1937, *Further notes on Archaeos (Pleospongia) from the Lower Cambrian of South Australia*: Same, Mem., no. 4, p. 27-38, pl. 27-41 (fig. 106-159).
- (4) 1939, *Development and classification of Archaeos (Pleospongia)*: Same, Mem., no. 6, p. 67-82, pl. 42-52 (fig. 160-212).

———, & Bedford, W. R.

- (5) 1934, *New species of Archaeocyathinae and other organisms from the Lower Cambrian of Beltana, South Australia*: Kyancutta Museum, Mem., no. 1, p. 1-7, pl. 1-6 (fig. 1-36).
- (6) 1936, *Further notes on Archaeocyathi (Cyathospongia) and other organisms from the Lower Cambrian of Beltana, South Australia*: Same, Mem., no. 2, p. 9-20, pl. 7-20 (fig. 37-87).

Belyaeva, G. V.

- (7) 1969, *Novye Arkheotsiaty khrebtia Dzhdagdy (Dallniy Vostok)*; in I. T. Zhuravleva,

(ed.), *Biostratigrafiya i paleontologiya nizhnego kembriya Sibiri i Dal'nego Vostoka*, p. 86-98, pl. 34-38, Nauka (Moskya). [*New Archaeocyatha from the Dzhdagdu Range (Far East)*.]

Billings, Elkanah

- (8) 1861, *New species of Lower Silurian fossils: on some new or little known species of Lower Silurian fossils from the Potsdam Group (Primordial zone)*: 24 p., 25 text-fig., Geol. Survey Canada (Montreal).
- (9) 1865, *On some new or little-known species of Lower Silurian fossils from the Potsdam group (Primordial zone)*: [a reprint, with alterations and additions, of BILLINGS, 1861], in *Palaeozoic fossils*, v. 1, p. 1-18, 22 text-fig., Geological Survey Canada (Montreal).

Bornemann, J. G.

- (10) 1884, [*Bericht über die Fortsetzung seiner Untersuchungen cambrischer Archaeocyathus-Formen und verwandter Organismen von der Insel Sardinien*]: Deutsch. Geol. Gesell., Zeitschr., v. 36, p. 702-706.
- (11) 1886, *Die Versteinerungen des Cambrischen Schichtensystems der Insel Sardinien nebst vergleichenden Untersuchungen über analoge Vorkommisse aus andern Ländern*. Erste Abt. iii. *Archaeocyathinae*: Nova Acta Acad. Caesar. Leopoldina Carol., v. 51, pt. 1, p. 28-78, pl. 5-33.

- (12) 1891, *Zweite Abt. Nachschrift, iii. Archaeocyathinae*: Same, v. 56, pt. 1, p. 495 (71)-500 (76), 2 pl.
- Boucart, J., & le Villain, G.**
- (13) 1931, *La faune des calcaires cambriens de Sidi Mouça d'Aglou (Anti-Atlas Marocain)*: Serv. Mines Carte Géol. Maroc., Notes & Mém. v. 15, p. 1-65, 10 pl.
- Boyarinov, A. S.**
- (14) 1962, *O rodakh Szeczyathus Vol. i Lucyathus Vol.*: in Materialy po geologii zapadnoi Sibiri, no. 63, p. 14-15, 1 text-fig., Tomsk Univ. (Tomsk). [On the genera Szeczyathus Vol. and Lucyathus Vol.]
- Broili, Ferdinand**
- (15) 1915, *Archaeocyathinae*: in K. von Zittel, Grundzüge der Paläontologie, 4th edit., p. 121, Oldenbourg (München, Berlin).
- Brook, George**
- (16) 1893, *The genus Madrepora*: Cat. Madreporian Corals, British Museum (Nat. History), v. 1, vii+212 p., 35 pl. (London).
- Chernysheva, S. V.**
- (16a) 1960, *Tollicyathus—novyy rod arkheotsiat*: Sibir. Nauchno-Issledov. Inst. Geologii, Geofiziki i Mineral'nogo Syr'ya (SNIIG-GIMS), Minister. geol. i okhrany nedr SSSR, Trudy, v. 8, p. 77-78, pl. 4. [*Tollicyathus—a new genus of Archaeocyatha.*]
- Datsenko, V. A., Zhuravleva, I. T., Lazarenko, N. P., Popov, Yu. N., & Chernysheva, N. E.**
- (17) 1968, *Biostratigrafiya i fauna kembrijskikh olozheniy severo-zapada Sibirskoy platformy*: Nauchno-Issledov. Inst. Geol. Arktiki, Trudy, v. 155, 213 p., 23 pl.; Atlas, 13 tables, 47 text-fig., Nedra (Leningrad). [*Biostratigraphy and fauna of the Cambrian deposits of the northwest Siberian Platform.*]
- David, T. W. E., & Priestley, R. E.**
- (18) 1914, *Glaciology, physiography, stratigraphy and tectonic geology of South Victoria Land*: Rept. British Antarctic Exped. 1907-09, Geology, p. 1-319, Heinemann (London).
- Dawson, J. W.**
- (19) 1865, *On the structure of certain organic remains in the Laurentian limestones of Canada*: Geol. Soc. London, Quart. Jour., v. 21, p. 51-59, pl. 6-7.
- Debrenne, Françoise**
- (20) 1959a, *Sur quelques Archaeocyatha du Jebel Taïssa (Anti-Atlas occidental)*: Serv. Mines Carte Géol. Maroc, Notes & Mém., no. 143, v. 16, p. 59-67, text-fig. 1-2, pl. 1-3.
- (21) 1959b, *Un nouveau genre d'Archaeocyatha du Cambrien marocain*: Soc. Géol. France, Comptes Rendus somm. Séanc., 1959, no. 1, p. 14-15, 1 text-fig.
- (21a) 1960, *Deux nouveaux genres d'Archaeocyathidés du Cambrien marocain (Geniculicyathus, Volvacyathus)*: Same, Comptes Rendus somm. Séanc., 1960, no. 5, p. 118, 2 text-fig.
- (22) 1961, *Nouvelles données sur la faune d'Archaeocyatha du Jebel Taïssa*: Serv. Mines Carte Géol. Maroc, Notes & Mém., no. 152, v. 20, p. 7-26, pl. 1-6.
- (23) 1963, in Debrenne, F., & Lotze, F., *Archaeocyatha d'Espagne*: Akad. Wiss. Lit. [Mainz], Abhandl., math-naturw. Kl., 1963, no. 2, p. 17-38, 2 text-fig., 5 pl.
- (24) 1964, *Archaeocyatha. Contribution a l'étude des faunes cambriennes du Maroc, de Sardaigne et de France*: Serv. Mines Carte Géol. Maroc, Notes & Mém., no. 179, v. 1, Texte, 265 p., 69 text-fig., 29 tables; v. 2, Planches, 52 pl.
- (25) 1965, *Halysicyathus, nouveau genre d'Archeocyathe du Cambrien marocain*: Soc. Géol. France, Comptes Rendus somm. Séanc., 1965, pt. 4, p. 143-144, text-fig. 1-2.
- (26) 1969a, *Lower Cambrian Archaeocyatha from the Ajax Mine, Beltana, South Australia*: British Museum Nat. History, Bull., ser. geol., v. 17, no. 7, p. 295-376, 15 text-fig., 18 pl.
- (26a) 1969b, *Archaeocyatha. Questions de nomenclature*: Soc. Géol. France, Comptes Rendus somm. Séanc. 3 Nov. 1969, p. 262-263.
- (26b) 1970a, *Coscinocyathus Bornemann, 1884 (Archaeocyatha)*: Proposed designation of a type-species under the plenary powers. Z.N.(S) 1924: Bull. Zool. Nomencl., v. 27, p. 207-208.
- (27) 1970b, *A revision of Australian genera of Archaeocyatha*: Royal Soc. S. Australia, Trans., v. 94, p. 21-49, 2 pl.
- , & Debrenne, M.
- (27a) 1965, *Etudes préliminaires des faunes d'Archeocyathes des calcaires l'Oued Tamanar (Aguerd-Tamezra, Maroc)*: Soc. Géol. France, Comptes Rendus somm. Seanc., 1965, no. 5, p. 159-160, 1 text-fig.
- , Termier, H., & Termier, G.
- (27b) 1970, *Radiocyatha. Une nouvelle classe d'organismes primitifs du Cambrien inférieur*: Soc. Géol. France, Bull., v. 12, no. 1, p. 120-125, pl. 4-6.
- , & Zamarrano, I.
- (27c) 1970, *Sur la découverte d'Archeocyathes dans le Cambrien du NW de l'Espagne*: Breviora geologica asturica, v. 14, no. 1, p. 1-11, text-fig. 1-7.
- Duncan, P. M.**
- (28) 1876, *Notices of some deep-sea and littoral corals from the Atlantic Ocean, Caribbean, Indian, New Zealand, Persian Gulf and*

Japanese . . . seas: Zool. Soc. London, Proc., p. 428-442, 4 pl.

Etheridge, Robert, Jr.

- (29) 1890, *On some Australian species of the family Archaeocyathinae*: Royal Soc. S. Australia, Trans., v. 13, p. 10-22.

Fomin, Yu. M.

- (30) 1963, *O nakhodke arkheotsiatopodovnykh organizmov v srednedevonskikh otlozheniyakh vostochnogo sklona yuzhnogo Urala*: Paleont. Zhurnal, 1963, no. 2, p. 17-19, text-fig. 1-2. [On the discovery of Archaeocyatha-like organisms in Middle Devonian deposits of the eastern slopes of the southern Urals.]

Fonin, V. D.

- (31) 1960, *O novom semeystve kembriyskikh metatsiatid—Prismocyathidae Fonin, fam. n.*: Akad. Nauk SSSR, Doklady, v. 135, no. 3, p. 725-727, text-fig. 1 (opp. p. 702). [On a new family of Cambrian metacyathids—Prismocyathidae Fonin, fam. n.]
- (32) 1961, *O nekotorykh voprosakh morfologii tenial'nykh arkheotsiat* (avtoreferat): Moskov. Obshch. Ispyt. Prirody, Byull., ser. geol., 1961, no. 3, p. 149-150. [On some problems in the morphology of tenial Archaeocyatha (abstract).]
- (33) 1963, *K poznaniyu tenial'nykh arkheotsiat Altai-Sayanskoy skladchatoy oblasti*: Paleont. Zhurnal, 1963, no. 4, p. 14-29, 8 text-fig., pl. 3. [Contribution to knowledge of taenioid Archaeocyatha from the Altai-Sayan fold area.]

Ford, S. W.

- (34) 1873a, *On some new species of fossils from the Primordial or Potsdam group of Rensselaer Co., N.Y. (Lower Potsdam)*: Am. Jour. Sci. Arts, ser. 3, v. 5, p. 211-215, text-fig. 1-3.
- (35) 1873b, *Remarks on the distribution of fossils in the Lower Potsdam rocks at Troy, N.Y., with a description of four new species*: Same, ser. 3, v. 6, p. 134-140, text-fig. 1-2.
- (36) 1878, *Descriptions of two new species of Primordial fossils*: Same, ser. 3, v. 15, p. 124-127, text-fig. 1.

Frederiks [Fredericks], Georgiy

- (37) 1925, *Upper Paleozoicum of the Ussuriland. II. Permian Brachiopoda of Cape Kalouzin*: Materialy po geologii i poleznym iskopaemyim Dal'nyago Vostoka (Rec. Geol. Comm. Russian Far East), no. 40, p. 1-28, pl. 1-4 (in Russian) [not seen].

Gekker [Hecker], R. F.

- (38) 1928, *O pervoy nakhodke arkheotsiat v Sibiri*: Geol. Vestnik, v. 6, no. 1, p. 43-46 (unseen; quoted by Zhuravleva, 1960, p. 328). [On the first discovery of Archaeocyatha in Siberia.]

Gordon, W. T.

- (38a) 1920, *Scottish National Antarctic Expedition 1902-04. Cambrian organic remains from a dredging in the Weddell Sea*: Royal Soc. Edinburgh, Trans., v. 52, p. 681-714, pl. 1-7.

Greggs, R. G.

- (39) 1959, *Archaeocyatha from the Colville and Salmo areas of Washington and British Columbia*: Jour. Paleontology, v. 33, p. 63-75, pl. 11-14.

Handfield, R. C.

- (40) 1967, *A new Lower Cambrian Archaeocyatha?*: Jour. Paleontology, v. 41, no. 1, p. 209-212, 1 text-fig., pl. 23.
- (41) 1971, *Archaeocyatha of the Mackenzie and Cassiar Mountains, Northwestern Canada*: Geol. Survey Canada, Bull. 201, 119 p., pl.

———, & Hansman, R. H.

- (42) 1967, *The genus Tunkia Bedford & Bedford*: Jour. Paleontology, v. 41, no. 4, p. 1002-1003, text-fig. 1.

Hill, Dorothy

- (43) 1964a, *The phylum Archaeocyatha*: Biol. Reviews, v. 39, p. 232-258, 6 text-fig., 1 pl.
- (43a) 1964b, *Archaeocyatha from the Shackleton Limestone of the Ross System, Nimrod Glacier area, Antarctica*: Royal Soc. New Zealand, Trans. (Geol.), v. 2, no. 9, p. 137-146, pl. 1-2.
- (43b) 1964c, *Archaeocyatha from loose material at Plunket Point at the head of Beardmore Glacier*: in Antarctic Geology, SCAR Proc. 1963, XI. Palaeontology, p. 609-619, 2 text-fig.
- (44) 1965, *Archaeocyatha from Antarctica and a review of the phylum*: Trans-Antarctic Expedition 1955-1958, Sci. Rept., no. 10 (Geol. no. 3), 151 p., 25 text-fig., 12 pl., Trans-Antarct. Exped. Comm. (London).
- (45) 1967, *Phylum Archaeocyatha Vologdin 1937*: in The fossil record, W. B. Harland, et al. (ed.), p. 341-345, Geol. Soc. London (London).

Hinde, G. J.

- (46) 1889, *On Archaeocyathus Billings, and on other genera, allied to or associated with it, from the Cambrian strata of North America, Spain, Sardinia and Scotland*: Geol. Soc. London, Quart. Jour., v. 45, p. 125-148, pl. 5.

Khabakov, A. V.

- (47) 1967, *Paleontologicheskii okharakterizovaniye kembriyskie otlozheniya na yuge yuzhnogo Urala*: in Materialy po paleogeografii i litologii, Vses. Nauchno-Issledov. Geol. Inst., Trudy, v. 110, p. 36-52, 3 text-fig. [Paleontological descriptions for the Cambrian deposits in the south of the southern Urals.]

Khalfin, L. L. (ed.)

- (48) 1960, *Biostratigrafiya paleozoya Sayano-Altayskoy gornoy oblasti, tom 1, nizhniy paleozoy*: Sibir. Nauchno-Issledov. Inst. Geol. Geofiz. Mineral. Syr'ya, Trudy, no. 19, 498 p., text-fig., pl. Cm 1-33, 01-20 tables. [*Biostratigraphy of the Paleozoic of the Sayano-Altay mountain region, volume 1, Lower Paleozoic.*]

Khalфина, V. K.

- (49) 1960, *Stromatoporoidi iz kembriyskikh otlozheniy Sibiri*: in *Materialy po paleontologiya i stratigrafiya Zapadnaya Sibiri*, Sibir. Nauchno-Issledov. Inst. Geol. Geofiz. Mineral. Syr'ya, Trudy, v. 8, p. 79-83. [*Stromatoporoids of the Cambrian deposits of Siberia.*]

—, & Yavorskiy [Yaworsky], V. I.

- (50) 1967, *O drevneyskikh stromatoporoidyakh*: Paleont. Zhurnal, 1967, no. 3, p. 133-136. [*On the most ancient stromatoporoids.*]

Khomentovskiy, V. V., Zhuravleva, I. T., Repina, L. N., & Rozanov, A. Yu.

- (51) 1962, *Nizhniy kembriy gornogo Altaya*: Akad. Nauk SSSR, Izvestiya, ser. geol., 1962, no. 3, p. 55-71. [*Lower Cambrian of the Altay Mountains.*]

Konyushkov, K. N.

- (52) 1967, *Novye dannye po arkhheotsiatam gor Agyrek severo-vostochnogo Kazakhstana*: in *Biostratigraficheskiy sbornik*, vyp. 3, Vses. Nauchno-Issledov. Geol. Inst., Trudy, n. ser., no. 129, p. 104-113, 1 text-fig., pl. 1. [*New data on the Archaeocyatha of Mt. Agyrek in northeastern Kazakhstan.*]

Krasnopeeva, P. S.

- (53) 1937, *Vodorosli i arkhheotsiaty drevneyskikh tolshch Potekhinskogo rayona Khakassii*: in *Materialy po geologii Krasnoyarskogo kraya*, vyp. 3, Zapadno-Sibirskogo Geologicheskogo Tresta, p. 1-50, 20 pl. (unseen). [*Algae and Archaeocyatha of the most ancient thickness of the Potekhino district of Khakassia.*]
- (54) 1953a [Title unknown]: Tomsk Gosud. Univ., Trudy, v. 124, ser. geol., p. 36 (*vide* ZHURAVLEVA, 1960b, p. 192-193).
- (55) 1953b, *Osobennosti kameshkovskogo kompleksa arkhheotsiat v fatsii effuzivno-osadochnykh otlozheniy na primere arkhheotsiat zapadnoi chasti Tuvy*: Same, Trudy, v. 124, ser. geol., p. 51-62, pl. 1-4. [*Features of the Kameshkan complex of Archaeocyatha in the facies of effusive-sedimentary deposits exemplified by the Archaeocyatha of the western part of Tuva.*]
- (56) 1954, *Novye dannye k stratigrafi arkhheotsiat Zapadnoy Sibiri*: Akad. Nauk SSSR, Doklady, v. 99, no. 4, p. 601-604. [*New*

data on the stratigraphy of the Archaeocyatha of Western Siberia.]

- (57) 1955, *Tip Archaeocyathi, Arkheotsiati*: in *Atlas rukovodyashchikh form iskopaemykh fauny i flory Zapadnoy Sibiri*, L. L. Khalфина (ed.), v. 1, p. 74-102, text-fig. 117-156, pl. 1-10, Gosgeoltekhizdat (Moskva). [*Phylum Archaeocyatha, Arkheotsiati.*]
- (58) 1959, *Arkheotsiaty gor Agyrek Pavlodarskoy oblasti Kazakhskoy SSR*: Akad. Nauk Kazakh. SSSR, Izvestiya, ser. geol., 1959, no. 3 (36), p. 3-10, 3 text-fig., pl. 1-2. [*Archaeocyatha of Mt. Agyrek, Pavlodarsk region of Kazakh SSR.*]
- (59) 1960, *K voprosu o sistematicheskoy polozenii arkhheotsiat*: Tomsk. Univ., Trudy, v. 146, ser. geol., p. 37-44, pl. 1-6. [*On the problem of the systematic position of the Archaeocyatha.*]
- (60) 1961, *Novye arkhheotsiaty iz obruchevskogo gorizonta Altae-Sayanskoy oblasti*: Sibir. Nauchno-Issledov. Inst. Geol. Geofiz. Mineral. Syr'ya, Trudy, no. 5, p. 247-253, text-fig. 1, pl. 1-4. [*New Archaeocyatha from the Obruchevian horizon of the Altay-Sayan region.*]
- (61) 1969, *Osnovnye osobennosti morfologii arkhheotsiat*: in I. T. Zhuravleva (ed.), 1969, *Biostratigrafiya i paleontologiya nizhnego kembriya Sibiri i Dal'nego Vostoka*, p. 60-65, Nauka (Moskva). [*Principle features of the morphology of Archaeocyatha.*]

Maslov, A. B.

- (62) 1957, *O novom predstavitele semeystva Etmophyllidae Okulitch, 1943 iz kembriya Chitinskoy oblasti s sokhranivshimsya vnutrennim organom*: Akad. Nauk SSSR, Doklady, v. 117, p. 307-309. [*On new representatives of the family Etmophyllidae Okulitch, 1943, in the Cambrian of the Chita region with internal organs preserved.*]
- (63) 1958, *O sluchae fakul'tativnogo parazitizma u arkhheotsiat*: Same, Doklady, v. 122, no. 4, p. 699-701. [*On a case of facultative parasitism in the Archaeocyatha.*]
- (64) 1960, *Novyy vid roda Rhabdocnema Okulitch 1943 s pelta v verkhney chasti kubka*: Same, Doklady, v. 130, no. 5, p. 1117-1119. [*A new species of the genus Rhabdocnema Okulitch 1943 with pelta at the upper part of the cups.*]
- (65) 1961, *O novykh naklodkakh arkhheotsiat s peltami v verkhney chasti kubkov*: Moskov. Obshch. Ispyt. Prirody, Byull., v. 36, no. 6, p. 121-122. [*On new discoveries of Archaeocyatha with peltas at the upper part of the cups.*]

Matthew, G. F.

- (66) 1886, IV. *Illustrations of the fauna of the St. John group continued, no. III—Descrip-*

tions of new genera and species (including a description of a new species of *Solenopleura* by J. W. Whiteaves): Royal Soc. Canada, Trans., 1885, v. 3, sec. 4, p. 29-84, pl. 5-7.

Meek, F. B.

- (67) 1868, *Preliminary notice of a remarkable new genus of corals, probably typical of a new family*: Am. Jour. Sci., ser. 2, v. 45, p. 62-64.

Meshkova, N. P.

- (67a) 1969, *Khiolity i Kholitel'minty nizhnego kembriya Sibirskoy platformy i ikh biostratigraficheskoe znachenie*: Avtoreferat dissertatsii na soiskani uchenoy stepani kandidata geologo-mineralogicheskikh nauk. Novosibirskii gosudarst. univ. uchenyy sovet po geol.-mineral. naukam, no. 128. Paleont. i strat. [Author's abstract of dissertation submitted for the candidate's degree in geology-mineralogical science. Novosibirsk State Univ. Teaching Council for Geol.-mineral. Sciences, no. 128, Paleontology and stratigraphy.] [*Hyolithids and hyolithelminths of the Lower Cambrian of the Siberian Platform and their significance.*]

Milne-Edwards, Henri, & Haime, Jules

- (68) 1848, *Recherches sur les polypiers, Mem. 2, Monographie des turbinolides*: Ann. Sci. Nat., ser. 3, v. 9, p. 211-344, pl. 7-10.
- (69) 1850, *A monograph of the British fossil corals, Pt. 1, Introduction: Corals from the Tertiary and Cretaceous formations*: Palaeontograph. Soc., Mon., lxxxv+71 p., 11 pl.

Missarzhevskiy, V. V.

- (70) 1961, *Rannekembriyskie arkheotsiaty basseyna reki Shivelig-Khem*: Paleont. Zhurnal, 1961, no. 4, p. 19-23, 1 text-fig., 1 pl. [*Early Cambrian Archaeocyatha from the basin of the River Shevilig-Khem.*]

———, & Rozanov, A. Yu.

- (71) 1962, *K morfolologii naruzhnykh stenok pravil'nykh arkheotsiat*: Paleont. Zhurnal, 1962, no. 2, p. 34-44, text-fig. 1-6, pl. 3. [*On the morphology of the outer wall of the regular Archaeocyatha.*]

Myagkova [Miagkova], E. I.

- (72) 1955a, *K kharakteristike klassa Aphrosalpingoida Miagkova, 1955*: Akad. Nauk SSSR, Doklady, v. 104, no. 3, p. 478-481, 2 text-fig. [*On the characteristics of the class Aphrosalpingoida Miagkova, 1955.*]
- (73) 1955b, *Novye predstaviteli tipa Archaeocyatha*: Same, Doklady, v. 104, no. 4, p. 638-641, 2 text-fig. [*New representatives of the phylum Archaeocyatha.*]

Nestor, Kh. E.

- (74) 1966, *O drevneyshikh stromatoporoidyakh*:

Paleont. Zhurnal, 1966, no. 2, p. 3-12. [*On the most ancient stromatoporoids.*]

Nitecki, M. H.

- (74a) 1967, *Bibliographic index of North American archaeocyathids*: Fieldiana, Geology, v. 17, no. 2, p. 105-220.

Öpik, A. A.

- (75) 1956, *Cambrian geology of the Northern Territory*: El Sistema Cambrica, v. 2, p. 25-54, 2 text-fig., Internat. Geol. Congress, Rept. 20th Sess. (Mexico City). [Reprinted, 1957, as Australia Bur. Mineral Res., Bull., no. 49, p. 25-54, 2 text-fig.]
- (76) 1961, *The geology and palaeontology of the headwaters of the Burke River, Queensland*: Australia Bur. Mineral Res., Bull., v. 53, p. 1-249, 59 text-fig., 24 pl.
- (76a) 1967, *The Ordian Stage of the Cambrian and its Australian Metadoxidae*: Same, Bull., v. 92, p. 135-170, pl. 19-20.

Okulitch, V. J.

- (77) 1935, *Cyathospongia—a new class of Porifera to include the Archaeocyathinae*: Royal Soc. Canada, Trans., ser. 3, sec. 4, v. 29, p. 75-106, 2 text-fig., pl. 1-2.
- (78) 1937, *Some changes in nomenclature of Archaeocyathi (Cyathospongia)*: Jour. Paleontology, v. 11, no. 3, p. 251-252.
- (79) 1940, *Revision of type Pleospongia from eastern Canada*: Royal Soc. Canada, Trans., ser. 3, sec. 4, v. 34, p. 75-87, 3 pl.
- (80) 1943, *North American Pleospongia*: Geol. Soc. America, Spec. Paper, v. 48, 112 p., 19 text-fig., 18 pl.
- (81) 1946, *Exothecal lamellae of Pleospongia*: Royal Soc. Canada, Trans., ser. 3, sec. 4, v. 40, p. 73-86, 7 pl.
- (82) 1950a, *Vacuocyathus a new name for Coelocyathus Vologdin, 1933*: Jour. Paleontology, v. 24, p. 392-393.
- (83) 1950b, *Nomenclatural notes on pleosponge genera Archaeocyathus, Spirocyathus, Flindersicyathus, Pycnoidocyathus and Cambrocyathus*: Same, v. 24, p. 393-395.
- (84) 1950c, *Pluralitycyathus, new name for Polyocyathus Vologdin, 1928 not Duncan, 1876*: Same, v. 24, p. 503.
- (85) 1955a, *Archaeocyatha*: in Treatise of invertebrate paleontology, Part E, R. C. Moore (ed.), p. E1-E20, text-fig. 1-13, Geol. Soc. America & Univ. Kansas (New York, Lawrence, Kansas).
- (85a) 1955b, *Archaeocyatha from the M'Dame area of northern British Columbia*: Royal Soc. Canada, Trans., ser. 3, sec. 4, v. 49, p. 47-64, pl. 1-3.
- , & Roots, E. F.**
- (86) 1947, *Lower Cambrian fossils from the Aiken Lake area, British Columbia*: Royal

Soc. Canada, Trans., ser. 3, sec. 4, v. 41, p. 37-46, pl. 1.

Okuneva, O. G.

- (87) 1967, *Novyy podrod monotsiatid iz nizhnego kembriya Primor'ya*: Paleont. Zhurnal, 1967, no. 1, p. 132-135, text-fig. 1-2. [*A new subgenus of monocyathids in the Lower Cambrian of Primorye.*]
- (88) 1969, *K biostratigrafii nizhnego kembriya Primor'ya (Spasskiy i Chernigovskiy rayony)*; in I. T. Zhuravleva (ed.), *Biostratigrafiya i paleontologiya nizhnego kembriya Sibiri i Dal'nego Vostoka*: p. 66-85, pl. 30-33, Nauka (Moskva). [*On the biostratigraphy of the Lower Cambrian of Primorye (in the vicinity of Spasskoye and Chernigovka).*]

Radugin, K. V.

- (89) 1962, *O rannikh formakh arkhetsiat*: in *Materialy po geologii Zapadnoy Sibiri*, no. 63, p. 7-10, 1 text-fig., State Univ. (Tomsk). [*On early forms of Archaeocyatha.*]
- (90) 1964, *O novoy gruppe drevneyshikh zivotnykh*: Akad. Nauk SSSR, Sibir. Otdel., Geol. & Geofiz. 1964, no. 1, p. 145-149, 2 text-fig. [*On a new group of most ancient animals.*]
- (91) 1966, *Problema pozdnego proterozoya*: in *Materialy k izucheniyu geologii pozdnego dokembriya Sibiri*, ch. I. Primitivnye arkhetsiaty pozdnego proterozoya, 149 p., 61 pl., Tomsk Univ. (Tomsk). [*Problems of the late Proterozoic*: in *Materials for the study of the geology of the late Precambrian of Siberia*, Part 1. Primitive Archaeocyatha of the late Proterozoic.]

Raymond, P. E.

- (91a) 1931, *The systematic position of the Archaeocyathinae*: Harvard Univ., Museum Comp. Zoology, Bull., v. 55, p. 172-177.

Reid, R. E. H.

- (91b) 1968, *Tremacystia, Barroisia, and the status of Sphinctozoida (Thalamida) as Porifera*: Univ. Kansas, Paleont. Contrib., Paper 34, p. 1-10, text-fig. 1-5.

Repina, L. N., Khomentovskiy, V. V.,

Zhuravleva, I. T., & Rozanov, A. Yu.

- (92) 1964, *Biostratigrafiya nizhnego kembriya Sayano-Altayskoy skladchatoy oblasti*: 365 p., 48 pl., Nauka (Moskva). [*Biostratigraphy of the Lower Cambrian of the Sayano-Altay folded region.*]

Richter, Rudolf, & Richter, Emma

- (92a) 1948, *Studien im Paläozoikum der Mittelmeer-Länder. 8. Zur Frage des Unterkambriums in Nordost-Spanien*: Senckenbergiana, v. 29, p. 23-29, 16 text-fig., 1 pl.

Rincón, A. P.

- (92b) 1971, *Pachecocyathus, nuevo género do*

Archaeocyathidos del Cambrico español: Estud. Geol., v. 27, p. 81-83.

Roemer, F. A.

- (93) 1878, *Über Archaeocyathus marianus n. sp.*: Deutsch. Geol. Gesell., Zeitschr., v. 30, p. 369-370.
- (93a) 1880, *Lethaea Palaeozoica*: v. 1, p. 298-303, 50 text-fig., 1 pl. (Stuttgart).

Rozanov, A. Yu.

- (94) 1960a, *Novye dannye ob arkhetsiatakh Gornoy Shorii*: Akad. Nauk SSSR, Doklady, v. 131, no. 3, p. 663-666. [*New data on the Archaeocyatha of the Shoria Mts.*]
- (95) 1960b, *O novykh predstavitel'yakh arkhetsiat semeystva Dokidocyathidae*: Paleont. Zhurnal, 1960, no. 3, p. 43-47, pl. 1, text-fig. 1-2. [*On new representatives of the archaeocyathan family Dokidocyathidae.*]
- (96) 1963, *Nekotorye voprosy evolyutsii pravilnykh arkhetsiat*: Same, 1963, no. 1, p. 3-12, 5 text-fig. [English transl. in *Internat. Geology Rev.* Washington, v. 6, no. 10, p. 1814-1821.] [*Some problems in the evolution of the regular Archaeocyatha.*]
- (96a) 1967, *The Cambrian lower boundary problem*: Geol. Mag., v. 104, p. 415-434.
- (97) 1969, *Nekotorye voprosy sistematiki arkhetsiat*: in I. T. Zhuravleva (ed.), *Biostratigrafiya i paleontologiya nizhnego kembriya Sibiri i Dal'nego Vostoka*, p. 106-113, pl. 42, Nauka (Moskva). [*Some problems in the systematics of the Archaeocyatha.*]

———, & Missarzhevskiy, V. V.

- (98) 1966, *Biostratigrafiya i fauna nizhnikh gorizontov kembriya*: Akad. Nauk SSSR, Geol. Inst., Trudy, v. 148, 126 p., 68 text-fig., 13 pl. [*Biostratigraphy and fauna of the lower horizons of the Cambrian.*]

———, Volkova, N. A., Voronova,

L. G., Krylov, I. N., Keller, B. M.,

Korolyuk, I. K., Lenzion, K.,

Mikhynsk, R., Pykhova, N. G., &

Sidorov, A. D.

- (99) 1969, *Tommotskiy yarus i problema nizhney granitsy kembriya*: Akad. Nauk SSSR, Geol. Inst., Trudy, v. 206, 380 p., 79 text-fig., 55 pl., Nauka (Moskva). [*Tommotian Stage and the problem of the lower limit of the Cambrian.*]

Schlüter, Clemens

- (100) 1886, *Archaeocyathus im russischen Silur?*: Deutsch. Geol. Gesell., Zeitschr., v. 38, p. 899-909.

Seilacher, Adolf

- (101) 1962, *Die Sphinctozoa, eine Gruppe fossiler Kalkschwämme*: Akad. Wiss. Lit. [Mainz], Abhandl., math.-naturwiss. Kl., 1961, pt. 10, p. 720-790, pl. 1-9.

Simon, Wilhelm

- (102) 1939, *Archaeocyathacea*. I. Kritische Sichtung der Superfamilie. II. Die Fauna im Kambrium der Sierra Morena (Spanien): Senckenberg. Naturforsch. Gesellsch., Abhandl., no. 448, p. 1-87, text-fig. 1-5, pl. 1-5.
- (103) 1941, *Archaeocyathacea*. III. Ergänzungen zur Taxonomie aus neueren Arbeiten: Senckenbergiana, v. 23, no. 1-3, pl. 1-19.

Steinmann, G.

- (103a) 1882, *Pharetronen-Studien*: Neues Jahrb. Mineralogie, Geologie u. Paläontologie, Abhandl., v. 2, p. 139-191.

Taylor, T. G.

- (104) 1908, *Preliminary note on Archaeocyathinae from the Cambrian "coral reefs" of South Australia*: Australasian Assoc. Advanc. Sci., Rept., v. 11, p. 423-437, 2 pl., 8 text-fig.
- (105) 1910, *The Archaeocyathinae from the Cambrian of South Australia with an account of the morphology and affinities of the whole class*: Royal Soc. S. Australia, Mem., v. 2, pt. 2, p. 55-188, pl. 1-16, 51 text-fig.

Termier, H., & Termier, G.

- (106) 1950, *Paléontologie Marocaine*: v. 2, pt. 1, p. 41-54, pl. 3-9, Hermann & Cie (Paris).

Ting, T. H.

- (107) 1937, *Revision der Archaeocyathinen*: Neues Jahrb. Geologie, Mineralogie, Paläontologie, v. 78, abt. B., p. 327-379, 12 text-fig., pl. 9-14.

Toll, E. von

- (108) 1899, *Beiträge zur Kenntniss des sibirischen Cambrium*. I: Acad. Sci. St. Pétersbourg, Mém., sér. 8, Cl. Phys.-Math., v. 8, no. 10, p. 1-57, pl. 1-8.

Vlasov, A. N.

- (109) 1961, *Kembriyskie stromatoporoidei*: Paleont. Zhurnal, 1961, no. 3, p. 22-32, pl. 1. [*Cambrian stromatoporoids*.]
- (110) 1967, *O rode Altaicyathus Vologdin*: Same, 1967, no. 1, p. 120. [*On the genus Altaicyathus Vologdin*.]

Vologdin, A. G.

- (111) 1928, *O novykh svoebraznykh formakh arkhheotsiat iz kembriya Sibiri*: Ezheg. Russk. Paleont. Obschch., v. 7, p. 25-46. [*On new and unusual forms of Archaeocyatha of the Cambrian of Siberia*.]
- (112) 1931, *Arkhheotsiati Sibiri, vyp. 1, Fauna i flora izvestnyakov rayona d. Kameshki i ul. Bey-buluk Minusinsk-Khakasckogo kraya i okamenelosti izvestnyakov s.r. nizhney Tersi Kuznetsckogo okruga*: 119 p., 44 text-fig., 24 pl., Geol. Izdatel. Glav. Geol.-razved. Uprav. (Moskva, Leningrad). [*Archaeocyatha of Siberia, fasc. 1. Fauna and flora of the limestone areas of Kameshki*

and Bey-Buluk in the Minusinsk-Khakassiya regions and fossils of the limestones of the Lower Tersi R. of the Kuznetsk district.]

- (113) 1932, *Arkhheotsiati Sibiri, vyp. 2, Fauna kembriyskikh izvestnyakov Altaya*: 106 p., 46 text-fig., 14 pl., Gosudarst. Nauchnotekhnich. Geol.-razved. Izdatel. [N.K.I.P.] (Moskva, Leningrad). [*Archaeocyatha of Siberia, no. 2, Fauna of the Cambrian limestones of the Altay*.]
- (114) 1934, *Ob arkhheotsiatakh iz basseyna reki Laby severnogo Kavkaza*: Akad. Nauk SSSR, Doklady, v. 4, p. 499-505, text-fig. 1-4. [*On the Archaeocyatha of the basin of the River Laby of the northern Caucasus*.]
- (115) 1937a, *Arkhheotsiati i vodorosli yuzhnogo sklona Anabarsckogo massiva*: Arklich. Inst., Trudy, v. 91, p. 9-66, pl. 1-12. [*Archaeocyatha and algae of the southern slopes of the Anabar massif*.]
- (116) 1937b, *Arkhheotsiati i rezul'taty ikh izucheniya v SSSR*: Problemy paleontologii, v. 2-3, p. 453-500, 24 text-fig., pl. 1-4, Paleontologicheskaya Laboratoriya, Moskovskogo Gosudarstvennogo Universiteta (Moskva). [*Archaeocyatha and the results of their study in the USSR*.]
- (117) 1939, *Arkhheotsiati i vodorosli srednego kembriya yuzhnogo Urala*: Problemy paleontologii, v. 5, 209-276, pl. 1-12, Paleontologicheskaya Laboratoriya, Moskovskogo Gosudarstvennogo Universiteta (Moskva). [*Archaeocyatha and algae of the Middle Cambrian of the southern Urals*.]
- (118) 1940a, *Arkhheotsiati i vodorosli kembriyskikh izvestnyakov Mongolii i Tuvy, Chast'1*: Akad. Nauk SSSR, Mongol. Kom., Trudy, no. 34, 268 p., 83 text-fig., 54 pl., 1 map. [*Archaeocyatha and algae of the Cambrian limestones of Mongolia and Tuva, Part 1*.]
- (119) 1940b, *Atlas rukovodyashchikh form iskopaemykh faun SSSR. (1) Kembriy*: (A. G. Vologdin, ed.), 193 p., 49 pl., Gosgeolizdat (Moskva, Leningrad). [*Atlas of characteristic forms of the fossil faunas of the USSR. (1) Cambrian*.]
- (120) 1948, *K stroeniyu tela pravil'nykh arkhheotsiat*: Akad. Nauk SSSR, Izvestiya, ser. biol., no. 1, p. 93-99. [*On the structure of the soft parts of the regular Archaeocyatha*.]
- (121) 1955, *O kol'chatykh bezdnishchevykh arkhheotsiatakh kembriya severnoy Azii*: Same, Doklady, v. 103, no. 1, p. 141-143, 3 text-fig. [*On the annulate, atabulate Archaeocyatha of the Cambrian of northern Asia*.]
- (122) 1956, *K klassifikatsii tipa Archaeocyatha*: Same, Doklady, v. 111, no. 4, p. 877-880. [*On the classification of the phylum Archaeocyatha*.]
- (123) 1957a, *Arkhheotsiati i ikh stratigraficheskoe znachenie*: Acta Palaeont. Sinica, v. 5, p.

- 173-222, pl. 1-22. [*Archaeocyatha and their stratigraphic significance.*]
- (124) 1957b, *K stroeniyu vnutrennego organa arkhheotsiat*: Akad. Nauk SSSR, Doklady, v. 114, no. 5, p. 1105-1108. [*On the structure of the internal organs of Archaeocyatha.*]
- (125) 1957c, *O neskol'kikh vidakh planktonnykh i benticheskikh arkhheotsiat*: Same, Doklady, v. 116, no. 3, 493-496, 4 text-fig. [*On some species of planktonic and benthonic Archaeocyatha.*]
- (126) 1957d, *Ob ontogeneze arkhheotsiat*: Same, Doklady, v. 117, no. 4, p. 697-700, 1 text-fig. [*On the ontogeny of Archaeocyatha.*]
- (127) 1959a, *Tersiidy kembriyskikh otlozheniy Chitinskoy oblasti*: Same, Doklady, v. 124, no. 5, p. 1133-1136, 2 text-fig. [*Tersiids of the Cambrian deposits of Chita province.*]
- (128) 1959b, *Verkhne-kembriyskiy arkhheotsiatokorallovy isenoz, khr. Tannu-ola, Tuva*: Same, Doklady, v. 129, no. 3, p. 670-673, 4 text-fig. [*Upper Cambrian archaeocyathan-coral coenose, Tannu-ola Range, Tuva.*]
- (129) 1959c, *K onto-filogenezu Arkhheotsiat*: Inst. Morfol. zhivotn., A. N. Severtsova, Trudy, 1959, v. 27, p. 79-89, 11 text-fig. [*On the onto-phylogenesis of the Archaeocyatha.*]
- (130) 1960, *O rode Ajacicyathus Bedford et Bedford, 1939 i sem. Ajacicyathidae Bedford et Bedford, 1939*: Akad. Nauk SSSR, Doklady, v. 130, no. 2, p. 421-424, 1 text-fig. [*On the genus Ajacicyathus Bedford et Bedford, 1939 and the fam. Ajacicyathidae Bedford et Bedford, 1939.*]
- (131) 1961, *Arkhheotsiaty i ikh stratigraficheskoe znachenie*: Mezhdunar. geol. Kongr. XX sessiya, Simpozium po kembriyu, v. 3, p. 173-177 (unseen; *vide* VOLOGDIN, 1966, p. 16). [*Archaeocyatha and their stratigraphical significance.*]
- (132) 1962a, *Novyy rod odnostennykh arkhheotsiat s lozhnym intervallyumom*: Akad. Nauk SSSR, Doklady, v. 145, no. 2, p. 419-421, text-fig. 1. [*A new genus of one-walled Archaeocyatha with pseudo-intervallum.*]
- (133) 1962b, *K anatomii arkhheotsiat*: Paleont. Zhurnal, 1962, no. 2, p. 9-20, 5 text-fig., pl. 1-2. [*On the anatomy of the Archaeocyatha.*]
- (134) 1962c, *Arkhheotsiaty i vodorosli kembriya Baykal'skogo nagor'ya*: Akad. Nauk SSSR, Paleont. Inst., Trudy, v. 93, 118 p., 21 pl. (Moskva). [*Archaeocyatha and algae of the Cambrian of the Baykal uplands.*]
- (135) 1962d, *Tip Archaeocyatha. Arkhheotsiati*: in Osnovy paleontologii, Yu. A. Orlov (ed.), Gubki, arkhheotsiaty, kishchnopolostnye, chervi, p. 89-142, text-fig. 1-128, pl. 1-9, Akad. Nauk SSSR (Moskva). [*Phylum Archaeocyatha. Arkhheotsiati.*]
- (136) 1963, *Pozdnesrednekembriyskie arkhheotsiaty basseyna reki Amgi (Sibirskaya platforma)*: Akad. Nauk SSSR, Doklady, v. 151, no. 4, p. 946-949, text-fig. 1-3. [*Late Middle Cambrian Archaeocyatha of the basin of the River Amga (Siberian platform).*]
- (137) 1964a, *Kribritsiaty—novyy klass arkhheotsiat*: Same, Doklady, v. 157, no. 6, p. 1391-1394, text-fig. 1. [*Cribricyatha—a new class of Archaeocyatha.*]
- (138) 1964b, *O slozhnoperegorodochnykh arkhheotsiatakh verkhnemonojskoy svity kembriya zapadnogo Sayana*: Same, Doklady, v. 159, no. 2, p. 357-360, text-fig. 1-2. [*On complexly septate Archaeocyatha in the Upper Monok Suite of the Cambrian of western Sayan.*]
- (139) 1966, *Kribritsiaty kembriya SSSR*: Same, Paleont. Inst., Trudy, v. 109, 64 p., text-fig. 1-30, pl. 1-3. [*Cribricyatha of the Cambrian of the USSR.*]
- , & **Fonin, V. D.**
- (140) 1966, *Novye odnostennye tenial'nye arkhheotsiaty Priargun'ya*: Akad. Nauk SSSR, Doklady, v. 167, p. 167-190, text-fig. 1. [*New one-walled tenial Archaeocyatha of Priargunye.*]
- , & **Yazmir, M. M.**
- (141) 1967, *Novoe semeystvo arkhheotsiat s shestigrannymi lokulyami v intervallyume*: Akad. Nauk SSSR, Doklady, v. 175, no. 6, p. 1375-1377, 1 text-fig., 1 pl. (fig. 2) opp. p. 1357. [*New family of Archaeocyatha with hexagonal loculi in the intervallum.*]
- Voronin, Yu. I.**
- (142) 1962, *Novye arkhheotsiaty (Ayatsitsiat'idy) iz kembriya Tuvy*: Paleont. Zhurnal, 1962, no. 3, p. 24-28, pl. 4. [*New Archaeocyatha (Ajacicyathidae) from the Cambrian of Tuva.*]
- (143) 1964, *O nekotorykh septal'nykh arkhheotsiatakh kembriya Chitinskoy oblasti*: Same, 1964, no. 2, p. 11-21, 2 text-fig., pl. 1. [*On some septate Archaeocyatha from the Cambrian of Chita province.*]
- (144) 1969, *Sistematicheskoe polozhenie roda Cadniacyathus Bedford, R. et J., 1937 i roda Inessocyathus Debrenne, 1964*: in I. T. Zhuravleva (ed.), 1969, *Biostratigrafiya i paleontologiya nizhnego kembriya Sibiri i Dal'nego Vostoka*, p. 99-105, 3 text-fig., pl. 39, Nauka (Moskva). [*Systematic position of the genus Cadniacyathus Bedford, R. et J., 1937 and of the genus Inessocyathus Debrenne, 1964.*]
- Walcott, C. D.**
- (145) 1886, *Second contribution to the studies on the Cambrian faunas of North America*:

- U.S. Geol. Survey, Bull., no. 30, 369 p., 33 pl.
- (146) 1889 [1890?], *Descriptive notes of new genera and species from the Lower Cambrian or Olenellus Zone of North America*: U.S. Natl. Museum, Proc., v. 12, p. 33-46.
- (147) 1912, *Notes on fossils from limestone of Steeprock Lake, Ontario*: Geol. Survey Canada, Mem., no. 28, 11 p. (appendix).
- Walter, M. R.**
- (147a) 1967, *Archaeocyatha and the biostratigraphy of the Lower Cambrian Hawker Group, South Australia*: Geol. Soc. Australia, Jour., v. 14, p. 139-152, pl. 7-8.
- Webers, G. F.**
- (148) 1966, *Upper Cambrian archaeocyathid from Antarctica*: Geol. Soc. America, Spec. Paper, v. 87, p. 183 [abstr. 1965].
- Yakovlev, V. N.**
- (149) 1956, *O nekotorykh nepodcherknutykh osobennostyakh Archaeolynthus Taylor i ego vozmozhnoy rodstvennoy svyazi s iglokozhimy*: Akad. Nauk SSSR, Doklady, v. 109, no. 4, p. 855-857, text-fig. 1. [On some not understood peculiarities in the structure of *Archaeolynthus* Taylor and its possible relationships with the Echinodermata.]
- (149a) 1959, *Chanakcyathus strachovi* gen. et sp. nov.—pervyy predstavitel'noy semeystva nizhnekembriyskikh arkheotsiat: Soobshcheniya DVF SO AN SSSR, vyp. 10 [not seen, quoted by OKUNEVA, 1969, p. 85.] [*Chanakcyathus strachovi* new genus and species—first representative of a new family of lower Cambrian Archaeocyatha.]
- Yankauskas, T. V.**
- (150) 1964, *O nekotorykh problematicheskikh organicheskikh ostatkakh iz nezhnego kembriya Vostochnogo Sayana*: Materialy po geologii i poleznym iskopaemym so dnr rozhdeniya M. A. Usova, p. 56-59, State Univ., Tomsk (unseen). [On some problematical organic remains from the Lower Cambrian of Eastern Sayan.]
- (151) 1965, *Pterotsiatidy-Novyy otryad kribritsiat*: Akad. Nauk SSSR, Doklady, v. 162, no. 2, p. 438-440, text-fig. 1. [*Pterocyathida*—a new order of Cribricyathida.]
- (152) 1969, *Pterotsiatidy nizhnego kembriya Krasnoyarskogo kryazha (vostochnyy Sayan)*, in I. T. Zhuravleva (ed.), *Biostratografiya i paleontologiya nizhnego kembriya Sibiri i Dal'nego Vostoka*, p. 114-157, text-fig. 1-29, pl. 43-50, Nauka (Moskva). [*Pterocyathida* of the Lower Cambrian of the Krasnoyarsk block (eastern Sayan).]
- , & Zhuravleva, I. T.
- (153) 1969, *Opornyy razrez nizhnego kembriya zapadnogo Sayana*: Akad. Nauk SSSR, Geol. & Geofiz., 1969, no. 4, p. 3-10. [Key section of the Lower Cambrian of western Sayan.]
- Yaroshevich, V. M.**
- (154) 1957, *Novye predstaviteli arkheotsiat kembriya vostochnogo sklona Kuznetskogo Ala-Tau*: Akad. Nauk SSSR, Doklady, v. 116, no. 6, p. 1015-1017, 1 pl. [New representatives of Archaeocyatha in the Cambrian of the eastern slopes of the Kuznetsk Ala-Tau.]
- Yavorskiy [Yaworsky], V. I.**
- (155) 1940, *Poryadok Stomatopory*: in Atlas rukovodnyashchikh form iskopaemykh faun SSSR, Tom. 1, Kembriy, A. G. Vologdin (ed.), p. 100-103, pl. 1, Gosgeoltekhizdat, (Moskva). [Order Stomatoporoidea.]
- Yaworsky, B.**
- (156) 1932, *Ein Stromatoporenfund im Cambrium*: Zentralblatt, Mineralogie, Geologie, Paläontologie, Abt. B, 1932, no. 12, p. 613-616.
- Zelenov, K. K.**
- (157) 1957, *Litologiya kembriyskikh otlozheniy severnogo sklona Aldanskogo massiva*: Akad. Nauk SSSR, Geol. Inst., Trudy, no. 8, p. 1-123. [Lithology of the Cambrian deposits of the northern slopes of the Aldan massif.]
- Zhuravleva, I. T.**
- (158) 1949, *Nekotorye dannye o stroenii kubka u predstaviteley roda Rhabdocyathus Toll*: Akad. Nauk SSSR, Doklady, v. 67, no. 3, p. 547-550, text-fig. 1-2. [Some data on the structure of the cup in representatives of the genus *Rhabdocyathus* Toll.]
- (159) 1950, *Arkheotsiaty kembriya vostochnogo sklona Kuznetskogo Ala-Tau*: Dissertatsiya na soiskaniye uchenoy stepeni kandidata biologicheskikh nauk Nauchnyy rukovoditel'-professor doktor biologicheskikh nauk E. D. Soshkina. Avtoreferat, p. 1-13, Akad. Nauk SSSR, Paleont. Inst. (Moskva). [*Archaeocyatha* of the Cambrian of the eastern slopes of the Kuznetsk Ala-Tau.]
- (160) 1951a, *Ob individual'nom razvitiy kubkov pravil'nykh arkheotsiat i "arkheotsiatovykh lichimkakh"*: Akad. Nauk SSSR, Doklady, v. 80, no. 1, p. 97-100, text-fig. 1-3. [On individual development of the cup of the regular Archaeocyatha and "archaeocyathan larvae."]
- (161) 1951b, *O novum rode arkheotsiat s grebenchatymi dnishchami v kembriyskikh izvestnyakakh Sibiri*: Same, Doklady, v. 81, no. 1, p. 77-80, text-fig. 1-3. [On a new genus of Archaeocyatha with pectinate tabulae from the Cambrian limestones of Siberia.]
- (162) 1955a, *Arkheotsiaty kembriya vostochnogo sklona Kuznetskogo Ala-Tau*: Same, Paleont. Inst., Trudy, v. 56, p. 5-56, text-fig. 1-6, pl. 1-6. [*Archaeocyatha* of the Cam-

- brian of the eastern slopes of the Kuznetsk Ala-Tau.]
- (163) 1955b, *K poznaniyu arkhheotsiat Sibiri*: Same, Doklady, v. 104, no. 4, p. 626-629, 2 text-fig. [Contribution to our knowledge of the Archaeocyatha of Siberia.]
- (164) 1957, *Arkheotsiaty, ikh razvitiye i stratigraficheskoe znachenie*: Moskov. Obsch. Ispyt. Prirody, Byull., ser. geol., v. 32, no. 3, p. 174-175. [Archaeocyatha, their development and stratigraphic significance.]
- (165) 1959a, *Arkheotsiaty bazai khskogo gorizonta R. Kii*: Akad. Nauk SSSR, Doklady, v. 124, no. 2, p. 424-427, 1 text-fig., 1 pl. [Archaeocyatha of the Bazai khian horizon of the R. Kiiya.]
- (166) 1959b, *O polo zhenii arkhheotsiat v filogeneticheskoy sisteme*: Paleont. Zhurnal, 1959, no. 4, p. 30-40, text-fig. 1-6, pl. 1. [On the position of the Archaeocyatha in a phylogenetic system.]
- (167) 1960a, *Novye dannye ob arkhheotsiatakh sanashtykgol'skogo gorizonta*: Akad. Nauk SSSR, Geol. Geofiz. Novosibirsk, 1960, no. 2, p. 42-46, text-fig. 1a-k. [Recent data on the Archaeocyatha of the Sanashtykgolian horizon.]
- (168) 1960b, *Arkheotsiaty Sibirskoy platformy*: 344 p., 147 text-fig., 33 pl., 26 tables, Akad. Nauk SSSR (Moskva). [A monograph of Akad. Nauk SSSR, Sibirskoe otdelenie, Institut. Geologii i Geofiziki, Paleont. Institut.] [Archaeocyatha of the Siberian platform.]
- (169) 1961, *Monograficheskoe opisaniye nekotorykh arkhheotsiat sretenskogo razreza*: in article by D. I. Musatov, V. N. Nemirovskiy, E. V. Shirokoviy, & I. T. Zhuravleva, "Sretenskiy razrez v Vostochnogo Sayana," Materialy po geologii polezn. iskop. Krasnoyarskogo kraya, no. 2, p. 17-33, Zapadno-Sibirskogo geologicheskogo tresta (city not known) [unseen].
- (170) 1963a, *Novye dannye ob arkhheotsiatakh vostochnogo sklona yuzhnogo Urala*: Paleont. Zhurnal, 1963, no. 4, p. 116-118, 2 text-fig. [New data on the Archaeocyatha of the eastern slopes of the southern Urals.]
- (171) 1963b, *Arkheotsiaty Sibiri. Odnostennnye Arkheotsiaty (Otryady Monocyathida i Rhizacyathida)*: 140 p., 12 pl., Akad. Nauk SSSR (Moskva). [Archaeocyatha of Siberia: One-walled Archaeocyatha (orders Monocyathida and Rhizacyathida).]
- (172) 1965, *Arkheotsiaty verkhnego podotdela nizhnego kembriya severa Baykal'skogo nagor'ya (solontsovskiy i obruchevskiy gorizonty)*: in Stratigrafiya i paleontologiya paleozoya Aziatskoy chasti SSSR, p. 3-12, text-fig. A-E, pl. 1-2, Nauka (Moskva). [Archaeocyatha of the upper subdivision of the Lower Cambrian of the northern Baykal highlands (Solontsovian and Obruchevian horizons).]
- (173) 1966, *Rannekembriyskie organogennye postroyki na territorii Sibirskoy platformy*, in Organizm i sreda v geologicheskom proshlom: p. 61-84, Nauka (Moskva). [Early Cambrian organogenic structures in the territories of the Siberian platform.] [A book of the Akad. Nauk SSSR, Paleontologicheskiiy Institut.]
- (174) 1968a, *Biogeografiya i geokhronologiya rannego kembriya po arkhheotsiatam*: XXIII Sessiya Mezhdunarodnogo geologicheskogo kongressa, 1968, Doklady Sovetskikh geologov, 3. Problemy Paleontologii, p. 33-44. [Biogeography and geochronology of the early Cambrian based on the Archaeocyatha.]
- (175) 1968b, *Arkheotsiaty nezhnego kembriya severo-zapadna Sibirskoy platformy*: in V. A. Datzenko, I. T. Zhuravleva, N. P. Lazarenko, Yu. N. Popov, & N. E. Chernysheva, Biostatigrafiya i fauna kembriyskikh otlozheniy severo-zapadna Sibirskoy platformy, Nauchno-Issledov. Inst. Geol. Ark-tiki, Trudy, v. 155, p. 118-176, pl. 1-14, Nedra (Leningrad). [Archaeocyatha of the Lower Cambrian of the northwest Siberian platform.]
- (176) 1969, *Biostratigrafiya i paleontologiya nizhnego kembriya Sibiri i Dal'nego Vostoka*: I. T. Zhuravleva (ed.), 228 p., 60 pl., Nauka (Moskva). [Biostratigraphy and paleontology of the Lower Cambrian of Siberia and the Far East.]
- (177) 1970a, *Porifera, Sphinctozoa, Archaeocyathi—their connections*: in W. G. Fry (ed.), The biology of the Porifera, Symposium Zool. Soc. London, no. 25, p. 41-59 (London).
- (178) 1970b, *Marine faunas and Lower Cambrian stratigraphy*: Am. Jour. Sci., v. 269, p. 417-445.
- , **Konyushkov, K. N., & Rozanov, A. Yu.**
- (179) 1964, *Arkheotsiaty Sibiri. Dvustennnye arkhheotsiaty*: 132 p., 16 pl., Akad. Nauk SSSR (Moskva). [Archaeocyatha of Siberia. Two-walled Archaeocyatha.]
- , **Korshunov, V. I., & Rozanov, A. Yu.**
- (180) 1969, *Atdabanskiy yarus i ego obosnovaniye po arkhheotsiatam v stratotipicheskoy razreze*: in I. T. Zhuravleva (ed.), Biostratigrafiya i paleontologiya nizhnego kembriya Sibiri i Dal'nego Vostoka, p. 5-59, pl. 1-25, Nauka (Moskva). [The Atdaban stage and its significance based on the Archaeocyatha of the stratotypical section.]

- , **Krasnopeeva, P. S., & Chernysheva, S. V.**
 (181) 1960, *Tip Archaeocyathi. Arkheotsiati*: in Biostratigrafiya paleozoya Sayano-Altayskoy gornoy oblasti, L. L. Khalfin (ed.), Sib. Nauchno-Issled. Inst. Geol. Geofiz. Miner. Syr'ya, Trudy, v. 19, p. 97-140, text-fig. 19-38, pl. 1-12. [*Phylum Archaeocyatha. Arkheotsiati.*]
- , **Zadorozhnaya, N. M., Osadchaya, D. V., Pokrovskaya, N. V., Rodionova, N. M., & Fonin, V. D.**
 (182) 1967, *Fauna nizhnego kembriya Tuvy (opornyy razrez r. Shivelig-Khem)*: 181 p., 39 text-fig., 70 pl., Nauka (Moskva). [*Fauna of the Lower Cambrian of Tuva (key section, River Shivelig-Khem).*]
- , **& Zelenov, K. K.**
 (183) 1955, *Biogermiy pestrotsvetnoy svity reki Leny*: Akad. Nauk SSSR, Paleont. Inst., Trudy, v. 66, p. 57-77, text-fig. 1-8, pl. 1-2. [*Bioherms of the variegated suite of the River Lena.*]
- Ziegler, Bernhard, & Rietschel, Siegfried**
 (184) 1970, *Phylogenetic relationships of fossil calcisponges*: in W. G. Fry (ed.), The biology of the Porifera, Symposium Zool. Soc. London, no. 25, p. 23-40 (London).

INDEX

Italicized names in the following index are considered to be invalid; those printed in roman type, including morphological terms, are accepted as valid. Suprafamilial names are distinguished by the use of full capitals and author's names are set in small capitals with an initial large capital. Page references having chief importance are in boldface type (as **E100**). Some divergences in classification reflect differences of authors concerning validity of nomenclature.

- Abakanicyathus, **E124**
ACANTHINOCYATHIDA, E58
 Acanthinocyathidae, E46, **E60**
ACANTHINOCYATHINA, E58
 Acanthinocyathus, **E60**
Acanthocyathidae, E60
ACANTHOCYATHINA, E58
Acanthocyathus, E60
 Acanthopyrgidae, E48, **E131**
 Acanthopyrgus, **E131**
Acanthinocyathidae, E60
Acanthocyathus, E60
 Achorocyathidae, E48, **E140**
 Achorocyathus, **E141**
 Afacyathus, **E65**
 Agastrocyathus, **E107**
 Agyrekyathidae, E47, **E96**
 Agyrekyathus, **E96**
 Ajacia, E132
 Ajaciyathacea, E46, **E61**
 Ajaciyathellus, **E61**
 AJACICYATHIDA, E46, **E58**
 Ajaciyathidae, E26, E33, E46, **E61**, E134
 AJACICYATHINA, E3, E13, E25, E45-E46, E58, **E61**
 Ajaciyathus, E4, E6, E9, E11, E13-E14, E27, **E61**
 Akademiophyllacea, E48, **E139**
 Akademiophyllidae, E48, E139-**E140**
AKADEMIOPHYLLOIDEA, E137
 Akademiophyllum, **E140**
 Alataucyathacea, E47, **E97**
 Alataucyathidae, E26, E47, **E97**
 Alataucyathus, **E97**
 Aldanian Stage, E29
 algae, E27
 algal-archaeocyathan bioherms, E28
 algal-archaeocyathan reefs, E40
 Alphacyathus, **E57**
 Altaicyathus, **E142**
 Altay-Sayan fold belt, E29, E33
 Amgian Stage, E32
 Amousleikian Stage, E32
 Anaptyctocyathacea, E47, **E97**
 Anaptyctocyathidae, E47, **E97**
 Anaptyctocyathus, **E97**
 Angaricyathus, **E91**
 Annulocyathacea, E47, **E80**
Annulocyathella, E81
 Annulocyathidae, E26, E47, **E80**
 Annulocyathus, E11, **E80**
 Annulofungia, **E80**
Annulofungia, E81
 annulus, E9, **E40**
Anomalophylla, E138
Anomalophyllum, E138
 ANTHOCYATHA, E103
 ANTHOCYATHEA, E43, E103
 Anthomorpha, E11, **E121**
 ANTHOMORPHEA, E43
 ANTHOMORPHIDA, E121
 Anthomorpha, E15, E48, **E121**
 ANTHOMORPHINA, E121
 APHROSALPINGIDA, E48, **E134**
 Aphrosalpingidae, E44, E48, **E134**
 APHROSALPINGIDEA, E134
 APHROSALPINGIFORMES, E134
 APHROSALPINGOIDA, E48, **E134**
 APHROSALPINGOIDEA, E44
 Aphrosalpinx, **E134**
 Aphyllum, E138
 Apocyathus, **E135**
Aptocyathacea, E57
 Aptocyathella, **E58**
 Aptocyathidae, E46, **E57**
 Aptocyathus, **E57**
Araneocyathidae, E121
Araneocyathus, E121
Archaeobullathus, E140
Archaeobullatus, E140
 ARCHAEOCYATHA, E2-E3, E9, E44, E46, **E50**
Archaeocyathaceae, E50
 ARCHAEOCYATHEA, E43
Archaeocyathellidae, E61
 Archaeocyathellus, **E62**
 ARCHAEOCYATHI, E50
 ARCHAEOCYATHIDA, E48, **E103-104**
 Archaeocyathidae, E48, **E117**, E134
 ARCHAEOCYATHINA, E48, **E103-104**
 ARCHAEOCYATHINAE, E50
Archaeocyathinae, E117
 Archaeocyathus, E6, E32, E39, **E117**, E134
 Archaeofungia, E19, **E113**
Archaeofungidae, E112
 Archaeofungiidae, E48, **E112**
 ARCHAEOLYNTHIDA, E50
Archaeolynthidae, E51
 Archaeolynthus, E6, E17, E24, E26, **E51**, E53
 Archaeopharetra, E11, **E105**
 ARCHAEOPHARETRIDA, E45
 Archaeopharetridae, E48, **E105**
 ARCHAEOPHYLLIDA, E48, **E141**
 Archaeophyllidae, E48, **E141**
 ARCHAEOPHYLLINA, E141
 ARCHAEOPHYLLOIDEA, E141
 Archaeophyllum, **E141**
 Archaeosycon, **E123**
 ARCHAEOSYCONIDA, E121, E142
 Archaeosyconidae, E17, E33, E44, E48, **E122**
Archaeosyconidae, E122
 ARCHAEOSYCONIINA, E121
 ARCHAEOSYCONINA, E16, E48, **E121**
Archeocyathus, E43
 Ardrossacyathus, **E111**
 Asaphiscus, E32
Asocyathus, E61
 Asterocyathellus, **E92**
Asterocyathidae, E92
 Asterocyathus, E23, **E93**
 Asterotumulus, **E97**
 Atdabanian Stage, E29
 Atikokania, **E142**
 Azyricyathus, E135
 Azyricyathus, **E135**
 Azyrocyathus, E135
 Bacatocyathidae, E48, **E103**
 Bacatocyathus, **E103**
Bacatocyathus, E103
 bar, **E40**
Batchatocyathidae, E103
Batchatocyathus, E103
 Batenevia, **E124**
Batschatocyathus, E103
 BAYFIELD, E43
 BEDFORD & BEDFORD, E43, E133-**E134**
Bedfordcyathus, E110
Beltanacyathidae, E112
 Beltanacyathus, E4, E9, E19, **E114**
Bephyllum, E139
 Beticocyathus, **E128**
 BICYATHIDA, E103
 Bicyathidae, E48, **E105**, E133
 BICYATHINA, E103
 Bicyathus, E8, E10, E16, **E105**
 BILLINGS, E43
Binatocyathus, E134
 bioherms, E27
 biotromes, E27
 BORNEMANN, E43
 Bosceculyathacea, E47, **E77**

- Bosceculcyathidae, E47, **E78**
 Bosceculcyathus, **E78**
 BOSCECULIDA, E58, **E77**
 BOSCEKULCYATHINA, E61, **E77**
Bosceculcyathus, E78
 BOSCEKULIDA, E58, **E77**
Botomacyathidae, E91
Botomacyathus, E92
 Botomian Stage, E29
Botomocyathidae, E47, **E91**
Botomocyathus, E11, **E92**
Bottonaocyathus, **E107**
 BOYARINOV, E133
 bract, **E40**
 BRONCHOCYATHIDA, E85
Bronchocyathidae, E47, **E86**
Bronchocyathus, E86
 Butovia, **E141**
- Cadniacyathus, E19, **E67**
 Calamithes, E43
Calyptoscocinacea, E100
Calyptoscocinidae, E47, **E101**
Calyptoscocinus, E21, **E102**
Calyptocyathus, E21
 Cambrian biostratigraphy, E29
Cambrocyathellus, **E111**
Cambrocyathidae, E109
Cambrocyathinae, E109
Cambrocyathus, **E111**
 Cambronanus, **E119**
 Cambrostroma, E142
 canals, E7
Capillicyathidae, E48, **E137**
Capillicyathus, **E137**
Capsolynthidae, E46, **E53**
Capsolyntus, **E53**
Capsulocyathidae, E46, **E54**
 CAPSULOXYATHINA, E46, **E54**, E58
Capsulocyathus, E13, **E54**
Cardiophyllina, E138
Cardiophyllum, **E138**
Carinacyathidae, E47, **E91**
Carinacyathus, **E91**
Carinocyathus, E91
Carpicyathus, **E65**
 catenulate colony, E6
 catenulate skeleton, E3
Cavocyathus, E132-E133
 central cavity, E3, E21, E23, **E40**, E58
Cephyllum, E139
Chabakovicyathus, **E58**
Chankacyathidae, E46, **E70**
Chankacyathus, **E71**
 CHOUBERTICYATHIDA, E45, E103-E105
Chouberticyathus, **E107**
Circophyllum, E138
Claruscocinus, **E124**
Claruscyathus, **E126**
 classification, **E43**, E46
 clathrate wall, E11
Clathricoscinacea, E47, **E96**
Clathricoscinidae, E47, **E96**
Clathricoscinus, **E96**
Clathricyathus, E19, **E84**
- Clathricyathus*, E84
Clathrocyathus, E84
 COELENTERATA, E2, E43-E44
Coelocyathus, E55
 colonial Archaeocyatha, E6
 colonial habit, E6
Compositocyathidae, E33, E46, **E67**
Compositocyathus, E22, **E67**
 compound skeleton, E3
 CONOIDOCYATHIDA, E48, E134-E135
Conoidocyathidae, E48, **E135**
Conoidocyathus, **E135**
 "conosimilis" stage, E133
 Conularia, E133
Copleicyathidae, E48, **E117**
Copleicyathus, **E117**
Cordilleracyathus, **E84**
Coscinocyathacea, E47, **E92**
Coscinocyathella, E126
Coscinocyathellidae, E47, **E96**
Coscinocyathellus, E26, **E96**
Coscinocyathellus, E96, E126
 COSCINOCYATHIDA, E58, E92, E133
Coscinocyathidae, E26, E33, E47, **E92**
 COSCINOCYATHINA, E7, E13, E15-E16, E25, E47, **E92**
Coscinocyathus, E9-E10, E16, E27, **E92**
- Coscinophyllina*, E137
Coscinophyllum, E137
Coscinoptycha, E99
Coscinoptycha, E4, **E99**
Coscinoteichus, **E94**
Costophyllum, E138
 CRIBRICYATHEA, E44, E48, **E134**
 CRIBRICYATHIDA, E48, E133-E135
Cribricyathidae, E48, **E135**
Cribricyathus, **E135**
 CRIBROCYATHEA, E134
Cricopectinus, E69, **E86**
Cricopectinus, E68
Crispus, **E139**
 CROMMYOCYATHINA, E132
Cryptaporocyathidae, E51
Cryptaporocyathus, E51
Cryptoporocyathidae, E46, **E51**
Cryptoporocyathus, E4, E9, E11, **E51**
 cup, E3, **E40**
Cyathocricus, **E68**
Cyathophyllum, E43
 CYATHOSPONGIA, E50
Cyclocyathella, **E68**
 CYCLOCYATHELLIDA, E58
Cyclocyathellidae, E33, E46, **E68**
Cyclocyathus, E68
Cysticyathus, E103
- Dailyacyathus, **E79**
 DAWSON, E43
 DEBRENNE, E11, E29, E43-E45, E133, E141
 Degeletticyathus, **E73**
- Denaecyathus*, **E67**
Dendrocyathus, **E111**
 dendroid colony, E6
 dendroid skeleton, E3
 dense skeletal tissue, E7
 dense skeletal tissue expansions, E7
Densocyathidae, E61
Densocyathus, E61
Dentatocyathus, **E62**
Dephyllum, E138
 depth, E28
Dictyocoscinidae, E48, **E124**
Dictyocoscinus, **E124**
Dictyocyathidae, E15, E33, E48, **E105**
 DICTYOCYANTHINA, E103
Dictyocyathus, E11, E15, **E105**
Dictyosyon, **E123**
 dissepiment, E3, E13, E17, **E40**
 distal surface of cup, E17
Dokidocyathacea, E59
Dokidocyathella, **E59**
 DOKIDOCYATHIDA, E58, E103
Dokidocyathidae, E33, E46, **E59**
 DOKIDOCYATHINA, E13, E46, **E58**
Dokidocyathus, E4, E15, E26, **E59**
Dolichocyathus, **E135**
 "dolium" stage, E23, E133
Dubius, **E137**
- Echinocyathus*, **E107**
Echinocyathus, E65
 Elanska faunal horizon, E29
Ellipsophyllina, E138
Ellipsophyllum, E138
Eophyllum, E138
 Epiphyton, E28
Erbocyathacea, E46, **E73**
Erbocyathidae, E26, E33, E39, E46, **E73**
Erbocyathus, E15, **E73**
Erismaoscocinacea, E92
Erismaoscocinidae, E92
Erismaoscocinus, E11, E92, **E94**
Erphyllum, **E140**
Erugatocyathus, **E101**
Esphyllum, E138
 ETHERIDGE, E43
Ethmocoscinidae, E47, **E97**
Ethmocoscininae, E97
Ethmocoscinus, E13, **E97**
Ethmocyathidae, E46, **E67**
Ethmocyathidae, E86
Ethmocyathus, E21, E23, **E67**
Ethmocyathus, E86
Ethmolynthidae, E46, **E51**
Ethmolynthinae, E51
Ethmolyntus, **E51**
Ethmopectinidae, E47, **E86**
Ethmopectinidae, E67
Ethmopectinus, **E86**
Ethmopectinus, E67
 ETHMOPHYLLIDA, E58
Ethmophyllidae, E26, E33, E39, E46, **E71**
Ethmophyllum, E21, E29, **E72**
 EUARCHAEOCYATHA, E44

- EUARCHAEOCYATHI*, E50
Eucyathus, E126
 evolution, E24
Exocyathidae, E132
 exocysthoid expansions, E7
Exocyathus, E132
 external form, E4-E6
 external sheath, E9
 extravallar outgrowths, E131
- Fallocyathidae, E47, E90
Fallocyathus, E90
Falsocyathus, E132-E133
Fansycyathacea, E47, E90
Fansycyathidae, E47, E90-E91
Fansycyathus, E91
Fenestrocycyathus, E117
 "fistula" stage, E23, E133
Flindersicoscinus, E126
Flindersicyathidae, E48, E116, E134
Flindersicyathus, E116
 FONIN, E22, E133
 FORAMINIFERA, E43
Formosocyathidae, E26, E47, E86
Formosocyathus, E21, E86
Fragilicyathus, E128
 framework, E40
Fransuasacyathidae, E46, E55
Fransuasacyathus, E4, E26, E55
- Gabrielsocyathus, E126
Gagarinicyathus, E80
Genulicyathus, E95
Geocyathidae, E47, E89
Geocyathus, E89
 geographic distribution, E29
Gerbianicyathidae, E46, E58
Gerbianicyathus, E58
Glaesnericyathidae, E86
Glaesnericyathus, E86
Globosocyathidae, E46, E53
 GLOBOSOCYATHINA, E46, E53
Globosocyathus, E53
Gloriosocyathidae, E47, E81
Gloriosocyathus, E83
Gonophyllum, E138
Gordonicyathus, E69
Gordonifungia, E69
Gorskinocyathus, E65
- Halisyacyathus, E65
 HANDFIELD & HANSMAN, E134
Heckericyathus, E21, E86
Hemiphyllina, E138
Hemiphyllum, E138
Hemistillicidocyathus, E84
Hemithalamocyathus, E69
 HETAIRACYATHIDA, E48, E141
Hetairacyathidae, E48, E141
 HETAIRACYATHINA, E141
Hetairacyathus, E141
Heterocyathidae, E141
 HETEROCYATHINA, E141
Heterocyathus, E141
 HILL, E43-E44
 HINDE, E43
 Howellicyathus, E85
- Hupecyathellacea, E47, E76
Hupecyathellidae, E47, E76
Hupecyathellus, E76
Hupecyathus, E16, E123
- Incurvocyathus, E60
Innessocyathus, E65
 inner wall, E18-E19, E20, E22-E23, E40
 internal cavity, E40
 interradianal loculi, E13
 intersept, E13, E40
 interseptal loculi, E13
 intervallar expansion, E7
 intervallar structures, E14, E16
 intervallum, E3, E11, E41
 intervallum coefficient, E11
 intraspecific variability, E26
 IRREGULARES, E6, E9, E11, E15, E17, E24-E25, E43-E45, E47, E103
 IRREGULARIA, E103
- Jakutocarinus, E90
Jakutocyathus, E24, E90
Japhaniccyathus, E89
- Kaltatocyathidae, E46, E60
Kaltatocyathus, E61
Kameschkovia, E132
Kameshki horizon, E32
Kaphyllum, E138
Kasyricyathidae, E26, E47, E100
Kasyricyathus, E100
 KAZAKHSTANICYATHIDA, E48, E130
Kazakhstanicyathidae, E48, E130
Kazakhstanicyathus, E130
Kenyadian horizon, E29
 KHALFINA, E142
 KHALFINA & YAVORSKIY, E142
Kidrijasocyathidae, E46, E60
Kidrijasocyathus, E26, E60
Kidrijasocyathus, E60
Kijacyathidae, E47, E81
Kijacyathus, E81
Kordecyathacea, E47, E88
Kordecyathidae, E26, E47, E88-E89
Kordecyathus, E89
Korovinella, E142
Korovinellidae, E48, E141
Kotuyicyathidae, E89
Kotuyicyathus, E4, E24, E90
 KRASNOPEEVA, E44, E74
Krasnopeevacyathus, E73
Krishnanicyathus, E74
 Kundatian Stage, E32
- labyrinthomorph, E7
 Labyrinthomorpha, E9, E132
 LABYRINTHOMORPHIDA, E132-E133
Labyrinthomorphidae, E132
 LABYRINTHOMORPHINA, E133
Lacerathus, E140
Ladaeyathidae, E73
Ladaeyathus, E11, E74
- Lagenicyathus, E136
Lagenicyathus, E136
 laminae, E7
Laphyllum, E138
 larval Archaeocyatha, E133
 larval stages, E24, E133
Leecyathidae, E65
Leecyathus, E65
 Leibaella, E137
Leibaellidae, E48, E137
Leinocyathus, E74
Lematiocyathus, E136
 Lenian stage, E29
Lenocyathacea, E47, E89
Lenocyathidae, E26, E47, E89
Lenocyathus, E24, E89
Leptosocyathus, E19, E68
 link, E41
Linsophyllum, E138
Leinocyathus, E138
Loculicyathellus, E63
 LOCULICYATHIDA, E58, E61
 LOCULICYATHINA, E58, E61
Loculicyathus, E6, E9, E19, E62, E63
 LOCULICYATHIDA, E58, E61
Loculocyathidae, E61
Loculocyathus, E62
 loculus, E41
Lomatiocyathus, E136
Lomatiocyathus, E136
 Longaevus, E139
Longicyathus, E136
 louvre, E41
Lucyathus, E133
- Mackenziecyathus, E73
Manacenyathidae, E48, E141
Manacyathus, E141
Manoella, E139
 MASLOV, E22
 massive colony, E6
Matthewcyathidae, E48, E141
Matthewcyathus, E141
 MEEK, E43
Melkanicyathus, E55
Membranacyathus, E103
Mesophyllum, E138
Metacoscinidae, E48, E124
Metacoscinus, E12, E124
 METACYATHIDA, E103
Metacyathidae, E33, E48, E109
 METACYATHINA, E103
Metacyathus, E109
 Metafungia, E16, E111
 Metaldetes, E109
 METALDETIDA, E45, E104, E107, E109
 metaldetimorph, E7
 Metaldetimorpha, E9, E132
Metaldetinae, E109
 Metethmophyllum, E111
Miasosocyathus, E142
 microstructure, E3
Mikhnoocyathus, E62
Miophyllum, E138
Misracyathus, E142
 MONOCYATHA, E50
 MONOCYATHEA, E43, E50

- MONOCYATHIDA, E46, **E50**
 Monocyathidae, E33, E46, **E51**
 MONOCYATHINA, E46, **E50**
Monocyathinae, E51
Monocyathus, E51, E134
Monophyllum, E138
Monstrophyllum, E138
 morphological features, **E3**
 morphological terms, **E40**
Mrassocyathidae, E100
Mrassocyathus, E100
 Mrassocyathacea, E47, **E100**
 Mrassocyathidae, E47, **E100**
 Mrassocyathus, **E100**
Mukhnocyathus, E63
- Nefrophyllum*, E138
Nellicyathis, E121
Nellicyathus, E121
Nellisathyus, E121
 Nematosalpingidae, E48, **E134**
 Nematosalpinx, **E134**
Neocyathus, E74
 NESTOR, E142
 Nevadacyathus, **E63**
 NITECKI, E43
 Nochoroicyathacea, E47, **E85**
 NOCHOROICYATHIDA, E58, **E85**
 Nochoroicyathidae, E26, E33, **E47, E85**
 NOCHOROICYATHINA, E13, **E16-E17, E25, E45, E47, E85**
 Nochoroicyathus, E16, E29, **E95**
 Nostrocycathus, **E132-E133**
- OKULITCH, E43
 Okulitchicyathus, E4, E7, **E27, E111**
 Olenellus, E32
 ontogenetic stages, E24-E25
 ontogeny, **E23**
 ontophyletic speculation, E24
Ophyllum, E138
 ОРІК, E29, E32
 Orbiasterocyathus, **E63**
 Orbicyathus, E4, **E64**
 Orienticyathus, **E100**
 Orlinocyathus, **E142**
 Oryctocephalops-Schistocephalus Zone, E32
 Oryctocephalus, E32
 outer wall, **E7**
 outgrowths from cup, **E7-E8**
- Pachecocyathus, **E65**
 Palaeoschada, **E134**
 PALAEOSCHADIDA, E48, **E134**
 Palaeoschadidae, E48, E132, **E134**
 PALAEOSCHADIFORMES, E134
 paleocology, **E27**
 Palmericyathellus, **E126**
 Palmericyathus, **E73**
 Papillocyathus, **E61**
 PARACOSCINIDA, E45, E103, **E121**
Paracoscinidae, E124
 Paracoscinus, **E126**
Paracyathus, E111
- Paradoxides, E32
 Paradoxides oelandicus Zone, E29
 parallel evolution, E26
 PARANACYATHIDA, E45, **E103-E104, E109**
Paranacyathidae, E109
 Paranacyathus, E4, E8, **E111**
 pariety, **E41**
 peak, **E41**
 Pectenocyathus, **E85**
 pectinate tabula, **E41**
 pellicle, E11
 pellis, E11, **E41**
 pelta, **E41**
 Peregrinicyathidae, E46, **E76**
 Peregrinicyathus, **E76**
 perforate walls, E9
 Peripterocyathus, **E137**
 Peronopsis, E32
 Piamaecyathacea, E47, **E91**
 Piamaecyathellus, **E91**
 Piamaecyathidae, E26, E47, **E91**
 Piamaecyathus, **E91**
Piamaesyathus, E91
 pillars, E4, E13
 Pinacocyathus, **E107**
Pixidocyathidae, E136
Pixidocyathus, E136
 planktonic stages, E133
 Plenocyathus, **E66**
 PLEOSPONGIA, E50
 Plicocyathus, **E66**
 Pluralicoscinus, **E95**
Pluralicyathus, E73
Poletaevacyathidae, E133
 Poletaevacyathus, **E132-E133**
 Polycoscinidae, E47, **E101**
 Polycoscinus, **E101**
Polycyathidae, E73
Polycyathus, E73
 Polystillicidocyathus, E6, **E96**
 pore, E9, **E41**
 pore-canal, E9, **E41**
 pore-tube, E9, **E41**
 PORIFERA, E2, E23, E43-E44
 Porocosciniidae, E47, **E99**
 Porocoscinus, **E100**
 Porocyathidae, E47, **E83**
 Porocyathus, E11, E19, E74, **E83**
Potechinocyathus, E105
Potechinocyathus, E105
 Praeactinostroma, E142
 Pretiosocyathacea, E46, **E75**
 Pretiosocyathidae, E46, **E75**
 Pretiosocyathus, **E75**
 Prismocyathidae, E48, **E117**
 Prismocyathus, **E117, E130**
 PROBLEMATICA, E44, E134
 problematical microfossils, E134
 Profallatopsis Zone, E29
 Propriolynthus, **E51**
 PROTOARCHAEOCYATHA, **E135**
 Protocyathus, **E65**
 Protocyclocyathidae, E48, **E117**
 Protocyclocyathus, **E117**
 Protolenus, E32
 Protopharettra, E9, E11, **E109, E133**
- Protopharettridae, E48, **E108**
 PROTISTA, E2
 PROTOZOA, E22-E23, E43, E44
 Pseudosyringocnema, **E130**
Pterocyathacea, E139
 PTEROCYATHIDA, E134, E137
 PTEROCYATHIDAE, E137, E140
 Pterocyathus, **E140**
 Pubericyathus, **E135**
Putapacyathacea, E55
 PUTAPACYATHIDA, E13, E16, **E33, E46, E55**
 Putapacyathidae, E46, **E55**
 PUTAPACYATHINA, E55
 Putapacyathus, E13, **E55**
 Pycnoidocosciniidae, E48, **E126**
 Pycnoidocoscinus, E18, **E127**
Pycnoidocyathidae, E116
 Pycnoidocyathus, E4, E13, E15, **E45, E116**
 Pyxidocyathidae, E48, **E136**
 Pyxidocyathus, **E136**
- Quadriphyllum*, E138
- Radicicyathus, **E137**
 RADIOCYATHA, E48, **E141**
 Radiocyathus, **E141**
 RADUGIN, E29, E138
 Ramifer, **E137**
 ranges of genera, **E32**
 RAYMOND, E44
 Receptaculitidae, E43
 REGULARES, E5, E9, E13, E24-**E25, E43-E46, E50**
 REGULARIA, E50
 REID, E44
 Renalcis, E28
 Reticoscinus, E17, **E95**
 Reticoscinus zegebarti Zone, E29
Retecyathus, E118
 retiform walls, E9
Rhabdocnema, E51
Rhabdocnemidae, E51
 "Rhabdocyathella," E26, E51, **E54, E124**
 "Rhabdocyathellidae," E46, E51, **E53**
Rhabdocyathidae, E51, E134
Rhabdocyathus, E51
 Rhabdolythus, **E51**
 RHIZACYATHIDA, E103, E133
Rhizacyathidae, E132-E133
Rhizacyathus, E103, **E132**
Rhombophylla, E138
 RICHTER & RICHTER, E32
 Ringifungia, **E83**
 Robertocyathidae, E46, **E75**
 Robertocyathus, **E76**
 Robustocyathidae, E46, **E65**
 Robustocyathus, E8-E9, E11, **E65**
 rods, E3, E13, **E41**
 ROEMER, E43
Rombophyllum, E138
 Rossocyathella, **E83**
 Rotundocyathus, **E66**
 ROZANOV, E26-E27, E32
 Rozanovicoscinus, **E95**
 Rozanovicocyathacea, E47, **E99**

- Rozanovicyathidae, E47, **E99**
 Rozanovicyathus, **E99**
 Rugocyathus, **E66**
 Russocyathus, **E83**
- Sajanacyathus*, E74
 Sajanocyathidae, E46, **E74**
 Sajanocyathus, **E74**
Salairocyathidae, E95
 Salairocyathus, E6, **E95**, E96
 salinity, E29
 Salopicyathus, **E73**
Salopicyathus, E73
Sanaricyathidae, E79
Sanaricyathus, E79-E80
 Sanarkocyathidae, E47, **E79**
 Sanarkocyathus, E79-**E80**
 Sanashtykgolian, E32
Sayanocyathus, E74
 scale, **E41**
Schidertycyathus, E78
 Schidertycyathellus, **E74**
 Schidertycyathidae, E47, **E78**
 SCHIDERTYCYATHINA, E61, E77
 Schidertycyathus, **E78**
 Schumnyicyathus, **E99**
Sclerocyathus, E61
 SELACHER, E44
 Sekwicyathus, **E61**
 septa, E3, E13
 SEPTAIDEA, E133
Septocyathus, E65
 SEPTOIDEA, E50
 septum, **E42**
Serligocyathidae, E74
Serligocyathus, **E75**
 Serratocyathus, **E65**
 sheath, **E42**
 sheet, **E42**
 Shiveligocyathus, **E121**
 Siberian fold belt, E29
 Sibirecyathus, **E66**
Sigmocoscinae, E97
 Sigmocosciniidae, E47, **E99**
 Sigmocoscinus, E4, **E99**
 Sigmocyathacea, E47, **E84**
 Sigmocyathidae, E47, **E84**
 Sigmocyathus, **E84**
 Sigmofungia, **E114**
Sigmofungidae, E114
 Sigmofungiidae, E48, **E114**
Sigmoifungia, E114
 SIMON, E43
 size of cup, E7
 skeleton, E3
 Soanicyathidae, E46, **E60**
 Soanicyathus, **E60**
 soft parts, E21
 solitary Archaeocyatha, E4
Somphocyathidae, E61
Somphocyathus, E61
 "sphaerion" stage, E23, E133
 Sphinctocyathus, **E123**
 SPHINCTOZOA, E44
 spines, E9
 Spinosocyathus, **E107**
Spiralicyathus, E111
 Spirillicyathus, **E111**
- Spirocyathella*, E116
 SPIROCYATHIDA, E103
Spirocyathidae, E117
Spirocyathus, E118
 spitz, **E42**
 Spongiosicyathus, **E142**
 Squamosocyathus, **E84**
Stapephyllum, E138
 Stapicyathus, **E66**
 Stillicidocyathidae, E47, **E95**
 Stillicidocyathus, **E95**
 stirrup-pores, E19
 stratigraphic distribution, **E29**
 stromatoporoids, E142
 Subtilocyathus, **E65**
 Sunciyathus, **E137**
 Sunnaginian horizon, E29
 Svetlanocyathus, **E69**
Sygmocyathidae, E84
Sygmocyathus, E84
Sygmofungia, E116
 synapticula, E15, **E42**
 Syringocnema, E15, E45, **E128**
 SYRINGOCNEMATIDA, E128
Syringocnematidae, E128
Syringocnemida, E128
Syringocnemidae, E128
 SYRINGOCNEMIDIDA, E13, E17, E25, E44-E45, E48, **E128**
 Syringocnemididae, E24, E48, **E128**
Syringocnemina, E128
Syringocnemitidae, E128
 Syringocosciniidae, E48, **E130**
 Syringocoscinus, **E130**
 Syringocyathus, **E78**
 SYRINGOIDEA, E103
 Syringisella, **E117**
Syringsellidae, E116
Szeczyathus, E133
- Tabellaeyathidae, E48, **E119**
 Tabellaeyathus, **E119**
 tabula, E3, E13, E17, **E42**
 Tabulacyathellus, **E124**
 TABULACYATHIDA, E121
 Tabulacyathidae, E48, **E123**, E133
 Tabulacyathus, **E124**
 tabulae, E17
Tabulathyathidae, E123
 TABULOCYATHIDA, E121
Tabulocyathidae, E123
Tabulocyathus, E124
 TABULOIDEA, E44
 taenia, E15, **E42**
 Taeniaeyathellus, **E120**
 TAENIOIDEA, E103
Tanchoyathus, E134
 Tannuolacyathidae, E47, **E96**
 Tannuolacyathus, **E96**
 Tarynian horizon, E29
 Tasousektion Stage, E32
 TAYLOR, E43
 Taylorcyathus, **E69**
 Tchojacyathus, **E60**
 techniques, **E42**
 Tegerocyathella, **E74**
 Tegerocyathus, E29, **E74**
 temperature, E28
- Tennericyathidae, E46, **E66**
 Tennericyathus, **E67**
Tephyllum, E138
 Tercyathacea, E47, **E84**
 Tercyathidae, E26, E47, **E84**
 Tercyathus, **E84**
Tercyathus, E84
Terektigocyathus, E105
Terektigocyathidae, E105
Terektigocyathus, E105
 Tersia, **E132**
 tersiae, E7
 Tersicyathus, **E69**
 Tersiaella, **E132**
 TERSIIDA, E132
 tersioid outgrowth, **E42**
 tersioid processes, E7
 THALAMIDA, E44
Thalamocyathidae, E86
 Thalamocyathus, E3, **E86**
 THALASSOCYATHIDA, E48, **E103**
Thalassocyathidae, E103
 Thalassocyathus, **E103**
Theciyathus, E136
 Thecocyathus, **E136**
Thecocyathus, E136
Theciyathus, E136
Thephyllum, E138
 Timghitian Stage, E32
 tip, **E42**
 Tolbian Substage, E29
 Tollicyathus, **E121**
 Tommotian Stage, E29
 Tomocyathus, **E101**
 Topolinocyathus, **E141**
 Torgaschinocyathus, **E95**
Trapecephyllum, E138
Trigonophylla, E138
Trigonophyllum, E138
Trinnaeyathidae, E85
Trinnaeyathus, **E86**
Tubicoscinus, E92
Tubicyathus, E130
 Tubocyathus, **E130**
 tubular processes, E7
 tubules, E13, E17
 tubuli, E17
Tubulocyathus, E130
 tubulus, E17, **E42**
 Tumulifungia, **E83**
 Tumuliolynthidae, E46, **E51**
 Tumuliolynthus, E4, E24, E26, **E51**
Tumulocoscinae, E97
 Tumulocoscinus, **E99**
 Tumulocyathacea, E47, **E78**
 Tumulocyathellus, E15, **E79**
 Tumulocyathidae, E26, E47, **E78**
 Tumulocyathus, E9, **E79**
 tumulus, **E42**
Tunkia, E134
 Turgidocyathus, **E66**
 Turricyathus, **E137**
Tuvacyathus, E94
- upper surface of cup, **E19**
 Uralocyathella, E26, **E55**
 Uralocyathellidae, E46, **E55**
 Uralocyathidae, E46, **E55**

- URALOCYATHINA*, E54
Uralocyathus, E55
Urcyathella, E76
Urcyathus, E65
Usloncyathidae, E133
Usloncyathus, E132, E133
Uiukcyathus, E121
- Vacuocyathidae*, E55
Vacuocyathus, E26, E55
Vandophyllum, E138
Velicyathus, E55
 Vendian Stage, E29
Ventriculocyathus, E61
Vesiculoidae, E132
 VLASOV, E142
 VOLOGDIN, E7, E21-E23, E28-E29,
 E43-E44, E132-E134
- VOLOGDIN & FONIN, E133
Vologdinocyathidae, E47, E80
Vologdinocyathus, E80
Vologdinophillidae, E138
Vologdinophillum, E138
Vologdinophylloidea, E48, E137
 VOLOGDINOPHYLLIDA, E48,
 E137-E138
Vologdinophyllidae, E48, E138
VOLOGDINOPHYLLOIDEA,
 E137
Vologdinophyllum, E138
Volvacanthus, E15, E109
Volvocidae, E23
 VON TOLL, E43
Voznesenskicyathus, E121
- WALCOTT, E43
 wall, E7
- WALTER, E32
Xystridura, E32
- Yağovlevia*, E132
 Yakutia Province, E33
 YANKAUSKAS, E44, E133
 YAVORSKIY, E142
Yukonocyathus, E84
- ZELENOV, E28
 ZHURAVLEVA, E21-E24, E26, E28-
 E29, E33, E43-E45, E133
Zhuravlevaocyathus, E60
 Zhurian Substage, E29
 ZIEGLER & REITSCHER, E44
Zolacyathus, E63
Zonacyathus, E73
 zoogeographic provinces, E32, E42