

CYCLOCOCOLITHINA WILCOXON NOM. NOV. (NOM. SUBST.  
PRO CYCLOCOCOLITHUS KAMPTNER, 1954)

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The type species of *Cyclococolithus* Kamptner, 1954, was originally described by Murray and Blackman, 1898, and placed in the then invalid genus *Coccosphaera*. The new species was named *Coccosphaera leptopora*, later to be designated type by Hay, 1966. Kamptner, 1954, erected the new genus *Cyclococolithus* but failed to designate a type and included with it *Umbilicosphaera mirabilis* Lohmann, 1902, which was already the type species of that genus. Kamptner's inclusion of the type of another genus in the new genus *Cyclococolithus* resulted in the name *Cyclococolithus* being nomenclaturally superfluous and, therefore, illegitimate and unavailable for use (I.C.B.N. Art. 63).

The following species have been validly described under *Cyclococolithus* and are here included under the new genus *Cyclococolithina*:

- Cyclococolithina acclinis* (Levin & Joerger) Wilcoxon n. comb., = *Cyclococolithus acclinis* Levin & Joerger, 1967, *Micropaleontology*, v. 13, p. 166, pl. 1, fig. 13a-b.
- Cyclococolithina aequiscutum* (Gartner) Wilcoxon n. comb., = *Cyclococolithus aequiscutum* Gartner, 1967, *Univ. Kansas Paleont. Contr.*, Paper 28, p. 4, pl. 7, fig. 4.
- Cyclococolithina anulata* (Reinhardt) Wilcoxon n. comb., = *Cyclococolithus anulatus* Reinhardt, 1966, *Monatsber. Deutsch. Akad. Wiss. Berlin*, v. 8, p. 520, pl. 1, figs. 3, 4, text-fig. 2.
- Cyclococolithina astropora* (Stradner) Wilcoxon n. comb., = *Cyclococolithus astroporus* Stradner, 1963, *Sixth World Petr. Congr.*, sect. 1, paper 4, p. 75, pl. 9, figs. 5-7, text-figs. 3 (2a, b).
- Cyclococolithina atremata* (Kamptner) Wilcoxon n. comb., = *Cyclococolithus atrematus* Kamptner, 1967, *Ann. Naturhist. Mus. Wien*, v. 71, p. 128, pl. 3, figs. 22, 23.
- Cyclococolithina bollii* (Roth) Wilcoxon n. comb., = *Cyclococolithus bollii* Roth, 1969, *Eclogae Geol. Helv.*, v. 61 (1968), p. 465, pl. 1, figs. 3, 4; text-figs. 1-3.
- Cyclococolithina cricota* (Gartner) Wilcoxon n. comb., = *Cyclococolithus cricotus* Gartner, 1967, *Univ. Kansas Paleont. Contr.*, Paper 20, p. 5, pl. 7, fig. 7.
- Cyclococolithina decora* (Kamptner) Wilcoxon n. comb., = *Cyclococolithus decorus* Kamptner, 1963, *Ann. Naturh. Mus. Wien*, v. 66, p. 163, text-fig. 19.
- Cyclococolithina dictyoda* (Deflandre & Fert) Wilcoxon n. comb., = *Discolithus dictyodus* Deflandre & Fert, 1954, *Ann. Paléont.*, v. 40, p. 140, text-figs. 15, 16.
- Cyclococolithina elata* (Kamptner) Wilcoxon n. comb., = *Cyclococolithus elatus* Kamptner, 1956, *Anz. Österr. Akad. Wiss., Math.-Naturw. Kl.*, v. 93, p. 10.
- Cyclococolithina formosa* (Kamptner) Wilcoxon n. comb., = *Cyclococolithus formosus* Kamptner, 1963, *Ann. Naturh. Mus. Wien*, v. 66, p. 163, pl. 2, fig. 8, text-fig. 20.
- Cyclococolithina fragilis* (Lohmann) Wilcoxon n. comb., = *Coccolithophora fragilis* Lohmann, 1912, *Veröff. Inst. Meeresk. Univ. Berlin, N.F., Geogr.-Naturw. Reihe*, v. 1, pp. 49, 54, text-fig. 11.
- Cyclococolithina gammation* (Bramlette & Sullivan) Wilcoxon n. comb., = *Coccolithites gammation* Bramlette & Sullivan, 1961, *Micropaleontology*, v. 7, p. 152, pl. 7, figs. 7a-c, 14a, b.
- Cyclococolithina humilis* (Kamptner) Wilcoxon n. comb., = *Cyclocolithus humilis* Kamptner, 1956, *Anz. Österr. Akad. Wiss., Math.-Naturw. Kl.*, v. 93, p. 9.
- Cyclococolithina inversa* (Deflandre) Wilcoxon n. comb., = *Cyclococolithus leptoporus* var. *inversus* Deflandre in Deflandre & Fert, 1954, *Ann. Paléont.*, v. 40, p. 150, pl. 9, figs. 4-7.
- Cyclococolithina leptopora* (Murray & Blackman) Wilcoxon n. comb., = *Coccosphaera leptopora* Murray & Blackman, 1898, *Philos. Trans. Roy. Soc. London* 190 B, pp. 430, 439, pl. 15, figs. 1-7.
- Cyclococolithina luminis* (Sullivan) Wilcoxon n. comb., = *Cyclococolithus luminis* Sullivan, 1965, *Univ. Calif. Publ. Geol. Sc.* 53, p. 33, pl. 3, figs. 9a, b.
- Cyclococolithina lusitanica* (Black) Wilcoxon n. comb., = *Coccolithus lusitanicus* Black, 1964, *Palaeontology*, v. 7, p. 308, pl. 50, figs. 1, 2.
- Cyclococolithina margaritae* (Roth & Hay) Wilcoxon n. comb., = *Cyclococolithus margaritae* Roth & Hay in Hay, Mohler, Roth, Schmidt & Boudreaux, 1967, *Trans. Gulf Coast Assoc. Geol. Soc.*, v. 17, p. 446, pl. 6, fig. 9.
- Cyclococolithina minuta* (Kamptner) Wilcoxon n. comb., = *Cyclococolithus minutus* Kamptner, 1963, *Ann. Naturh. Mus. Wien*, v. 66, p. 165, text-fig. 22.
- Cyclococolithina multistriata* (Kamptner) Wilcoxon n. comb., = *Cyclococolithus multistriatus* Kamptner, 1963, *Ann. Naturh. Mus. Wien*, v. 66, p. 165, text-fig. 23.

- Cyclococcolithina neogammation* (Bramlette & Wilcoxon) Wilcoxon n. comb., = *Cyclococcolithus neogammation* Bramlette & Wilcoxon, 1967, Tulane Stud. Geol., v. 5, p. 104, pl. 1, figs. 1-3; pl. 4, figs. 3-5.
- Cyclococcolithina orbis* (Gartner & Smith) Wilcoxon n. comb., = *Cyclococcolithus orbis* Gartner & Smith, 1967, Univ. Kansas Paleont. Contr., Paper 20, p. 4, pl. 4, figs. 1-3.
- Cyclococcolithina pertusa* (Sullivan) Wilcoxon n. comb., = *Coccolithus pertusus* Sullivan, 1965, Univ. Calif. Publ. Sc. 53, p. 32, pl. 3, figs. 5a, b, 6a, b.
- Cyclococcolithina pirocena* (Kamptner) Wilcoxon n. comb., = *Cyclococcolithus pirocenus* Kamptner, 1967, Ann. Naturhist. Mus. Wien, v. 71, p. 129, pl. 4, fig. 25.
- Cyclococcolithina reticulata* (Gartner & Smith) Wilcoxon n. comb., = *Cyclococcolithus reticulatus* Gartner & Smith, 1967, Univ. Kansas Paleont. Contr., Paper 20, p. 4, pl. 5, figs. 1-4.
- Cyclococcolithina rotula* (Kamptner) Wilcoxon n. comb., = *Cyclococcolithus rotula* Kamptner, 1956, Anz. Österr. Akad. Wiss., Math.-Naturw. Kl., v. 93, p. 10.
- Cyclococcolithina spatiosa* (Kamptner) Wilcoxon n. comb., = *Cyclococcolithus spatiosus* Kamptner, 1963, Ann. Naturk. Mus. Wien, v. 66, p. 166, text-fig. 24.
- Cyclococcolithina waxahachia* (Bukry) Wilcoxon n. comb., = *Cyclococcolithus? waxahachia* Bukry, 1969, Univ. Kansas Paleont. Contr., Art. 51 (Protista 2), p. 30, pl. 9, fig. 10.

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## NOTES ON CANCELLARIIDAE (MOLLUSCA: GASTROPODA)—II

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This is the second of a series of papers dealing with various aspects of the gastropod family Cancellariidae (Volutacea). In this paper one new genus is described, together with two new species from the Tertiary of the southeastern United States and two new species of Recent Cancellariidae from the Galápagos Islands. In addition, new names are proposed for two previously described species, one from off the Cape of Good Hope, and the other from Kerguelen Island, southern Indian Ocean.

### OLSSONELLA Petit, n. gen.

Type, here designated: *Cancellaria smithii* Dall, 1888, Recent, Western Atlantic.

*Description*: Shell scalate, with corded varices, the outer lip arched, internally lirate; columella with two plications; shallow anterior notch; umbilicus may be present in varying degrees, differing even in the same species between juvenile and adult specimens; nepionic whorls smooth, polished, about 2½ in number, sutures very deep; aperture ovate-trigonal.

*Discussion*: Shells of this new genus would appear to be similar to figures in the literature of species of *Sveltella* Cossmann, 1889, of the Eocene of Europe, but actual compari-

son shows many differences, the primary distinction being the scalate form of *Olssonella*, its deeper sutures and the invariable presence of spiral cords.

The following species are considered to belong to *Olssonella*:

*Olssonella vokesae* Petit, n. sp. (Silverdale, North Carolina; early lower Miocene).

*Cancellaria desmotis* Gardner, 1937 (U. S. Geol. Surv. Prof. Paper 142-F, p. 373, pl. 45, fig. 5; Chipola Formation, Florida; late lower Miocene).

*Cancellaria bifoliata* Aldrich, 1903 (Nautilus, v. 16, p. 101, pl. 4, fig. 24; Oak Grove Sand, Florida; late lower Miocene).

*Cancellaria (Trigonostoma) sphenoidostoma* Gardner, 1937 (U. S. Geol. Surv. Prof. Paper 142-F, p. 376, pl. 45, figs. 11, 12; Shoal River Formation, Florida; middle Miocene).

undescribed species (Gatun Formation, Canal Zone; middle Miocene).

*Cancellaria scalatella* Guppy, 1873 (Proc. Sci. Assoc. Trinidad, v. 2, p. 78, pl. 2, fig. 4; Bowden Formation, Jamaica; upper Miocene).

*Trigonostoma thisbe* Olsson, 1964 (Neogene Moll. Northwestern Ecuador, p. 126, pl. 22, fig. 6; Esmeraldas Formation, Ecuador; Mio-Pliocene).

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