

7. *Argyrosphaera* Aubry et al. in Aubry & Bord (2009)

Type species: *Argyrosphaera tubicena* Stradner 1968

Etymology: From *argyris* (Gr. cup).

Description: Lopadoliths are of various morphologies. The basal plate is flat or weakly concave-convex. The margin is thick, often with straight sides; it flares distally and shows a stack pattern in light and electron microscopy.

Differences: The morphologic characters that differentiate lopadoliths of *Argyrosphaera* from those of *Scyphosphaera* are subtle. First, the basal plate is flat or weakly convex distally in *Argyrosphaera*. Second, the margin (the cylindrical part) is thicker in *Argyrosphaera*, and the thickness varies from the base to the top of the lopadolith. Change in focus in light microscopy reveals a stack pattern in the margin that is not seen in lopadoliths of *Scyphosphaera*.

Species: *Argyrosphaera biarritziensis* (Lezaud) Aubry, Liu, de Vargas, and Proberts 2008 (= *Scyphosphaera biarritziensis* Lezaud, 1968, p. 23, pl. 2, figs. 3, 4, 12). *Argyrosphaera columella* (Stradner) Aubry, Liu, de Vargas, and Proberts 2008 (= *Scyphosphaera columella* Stradner 1969, p. 416, pl. 88, figs. 1–4, text-fig. 2 [7–9]). *Argyrosphaera decedomurale* (Varol) Aubry, Liu, de Vargas, and Proberts 2008 (= *Scyphosphaera decedomurale* Varol, 1991, p. 227, 228, pl. 8, figs. 13–15). *Argyrosphaera expansa* (Bukry and Percival) Aubry, Liu, de Vargas, and Proberts 2008 (= *Scyphosphaera expansa* Bukry and Percival, 1971, p. 138, pl. 6, figs. 10–13). *Argyrosphaera olla* (Varol) Aubry, Liu, de Vargas, and Proberts 2008 (= *Scyphosphaera olla* Varol, 1989, p. 301, pl. 5, figs. 43, 44). *Argyrosphaera tercisensis* (Lezaud) Aubry, Liu, de Vargas, and Proberts 2008 (= *Scyphosphaera tercisensis* Lezaud, 1968, p. 23, pl. 2, figs. 1, 2, 11). *Argyrosphaera tubicena* (Stradner) Aubry, Liu, de Vargas, and Proberts 2008 (= *Scyphosphaera tubicena* Stradner 1968, p. 416, pl. 88, figs. 9–12, text-fig. 2). *Argyrosphaera* sp. 1 Aubry, Liu, de Vargas, and Proberts 2008 (= *Scyphosphaera apsteinii* Lohmann 1902 in Stradner 1969, pl. 89, figs. 1–3, text-fig. 2[1–6]). *Argyrosphaera* sp. 2 Aubry, Liu, de Vargas, and Proberts 2008 (= *Scyphosphaera columnella** Stradner 1969 in Watkins et al., 1995, pl. 5, fig. 16). *Argyrosphaera* sp. 3 Aubry, Liu, de Vargas, and Proberts 2008 (= *Scyphosphaera* cf. *Scyphosphaera galeana* Kamptner 1967 in Stradner 1969, p. 416, pl. 88, figs. 1–3). *Argyrosphaera* sp. 4 Aubry, Liu, de Vargas, and Proberts 2008 (= *Scyphosphaera tubicena* Stradner, 1969 in Watkins et al., 1995, pl. 6, fig. 23).

Aubry, M.-P., & Bord, D., 2009. Reshuffling the cards in the photic zone at the Eocene/Oligocene boundary. In Koeberl, C., & Montanari, A. (Eds.). The Late Eocene

Earth—Hothouse, Icehouse, and Impacts: *Geological Society of America Special Paper*,
452: 279–301.