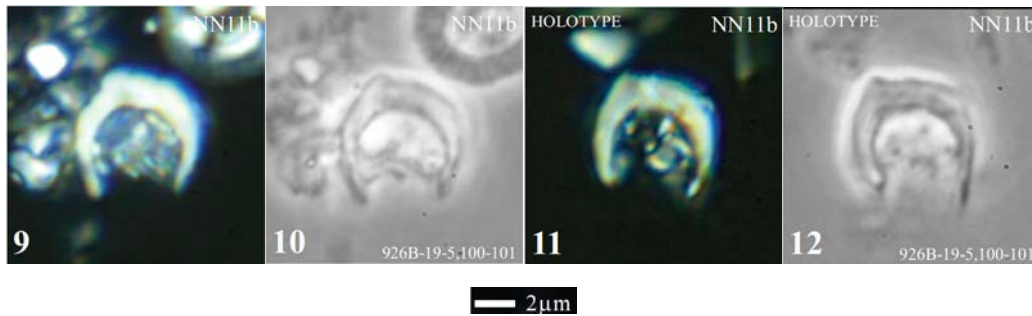


*Amaurolithus brevigracilis* Blair & Bergen in Blair et al. (2017)



Pl. 8, figs 9–12

1971 *Ceratolithus primus* Bukry & Percival (*pro parte*), p. 126, pl. 1, fig. 14, *non* pl. 1, figs. 12–13

1975 *Amaurolithus primus* (Bukry & Percival), Gartner & Bukry (*pro parte*), p. 457, fig. 7h, j; *non* fig. 7g, i–l

**Derivation of name:** *L. brevis*: short and *gracilis*: slender.

**Diagnosis:** equidimensional, horseshoe-shaped amaurolith with a narrow arch and horns.

**Description:** Simple, horseshoe-shaped amaurolith. Specimens are roughly equidimensional. The arch is narrow and rounded. The horns are thin and pointed. A short apical spur may be present. Specimens are not birefringent in cross-polarized light. Specimens measured and two illustrated herein have: (1) height to width ratios of 1.00–1.07; (2) arch breadth to specimen height ratios of 0.25–0.28; and (3) a size range of 5.4–9.0µm.

**Remarks:** *Amaurolithus brevigracilis* is a short form of *A. delicatus*, which is more elongate. *Amaurolithus primus* has a very broad arch. *Amaurolithus tricorniculatus* has an apical spine.

**Holotype:** Pl. 8, figs 11–12.

**Type Locality:** ODP Leg 154, Ceará Rise (western equatorial Atlantic).

**Type Level:** Sample 926B-19-5, 100cm; Upper Miocene (NN11b).

**Occurrence:** In the historical BP GoM, the stratigraphic range of *A. brevigracilis* had been included within that of the longer ranging *A. delicatus*; however, their disparate ranges make it a biostratigraphically-useful morphologic split. In Leg 154, it ranges from the uppermost Miocene (base NN11b) to Lower Pliocene (NN14), where it is dated from 7.347Ma (+/-0.027; 926A-20H-2, 64–65cm) to 4.644Ma (+/-0.020; 926B-14H-5, 120–121cm).

Blair, S., Bergen, J., de Kaenel, E., Browning, E. & Boesiger, T., 2017. Upper Miocene-Lower Pliocene taxonomy and stratigraphy in the circum North Atlantic Basin: radiation and

extinction of Amauroliths, Ceratoliths and the *D. quinquaramus* lineage. *Journal of Nannoplankton Research*, **37(2-3)**: 113–144.