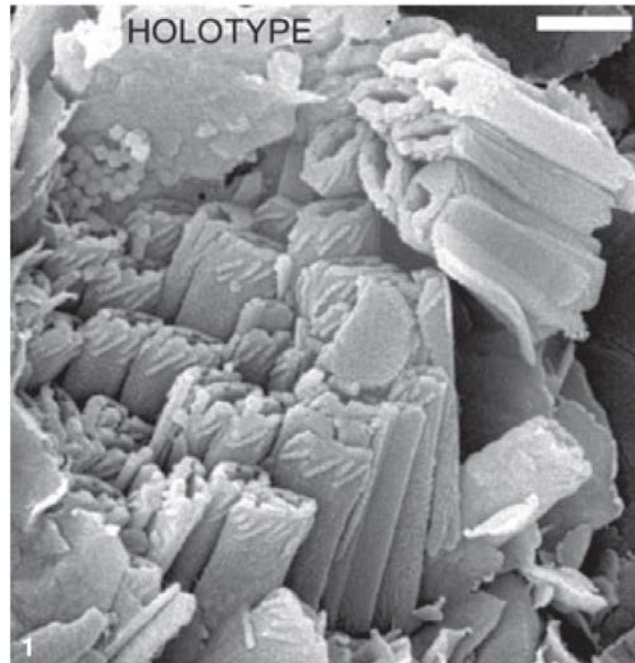


45. *Gladiolithus ornatus* Bown et al. (2009)



Pl. 2, fig. 1

Derivation of name: Latin *ornatus*, meaning ornament, referring to the external striae on the tube-coccoliths.

Holotype: Plate 2, figure 1. Collapsed coccosphere.

Type locality and horizon: TDP Site 16B, Pande, southern Tanzania, Sample TDP16/12-2, 9 cm, Upper Paleocene (Nannofossil Zone NP9).

Diagnosis: *Gladiolithus* with short tube-coccoliths (length/width ratio c. 3.6) that have a zone of oblique external striate ornament at the base.

Dimensions: Tube-coccolith length 1.7–2.7 μm ; width 0.2–0.9 μm .

Description: A single articulated coccosphere (Pl. 2, fig. 1) has been observed comprising 26 tube-coccoliths and several basal elements. The complete coccosphere was at least 6.5 μm across. The tube-coccoliths are weakly flaring with blunt distal termination and are closed at the base by simple plates. The striae are around 0.4 μm in length and orientated at 40–50° to the base of the tube-coccolith. The extant *Gladiolithus striatus* also has external striate ornamentation, but it is transversely orientated, perpendicular to the long axis of the elongate elements and present over the entire external surface of tube-coccoliths and lepidoliths (Hagino and Okada 1998).

Occurrence: Upper Paleocene (Nannofossil Zone NP9), Site TDP16B, Pande, southern Tanzania.

Bown, P.R., T. Dunkley Jones, T., Young, J. R. & Randell, R., 2009. A Palaeogene Record of Extant Lower Photic Zone Calcareous Nannoplankton. *Palaeontology*, **52(2)**: 457–469.