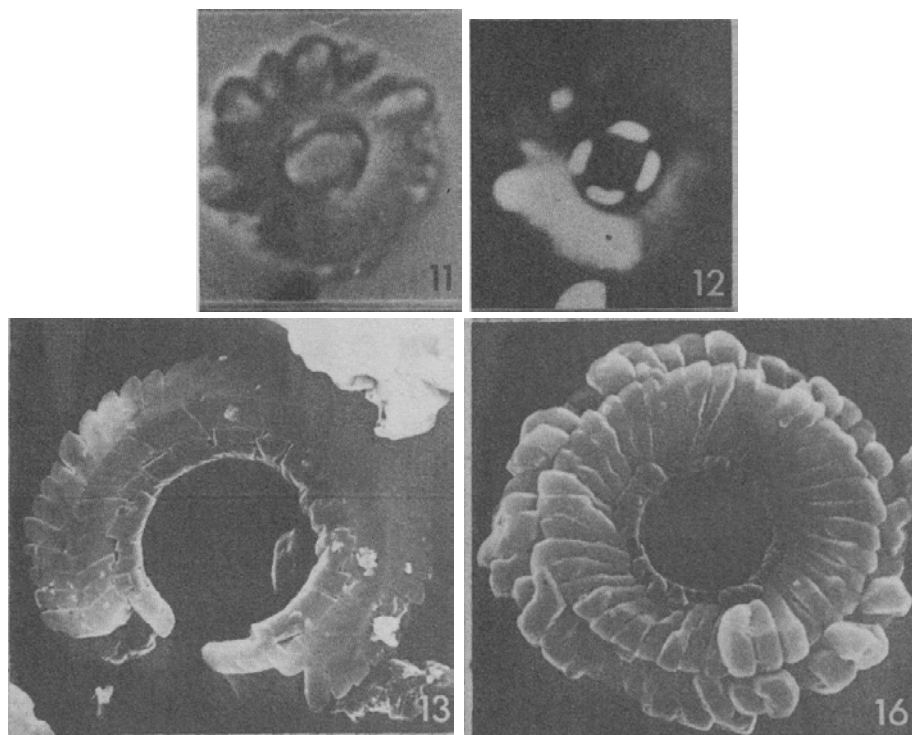


57. *Markalius apertus* Perch-Nielsen (1979)



Pl. 3, figs 11-13, 16

Figs. 11, 12. *Markalius apertus* n. sp., LM 3200x, parallel & crossed nicols, 85F.

Fig. 13. *Markalius apertus* n. sp., 4500x, distal view of broken specimen, late form, 170/2.

**Holotype:** Pl. 3, Fig. 16.

**Type level:** Danian.

**Type locality:** Stevns Klint, Denmark.

**Diagnosis:** *Markalius* with an open centre.

**Description:** The distal shield is larger than the proximal shield and they consist of an equal number of elements. The large or small central opening is surrounded by a cycle of elements visible from both sides.

**Remarks:** *M. apertus* differs from *M. inversus* in the absence of radial elements covering the centre. Structurally, the radial elements covering the centre in *M. inversus* correspond with the circle of elements surrounding the centre in *M. apertus*. This is also easily visible in the LM, where they appear bright between crossed nicols (Pl. 3, Figs 10, 12).

**Occurrence:** *M. apertus* was found in the Danian and Selandian of Denmark from the upper part of the basal Danian D1 zone.

Perch-Nielsen, K., 1979. Calcareous nannofossil zonation at the Cretaceous/Tertiary boundary in Denmark. In: Birkelund, T. and Bromley, R.G. (eds). Proceedings

Cretaceous-Tertiary Boundary Events Symposium, Copenhagen, 1, Copenhagen, pp. 115-135.