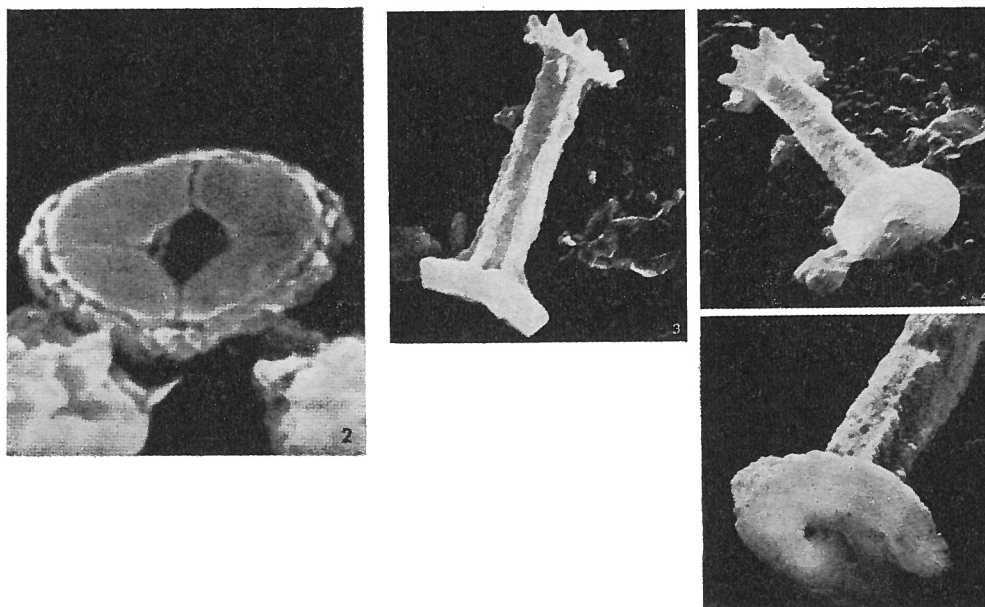


Lucianorhabdus quadrifidus FORCHHEIMER, 1972



Figs. 2-4, 6 — *Lucianorhabdus quadrifidus* n. sp. 2) 0°, proximal view, basal shield, Köpingsberg 1, Cenomanian, Coll. no.: S Kp 496 72a/1, x 6,700; 3) 0°/0, side view, Köpingsberg 1, Albian, Coll. no.: S Kp 334 76a/2, x 2,700; 4) 45°/39, side view. The same specimen as in fig. 3. Coll. no.: S Kp 334 76a/4; x 2,700; 6) 45°, side view, Köpingsberg 1, Albian, Coll. no.: S Kp 94 7a/7, x 2,700.

Description:

Diagnosis: A species of *Lucianorhabdus* with a massive central process terminating in a crown consisting of triangular elements. Four large elements form the central area of the basal shield leaving a rhombic opening at the centre.

Description: The central process is provided with four ridges and has a coarse granulate surface. The basal shield is composed of cycle of imbricate elements surrounding the central area in proximal view.

Dimensions: Central process: average length 11.7 μ ; average width 2.8 μ . Basal shield: average length 7 μ ; average width 5.8 μ .

Remarks:

Lucianorhabdus quadrifidus n. sp. occurs often with basal shield and central process separated. The complete specimens with the crown at the top are rare. *Eurhabdus luciformis* REINHARDT, 1965 (p. 39, pl. 2, fig. 5) is illustrated in side view. Since no crown is reported and no information is given on the structure of the basal shield, the specimens from Köpingsberg 1 cannot be compared to the form described by Reinhardt.

Type level:

Albian.

Occurrence: Köpingsberg Borehole No. 1: Aptian - Cenomanian.

Type locality:

Köpingsberg Borehole No. 1, 904.72 m, Sweden.

Depository:

Museum of the Geological Survey of Sweden, Stockholm.

Holotype: specimen No. S Kp 334 76a/2; paratype: specimen No. S Kp 94 7a/7.

Author:

Forchheimer S., 1972, p. 70; pl. 9, fig. 2; pl. 10, figs. 3, 4, 6.

Reference:

Scanning electron microscope studies of Cretaceous Coccoliths from the Köpingsberg borehole n° 1, SE Sweden. Sver. Geol. Undersök. Ser. C, n° 688, Arsb. 65, n° 14, pp. 1-141, pls. 1-27, text figs. 1-12.