

VALIDATION OF HOMOZYGOSPHAERA HALLDALII

by K.R. Gaarder

Miss S.E. van Heck has pointed out (INA Newsletter vol.3(2), p.85, 1981) that Homozygosphaera halldalii GAARDER (in: Heimdal & Gaarder 1980) should be treated as a new species. It is hereby reintroduced with an emended diagnosis in English and Latin.

Homozygosphaera halldalii GAARDER n. sp.

SYNONYMS: Zygosphaera wettsteinii KAMPTNER in part, excluding the type, 1941, pl.10, fig. 104 a,b, Homozygosphaera wettsteinii sensu Halldal & Markali 1955, p.9, pl.5.

DIAGNOSIS emend. GAARDER

Cell ellipsoidal, diameter 11.0-18.5 μ m, with two flagella, short haptonema and characteristic organic scales.

Coccoliths zygoloths, built of rhombohedric crystals, length 1.9-3.0 μ m, length/breadth ratio 1.3-1.6, total height 1.0-1.4 μ m, proximal tube 6-8 crystal rings high, roof slightly vaulted with elevated ridge along long axis, highest in center, and connected with peripheral part by 4-7 arches of varying breadth. Ridge in coccoliths surrounding flagellar area sometimes higher than usual.

HOLOTYPE: Negative CIR, 235A (pl.5, fig.2 in Halldal & Markali 1955).

TYPE LOCALITY: Capri, Mediterranean.

Cella ellipsoidea, diametro 11.0-18.5 μ m, flagellis duobus, haptonema brevi, squamis characteristicis organicis obtecta.

Coccolithi zygolothi, crystallis rhombohedricis constructi, longitudine 1.9-3.0 μ m, longitudine:latitudine 1.3-1.6, altitudine summa 1.0-1.4 μ m; tubus proximalis 6-8 anulis crystallicis altis, tecto leviter convexo crista secundum axim longam elevata, centro altissimo, cum parte peripherali arcis 4-7 varie latitudine connecto. Crista coccolithorum circum aream flagellarem interdum altior quam solet.

HABITAT TYPI : Capreae, Mare medium.

References

Halldal,P. & J. Markali (1955): Electron microscope studies on coccolithophorids from the Norwegian Sea, the Gulf Stream and the Mediterranean. -Avh. norske Vidensk. Akad. I. Mat.-Nat. Kl. 1955, 1: 1-30.

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Kamptner,E. (1941): Die Coccolithineen der Südwestküste von Istrien. - Ann. Naturhist. Mus. Wien, 51: 54-149.