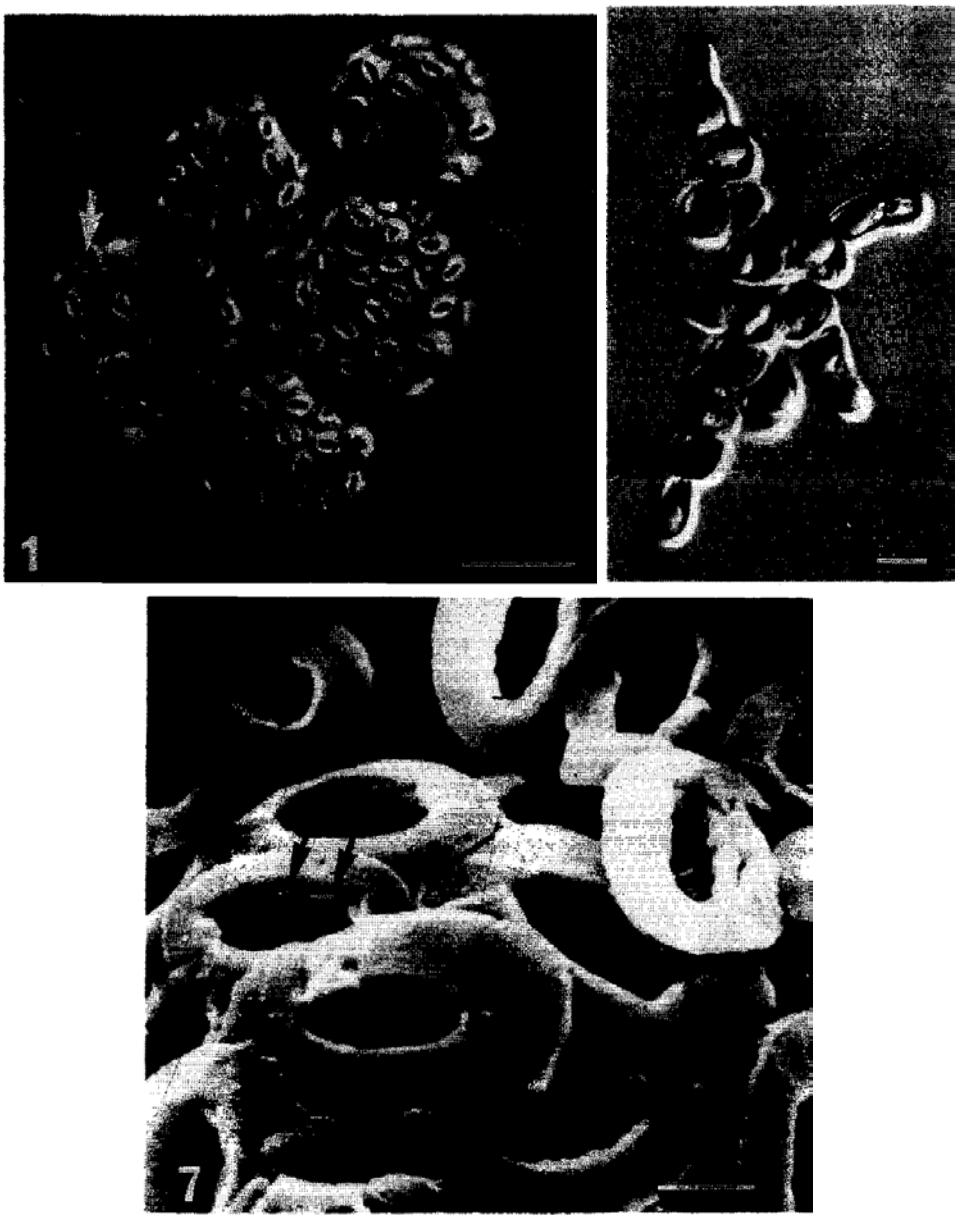
72. Pleurochrysis placolithoides Fresnel & Billard (1991)



Figs 1, 4, 7

Pleurochrysis placolithoides. Figs 1, 4. Living cells examined with interference optics. Scale bar = 10 μm.

Fig. 1. Surface view of coccospheres; the short bulbous haptonema of a motile cell is visible (arrow).

Fig. 4. Pseudofilamentous benthic stage.

Fig. 7. Scanning electron microscopy. Scale bar = 1 μm. Part of a coccosphere demonstrating heterogeneity in size of the cricoliths; rectangular elements are visible inside the oval opening of some coccoliths (arrows).

Generatio planctonica: cellulae globosae raro ovatae 13 μm diametro sine coccosphaera et 15 μm cure coccosphaera. Duo inaequalia flagella 28 μm et 20 μm longa haptonemaque brevissimum. Cricolithi, statura variabili, 2-4 μm longitudine, 1.5-3 μm latitudine, aspectu distali, 0.45-0.75 μm altitudine; clipeum distale convexum, 0.5-1-2 μm latitudine,

cum 11 vel 12 calcareis levibus paulum imbricantibus elementis compositum; clipeum proximale, parvius, inornatum, margine indentato. Latus interius cricolithi cure fibulis rectangulis.

Generatio sedentaria: pseudofilamentosa cum 13-20 x 9-13 μm magnitudine cellulis.

Holotypus: figurae nostrae 1, 7, 4.

Planktonic generation: cells spherical in shape, rarely oval, measuring 13 μm in diameter without the coccosphere and 15 μm with it. Two anisokont flagella, 28 μm and 20 μm in length with a very short haptonema. Cricoliths variable in size, 2-4 μm long and 1.5-3 μm wide in distal view and from 0.45 to 0.75 μm in height; distal disc convex, 0.5-1.2 μm wide, made of 11-12 smooth calcified elements, slightly overlapping; proximal disc narrower in outline, without ornamentations. Rectangular brooches present along the inside wall of the cricolith.

Benthic generation: pseudofilamentous with cells 13-20 μm x 9-13 μm.

Holotype: Figs 1, 7, 4.

Type locality: Port Maria, Belle-Ile-en-Mer (Morbihan), Atlantic coast of France; supra-littoral cliff.

Fresnel, J. & Billard, C., 1991. *Pleurochrysis placolithoides* sp. nov. (Prymnesiophyceae), a new marine coccolithophorid with remarks on the status of Cricolith-bearing species. *British Phycological Journal*, **26(1):** 67-80.