

Pontosphaera borealis OSTENFELD, 1911

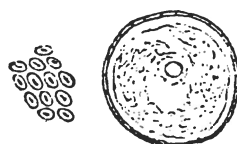


Fig. 11 — *Pontosphaera borealis* n. sp. 800 t. m.

Description:

Cellulae solitariae globosae, 17-22 μ ; coccolithi elliptici, 3-4 μ longi, plani vel leviter concavi, omnes similes; flagella et chromatophori in spec. preservatis non distincti; nucleus adest.

Remarks:

In seven samples (three from 1908 and four from 1906) from the outer part of the pack-ice and outside it (i. e. not W. of 11° W. Long) I found an interesting organism, viz.: a species of the genus *Pontosphaera*. As mentioned above the occurrence of *Coccolithophoridae* in arctic water was a new thing, but the *Coccolithophora* present was dead. It is another matter with the *Pontosphaera*, as its plasma showed that the cells most probably were living when caught. It is then the first record of a species of *Coccolithophoridae* living in arctic water. The species found must be referred to the genus *Pontosphaera*, as it is understood by H. LOHMANN, but I can not identify it with the species hitherto described. The cells are mostly globose, rarely of a more oblong form, the coccoliths are plane or slightly concave, all of the same shape, elliptic and lying closely together, covering the whole surface of the cell. As only preserved material was examined no flagella were found, and it was not possible to discover chromatophores, whereas a nucleus was seen. By using acids the coccoliths disappeared immediately. The new species resembles *P. inermis* LOHM., but has not the distinct naked pole ("Geisselpol") for the flagella. July-August.

In most of the samples it occurred together with *Cocc. pelagica*, but it did not occur in greater quantities, perhaps because it is so small that it is only in a small part caught by the nets.

Type level:

Recent.

Type locality:

From the outer part of the pack-ice and outside it (i. e. not W. of 11° W. Long.).

Depository:

Not given.

Author:

Ostenfeld C. H., 1911, p. 284, fig. 11.

Reference:

Marine Plankton from the East-Greenland Sea. Medd. Grønland, vol. 43, pp. 257-285, 11 figs.