

Papposphaera heldalii sp nov (Haptophyta, Papposphaeraceae) from Svalbard - DTU Orbit (08/11/2017)

Papposphaera heldalii sp nov (Haptophyta, Papposphaeraceae) from Svalbard

In an attempt to establish a taxonomy for the polar contingent of lightly calcified coccolithophores, we are currently dealing with species of *Papposphaera*. Here we describe a new species, *Papposphaera heldalii* sp. nov., based on material from Svalbard. The species is unique in terms of calyx design, which is an elegant modification of the standard *P. sagittifera* theme, and also in terms of the absence of central area calcification in body coccoliths. The species thus occupies a further step in a sequence of five Arctic forms ranging from *P. sagittifera* via *P. sarion*, *P. arctica* and *P. iugifera* to *P. heldalii* showing a gradual reduction of central area calcification in body coccoliths. *P. heldalii* is unique also in the sense that the species has not been found during any of the major Arctic TEM nanoplankton surveys conducted during the last decades.

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