

## FIRST RECORDS OF *PROTOPERIDINIUM LATICEPS* AND *P. THULESENSE* (DINOPHYTA: PERIDINIALES) IN THE EUROPEAN ARCTIC SEAS

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*Protoperidinium laticeps* (Grøntved et Seidenfaden 1938) Balech and *P. thulesense* (Balech) Balech were recorded for the first time in the Barents Sea. *P. laticeps* was found in the southwestern Barents Sea in June 2014 and 2019. Cells were observed from the surface to a depth of 300 m, with the maximum abundance (98 cells/l) in the uppermost 30 m. Cell measurements of *P. laticeps* were transdiameter 45–46 µm, total length 52–55 µm. The plate 1' is ortho; 5'' and 6'' plates are mostly fused into one. Plate formula: Po, X, 4', 2a, 6'' or 7'', ?c, ?s, 5''', 2'''. *P. thulesense* was found in the Barents and White seas, as well as in the southwestern Kara Sea. Cells were first observed in July 2005 in Onega Bay in the White Sea. The species inhabited the upper layers of the pelagic zone, with a maximum abundance of 40 cells/l. Cells varied widely in size: transdiameter 42–59 µm, total length 44–59 µm. Plate 1' is para, 2a is neutra or quadra; plate 3a can be split into two. Plate formula: Po, X, 3', 3a or 4a, 7'', ?c, ?s, 5''', 2''''.

**Keywords:** microalgae, phytoplankton, Dinoflagellata, *Protoperidinium laticeps*, *Protoperidinium thulesense*, Barents Sea

**DOI:** 10.31857/S0006813621040104

### ACKNOWLEDGEMENTS

The work was carried out within the framework of the state assignment No. 0228-2019-0003 of MMBI RAS.