

Pseudo-nitzschia arctica

Kingdom	Chromista
Phylum	Bacillariophyta
Class	Bacillariophyceae
Order	Bacillariales
Family	Bacillariaceae
Genus	Pseudo-nitzschia
Species	arctica
Authority	Percopo & Sarno

Description

Forms stepped chains. Two chloroplasts, one in each end, are seen in all cells. The cells are lanceolate in valve view, linear in girdle view. The valves have an eccentric raphe with a central nodule, parallel interstriae and almost twice as many interstriae than fibulae. One row of rounded poroids, and each poroid has 1-5 sectors. A cingulum with three bands.

Morphometrics

Morphometrics; Apical axis (heteropolar) 26-67 μm , transapical axis 1.6-2.5 μm , 17-24 fibulae and 33-39 interstriae in 10 μm . Poroid density 4-6 in 1 μm . First girdle band with 41-48 band striae in 10 μm , each being 1-3 poroids high and 2 poroids wide.

Is similar to several species in the pseudodelicatissima-complex, particularly *P. fryxelliana*. For correct identification detailed EM or molecular data are needed

Distribution

Has not been recorded outside the Arctic.

References

Percopo I, Ruggiero MV, Balzano S, Gourvil P, Lundholm N, Siano R, Tammilehto A, Vaulot D, Sarno D. 2016. *Pseudo-nitzschia arctica* sp. nov., a new cold-water cryptic *Pseudo-nitzschia* species within the *P. pseudodelicatissima* complex. Journal of Phycology, 152:184-199.