

Pseudo-nitzschia seriata

Kingdom	Chromista
Phylum	Bacillariophyta
Class	Bacillariophyceae
Order	Bacillariales
Family	Bacillariaceae
Genus	Pseudo-nitzschia
Species	seriata
Authority	(P.T. Cleve) H. Peragallo in H. & M. Peragallo, 1900
Description	

Forms stepped chains. Two chloroplasts, one in each end, are seen in the cells. The cells are lanceolate and slightly asymmetrical, with one straight and one convex side, in valve view. In girdle view they are lanceolate with pointed ends. The valves have an eccentric raphe and lack a central nodule, and approximately an equal number of striae and fibulae. Each stria has 2-4, usually 4, rows of poroids. Each cingulum has three bands.

Morphometrics

Apical axis (heteropolar) 91-180 μm , transapical axis 4.6-8.0 μm , 14-20 striae and fibulae in 10 μm , 6-8 poroids in 1 μm . First girdle band with 21-24 band striae in 10 μm , each being 2-3 poroids high and 4-6 poroids wide.

P. seriata can be confused with *P. obtusa*, but *P. obtusa* has shorter cells, is less pronounced asymmetrical in valve view, and has a narrower valve compared to *P. seriata*. *P. obtusa* has 2 rows of poroids in contrast to 2-4 rows in *P. seriata*. Finally, *P. obtusa* has a higher density of girdle band striae.

Distribution

In colder waters in northern temperate areas.

References

Hasle GR & Lundholm N. 2005. *Pseudo-nitzschia seriata* f. *obtusa* (Bacillariophyceae) raised in rank based on morphological, phylogenetic and distributional data. *Phycologia* 44:608-619.

Throndsen J. Hasle G.R. and Tangen K. 2007. *Phytoplankton of Norwegian coastal waters*. Almaten Forlag AS. 341 pp