

# ***Pseudo-nitzschia seriata***

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

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  $\mu\text{m}$ , transapical axis 4.6-8.0  $\mu\text{m}$ , 14-20 striae and fibulae in 10  $\mu\text{m}$ , 6-8 poroids in 1  $\mu\text{m}$ . First girdle band with 21-24 band striae in 10  $\mu\text{m}$ , 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