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| Operator | Luka Supraha |
| Objective | 40x |
| Type/Technique | Light microscopy |
| Fixative | None (live cell) |

Pseudo-nitzschia granii

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| Kingdom | Chromista |
| Phylum | Bacillariophyta |
| Class | Bacillariophyceae |
| Order | Bacillariales |
| Family | Bacillariaceae |
| Genus | Pseudo-nitzschia |
| Species | granii |
| Authority | (Hasle) Hasle, 1974 |

Description

Basionym: *Nitzschia granii* Hasle

Forms stepped chains and observed as single cells in *Phaeocystis* colonies. Two chloroplasts, one in each end, are seen in the cells. The cells are lanceolate to needle shaped with elongated cell ends in valve view, and are linear in girdle view. The middle part of the valve is almost three times as wide as closer to ends. The valves have an eccentric raphe and lack a central nodule, Almost 2.5 times more interstriae than fibulae. Each stria has one row of poroids, each poroid comprise several sectors. A cingulum with three bands.

Morphometrics

Apical axis (heteropolar) 25-79 µm, transapical axis 1.5-2.0 µm, 17-20 fibulae and 50 interstriae in 10 µm, 6-7 poroids in 1 µm.

P. granii can be confused with *P. subcurvata* and *P. galaxiae* as they are all narrow needle-like *Pseudo-nitzschia* taxa, but they have different biogeographical distributions.

Distribution

Norwegian Sea, Spitzbergen. Not observed with certainty outside the Arctic/Subarctic.

References

Hasle, G.R. 1964. *Nitzschia* and *Fragilariopsis* species studied in light and electron microscopes. I. Some species of the groups *Nietziella* and *Lanceolatae*. Skrifter Utgitt av Det Norske Videnskaps-Akademi I Oslo I. Mat.-Naturv. Klasse. Ny Serie. No 16.48 pp.

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

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