

Diatom Flora of the Low Countries

***Navicula phylleptosoma* H. Lange-Bertalot in H. Lange-Bertalot et S.I. Genkal 1999.**

Synonym: *Navicula phyllepta* auct. partim non Kützing.

Morphology

Valves strictly lanceolate with moderately acute to slightly obtusely rounded ends, occasionally appearing acutely protracted. Raphe straight, filiform with distinct, fairly to very close central pores. Axial area very narrow, barely widening towards the middle. Central area variable in extent and outline, usually almost circular and of average size. Striae radiate, parallel to slightly convergent close to the ends. Lineolae not visible in LM.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data (n=6)	13.8-16.2	4.8-5.1	19-21	
Lange-Bertalot & Genkal 1999	15-26	4.7-6.6	17-20	40-45
Witkowski et al. 2000	15-26	4.7-6.6	17-20	40-45

Related species

Navicula phyllepta Kützing sensu stricto (Longer 25-46 µm, wider 6.6-8.5 µm, central pores less close, less striae 14-15 in 10 µm).

Distribution

Gemaal Glerum, Goese Polder, Afrikahaven, Sloot Texel, Kievitstocht, Brielse Meer, Oostvoornse Meer, Gemaal Kilhaven, Kuipersveer Oude Maas, Gouderak Noord Hollandse IJssel, Poldersloot Steenweg, Puttershoek, Gemaal N-Kraaijer, Watergang Havelozeweg, Gemaal Wittebrug, Gemaal Polder Herkingen (NL); Oostends Kreekengebied, Lossing, Kanaal Dessing-Schoten (B).

Ecology

Occurs in electrolyte rich, brackish habitats and saline effluents.

Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
5	4				5	

IPS
(Cemagref 1982)

IPS-S	IPS-V

Rott et al. 1997, 1999

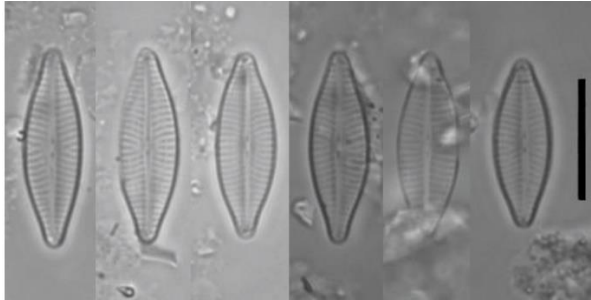
Rott SI s	Rott SI v	Rott TI s	Rott TI v

TDI
(Kelly & Whitton 1995)

TI-S	TI-V

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Remarks



The Netherlands

References:

- Lange-Bertalot, H. & S.I. Genkal (1999) Diatomeen aus Siberien I. Iconographia Diatomologica 6.
- Lange-Bertalot, H. (2001): *Navicula sensu stricto*. Diatoms of Europe 2. Gantner Verlag Ruggell. 526p.
- Witkowski, A., H. Lange-Bertalot & D. Metzeltin (2000) Diatom Flora of Marine Coasts 1. Iconographia Diatomologica 7.

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