

Diatom Flora of the Low Countries

***Nitzschia sociabilis* F. Hustedt 1957.**

Synonym: *Nitzschia subtubicola* Germain 1981.

Morphology

Valves remarkably constant lanceolate with very short protracted, acutely rounded ends. Striae not resolvable, fibulae regularly or irregularly, the central ones equidistant.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Fibulae (in 10 µm)
Own data (n=9)	24-48	3.3-4	-	9-12
Lange-Bertalot et al. 2017	20-60	3-5	-	9-12
Krammer & Lange-Bertalot 1997-2004	20-60	3-5	-	9-12

Related species

Nitzschia dissipata (Kützing) Grunow (raphe keel moderately- to strongly displaced towards the median part of the valve); *Nitzschia dissipata* var. *media* (Hantzsch) Grunow (linear valve outline).

Distribution

Kampen, Grave beneden de Sluis, Keizersveer Bergsche Maas, Eijsden Boven Maas, Poederrijen afgedamde Maas, Lobith ponton, Hagestein boven sluis, Sliedrechtse Biesbosch, Kuipersveer Oude Maas, Gouderak Noord, Sloot en Tocht Groendalseweg, Tocht bij Botedorpseweg, Koornmolengat R'dam, Hollandse IJssel, Nieuwkoopse Plassen, Merwedekanaal, Gemaal Galathee aan Mariaweg, Uitlaatwatergang polder Biert, Oude Stadse Zeedijk Haringvliet, Noord-Kethelpolder, Boezem Schie, Tholen, Haven van Middelharnis, Gemaal door het Oudeland Oost-Tonge, Schutsluis te Hellevoetsluis, Sandee, Gemaal aan de Schuddebeursedijk te Hekelingen, Gemaal de Krammerse Polders, Lemstervaart, 't Weerwater, Prins Karelpolder, Ankeveense Plassen, Kagerplas, Stadswateren Amsterdam, Kromme Rijn, Hollandse IJssel (NL); Albertkanaal, Dender, Ringvaart, Demer, Stampotkreek, Leie (B).

Ecology

Populations thrive in mucilage tubes most of the time. Occurs in large rivers with medium to high electrolyte contents, but also in different other eu- to polytrophic freshwater habitat types. Tolerates pollution loads at most up to β - α mesosaprobic level.

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Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
3	2	2	2	2	5	1

IPS
(Cemagref 1982)

IPS-S	IPS-V
3	3

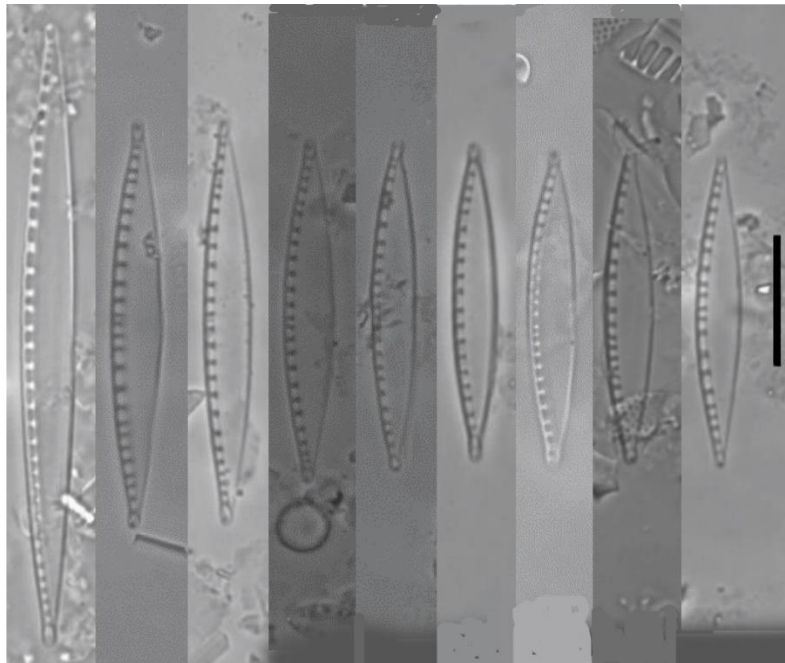
Rott et al. 1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v
2.1	4	2.8	1

TDI
(Kelly & Whitton 1995)

TI-S	TI-V
4	1

Remarks



The Netherlands

References:

Krammer, K. & H. Lange-Bertalot (1997-2004) Bacillariophyceae. Süßwasserflora von Mitteleuropa 2/1-4.

Lange-Bertalot, H., G. Hofmann, M. Werum & M. Cantonati (2017) Freshwater Benthic Diatoms of Central Europe.

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