

Diatom Flora of the Low Countries

Nitzschia dissipata (F.T. Kützing) A. Grunow 1862.

Morphology

Valves lanceolate with protracted to shortly rostrate but never capitate ends. Raphe keel moderately- to strongly displaced towards the median part of the valve. Fibulae irregularly placed, usually more densely spaced towards the ends. Central fibulae equidistantly spaced. Striae visible in LM with oblique lightning.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Fibulae (in 10 µm)
Own data (n=16)	15.9-27.5	3.1-5.0	-	7-11
Lange-Bertalot et al. 2017	12.5-85	3.5-5.0	39-50	5-11
Krammer & Lange-Bertalot 1997-2004	12.5-85	(3)3.5-7(8)	(32?)39-50	5-11

Related species

Nitzschia dissipata var. *media* (Hantzsch) Grunow (linear valve outline, lower width, raphe keel running closer to the margin); *Nitzschia dissipata* ssp. *oligotraphenta* Lange-B. (narrower valves 3-4 µm, distinctly capitate ends, different ecology); *Nitzschia recta* Hantzsch (larger, wider 5-7 µm, marginal raphe keel).

Distribution

Van Harinxmakanaal, Eeltsjemar diepe put, Altjeltil, Kuipersveer Oude Maas, Gouderak Noord Hollandse IJssel, Haringvliet-Oost, Sliedrechtse Biesbosch, Brielse Meer, Zwanengat, Wilhelminakanaal, Hagestein boven sluis, Poederoijen Afgedamde Maas, Lobith ponton, Twellose Beek, Dieze, Peelse Loop, Grave beneden de sluis, Keizersveer Bergsche Maas, Brabantse Biesbosch, Stevensweert aanlegsteiger, Eijsden Boven Maas, Belfeld Zandmaas (NL); Grote Nete, Itterbeek, Zuid-Willemsvaart, Albertkanaal, Dender, Leie, Kanaal Brussel-Schelde, Kanaal Dessel-Kwaadmechelen, Kanaal Bocholt-Herentals, Lokanaal, Kanaal Ieper-IJzer, Abeek, Gentse Binnenwateren, Ringvaart, Kanaal Charleroi-Brussel, Blankenbergse vaart, Ortheemse Kreek (B).

Ecology

Occurs in streams, rivers and standing freshwater habitats with medium to high trophic levels.

Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
4	2	2	2	3	4	3

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IPS
(Cemagref 1982)

IPS-S	IPS-V
4	3

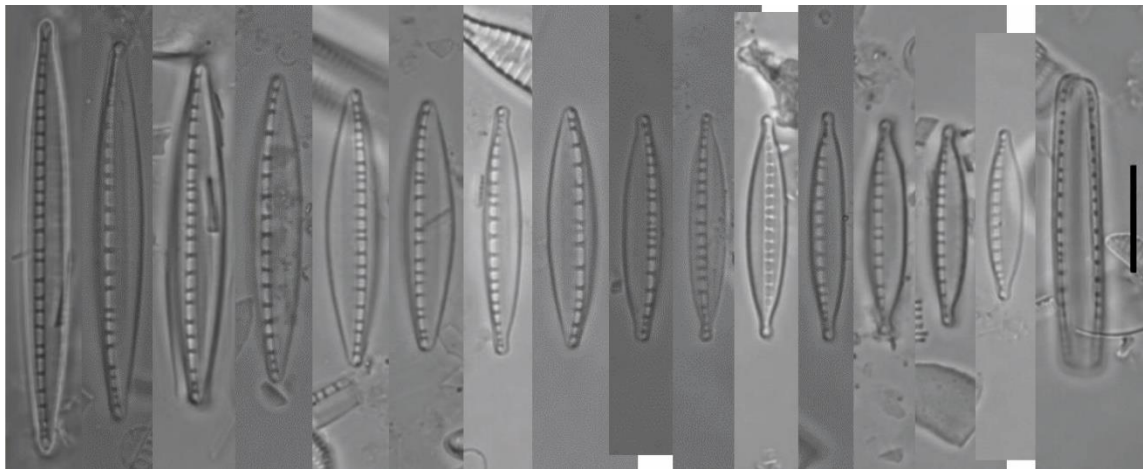
Rott et al. 1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v
2	3	2.4	2

TDI
(Kelly & Whitton 1995)

TI-S	TI-V
5	2

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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