

Diatom Flora of the Low Countries

Nitzschia soratensis E.A. Morales et M.L. Vis 2007.

Synonym: *Nitzschia abbreviata* Hustedt 1924.

Morphology

Valves elliptical-lanceolate to elliptical, in longer valves linear-lanceolate to lanceolate. Ends very slightly protracted broadly rounded or not protracted at all, never wedge-shaped tapering. Fibulae with an extended base at the valve face interior "torn notebook", distinct gap in central fibulae. Areolae just visible in larger specimens.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Fibulae (in 10 µm)
Own data (n=9)	4.9-15	2.6-3.0	28-30	10-14
Lange-Bertalot et al. 2017	5.6-15.6	2.4-3.2	27.5-30	8-13
Morales & Vis 2007	5.6-15.6	2.4-3.2	27.5-30	10-12.5
Trobajo et al. 2013	4.7-13.7	2.3-3.3	27.5-30.7	7.0-15.0

Related species

Nitzschia inconspicua Grunow (more acute poles, fibulae small and rectangular.

Nitzschia frustulum (Kütz.) Grun. (wider valves >3 µm, higher fibulae density 13-15 in 10 µm).

Distribution

De Deelen 8, Hagestein boven sluis, Beekbergerwoud, Gouderak Noord, Sliedrechtse Biesbosch, Kasteel van Rhooen, Noordpolderse kade-Spuiweg, Eijsden Boven Maas, Roer Bonnerskoel (NL); Kanaal Kortrijk Bossuit, Kleine Nete, Grote Vijver Mechelen, Leie (B).

Ecology

Strictly freshwater species, preferring slightly eutrophic to eutrophic, alkaline waters.

Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
4	2	2	2	2	5	

IPS

(Cemagref 1982)

IPS-S	IPS-V
3	1

Rott et al. 1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v
2.2	4	3.1	1

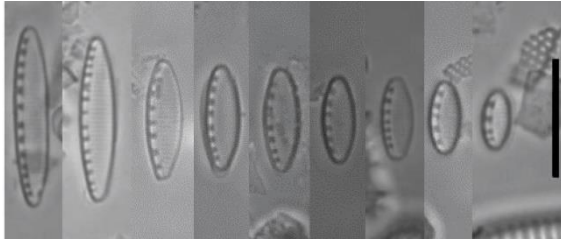
TDI

(Kelly & Whitton 1995)

TI-S	TI-V
5	1

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Remarks



The Netherlands

References:

- Lange-Bertalot, H., G. Hofmann, M. Werum & M. Cantonati (2017) Freshwater Benthic Diatoms of Central Europe.
- Morales E.A. & Vis M.L. 2007. Epilithic diatoms (Bacillariophyceae) from cloud forest and alpine streams in Bolivia, South America.
- Trobajo, R., L. Rovira, L. Ector, C.E. Wetzel, M. Kelly et D.G. Mann (2013) Morphology and identity of some ecologically important small *Nitzschia* species.

Citation:

Mertens A. (2023) *Nitzschia soratensis*. In Diatom Flora of the Low Countries. NVKD. Retrieved from <http://www.nvkd-diatom.nl/species>