

# Diatom Flora of the Low Countries

## *Nitzschia solgensis* A. Cleve-Euler 1952.

**Synonyms:** *Nitzschia sinuata* var. *delognei* (Grunow) Lange-Bertalot 1980; *Nitzschia interrupta* (H. Reichelt in O. Kuntze) F. Hustedt 1927; *Nitzschia denticula* var. *delognei* A. Grunow in H.F. van Heurck 1881

### Morphology

Valve lanceolate with slightly drawn out to subcapitate. Fibulae irregularly, not wider spaced in the middle, reaching to about the median line of the valve and there widened or root-like branched, merging in one or more transapical ribs. Striae coarsely punctate.

### Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Fibulae (in 10 µm)
Own data (n=3)	18-23	3.8	25	7-8
Lange-Bertalot et al. 2017	10-30	2.5-4	18-25	5-8

### Related species

*Nitzschia tabellaria* Grunow (valve longer, bilateral strong bellied inflations in the center); *Nitzschia sinuata* (W. Smith) Grunow (valve with triundulate outline).

### Distribution

Keenehaven Klundert, Bleekloop, Strijper Aa-gebied, oude meander Oude Maas, Stevensweert aanlegsteiger, Meerkoetentocht Flevoland, De Leek Drenthe, Paddenpoel Voorne (NL). Cut-off meanders of the river Rhine; quarry ponds; reservoirs (D).

### Ecology

Different freshwater habitats, artificial still waters with medium to moderately high trophic levels. Tolerating pollution loads up to the  $\beta$ - $\alpha$ -mesosaprobic level.

### Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
4	2	1	1	3	4	4

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
1.8	2	2.3	2

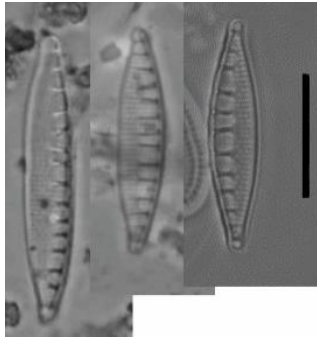
TDI  
(Kelly & Whitton 1995)

TI-S	TI-V
4	1

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### Remarks



The Netherlands

### References:

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

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

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