

# Diatom Flora of the Low Countries

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## ***Nitzschia filiformis* var. *conferta* (P.G. Richter) H. Lange-Bertalot 1987.**

**Synonym:** *Homoeocladia conferta* Richter 1879; *Nitzschia conferta* (Richter) M. Peragallo 1903; *Nitzschia accedens* Hustedt 1939

### **Morphology**

Valves linear-lanceolate tapering from the center towards acute ends, indistinctly sigmoid apices. Raphe weakly retracted towards the valve center. Fibulae distinctly broad, central ones farther apart than others. Striae fine, but visible.

### **Morphometrics**

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Fibulae (in 10 µm)
Own data (n=4)	29.2-48.7	4.5-5.0	30-35	10
Lange-Bertalot et al. 2017	20-45	-	27-36	7-11
Krammer & Lange-Bertalot 1997-2004	20-45	3-5	27-36	7-11

### **Related species**

*Nitzschia filiformis* (W. Smith) Van Heurck (longer, ends obtusely rounded).

### **Distribution**

Kerstanjewetering, Gemaal Wittebrug, Sandee, Watergang Oudelandsedijk/ Middelharnis, Gouderak Noord, Kuipersveer Oude Maas, Sliedrechtse Biesbosch, Hollandse IJssel, Kampen, Keizersveer Bergsche Maas, Wilhelminakanaal, Zwaluwse haven (NL); Dender, Leie, Kanaal Gent-Oostende, Waaslandkanaal Kallosluis, Ringvaart, Kalkenvaart, Kanaal Charleroi-Brussel, Grotebeek-Winterbeek (B).

### **Ecology**

Occurs in the brackish water zone to inland waters with medium to high electrolyte content. In inland waters mostly found in large rivers but also in salt-contaminated smaller running waters. Tolerates pollution by industrial waters up to the α-mesosaprobic zone.

### **Ecological values**

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
4	4	3	3	3	5	

IPS  
(Cemagref 1982)

IPS-S	IPS-V
3.2	2

Rott et al. 1997, 1999

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

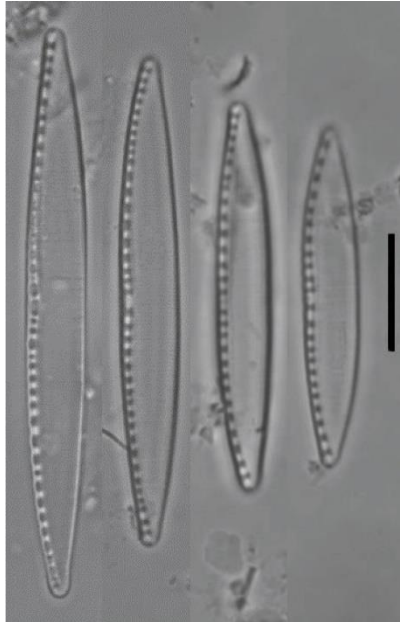
TDI  
(Kelly & Whitton 1995)

TI-S	TI-V
4	2

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### 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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