

Diatom Flora of the Low Countries

Nitzschia sublinearis F. Hustedt 1930.

Morphology

Valves strictly linear-lanceolate with parallel margins and wedge shaped subrostrate to subcapitate ends. Fibulae often irregularly arranged, relatively thin and long, the central ones equidistant. Every fibulae is connected with one striae. Striae visible but delicate.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Fibulae (in 10 µm)
Own data (n=9)	50-69	4-5	-	12-15
Lange-Bertalot et al. 2017	30-90	4-6	34-38	13-17
Hlúbiková et al. 2009	48-70	4.5-5.0	33-35	13-15

Related species

Nitzschia pura Hustedt (delicate valves, lower width, fibulae shorter, fibulae density 19-23, higher striae density 40-50 in 10 µm, outline more lanceolate in larger specimens).

Distribution

Botshol, Westzanerpolder, Vechtplassen, Naardermeer, Amsterdamse stadswateren, Floatlands Amsterdam, Tongerense Beek, Eem Eemdijk, Hagestein boven de sluis, Oosterstroom, Loodiep, Binnenhaven Numansdorp, Kuipersveer Oude Maas, Put van Heenvliet, Eijsden Boven Maas, Roer, Zandwinplas Panhuyspoel (NL).

Ecology

Occurs in alkaline rivers in oligosaprobic to β-mesosaprobic conditions but with a slightly wider ecological amplitude, tolerating low to moderate nutrient concentrations in freshwater as well as brackish habitats.

Ecological values

Indicator values (Van Dam et al. 1994)

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

IPS

(Cemagref 1982)

IPS-S	IPS-V
5	2

Rott et al. 1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v
1.6	2	2.7	4

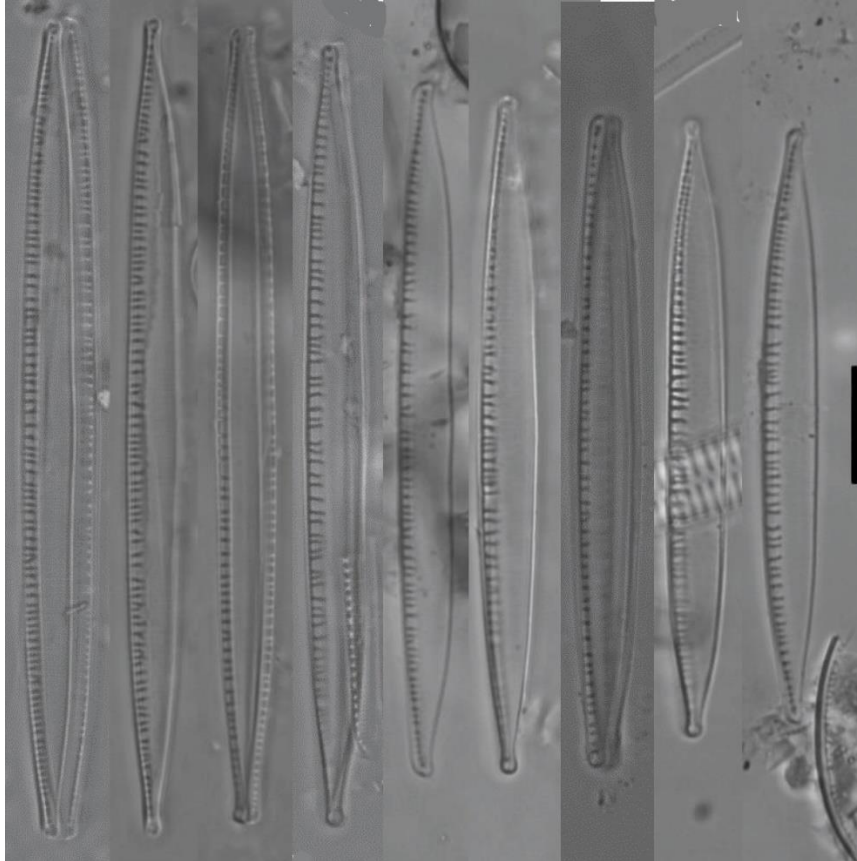
TDI

(Kelly & Whitton 1995)

TI-S	TI-V
4	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.

Hlúbiková D., S. Blanco, E. Falasco, J. Goma, L. Hoffmann et L. Ector (2009) *Nitzschia alicae* sp. nov. and *N. puriformis* sp. nov.

Citation:

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