

Diatom Flora of the Low Countries

***Navicula catalanogermanica* H. Lange-Bertalot et G. Hofmann in H. Lange-Bertalot 1993.**

Morphology

Valves elliptic-lanceolate to broadly lanceolate in large individuals. Ends slightly narrowing, wedge-shaped, obtusely rounded. Raphe filiform to weakly lateral, slightly bowed, central pores close in small somewhat distant in large individuals. Axial area linear to narrowly lanceolate, central area variable very small to larger, rhombic or transversely rectangular. Striae radiate in the middle becoming parallel and weakly convergent at the ends.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data (n=)				
Lange-Bertalot 1993	18-35	7.5-8.5	9-12	25-27

Related species

Navicula menisculus Schumann (longer 32-50 and wider 11-12.5); *Navicula antonii* Lange-Bertalot (smaller 11-30 and narrower 6-7.5).

Distribution

Lijnbaansgracht Amsterdam, Lobith ponton (NL).

Ecology

High tolerance for nutrient richness, ranging from oligotrophic to eutrophic water, well buffered by average electrolyte concentrations (calcium or other earth-alkali ions), oligo- to β-mesosaprobic.

Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
5	2			2	7	

IPS
(Cemagref 1982)

IPS-S	IPS-V
4.8	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	1

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Remarks



The Netherlands

References:

Lange-Bertalot, H. (1993) 85 Neue Taxa und über 100 weitere neu definierte Taxa ergänzend zur Süßwasserflora von Mitteleuropa.

Lange-Bertalot, H. (2001): *Navicula sensu stricto*, 10 genera separated from *Navicula sensu lato*, *Frustulia*. *Diatoms of Europe* 2.

Citation:

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