

Diatom Flora of the Low Countries

Simonsenia delognei (A. Grunow in H.F. van Heurck) H. Lange-Bertalot 1979.

Basionym: *Simonsenia delognei* (A. Grunow in H.F. van Heurck) H. Lange-Bertalot 1979

Synonyms: *Nitzschia delognei* Grunow in Van Heurck 1883; *Nitzschia atomus* Hustedt in Brendemühl 1949; *Nitzschia chasei* Cholnoky 1954

Morphology

Valves very similar to *Nitzschia*, lanceolate to linear-lanceolate with acutely rounded often protracted and subrostrate ends. Marginal structures resembling fibulae are visible but these are external supporting elements. Often overlooked due to very less silicification, fine structure and little size.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Fibulae (in 10 µm)
Own data (n=7)	7.4-13	2.1-2.5	20-22	
Krammer & Lange-Bertalot	7-15	1.5-2	16-22	
Lange-Bertalot et al. 2017	7-15	1.5-2	-	
Witkowski et al. 2014	8.82-15.68	1.2-1.96	19-21	

Related species

none.

Distribution

Amerongen, Kromme Rijn, Gouderak Noord, Sliedrechtse Biesbosch, Vierambachtenboezem Geervliet, Keizersveer, Puttershoek, Brielse Meer, Lobith ponton, Poederoijen Afgedamde Maas, Grave beneden de sluis, Brabantse Biesbosch, Eijsden Boven Maas, Stevensweert aanlegsteiger, Molenbeek Moorveld, Pouckepolder en Lovenpolder (NL); Zuid-Willemsvaart, Albertkanaal, Kanaal Brussel-Schelde, Kanaal Dessel-Kwaadmechelen, Kanaal Dessel-Schoten, Kanaal Bochelt-Herentals, Dijle, Kalkenvaart, Moenebroekbeek, Grote vijver Mechelen (B).

Ecology

Aerophilous species found in periodically humid biotopes, also under conditions of increased osmotic pressure fluctuation, particularly in the splash zone of large rivers.

Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
3	3		1	3	5	4

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IPS
(Cemagref 1982)

IPS-S	IPS-V
3	2

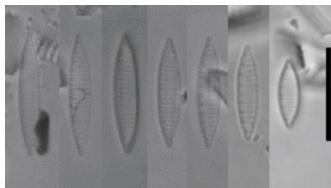
Rott et al.1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v
2.2	4	2.9	2

TDI
(Kelly & Whitton 1995)

TI-S	TI-V
5	1

Remarks



The Netherlands

References:

- Lange-Bertalot, H., G. Hofmann, M. Werum & M. Cantonati (2017) Freshwater Benthic Diatoms of Central Europe.
- Krammer, K. & H. Lange-Bertalot (1997-2004) Bacillariophyceae. Süßwasserflora von Mitteleuropa 2/1-4.
- Witkowski, A., J. Żelazna-Wieczorek, C.N. Solak et M. Kulikovskiy (2014) Morphology, ecology and distribution of the diatom (Bacillariophyceae) species *Simonsenia delognei* (Grunow) Lange-Bertalot.

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