

Diatom Flora of the Low Countries

***Caloneis lancettula* (P. Schulz-Danzig) H. Lange-Bertalot et Witkowski in H. Lange-Bertalot et D. Metzeltin 1996.**

Basionym: *Caloneis aemula* var. *lancettula* Schulz 1926

Synonym: *Caloneis bacillum* var. *lancettula* (Schulz) Hustedt 1930

Morphology

Valves lanceolate with obtusely rounded ends. Central area wide to very wide fascia reaching the valve margins. Axial area narrow close to the ends, broadening towards the center. Raphe weakly curved, central ends moderately separated. Striae weakly radiate.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data (n=8)	8.6-20.4	4.0-4.7	25-28	
Lange-Bertalot et al. 2017	13-50	4-5	22-28	

Related species

Caloneis fontinalis (Grunow) Lange-Bertalot et Reichardt (linear-elliptical to elliptic-lanceolate outline, distinct shortened striae at least in the center of the valve).

Distribution

Widely distributed but in low density. Kuipersveer Oude Maas, Keizersveer, Diepe Broek bronloop, Poederrijen, Lobith ponton, Dieze, Groot Kolkven, Molenbeek Moorveld voor Waalsebeek (NL); Kleine Nete, Kanaal Kortrijk-Bossuit, Dender, Mark, Molnete, Demer, Leie (B).

Ecology

Mesotrophic to eutrophic freshwater habitats, moderately organically polluted water.

Ecological values

Indicator values (Van Dam et al. 1994)

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

IPS
(Cemagref 1982)

IPS-S	IPS-V
4	2

Rott et al. 1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v
0	0	2.5	1

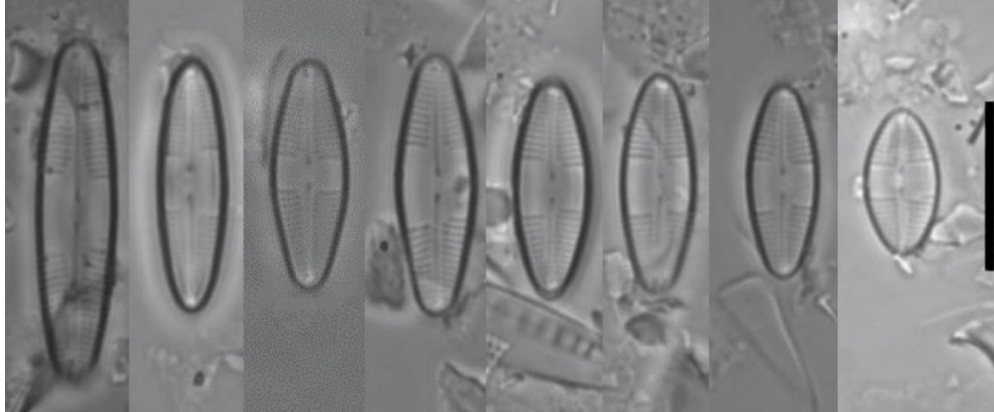
TDI
(Kelly & Whitton 1995)

TI-S	TI-V
5	1

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Remarks

C. lancettula was in the past identified as *C. bacillum*, a marine taxon.



The Netherlands

References:

Lange-Bertalot, H. & D. Metzeltin (1996) Indicators of oligotrophy. Iconographia Diatomologica 2.

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

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