

Diatom Flora of the Low Countries

Cocconeis neothumensis K. Krammer 1991

Morphology

Valve broadly elliptic-lanceolate relatively flat and lightly silicified. RV: Raphe straight, filiform with distinct pores moderately close together. Axial area indistinct narrowly linear not widening towards the center. RLV: striae almost parallel or weakly radiate in the center, becoming more strongly radiate towards the apices. Each stria consists of 3 or 4 areolae and form 3 to 4 more or less regular apical lines. Axial area more or less lanceolate.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)
Own data (n=7)	6.2-8.9	4.8-5.3	RV:32-34 RLV: 19-25
Lange-Bertalot et al. 2017	6.5-13	4-8.3	RV: 28-36 RLV: 16-25
Krammer & Lange-Bertalot 1997-2004	6.5-13	4-8.3	RV: 28-36 RLV: 16-25

Related species

Small specimens of *C. placentula* var. *pseudolineata* L. Geitler (RLV: narrowly linear axial area, more areola 3-6 in 10 µm; RV: more silicified). *C. neodiminuta* K. Krammer (RLV: striae more widely spaced 11-14 in 10 µm and coarser areolae).

Distribution

Alps and Alpine foothills as well as in the central highlands and in running waters.

Naardermeer, Noorderijplas, 't Korfwater, Smalle Eesterzanding herbarium material, Zandwinplas, Panhuyspoel, Kuinderplas, Casteleynsplas, Roggebottocht, Casteleynsplas, Mark-Vlietkanaal, Belversven, Achterste Kolkven, Grave beneden de Sluis, Brabantse Biesbosch, Kolkven, Witven, Sliedrechtse Biesbosch, Gouderak-Noord, Poederrijen afgedamde Maas(NL).

Ecology

Alkaline lakes and running waters with medium to high trophic levels. Sensible for organic load.

Ecological values

Indicator values (Van Dam et al. 1994)

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

IPS
(Cemagref 1982)

IPS-S	IPS-V
3	1

Rott et al. 1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v
1.5	3	2	2

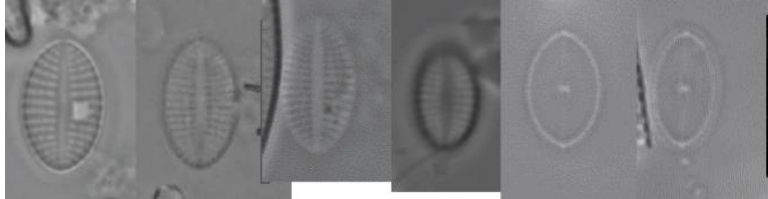
TDI
(Kelly & Whitton 1995)

TI-S	TI-V
4	2

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Remarks

RV is relatively flat and lightly silicified and therefor easily overlooked



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.

Citation:

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