

Diatom Flora of the Low Countries

Encyonema leibleinii (C. Agardh) W.J. Silva, R. Jahn, T.A.V. Ludwig et M. Menezes 2013

Basionym: *Gloionema leibleinii* C. Agardh, 1830, Consp. Crit. Diatom.: 31.

Synonyms: *Encyonema prostratum* (Berk.) Kütz. 1844; *Encyonema paradoxum* Kütz. sensu Kützing (1844); *Cymbella prostrata* (Berk.) Cleve 1894

Morphology

Valve dorsiventral semi-lanceolate to slightly lanceolate, dorsal margin strongly convex, ventral margin straight to slightly convex, ventral side wide. Ends broadly rounded slightly displaced to ventral. Axial area straight and filiform, central area distinct rounded. Raphe lateral, terminal ends deflected to the ventral side, proximal ends slightly deflected to the dorsal side, terminal nodules positioned on the ventral side, central nodule on the dorsal side. Striae radiate, parallel to convergent only close to the ends ventrally, circumradiate at the poles, commonly one short stria in the middle part of the ventral side. Puncta coarse. Length/breadth ratio 2.5-2.9.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data (n=4)	48-65	17-25	9	19-21
Krammer & Lange-Bertalot 1997-2004	38-92	16-31	7-11 dorsal up to 15-21 ventral end	18-21
Lange-Bertalot et al. 2017	38-94	16-25	7-10	16-22
Silva et al. 2013	43.4- 55.4	17.5-20.8	6-12	16-21

Related species

E. cespitosum Kützing (considerably smaller L: 22-57 µm; W: 9,5-15 µm, ends not or weakly differentiated, rounded and narrowly wedge-shaped); *E. auerswaldii* Rabenhorst (considerably smaller L: 15-37 µm, more narrow spaced puncta 20-25 in 10 µm. Ends not or weakly differentiated).

Distribution

Naardermeer, 't Hol, Ankeveense Plassen, 's Graveland, Plas aan Reeweg bij Zonzeel, Wielen Elshoutse Zeedijk, Wielen Haarsteeg, Wielen Orthen & Dieskant, Wielen De Heinis, Oude meander Kleine Vilt, Keersop, Klein Koppelwiel, Zevenhuizerplas Rotterdam, Haven van Strijen bij buitendijk te Strijensas, Binnenhaven Numansdorp op Heulbrug, Nieuwkoopse Plassen, Kuipersveer Oude Maas, Vledder Aa, Lobith ponton, Hagestein boven sluis, Poederrijen Afgedamde Maas (NL).

Ecology

In eutrophic, alkaline, oligo-β-mesosaprobic running and standing freshwater.

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Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
4	2	1	1	2	5	1

IPS
(Cemagref 1982)

IPS-S	IPS-V
4	3

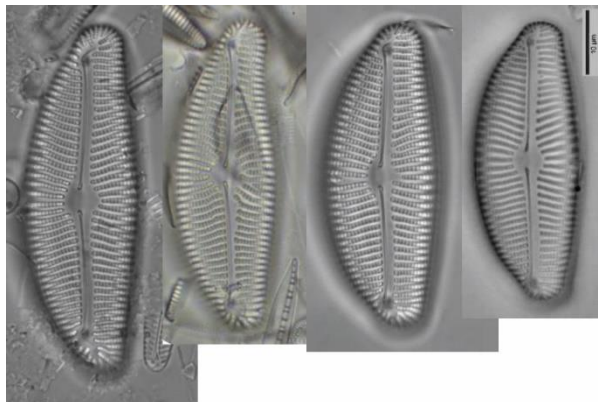
Rott et al. 1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v
1.8	3	2.3	1

TDI
(Kelly & Whitton 1995)

TI-S	TI-V
2	1

Remarks



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.
- Silva, W.J., R. Jahn, T.A.V. Ludwig & A. Menezes (2013) Typification of seven species of *Encyonema* and characterization of *Encyonema leibleinii* comb. nov.

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