

Diatom Flora of the Low Countries

***Encyonema ventricosum* (Agardh) Grunow in A. Schmidt et al. 1885**

Synonym: *Cymbella ventricosa* (Agardh) Agardh

Morphology

Valves strongly dorsiventral, semi-lanceolate. Dorsal strongly convex, ventral weakly convex with inflated center. Apices protracted to even capitate, clearly ventrally bent and acutely rounded. Axial area ventrally displaced, narrow, linear. Central area absent. Striae dorsally weakly to clearly radiate, ventrally parallel to radiate, almost parallel to convergent near apex. Areolae not or only very weakly visible in LM. There is dorsal an expressed but not isolated proximal areola.

Morphometrics

Source	Length (µm)	Width (µm)	L/W ratio	Striae (in 10 µm)	Areolae (in 10 µm)
Own data (n=11)	16-22	6-7	2.8-3.1	12-14	30-35
Krammer, K. (1997a)	9-21	4.5-6.9	4?	(12)14-19	33-36
Lange-Bertalot et al. (2017)	9-29	4.5-6.9	≤4?	(12)14-19	33-39

Related species

Encyonema silesiacum (Bleisch in Rabenhorst) D.G.Mann (broader forms, not protracted, lower stria density, stigmatic present); *Encyonema lange-bertalotii* Krammer (larger, higher width > 7.0 µm, areolae more visible).

Distribution

Central Europe frequent to abundant.

Ecology

Eutrophic freshwater habitats with moderate electrolyte content
Tolerant to heavy organic pollution, α-mesosaprobic

Ecological values

Indicator values (van Dam et al. 1994)

R	H	N	O	S	T	M
3	2	3	3	3	5	1

IPS

IPS-V	IPS-I
4.0	1.0

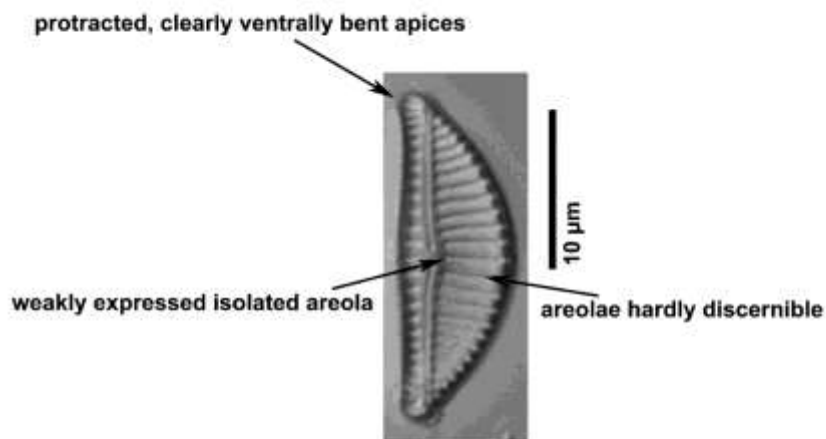
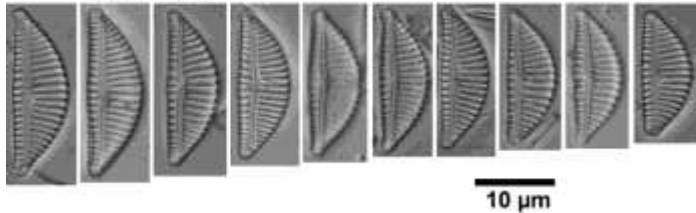
TDI

TI-V	TI-S
2	1

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Remarks

Loeijense Neetje (B)
03/07/2017



References:

- Krammer, K. (1997a) *Bibliotheca Diatomologica* 36: p. 98, figs p. 6, 7, 23, 26 & 27
Lange-Bertalot et al. (2017) *Freshwater Benthic Diatoms of Central Europe: Over 800 Common Species Used in Ecological Assessment*, p. 209, figs p. 806

Citation:

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