

# Diatom Flora of the Low Countries

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## ***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, stigmoid 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  
(Cemagref 1982)

IPS-S	IPS-V
4	1

Rott et al. 1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v
2	0	0	0

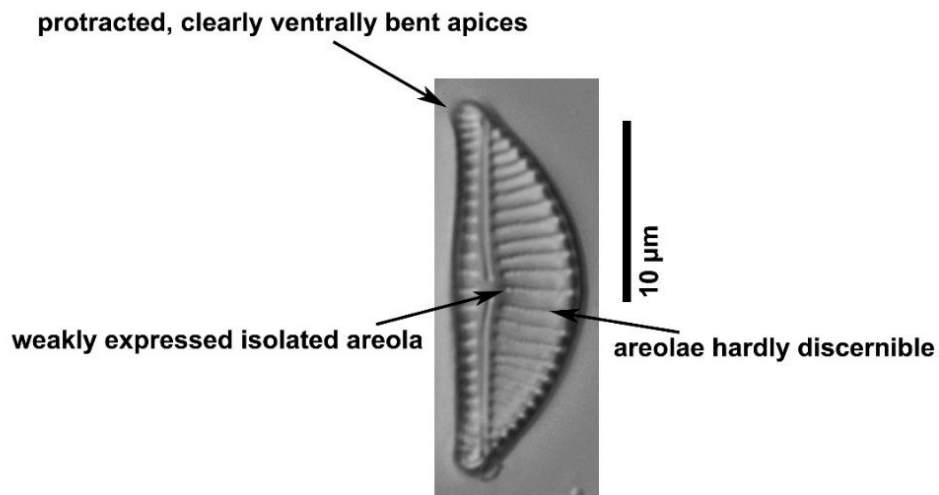
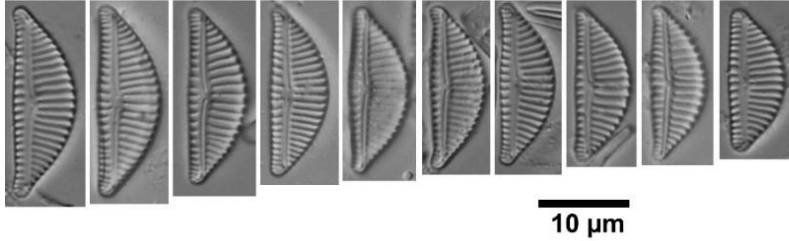
TDI  
(Kelly & Whitton 1995)

TI-S	TI-V
4	2

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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

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