

Diatom Flora of the Low Countries

Gomphonema supertergestinum E. Reichardt 2009.

Morphology

Valves lanceolate-club-shaped to elliptic-club-shaped, headpole broadly rounded to subcapitate with a pseudoseptum. Raphe small lateral to needle shape, little bit curved to straight. Axial area small linear, central area one-sided, big, at one side to the valve margin without striae, striae on the opposite shortened. Stigma clear, between the central pores. Striae radiate, near the headpole sometimes parallel, areolae not visible.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data (n=6)	23-31	7.4-7.8	11-12	
Reichardt, E. 2009	22-52	7-9.8	9-12	
Novais et al. 2009	25.2-38.7	6.7-8.5	9-11	

Related species

G. tergestinum A. Grunow (smaller size, denser striae 10-16 in 10 µm, no pseudoseptum at headpole); *G. rosenstockianum* Lange-Bertalot et Reichardt (size L: 9.7-34 B: 4.4-6.3, striae parallel 10-17 in 10 µm delimiting central area); *G. occultum* E. Reichardt et H. Lange-Bertalot (more slender outline, central area one sided, one shortened striae opposite).

Distribution

Zuiderdiep, Brielse Meer, Hagestein boven sluis, Rijn Lobith ponton (NL).

Ecology

Standing freshwater habitats. Not yet well known because of taxonomical problems.

Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
4	2				4	

IPS

(Cemagref 1982)

IPS-S	IPS-V

Rott et al. 1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v

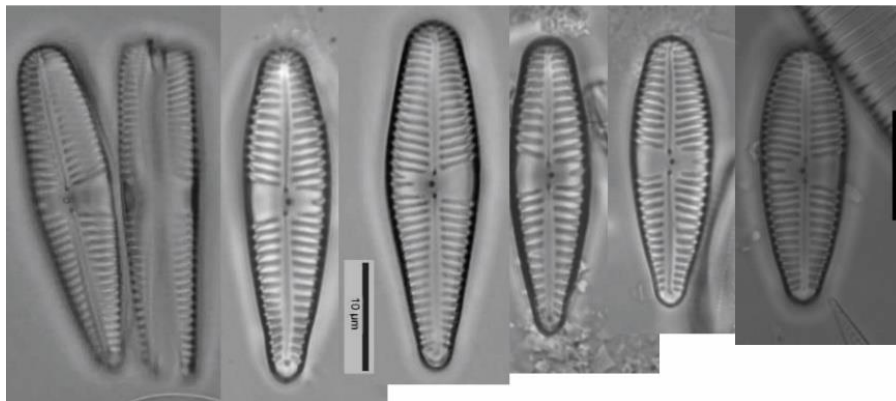
TDI

(Kelly & Whitton 1995)

TI-S	TI-V

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Remarks



The Netherlands

References:

- Lange-Bertalot, H., G. Hofmann, M. Werum & M. Cantonati (2017) Freshwater Benthic Diatoms of Central Europe.
- Novais, M.H., S. Blanco, D. Hlúbiková, E. Falasco, J. Gomà, C. Delgado, P. Ivanov, É. Ács, M. Morais, L. Hoffmann & L. Ector (2009) Morphological examination and biogeography of the *Gomphonema rosenstockianum* and *G. tergestinum* species complex (Bacillariophyceae).
- Reichardt, E. (2009) Silikatauswüchse an den inneren Stigmenöffnungen bei *Gomphonema*-Arten.

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