

Diatom Flora of the Low Countries

Fragilaria subconstricta Østrup (Østrup 1910) emend. Heudre

Synonyms: *Fragilaria tenuistriata* Østrup (1910); *Fragilaria tenuistriata* Østrup sensu Tuji & Williams (2008); *Fragilaria subconstricta* Østrup sensu Tuji & Williams (2008)

Morphology

Cells forming long flat ribbon-like colonies. Valves narrow, linear-lanceolate, with rostrate ends. Mostly slight constriction at valve center. Central area small to absent often with less noticeable striation. Striae parallel more or less alternating, clearly visible on mantle in girdle view.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data (n=6)	28-55	3.1-4.3	14-16	
Heudre et al. 2019	45-68	3-4	12-15 up to 17 ends	

Related species

Fragilaria capucina Desmazières (more lanceolate, large elliptical to rhombic central area, higher stria density 14-17); *Fragilaria mesolepta* Rabenhorst (higher stria density 15-18, subcapitate apices, more clearly constricted); *Fragilaria nevadensis* Linares-Cuesta et Sánchez-Castillo (more lanceolate, shorter and slightly broader, convex undulating margins, subcapitate apices, large elliptic central area); *Fragilaria pararumpens* Lange-B, Hofmann & Werum (lanceolate valves inflated in the center, narrower 2.5–3.0 µm, elliptic central area).

Distribution

Zuiderafwateringskanaal, Peelse loop Beestenveld, Beneden -en Boven Regge, Radewijkerbeek, Schoonebeekerdiep, Sleenerstroom, Eem Eemdijk, Poederrijen Afgedamde Maas (NL).

Ecology

In a mesotrophic, slightly alkaline environment.

Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
3	2			2	4	

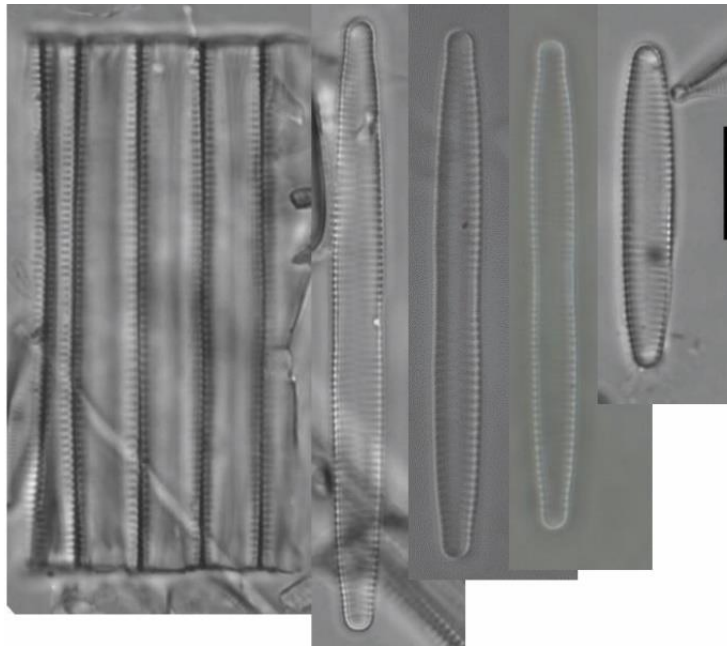
IPS

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Remarks



The Netherlands

References:

- Heudre, D., C.E. Wetzel, L. Moreau & B. Van de Vijver (2019) On the identity of the rare *Fragilaria subconstricta* (Fragilariaceae), with *Fragilaria* species forming ribbon-like colonies shortly reconsidered.
- Tuji, A. et D.M. Williams (2008) Examination of type material of *Fragilaria mesolepta* Rabenhorst and two similar, but distinct, taxa. *Diatom Research* 23(2):503-510
- Tuji, A. et D.M. Williams (2020) Re-typification of *Fragilaria subconstricta* and *F. tenuistriata*, and a correction for Tuji & Williams 2008.
- Van de Vijver, B., A. Mertens, C.E. Wetzel & L. Ector (2019) *Fragilaria capucina* & co.

Citation:

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