

Diatom Flora of the Low Countries

***Frustulia crassinervia* (Brébisson ex W.Smith) Lange-Bertalot & Krammer 1996**

Basionym: *Navicula crassinervia* Brébisson ex W. Smith 1853

Synonyms: *Navicula rhomboides* var. *crassinervia* (Brébisson) Grunow 1880;
Frustulia rhomboides var. *crassinervia* (Brébisson ex W. Smith) Ross 1947

Morphology

Valves lanceolate to elliptic-lanceolate with weakly to more distinctly triundulate margins, ends protracted rostrate or subrostrate. Axial area straight, at the central nodule regularly constricted, maximum breadth 2 µm. Striae almost parallel, becoming slightly convergent near the ends radiating around terminal nodules.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)
Own data (n=13)	32-49	9-11,5	32-35
Casa et al. 2018 (type)	44-51	11.5-12.5	32-34
Kociolek & Graeff 2011	35-48	9-10,5	33-35
Lange-Bertalot 2001	30-55	8-12,5	30-35
Lange-Bertalot et al. 2017	30-55	8-12,5	30-35

Related species

Frustulia saxonica Rabenhorst 1853 (Valves more rhombic-lanceolate, poles not (weakly) protracted, on average larger).

Distribution

The species has a global distribution.

Ecology

Typical species of peat bogs and other habitats with low mineral content and buffered by humic acids.

Ecological values

Indicator values (Van Dam et al. 1994)

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

IPS
(Cemagref 1982)

IPS-S	IPS-V
5	2

Rott et al. 1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v
1	5	0.4	2

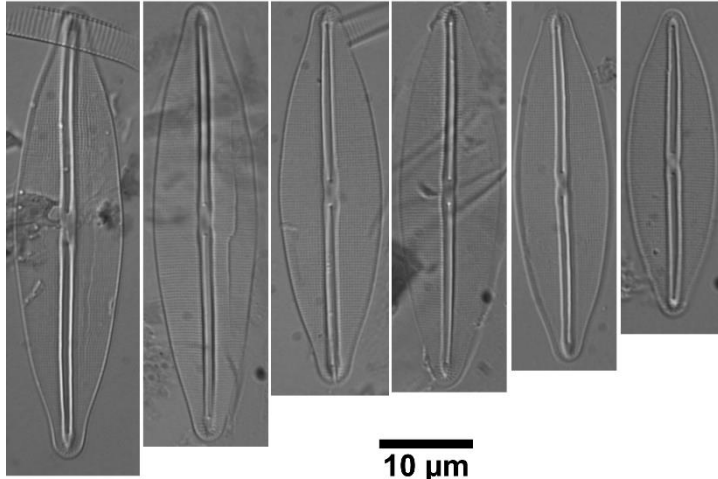
TDI
(Kelly & Whitton 1995)

TI-S	TI-V
1	2

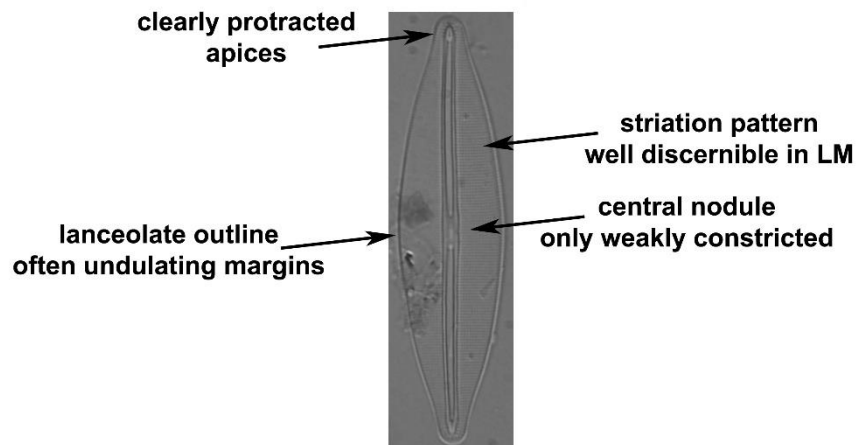
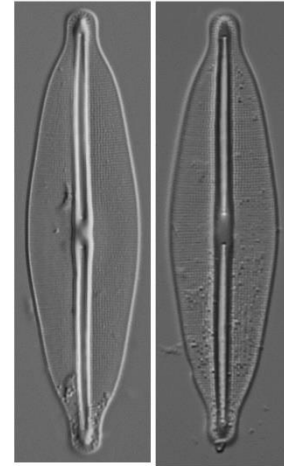
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Remarks

**moorland pools
Northern-Brabant (NI)**



**Type material
Falaise (Fr)**



References:

Casa et al. (2018) *Fottea* 18(1) p. 57, figs p. 58

Kocielek, P. & Graeff, C. (2011) https://diatoms.org/species/frustulia_crassinervia

Lange-Bertalot (2001) *Diatoms of Europe 2* p.164, figs p. 490

Lange-Bertalot H. et al. (2017) *Freshwater Benthic Diatoms of Central Europe* p. 282, figs p. 750

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