

# Diatom Flora of the Low Countries

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

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

Synonym(s) : *Navicula rhomboides* var. *crassinervia* (Brébisson) Grunow 1880

*Frustulia rhomboides* var. *crassinervia* (Brébisson ex W. Smith) Ross 1947

### **Morphology**

Valves lanceolate – elliptic-lanceolate, poles protracted. Length 30-55  $\mu\text{m}$  (initial cells may reach 80  $\mu\text{m}$ ), width 8-12,5  $\mu\text{m}$  striae 30-35/10  $\mu\text{m}$  (measured at valve center) areoleae slightly denser spaced. Striae almost straight, weakly wavy. Axial area straight, in proximity of the central area constricted maximum with at center 2  $\mu\text{m}$ .

### **Morphometrics**

Source	Length ( $\mu\text{m}$ )	Width ( $\mu\text{m}$ )	Striae (in 10 $\mu\text{m}$ )
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, P. & C. 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

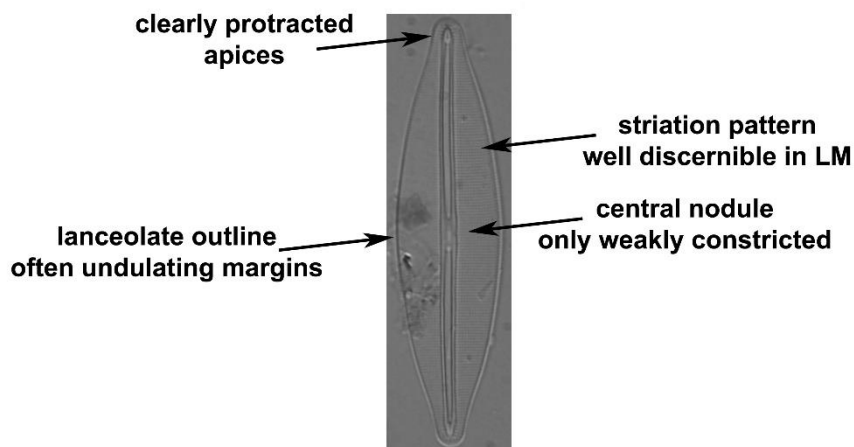
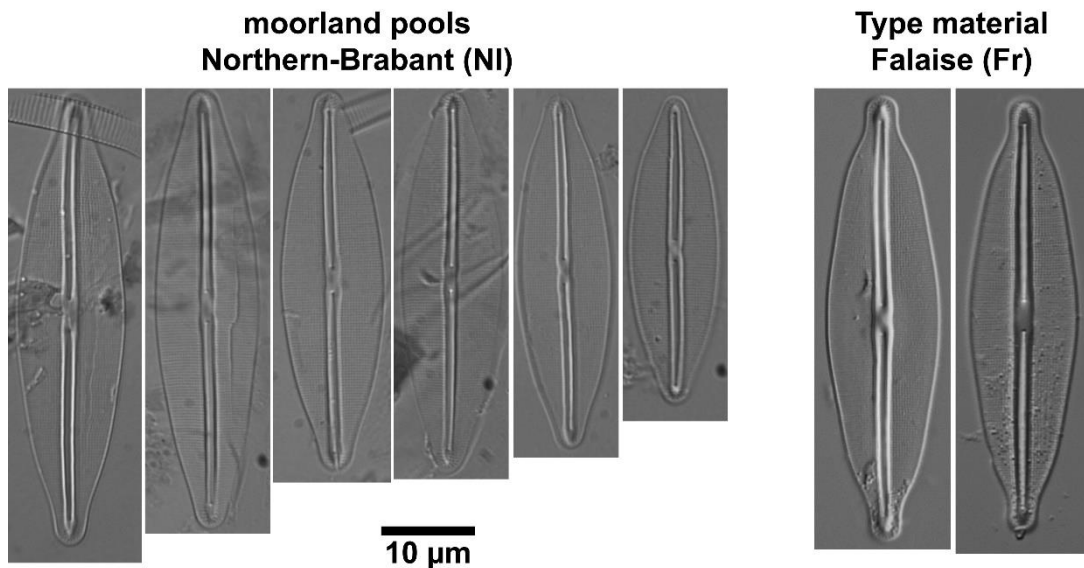
IPS-V	IPS-I
5.0	2.0

TDI

TI-V	TI-S
1	2

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**Remarks**



**References:**

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

Kociolek, P. & Graeff, C. (2011) [https://diatoms.org/species/frustulia\\_crassinervia](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

**Citation:**

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