
Diatom Flora of the Low Countries

***Eunotia paludosa* Grunow 1862, p. 336, pl. 3, fig. 10**

Synonyms: *Eunotia denticulata* var. *fennica* Hustedt (1932: 291), *Eunotia fennica* (Hustedt 1932: 291) Lange-Bertalot (in Werum & Lange-Bertalot 2004: 152).

Morphology

Girdle view narrowly rectangular with slightly concave margins. Dorsal margin parallel or slightly to more strongly convex. Ventral margin distinctly concave. Apices short-protracted and more or less reflexed to the dorsal side. Terminal nodules close to the poles. Terminal raphe fissures in the valve face short. Striae almost parallel, equidistant throughout the entire valve. at the dorsal side of the mantle. Areolae difficult or not discernible in LM. Short spines on the dorsal side sometimes discernible, at least as tiny dark dots by focusing.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data (n=21)	27.5-50.0	3.7-4.7	17.4-20.5	
Van de Vijver et al. 2022	19-50	3.0-4.0	19-21	35-36
Lange-Bertalot et al. 2017*	16-65	3-5	15-22	32-35
Lange-Bertalot et al. 2011*	16-90	3-5	15-22	
Krammer & Lange-Bertalot 1997-2004*	15-60(90)	(3)3,5-5	15-22	
*As <i>E. fennica</i>				

Related species

Eunotia denticulata s.s. (Brébisson ex Kützing) Rabenhorst 1864 (broader, less striae/10 µm, longer spines); *E. neoborealis* Lange-Bertalot (longer dorsal spines, broader on average (4-6.5 µm)); *E. superpaludosa* Lange-Bertalot (dorsal margin less convex, spines lacking); *E. neocompacta* var. *vixcompacta* Lange-Bertalot (no spines)

Distribution

Scattered to moderately frequent in Central Europe. Langeveen, Poort II (NL).

Ecology

Undisturbed ombrotrophic peat bogs or dystrophic lakes with *Sphagnum*-association on the shores.

Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
2	1	1	1	1	1	4

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IPS	
IPS-V	IPS-I
5	2

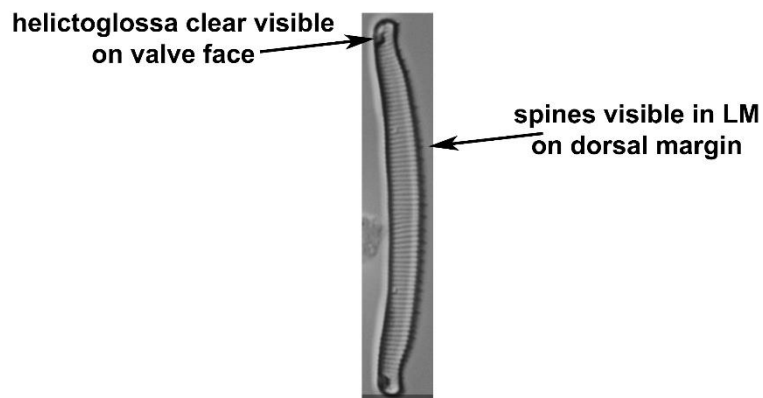
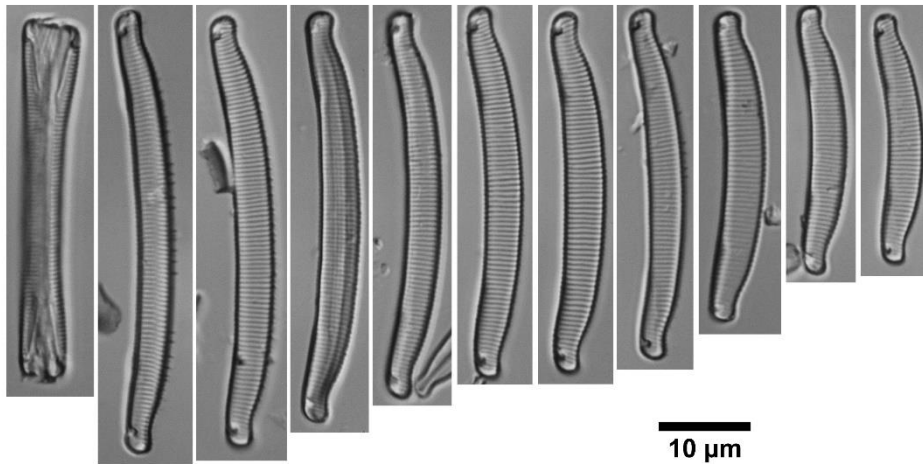
TDI	
TI-V	TI-S
1	3

Remarks

Foto's en metingen gedaan in:

Preparaat D17020-81, Poort II, Boswachterij Dwingeloo. Monsterdatum 8 mei 2017

Poort II, Boswachterij Dwingeloo (NI)
08/05/2017



References:

Krammer, K. & H. Lange-Bertalot (1997-2004) Bacillariophyceae. Süßwasserflora von Mitteleuropa 2/1-4.

Lange-Bertalot, H., M. Bak & A. Witkowski (2011) *Eunotia* and some related genera. Diatoms of Europe: 6.

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Lange-Bertalot, H., G. Hofmann, M. Werum & M. Cantonati (2017) Freshwater Benthic Diatoms of Central Europe.

Van de Vijver, B., H. Lange-Bertalot, C. Goeyers, A. Mertens, T.M. Schuster & L. Ector† (2022) The identity of *Eunotia paludosa* Grunow 1862 (Eunotiaceae, Bacillariophyta), a revision, and the description of three new species of *Eunotia* Ehrenberg.

Citation:

G.L. Verweij & A. Mertens, 2023, *Eunotia paludosa*. In Diatom Flora of the Low Countries. NVKD. Retrieved from <http://www.nvkd-diatom.nl/species>