

Diatom Flora of the Low Countries

***Brachysira garrensis* (Lange-Bertalot & Krammer) Lange-Bertalot 1994**

Basionym: *Anomoeoneis garrensis* Lange-Bertalot & Krammer 1985

Morphology

Valves (elliptic-) lanceolate with more or less protracted, rostrate apices. Sometimes a little asymmetric to the transapical axis. Raphe straight, filiform with small, clearly visible proximal endings. Axial area very narrow, often widening towards the central area. Central area sometimes, absent, usually small, elliptical to rounded. Voigt-discordance not visible. Striae composed elongated areolae (latter barely visible in LM), radiate throughout the entire valve. Typical *Brachysira* design pattern present. Spines absent. Apical and axial ribs weakly developed (sometimes better visible as a result of corrosion).

Morphometrics

source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data (n=25)	11-20	3.5-4.5	36-41	-
Krammer & Lange-Bertalot (1997-2004)	8.3-32	3-6.5	36-40	-
Lange-Bertalot & Moser (1994)	8.3-32	3-6.5	36-40	-

Related species

Brachysira neoexilis Lange-Bertalot (more protracted, usually capitate. Lower striae density); *Brachysira neglectissima* Lange-Bertalot (usually larger valves); *Brachysira procera* Lange-Bertalot & Moser (lower stria density, more slender, elongated valves).

Distribution

Possibly cosmopolitan, likely very often confused with related species. Type locality Garrensee (D). Groot Ganzenven, De Zanderijen, Achterste Goorven, Bosveen Uffelte, Kliplo, Bergeven, Wiekermedeven, Roderveldpoel, Teesselinkven, Broddebreekven Noord, Oude Spartelvijver, Bergvennen 1957, Haeselaarsbroek poel, Lossing uit 't Loom (Nartheciumbeek) (NL).

Ecology

Usually in electrolyte poor, fresh waters, low in nitrogen.

In the Netherlands found in the Beuven, a large moorland pool with a *Lobelia* vegetation. Characteristic parameters for Beuven:

pH 5,5-6,5 conductivity 50-100 µS/m total N < 2 mg/l

Ecological values

Indicator values (Van Dam et al. 1994)

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

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IPS
(Cemagref 1982)

IPS-S	IPS-V
3	1

Rott et al. 1997, 1999

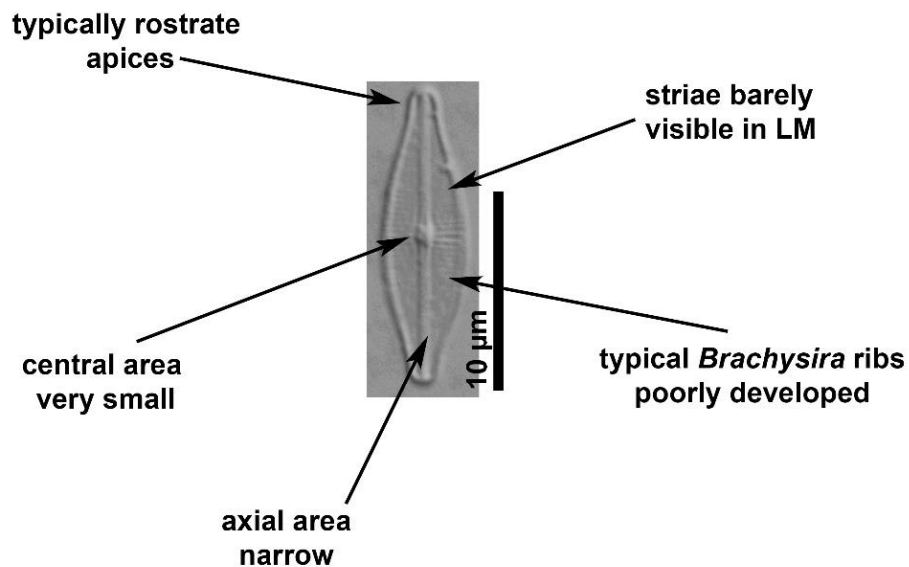
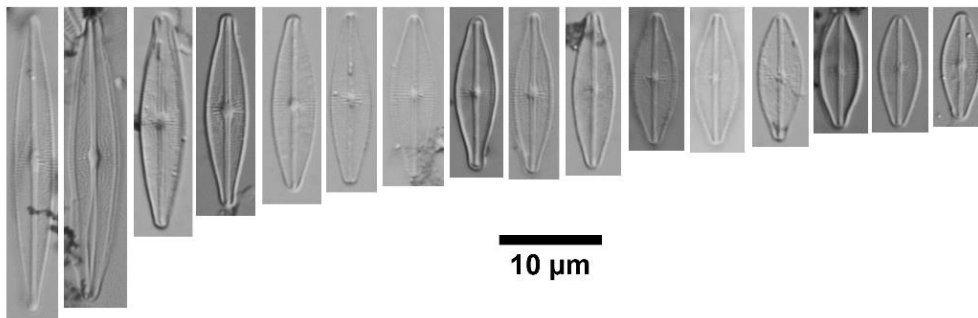
Rott SI s	Rott SI v	Rott TI s	Rott TI v

TDI
(Kelly & Whitton 1995)

TI-S	TI-V
1	3

Remarks

Moorland pool Beuven (NL)



References:

- Krammer, K. & H. Lange-Bertalot (1997-2004) Bacillariophyceae. Süßwasserflora von Mitteleuropa 2/1-4.
 Lange-Bertalot, H. & G. Moser (1994) *Brachysira* Monographie der Gattung.

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