

Diatom Flora of the Low Countries

***Navicula microrhombus* (Cholnoky) Schoeman & Archibald 1977**

Basionym: *Fragilaria microrhombus* Cholnoky 1970

Synonyms: (?) *Achnanthes cognita* Archibald 1971; (?) *Navicula adamantiformis* Archibald 1966

Morphology

Valves broadly rhombic with very convex margins. Apices acutely rounded, never protracted. Striae uniseriate, radiate throughout, more towards the apices, clearly punctate. Axial area very narrow, linear. Raphe usually very short, not always visible!!! Central area absent

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data (n=13)	5.4-6.0	4.1-4.6	20-26	
Ector et al. 2015	6.0-7.0	4.4-5.0	22-30	
Schoeman & Archibald 1976	6.0-7.0	4.4-5.0	22-30	
Taylor et al. 2007	6.0-7.0	4.4-5.0	22.30	

Related species

Pseudostaurosira trainorii Morales (Different valve outline: roundish, no raphe)

Distribution

Winterbeek Belgium, Acheneau France, Fishponds South Africa.

Ecology

Probably in polluted, alkaline water bodies, elevated electrolyte content.

Ecological values

Indicator values (van Dam et al. 1994)

R	H	N	O	S	T	M
	2					

IPS
(Cemagref 1982)

IPS-S	IPS-V

Rott et al. 1997, 1999

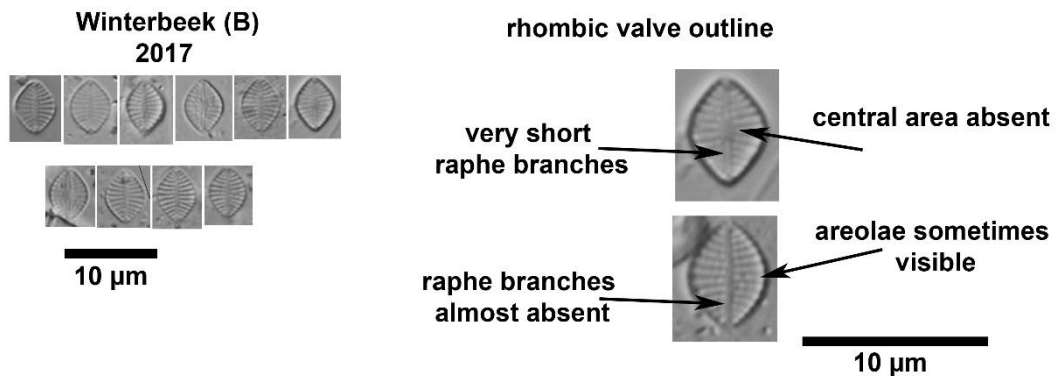
Rott SI s	Rott SI v	Rott TI s	Rott TI v

TDI
(Kelly & Whitton 1995)

TI-S	TI-V

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Remarks



References:

- Ector L., C.E. Wetzel, M.H. Novais & D. Guillard (2015) Atlas des diatomées des rivières des Pays de la Loire et de la Bretagne [Atlas of freshwater diatoms from rivers of Loire and Brittany regions (France)].
- Schoeman, F.R. & R.E.M. Archibald (1976) The Diatom Flora of South Africa.
- Taylor, J.C. et al. (2007) An illustrated guide to some common diatom species from South Africa.

Citation:

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