

Diatom Flora of the Low Countries

***Praestephanos triporus* (S.I. Genkal et G.V. Kuzmin) A. Tuji et J.-S. Ki in A. Tuji, Y. Mohri, J.-S. Ki, S.W. Jung et M.L. Julius 2014.**

Basionym: *Stephanodiscus triporus* Genkal & G.V. Kuzmin 1978

Synonyms: *Stephanodiscus vestibulis* Håkansson, E.C. Theriot & Stoermer 1986;
Stephanodiscus triporus var. *volgensis* Genkal in Genkal & Korneva 1990

Morphology

Valves usually concentrically convex–concave, sometimes almost flat, radial striae composed of round or elongate areolae or sometimes zig-zag slits. Interstriae end in spines. Areolae in the valve center arranged irregularly. The single rows of areolae become double or triple, or rarely in fours, at the edge of valve face; very rarely they remain single. A single fultoportula with three satellite pores occurs near the center. Marginal fultoportulae occur on every second to fifth interstriae below a spine. A single rimoportula is present, situated above the ring of marginal fultoportulae.

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Fasciculi (in 10 µm)
Own data (n=15)	6.5-11		16-20	
Kiss et al. 2013	3.7-12.5		10-21(30)	23-65
Ector et al. 2015	5.0-10		13-16	

Related species

Stephanodiscus minutulus Grunow (valve face flat or slightly concave or slightly convex, areolae more clear); *Cyclostephanos dubius* (Fricke) Round (valve face strongly concentrically undulate with distinctly convex or concave central part, larger 3-35 µm, interfascicles 8-12 in 10 µm thickened at the valve mantle).

Distribution

Jaarlasloot Wetzemertille, Zandwinplas Panhuyspoel, Zandput Langweer, Zandwinput Skulenboarch, Gouderak Noord, Sliedrechtse biesbosch, Kuipersveer Oude Maas, Lobith ponton, Hagestein boven de sluis, Keizersveer Bergsche Maas, Brabantse Biesbosch, Peelse Loop, Kleine Aa, Stevensweert aanlegsteiger, Eijsden Boven Maas, Kampen (NL); Demer, Velpe, Dender, Brote Molenbeek, Munsterbeek, Grote vijver Mechelen, Mombeek (B).

Ecology

The species has a wide ecological range, occurring in oligotrophic to eutrophic lakes, reservoirs and rivers.

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Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
4	2				7	1

IPS
(Cemagref 1982)

IPS-S	IPS-V
2.5	1

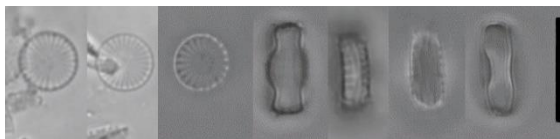
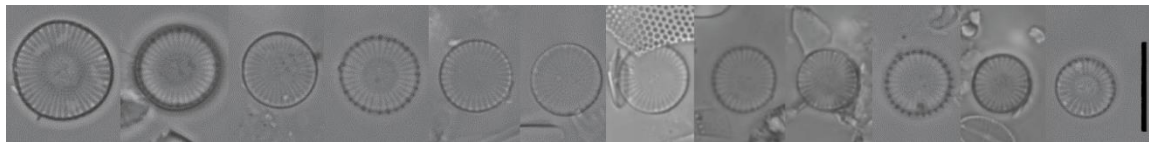
Rott et al. 1997, 1999

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

TDI
(Kelly & Whitton 1995)

TI-S	TI-V
4	1

Remarks



The Netherlands

References:

- Ector L., Wetzel C.E., Novais M.H. & Guillard D. (2015). Atlas des diatomées des rivières des Pays de la Loire et de la Bretagne.
- Kiss, K.T., Genkal, S.I., Ector, L., Molnar, L., Duleba, M., Biro, P. & Ács, E. (2013). Morphology, taxonomy and distribution of *Stephanodiscus triporus*.
- Tuji, A., Y. Mohri, Ki, J-S., Jung, S.W. & Julius, M.L. (2014) Phylogeny of *Praestephanos* gen. nov.

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