

Diatom Flora of the Low Countries

Navicula rhynchocephala Kützing 1844

Basionym : *Navicula rhynchocephala* Kützing 1844

Synonyms : none

Morphology

Valves (narrowly) lanceolate with clearly convex margins and very long, protracted rostrate apices. Raphe mostly lateral. Proximal raphe endings drop-like, almost straight. Axial area rather narrow, linear. Central area small transversely rectangular to elliptical with several, irregularly shortened central striae. Striae radiate, more parallel and even convergent near the valve apices. Lineolae clearly visible in LM.

Morphometrics

source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data	45-56	8.5-9.5	10-11	25-27
Krammer & Lange-Bertalot (1986)	35-80	9-14	7-12	20-25
Lange-Bertalot (2001)	40-60	8.5-10	10-12	c. 25
Potapova (2009)	48-53	9-10	10-12	
Hofmann et al. (2011)	40-60	8.5-10	10-12	c. 25

Related species

Navicula rhynchotella Lange-Bertalot (higher valve width, more elliptic-lanceolate valve outline)

Navicula vaneei Lange-Bertalot (less rostrate apices, higher valve width, coarser striae)

Distribution

Widespread in Europe.

Ecology

Broad range of trophic conditions

low to moderate electrolyte contents

Mostly circumneutral to alkaline

Tolerant for lower levels of saprobity (oligo- to β - α -mesosaprobic)

Ecological values

Indicator values (van Dam et al. 1994)

R	H	N	O	S	T	M
4	2	2	4	2	7	2

IPS

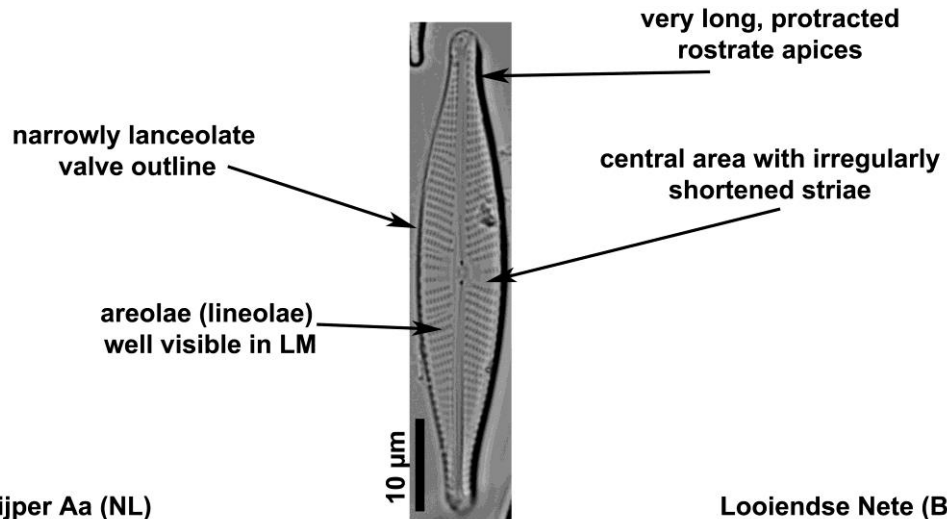
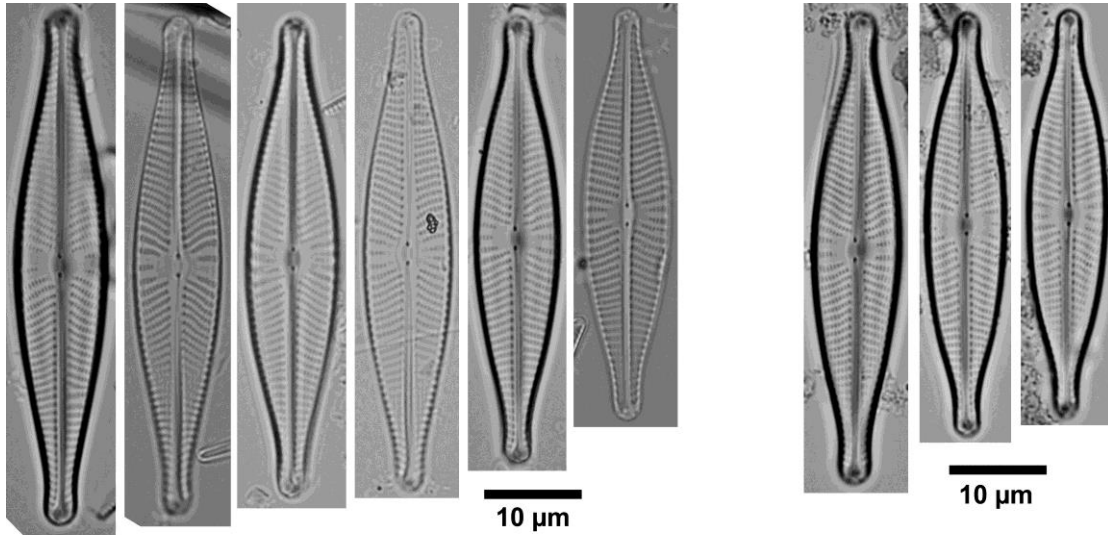
IPS-V	IPS-I
4	3

TI-index

TI-V	TI-S
5	1

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Remarks



Oude Strijper Aa (NL)
02/06/1982

Looiendse Nete (B)
07/05/1994

References:

Lange-Bertalot (2001) Diatoms of Europe 2: p. 64, figs p. 254

Hofmann et al. (2011) Diatomeen im Süßwasser-Benthos von Mitteleuropa p. 396, figs p. 660