

# Diatom Flora of the Low Countries

## *Navicula rhynchocephala* Kützing 1844

**Basionym:** *Navicula rhynchocephala* Kützing 1844

### **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
Kociolek (2011)	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 or trophic conditions, low to moderate electrolyte contents.

Mostly circumneutral to alkaline

Tolerant for lower levels of saprobity (oligo- to  $\beta$ - $\alpha$ -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  
(Cemagref 1982)

IPS-S	IPS-V
4	3

Rott et al. 1997, 1999

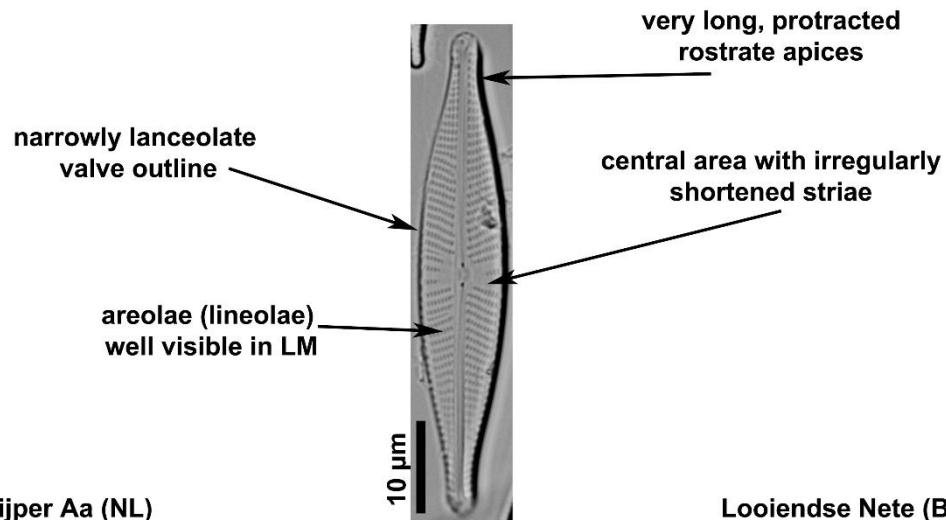
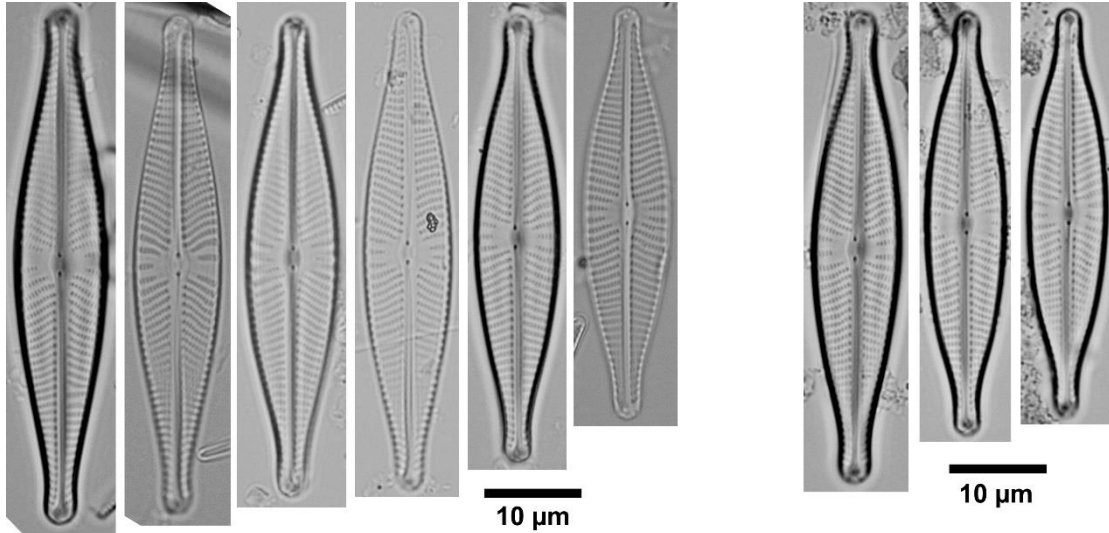
Rott SI s	Rott SI v	Rott TI s	Rott TI v
1.7	2	2.3	1

TDI  
(Kelly & Whitton 1995)

TI-S	TI-V
4	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

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