

# Diatom Flora of the Low Countries

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## ***Navicula slesvicensis* Grunow in Van Heurck 1880**

**Basionym:** *Navicula slesvicensis* Grunow in Van Heurck 1880

**Synonyms:** *Navicula viridula* var. *slesvicensis* (Grunow) Van Heurck 1885

### **Morphology**

Valves usually broadly lanceolate with convex margins and protracted, rostrate, broadly rounded apices. Raphe filiform. Proximal raphe endings almost straight to weakly deflected to secondary side. Central nodule weakly visible, symmetrical. Axial area rather narrow, linear. Central area small, rectangular, always bordered by several shortened striae. Striae strongly radiate, more parallel near the apices. Voigt fault well visible. Lineolae clearly discernible in LM.

### **Morphometrics**

source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data	32-50	9.5-10.5	9	c. 25
Krammer & Lange-Bertalot 1986	25-60	8-11	8-9	c. 25
Lange-Bertalot 2001	25-50	9-11	8-9	c. 25
Potapova & Bahls 2011	36-69	10-12.5	8-9	c. 25
Hofmann et al. 2011	25-50	9-11	8-9	c. 25

### **Related species**

*Navicula rhynchocephala* Kützing (more lanceolate outline, apices long, protracted);  
*Navicula viridula* (Kützing) Ehrenberg (usually larger and broader, central area with more shortened striae, strongly developed asymmetrical central nodule);  
*Navicula viridulacalcis* Lange-Bertalot (valve outline with parallel margins, strongly developed asymmetrical central nodule).

### **Distribution**

Probably widespread

### **Ecology**

Present in eutrophic water, higher electrolyte contents.  
 Alkaline rivers, often in brackish water.

### **Ecological values**

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
4	3	2	2	2	5	3

IPS  
(Cemagref 1982)

IPS-S	IPS-V
3	3

Rott et al. 1997, 1999

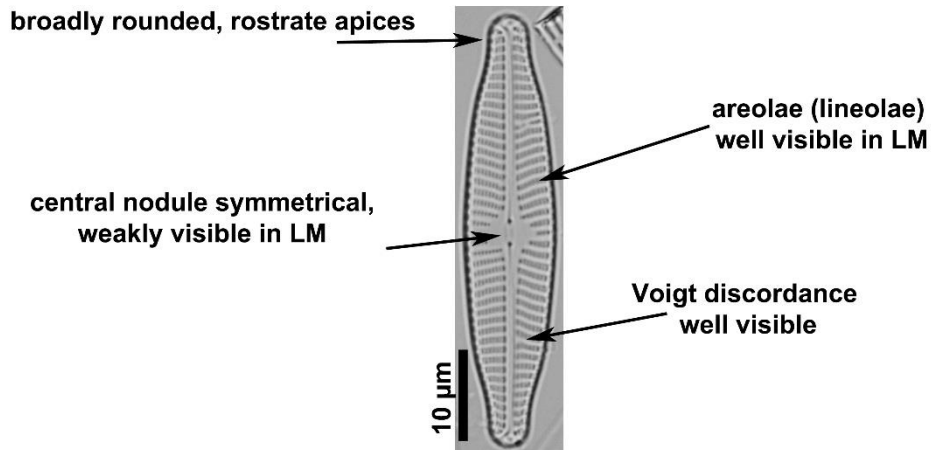
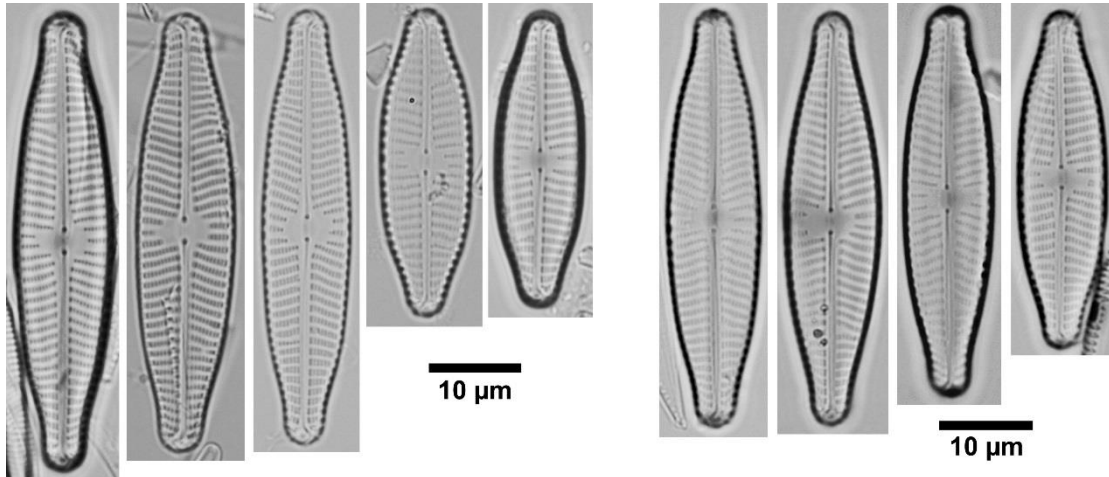
Rott SI s	Rott SI v	Rott TI s	Rott TI v
2	5	3	2

TDI  
(Kelly & Whitton 1995)

TI-S	TI-V
5	1

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## Remarks



Oude Strijper Aa (NL)  
02/06/198

Van Heurck  
Types du Synopsis 131

## References:

- Krammer, K. & H. Lange-Bertalot (1986-2004) Bacillariophyceae. Süßwasserflora von Mitteleuropa 2/1-4. Gustav Fischer Verlag.
- Lange-Bertalot (2001) Diatoms of Europe 2: p. 67, figs p. 324
- Hofmann et al. (2011) Diatomeen im Süßwasser-Benthos von Mitteleuropa p. 400, figs p. 662
- Potapova, M. & L. Bahls, (2011) *Navicula slesvicensis*. In Diatoms of the United States. Retrieved July 02, 2017, from

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[http://westerndiatoms.colorado.edu/taxa/species/navicula\\_slesvicensis](http://westerndiatoms.colorado.edu/taxa/species/navicula_slesvicensis)

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