

# Diatom Flora of the Low Countries

## *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 viridiculacalcis* 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

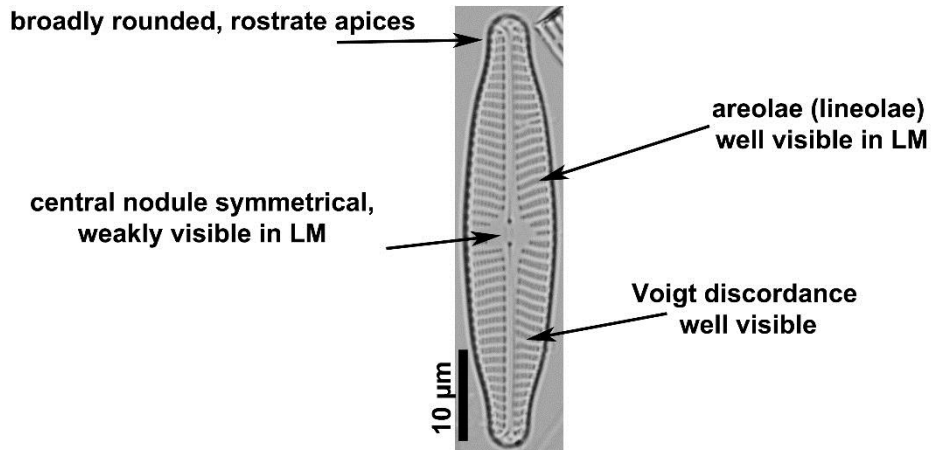
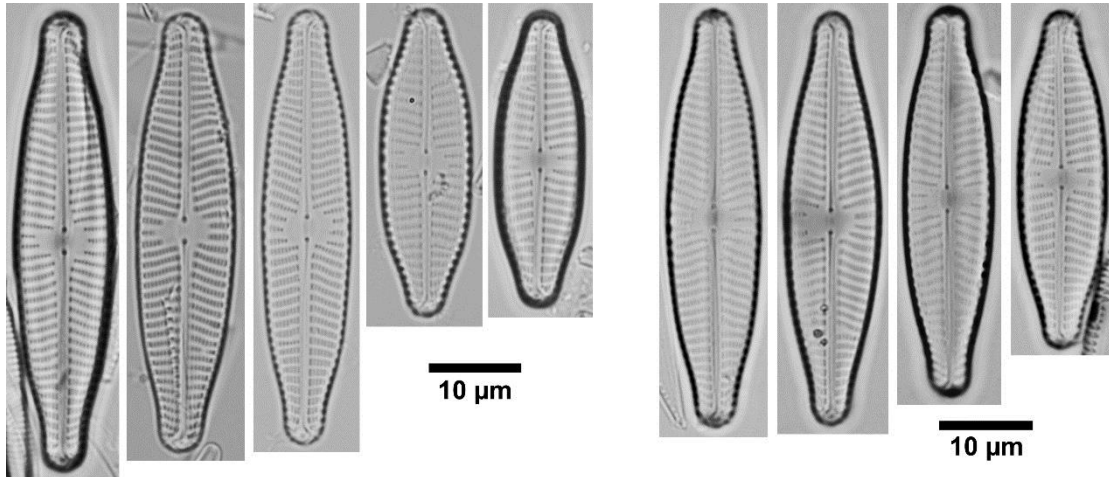
IPS-V	IPS-I
3	3

TDI

TI-V	TI-S
5	1

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## Remarks



Oude Strijper Aa (NL)  
02/06/198

Van Heurck  
Types du Synopsis 131

## References:

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

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