

ON A NEW SPECIES OF *NAVICULA* FROM BIHAR, INDIA

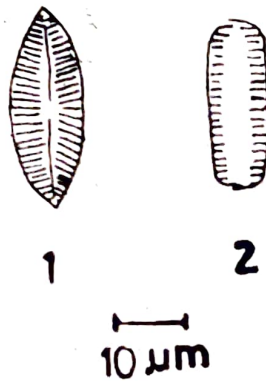
During the course of a study of the Diatom flora of freshwater bodies of Bihar, the authors identified a new species of the genus *Navicula* which is described here.

Description

Navicula lundii sp. nov.

Frustula 28.6-30.3 μm longa et 10.1-11.7 μm lata, elliptica; raphe tenuis et recta cum polis centralibus propinquis et distinctis; area axialis angustissima; area centralis parva, rectangularis; striae radiales 6-8 in 10 μm .

Frustules 28.6-30.3 μm long and 10.1-11.7 μm broad, elliptical; raphe thin and straight with central pores closely set and distinct; axial area very narrow; central area small, rectangular; striations radial 6-8 in 10 μm (Figs. 1-2).



Text-figs. 1-2. *Navicula lundii* sp. nov.; 1. Valve view, 2. Girdle view.

Occurrence—Planktonic in a nala of Karamtoli, Ranchi.

Repository—The material is deposited in the author's personal algal collection no. D 50, Department of Botany, Ranchi University.

This diatom closely resembles *N. confervacea* (Kützing) Grunow (Huber-Pestalozzi, 1942; Hustedt, 1930, 1927-1964; Tiffany & Britton, 1952; Van der Werff & Huls, 1957-1974), but it differs in being considerably larger in size, central area rectangular and very small, transverse striations stout, sharp and very less in 10 μm , hence it is considered to be a new species. This species is named in honour of Dr J. G. W. Lund, F. R. S., Freshwater Biological Association, U. K.

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References

- HUBER-PESTALOZZI, G. (1942). Das Phytoplankton des Süßwassers, Chrysophyceae et Diatomeae II, in *Binnengewasser*, Herg. V. A. Thienemann. **16**, II(2), E. Schweizerbatsche verlagsbuchhandlung (Erwin Nägele), Stuttgart.
- HUSTEDT, F. (1939). Bacillariophyta (Diatomeae) in A. Pascher's *Die Süßwasser—Flora Mitteleuropas*, Heft 10, G. Fisher, Jena.
- HUSTEDT, F. (1927-1964). *Die Kieselalgen Deutschlands, Österreichs und der Schweiz etc.*, in Dr. L. Rabenhorst's *Kryptogamen—Flora*, Heft 7, Teil 1,2 (Lief 1-6), 3 (Lief. 1) Akademische Verlagsgesellschaft M. L. H., Leipzig.
- TIFFANY, L. H. & BRITTON, M. E. (1952). *The Algae of Illinois*, Univ. Chicago Press, Chicago.
- VAN DER WERFF, A. & HULS, H. (1957-1974). *Diatomeenflora van Nederland*, Fasc. 1-10, Koeltz, W. Germany.

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