

Navicula (?) *jejuna*, A. S. (Plate XX. fig. 12.)

We have here represented a frustule whose characteristics almost perfectly coincide with those of the Java form figured in Schmidt's Atlas, Plate xlv. fig. 76. In the latter the extremities, which are somewhat prolonged, are cuneately rotundate, while the ribs are wide and transversely disposed in the middle but subradiating at the ends. In the present case the outline is that of an ellipse of very great eccentricity, yet both forms must be regarded as being specifically identical.

Whether the generic name of *Pinnularia* or *Navicula* should be adopted must for the present remain uncertain.

Navicula (?) *jejuna*, A. S., var. nov. (Plate XXVIII. fig. 11.)

The present figure represents a variety in which the shape of the valve and the character of the striation for the most part agree with the typical species. The difference observable in the central nodule may be explained by the fact that the nodule and raphe are somewhat more raised than usual, and are accordingly seen in a lateral position. It may also be distinguished from the typical frustule figured by A. Schmidt when viewed in profile, being somewhat broader in proportion to its length.

Navicula kerguelensis, n. sp. (Plate XXVIII. fig. 16.)

Parva, elliptica; apicibus cuneato-rotundatis; striis punctulatis subradiantibus; areola media subelliptica transversa. Ad insulam Kerguelen.

This small naviculoid frustule was found in a collection of Diatoms from a sounding made near the island of Kerguelen. Its form is elliptical, and its extremities are cuneately rotundate. The striæ are fine and subradiating, while a subelliptical transverse areola occupies the centre. No type hitherto recorded agrees with this form in its leading characteristics, which has accordingly received a specific name indicative of the locality in which it was obtained.

Navicula lyra, Ehrenb., var. *signata*, A. S. (Plate XXX. fig. 13.)

This figure represents an elliptical and elongated naviculoid frustule, in which the form of the two bands that separate the striated regions indicates an agreement with the *Navicula lyra*¹ of Ehrenberg. Its greatly elongated and hollowed valves, however, render it necessary to regard it as a variety of Ehrenberg's typical species. This view has already been adopted in the case of an identical form by A. Schmidt,² who has named it *Navicula lyra*, Ehrenb., var. *signata*, A. S. The present frustule was obtained in the neighbourhood of the Philippine Islands.

¹ Ehrenberg, Verb. p. 131, pl. i. 1, fig. 9; Gregory, *op. cit.*, p. 13, pl. i. fig. 13; Janisch et Rabenhorst, Hondur., pl. iii. fig. 7, &c.

² Schmidt's Atlas, pl. ii. fig. 4.1