

DIATOMACEÆ.—The following species were observed by Mr. Comber.

STATION 298.

<i>Grammatophora macilenta</i> , Smith.	<i>Coscinodiscus biangulatus</i> , A. Schmidt.
„ <i>undulata</i> , Ehrenberg.	„ <i>janischii</i> , A. Schmidt.
<i>Coscinodiscus lineatus</i> , Ehrenberg.	„ „ var. <i>arafurensis</i> , Grunow.
„ <i>eccentricus</i> , Ehrenberg.	„ <i>apiculatus</i> , Ehrenberg, var. <i>woodwardii</i> .
„ <i>minor</i> , Ehrenberg.	„ <i>concinus</i> , Smith.
„ <i>curvatus</i> , Grunow.	„ sp. (?).
„ <i>subtilis</i> , Ehrenberg.	<i>Paralia sulcata</i> , Cleve.
„ <i>marginatus</i> , Ehrenberg.	<i>Melosira mediterranea</i> , Grunow, var. <i>punctulata</i> , Brun.
„ <i>radiatus</i> , Ehrenberg.	<i>Actinoptylchus areolatus</i> , A. Schmidt.
„ <i>oculus-iridis</i> , Ehrenberg.	„ <i>undulatus</i> , Ehrenberg.
„ <i>obscurus</i> , A. Schmidt.	<i>Hemidiscus cuneiformis</i> , Wallich.

Surface Organisms.—The following species are recorded from the surface in the vicinity of this Station :—

ORGANISMS FROM  
SURFACE-NETS.

RADIOLARIA (Haeckel, Zool. pt. 40).

*Acrosphæra echinoides*, Haeckel.  
*Spongocore puella*, Haeckel.  
*Dicranastrum trifarium*, Haeckel.  
*Sphærocapsa parimentata*, Haeckel.  
*Castanella thomsoni*, Haeckel.

SCHIZOPODA (Sars, Zool. pt. 37).

*Euphausia mucronata*, n.sp.  
*Siriella thompsoni* (M.-Edwards).  
*Euchætomera tenuis*, n.g., n.sp.

COPEPODA (Brady, Zool. pt. 23).

*Centropages brachiatus*, Dana.

TUNICATA (Herdman, Zool. pt. 76).

*Salpa democratica - mucronata*,  
Forskål.

In addition, the following are recorded in the note-books from the tow-nets at the surface and down to 200 fathoms :—*Peridinium* (*tripos* and other species), *Globigerina* and other small Foraminifera, Acanthometræ and Challengeridæ, Infusoria, Medusæ, *Agalmopsis* and other Siphonophoræ, Ctenophoræ, *Sagitta*, *Alciopa*, *Tomopteris*, Aphroditacean and other Annelid larvæ, *Cypridina*, Copepods, *Mysis*, Crustacean larvæ, Pteropods and larvæ, larval Polyzoa (*Membranipora*), *Appendicularia*, small fishes and fish eggs. The tow-net at the weights contained Foraminifera, Challengeridæ and other Radiolaria, &c. The surface water was full of small Infusorial organisms (Tintinnidæ), and two or three bladder-like organisms were noticed, which were probably collapsed *Noctiluca*. The deep-blue colour of the water observed for a long time past gave place to a green colour, and on the whole there was a great change in the general character of the surface fauna, pointing to the nearness of a great continent, similar to what was observed off Japan and elsewhere. On November 18, the water was very green in colour, and the ship occasionally passed through large red or brown patches, which the tow-net showed to be due to immense numbers of red Copepods, Hyperids, and other Crustacea.