

<i>Fragilaria plicata</i> , Brun.	<i>Coscinodiscus symbolophorus</i> , Grunow.	STATIONS 144A TO 145A.
<i>Trachysphenia australis</i> , Petit.	" <i>rothii</i> , Grunow.	
<i>Thalassiothrix nitzschioides</i> , Grunow.	" <i>denarius</i> , A. Schmidt.	
" <i>nordenskioldii</i> , Cleve.	" <i>curvatulus</i> , Grunow, var. <i>recta</i> , Rattray.	
<i>Grammatophora maxima</i> , Grunow, var. <i>genuina</i> , Grunow.	" <i>kutzingii</i> , A. Schmidt, var. <i>glacialis</i> , Grunow.	
" <i>angulosa</i> , var. <i>islandica</i> , Ehrenberg.	" <i>lentiginosus</i> , Janisch.	
"    "    var. <i>hamulifera</i> , Grunow.	" <i>nodulifer</i> , A. Schmidt.	
" <i>stricta</i> , Ehrenberg.	" <i>radiosus</i> , Grunow, var.	
" <i>oceanica</i> , Ehrenberg.	" <i>africanus</i> , Janisch, var. <i>wallichiana</i> , Grunow.	
" <i>subundulata</i> , Grunow.	<i>Hyalodiscus subtilis</i> , Ehrenberg.	
<i>Biddulphia roperiana</i> , Greville.	<i>Podosira maxima</i> , Kutzing.	
<i>Hemiaulus antarcticus</i> , Ehrenberg.	" <i>hormoides</i> , Montagnè.	
<i>Triceratium antediluvianum</i> , van Heurck.	<i>Cyclotella castracanei</i> , Brun.	
" <i>arcticum</i> , Brightwell, var. <i>kerquelenensis</i> , Grunow.	<i>Melosira sol</i> , Kutzing.	
<i>Hemidiscus cuneiformis</i> , Wallich.	<i>Actinocyclus oliverianus</i> , O'Meara.	
<i>Auliscus calatus</i> , Bailey.	<i>Actinopterychus</i> sp. (?)	
<i>Coscinodiscus excentricus</i> , Ehrenberg.	<i>Asteromphalus brookei</i> , Bailey.	
" <i>lineatus</i> , Ehrenberg.	" <i>hookerii</i> , Ehrenberg.	
" <i>tumidus</i> , Janisch.		

**Surface Organisms.**—On the night of December 27, off Prince Edward Island, the tow-net procured:—Many *Salpæ*, larvæ of *Euphausia*, Copepods, several specimens of *Lepas* on a piece of pumice, many specimens of *Hyperia* and *Gammarus*, probably commensalistic and feeding on the *Salpæ*.

ORGANISMS FROM  
SURFACE-NETS.

**Station 146** (Sounding 238), Marion Island to Crozet Islands (see Chart 18).

STATION 146.

December 29, 1873; lat. 46° 46' S., long. 45° 31' E.

Temperature of air at noon, 48°·8; mean for the day, 46°·0.

Temperature of water:—

Surface, . . . . .	43·0	400 fathoms, . . . . .	38·2
50 fathoms, . . . . .	41·1	600 " . . . . .	37·8
100 " . . . . .	39·2	800 " . . . . .	37·2
150 " . . . . .	39·0	1000 " . . . . .	36·6
200 " . . . . .	38·8	Bottom, . . . . .	35·6

Density at 60° F. at surface, 1·02512; bottom, 1·02555.

Depth, 1375 fathoms; deposit, Globigerina Ooze, containing 86·36 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 9.20 A.M. shortened and furled sails, and proceeded under steam to sound and trawl. Put trawl over. At noon sounded in 1375 fathoms. At 1 P.M. took serial