Triceratium arcticum, Brightwell, var. *kerguelensis*, Grunow.
Coscinodiscus lentiginosus, Janisch.
„ *atlanticus*, Castracane.
„ *africanus*, Janisch, var. *wallichiana*, Grunow.
„ *curvatulus*, Grunow.
„ „ var. *subocellata*, Grunow.
„ *centralis*, Ehrenberg.
Coscinodiscus convexus, A. Schmidt.
„ *concinnus*, Smith.
Hyalodiscus radiatus, Petit.
Podosira hormoides, Kutzing.
Paralia sulcata, Cleve.
Actinocyclus oliverianus, O'Meara.
Asteromphalus hookerii, Ehrenberg.
Chætoceros dicladia, Castracane, and its sporangial form, *Dicladia capreolus*, Ehrenberg.

STATION 151.

Surface Organisms.—The following species are recorded from the surface in this locality :— ORGANISMS FROM SURFACE-NETS.

SCHIZOPODA (Sars, Zool. pt. 37).
Thysanoëssa macrura, n.sp.

TUNICATA (Herdman, Zool. pt. 76).
Salpa cylindrica, Cuvier.
„ *runcinata-fusiformis*, Chamisso-Cuvier.

Station 152 (Sounding 256), near Antarctic Ice (see Chart 23 and Diagram 9).

STATION 152.

February 11, 1874 ; lat. 60° 52′ S., long. 80° 20′ E.
Temperature of air at noon, 36°·3 ; mean for the day, 34°·7.
Temperature [1] of water :—

Surface,	34·5	80 fathoms,	32·5
10 fathoms,	34·0	90 „	32·8
20 „	33·5	100 „	32·0, 32·0, 32·0
25 „	31·2	150 „	31·8
30 „	30·0	200 „	35·2, 35·0, 35·8
40 „	30·2	300 „	35·5
50 „	30·5, 32·0		
60 „	32·2		
70 „	32·2		

Density at 60° F. at surface, 1·02512 ; bottom, 1·02561.
Depth, 1260 fathoms ; deposit, Diatom Ooze, containing 22·47 per cent. of carbonate of lime, and pebbles of granite and sandstone (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 2.50 A.M. observed a large iceberg bearing E.S.E., distant about 6 miles ;

[1] At this and other Stations in the south the temperatures given are the actual readings of the thermometers, whereas in other cases the temperatures are taken from the curves (see Report on Deep-Sea Temperature Observations, *Phys. Chem. Chall. Exp.*, part iii.).