

In addition, the following are recorded in the note-books:—Oscillatoriaceæ, *Peridinium*, *Pyrocystis*, *Ethmodiscus* and other Diatoms, *Halosphæra*, *Globigerina*, *Orbulina*, *Hastigerina*, *Pulvinulina*, Medusæ, *Porpita*, *Physalia*, *Verella*, Ctenophoræ, *Sagitta*, *Tomopteris*, Sipunculid larvæ, *Cypridina*, *Copilia*, *Saphirina*, *Euphausia*, *Siriella*, *Lucifer*, *Amphion*, *Halobates*, *Ianthina*, small shells, *Glaucus atlanticus*, *Doliolum*, *Appendicularia*, flying fishes and other small fishes. The tow-net at the weights brought up many Phæodaria and Nassellaria not met with on the surface. Mr. Murray was away in a boat, but there was a slight breeze and organisms were not so plentiful as at the previous Station, but specimens of *Porpita*, *Physalia*, *Verella*, *Ianthina*, and *Halobates* were collected, and a few specimens of *Hastigerina* and Oscillatoriaceæ were observed with the water-glass. A large shark was seen while dredging.

STATION 256.

**Station 257** (Sounding 399), Yokohama to Sandwich Islands (see Chart 36 and Diagram 19).

STATION 257.

July 23, 1875 ; lat. 27° 33' N., long. 154° 55' W.

Temperature of air at noon, 76°·8 ; mean for the day, 73°·4.

Temperature of water :—

Surface, . . . . .	76·5	400 fathoms, . . . . .	41·3
25 fathoms, . . . . .	71·3	500 „ . . . . .	39·5
50 „ . . . . .	65·0	600 „ . . . . .	38·3
75 „ . . . . .	60·0	700 „ . . . . .	37·3
100 „ . . . . .	56·5	800 „ . . . . .	36·7
125 „ . . . . .	53·8	900 „ . . . . .	36·3
150 „ . . . . .	51·8	1000 „ . . . . .	36·0
175 „ . . . . .	50·2	1100 „ . . . . .	35·8
200 „ . . . . .	48·8	1200 „ . . . . .	35·6
225 „ . . . . .	47·4	1300 „ . . . . .	35·4
250 „ . . . . .	46·2	1400 „ . . . . .	35·2
275 „ . . . . .	45·2	1500 „ . . . . .	35·0
300 „ . . . . .	44·2	Bottom, . . . . .	34·9

Density at 60° F. :—

Surface, . . . . .	1·02611	200 fathoms, . . . . .	1·02532
25 fathoms, . . . . .	1·02607	2850 „ . . . . .	1·02539
50 „ . . . . .	1·02598	Bottom, . . . . .	1·02581
100 „ . . . . .	1·02557		

Depth, 2875 fathoms ; deposit, Red Clay.