

STATION 238.

Alciopa and other Annelids, *Saphirina* and other Copepods, Cirriped larvæ, *Squilla* larvæ, *Euphausia*, *Lucifer*, *Atlanta*, Pteropods and other small shells, *Salpa*, *Appendicularia*. The hauls of the tow-net from the surface were quite oceanic in character, but in a haul from 30 fathoms there were many Diatoms, *Noctiluca*, and *Peridinium*, which indicated that the influence of the Japan Stream in transporting brackish-water organisms extended thus far; in a haul from 60 fathoms there were immense numbers of *Doliolum* and small blue *Salpæ*. The absence of *Daphnia*, always present near Japan and abundant on the previous day, was noticeable.

STATION 239.

Station 239 (Sounding 381), Yokohama to Sandwich Islands (see Chart 36 and Diagram 17).

June 19, 1875; lat. 35° 18' N., long. 147° 9' E.

Temperature of air at noon, 72°·5; mean for the day, 72°·0.

Temperature of water:—

Surface,	70·2	400 fathoms,	41·6
25 fathoms,	68·1	500 "	39·0
50 "	64·1	600 "	38·1
75 "	63·4	700 "	37·7
100 "	62·3	800 "	37·4
125 "	60·8	900 "	37·1
150 "	59·1	1000 "	36·9
175 "	57·1	1100 "	36·7
200 "	55·1	1200 "	36·4
225 "	53·2	1300 "	36·1
250 "	51·3	1400 "	35·9
275 "	49·5	1500 "	35·7
300 "	47·7	Bottom,	35·1

Density at 60° F.:—

Surface,	1·02577	200 fathoms,	1·02560
50 fathoms,	1·02585	400 "	1·02526
100 "	1·02575	Bottom,	1·02572

Depth, 3625 fathoms; deposit, Red Clay, containing no carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 8.10 A.M. got up steam, shortened and furled sails, and proceeded under steam. At 10 A.M. sounded in 3625 fathoms. At 1 P.M. obtained serial temperatures down to 1500 fathoms. At 3.30 P.M. completed temperatures and made sail.

Distance at noon from Honolulu, 3011 miles. Made good 157 miles. Amount of current for past two days 35 miles, direction N. 9° E.