

STATION 258.

larvæ of *Chirodota*, *Sagitta*, Aphroditacean and other Annelid larvæ, *Cypridina*, *Setella*, *Euphausia*, *Sergestes*, small Lamellibranchs and other Molluscs, *Atlanta*, Pteropods, *Appendicularia*, and *Doliolum*. One specimen of *Pulvinulina menardii* was observed with a large floating apparatus extended and with much yellow sarcodic matter outside the shell. A good many larvæ of *Chirodota*, Aphroditacean and other Annelid larvæ, and small Lamellibranchs and other larval shells were observed, all of which had not been noticed at the surface for some weeks.

STATION 259.

Station 259 (Sounding 401), Yokohama to Sandwich Islands (see Chart 36 and Diagram 19).

July 26, 1875; lat. 23° 3' N., long. 156° 6' W.

Temperature of air at noon, 80°·0; mean for the day, 76°·4.

Temperature of water:—

Surface,	77·0	400 fathoms,	40·5
25 fathoms,	75·6	500 "	39·3
50 "	72·7	600 "	38·6
75 "	69·5	700 "	37·9
100 "	64·5	800 "	37·4
125 "	59·2	900 "	36·9
150 "	55·0	1000 "	36·5
175 "	51·5	1100 "	36·2
200 "	48·8	1200 "	35·9
225 "	46·5	1200 "	35·6
250 "	45·0	1400 "	35·3
275 "	43·8	1500 "	35·0
300 "	42·9	Bottom,	34·9

Density at 60° F. :—

Surface,	1·02574	300 fathoms,	1·02529
25 fathoms,	1·02550	400 "	1·02529
50 "	1·02571	800 "	1·02523
100 "	1·02572	2150 "	1·02550
200 "	1·02527	Bottom,	1·02577

Depth, 2225 fathoms; deposit, Red Clay, containing only a trace of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 4.30 A.M. furled sails and proceeded under steam to sound. At 5 A.M. sounded in 2225 fathoms. Obtained serial temperatures down to 1500 fathoms. At 1 P.M. completed temperatures and proceeded. Boatswain birds, turnstones, other small birds like turnstones, and a large petrel-like bird were seen about the ship.