

STATION 224.

Station 224 (Sounding 362), Admiralty Islands to Yokohama (see Chart 31 and Diagram 16).

March 21, 1875; lat. $7^{\circ} 45' N.$, long. $144^{\circ} 20' E.$

Temperature of air at noon, $82^{\circ} \cdot 3$; mean for the day, $80^{\circ} \cdot 6$.

Temperature of water:—

Surface,	$81 \cdot 2$	180 fathoms,	$48 \cdot 9$
10 fathoms,	$81 \cdot 5$	190 "	$48 \cdot 6$
20 "	$81 \cdot 1$	200 "	$48 \cdot 3$
30 "	$80 \cdot 6$	300 "	$45 \cdot 7$
40 "	$80 \cdot 0$	400 "	$43 \cdot 4$
50 "	$79 \cdot 5$	500 "	$41 \cdot 3$
60 "	$79 \cdot 0$	600 "	$39 \cdot 5$
70 "	$78 \cdot 1$	700 "	$38 \cdot 2$
80 "	$75 \cdot 0$	800 "	$37 \cdot 2$
90 "	$68 \cdot 5$	900 "	$36 \cdot 7$
100 "	$63 \cdot 2$	1000 "	$36 \cdot 3$
110 "	$59 \cdot 6$	1100 "	$36 \cdot 0$
120 "	$56 \cdot 7$	1200 "	$35 \cdot 8$
130 "	$54 \cdot 3$	1300 "	$35 \cdot 6$
140 "	$52 \cdot 5$	1400 "	$35 \cdot 4$
150 "	$51 \cdot 0$	1500 "	$35 \cdot 4$
160 "	$49 \cdot 9$	Bottom,	$35 \cdot 4$
170 "	$49 \cdot 3$		

Density at $60^{\circ} F.$:—

Surface,	$1 \cdot 02585$	200 fathoms,	$1 \cdot 02556$
10 fathoms,	$1 \cdot 02564$	300 "	$1 \cdot 02556$
25 "	$1 \cdot 02553$	400 "	$1 \cdot 02556$
50 "	$1 \cdot 02569$	Bottom,	$1 \cdot 02567$
100 "	$1 \cdot 02564$		

Depth, 1850 fathoms; deposit, Globigerina Ooze, containing 79.20 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 4 A.M. got up steam. At 5.30 A.M. shortened and furled sails, and at 6 A.M. proceeded under steam. At 7 A.M. sounded in 1850 fathoms. At 8 A.M. put dredge over. At noon obtained serial temperatures down to 1500 fathoms. At 1 P.M. commenced heaving in dredge, which came up at 3.30 P.M. with a large quantity of ooze and a few specimens. Made sail and proceeded towards Japan. During this and the following day gannets were occasionally observed from the ship.

Distance at noon from Faraulep Island, Caroline Islands, 52 miles; from Guam Island, 330 miles. Made good 85 miles. Amount of current 10 miles, direction W.