

STATION 175.

Station 175 (Sounding 305), Fiji to Raine Island (see Chart 27 and Diagram 13).

August 12, 1874 ; lat. $19^{\circ} 2' S.$, long. $177^{\circ} 10' E.$

Temperature of air at noon, $73^{\circ} \cdot 8$; mean for the day, $75^{\circ} \cdot 2$.

Temperature of water :—

Surface,	77·5	600 fathoms,	38·9
50 fathoms,	71·5	700 „	37·9
100 „	70·8	800 „	37·2
150 „	66·0	900 „	36·8
200 „	60·8	1000 „	36·4
250 „	54·2	1100 „	36·2
300 „	47·0	1200 „	36·0
400 „	42·0	Bottom,	36·0
500 „	40·0		

Density at $60^{\circ} F.$:—

Surface,	1·02647	200 fathoms,	1·02647
100 fathoms,	1·02664	Bottom,	1·02633

Depth, 1350 fathoms ; deposit, Globigerina Ooze, containing 44·43 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 6 A.M. shortened and furled sails, and got up steam to sound and trawl. Sounded in 1350 fathoms. At 9 A.M. put trawl over. Obtained serial temperatures, and samples of water for analysis from 100 and 200 fathoms, and bottom. At 3.20 P.M. hove up trawl containing pumice-stones, a few specimens, and a piece of a branch of a tree, about 3 feet long, carbonised (?) at the projecting points. Made all plain sail.

Distance at noon from Api Island, New Hebrides, 574 miles. Made good 17 miles. Amount of current 9 miles, direction S. $81^{\circ} W.$

ANIMALS FROM
TRAWL.

The following species are recorded in the Zoological Reports from the trawl at this Station :—

SIPHONOPHORÆ (Haeckel, Zool. pt. 77).

Diphyopsis angustata (Eschscholtz). Obtained also at Stations 222 and 265 to 279.

CRINOIDEA (Carpenter, Zool. pts. 32 and 60).

Pentacrinus naresianus, n.sp. Two fragments ; obtained also at Stations 170, 171, 210 (?), and 214.