

tube, and certain larvæ which were perhaps to be referred to Aphroditaceans. Moseley found a larva which he considered to be *Tornaria*, the larva of *Balanoglossus*. Crustacea have been very abundant, especially Stomatopod and Decapod larvæ, as well as *Lucifer*, *Sergestes*, nearly all the Hyperidæ, *Saphirina*, *Corycæus*, and *Copilia*. The Euphausidæ tended to disappear as we advanced into warmer water; they were still common off Kandavu, but are now very scarce." STATION 181.

**Station 182** (Sounding 312), Fiji to Raine Island (see Chart 27 and Diagram 13). STATION 182.

August 27, 1874; lat. 13° 6' S., long. 148° 37' E.

Temperature of air at noon, 77°·8; mean for the day, 76°·9.

Temperature of water:—

Surface, . . . . .	78°·5	400 fathoms, . . . . .	41°·0
25 fathoms, . . . . .	77°·0	500 " . . . . .	39°·3
50 " . . . . .	74°·0	600 " . . . . .	38°·3
75 " . . . . .	71°·0	700 " . . . . .	37°·9
100 " . . . . .	67°·5	800 " . . . . .	37°·4
125 " . . . . .	64°·0	900 " . . . . .	37°·0
150 " . . . . .	60°·4	1100 " . . . . .	36°·3
175 " . . . . .	56°·0	1300 " . . . . .	35°·8
200 " . . . . .	52°·0	1500 " . . . . .	35°·8
250 " . . . . .	47°·0	Bottom, . . . . .	35°·8
300 " . . . . .	44°·0		

Density at 60° F. at surface, 1·02619; bottom, 1·02584.

Depth, 2275 fathoms; deposit, Globigerina Ooze, containing 49·90 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 2 P.M. got up steam. At 3.50 P.M. shortened and furled sails, and proceeded under steam to sound. At 4.30 P.M. sounded in 2275 fathoms. Obtained serial temperatures down to 1500 fathoms. At 6.40 P.M. made sail.

Raine Island distant at noon, 309 miles. Made good 111 miles. Amount of current 4 miles, direction N. 45° W.

**Surface Organisms.**—The tow-nets put out while sounding yielded the same results as during the past two days, *Globigerina*, *Orbulina*, and *Pyrocystis* being specially abundant. ORGANISMS FROM SURFACE-NETS.

**Station 183** (Sounding 313), Fiji to Raine Island (see Chart 27 and Diagram 13). STATION 183.

August 28, 1874; lat. 12° 42' S., long. 146° 46' E.

Temperature of air at noon, 79°·8; mean for the day, 77°·4.