

In addition, the following are recorded in the note-books:—*Pyrocystis*, Diatoms, *Globigerina*, *Hastigerina*, *Pulvinulina*, *Cymbalopora* (*Tretomphalus*) *bulloides*, Annelid larvæ, Copepods, *Lucifer*, *Appendicularia*, and *Doliolum*. Two sharks (*Carcharias*) were caught, having *Caligus* and *Echeneis* attached. STATION 262.

**Station 263** (Sounding 405), Sandwich Islands to Tahiti (see Chart 38 and Diagram 19). STATION 263.

August 21, 1875; lat. 17° 33' N., long. 153° 36' W.

Temperature of air at noon, 78°·3; mean for the day, 76°·5.

Temperature of water:—

Surface, . . . . .	77·5	180 fathoms, . . . . .	47·3
10 fathoms, . . . . .	77·5	190 " . . . . .	47·0
20 " . . . . .	77·2	200 " . . . . .	46·7
30 " . . . . .	76·9	300 " . . . . .	43·7
40 " . . . . .	76·0	400 " . . . . .	41·3
50 " . . . . .	73·5	500 " . . . . .	39·5
60 " . . . . .	69·3	600 " . . . . .	38·7
70 " . . . . .	65·5	700 " . . . . .	38·2
80 " . . . . .	62·2	800 " . . . . .	37·8
90 " . . . . .	59·5	900 " . . . . .	37·4
100 " . . . . .	57·2	1000 " . . . . .	37·0
110 " . . . . .	55·5	1100 " . . . . .	36·6
120 " . . . . .	53·8	1200 " . . . . .	36·3
130 " . . . . .	52·5	1300 " . . . . .	36·0
140 " . . . . .	51·1	1400 " . . . . .	35·7
150 " . . . . .	49·9	1500 " . . . . .	35·4
160 " . . . . .	48·9	Bottom, . . . . .	35·1
170 " . . . . .	48·0		

Density at 60° F. :—

Surface, . . . . .	1·02593	2000 fathoms, . . . . .	1·02533
400 fathoms, . . . . .	1·02539	2550 " . . . . .	1·02536
1000 " . . . . .	1·02542	Bottom, . . . . .	1·02544

Depth, 2650 fathoms; deposit, Volcanic Mud, containing no carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 4.30 A.M. furled sails. At 6.30 A.M. sounded in 2650 fathoms. At 7 A.M. put trawl over with tow-net attached and a tow-net at the weights, and veered 3150 fathoms. Obtained serial temperatures down to 1500 fathoms. At 1 P.M. commenced heaving in trawl, which came up empty at 3.45 P.M., having apparently never reached the bottom. At 4 P.M. made all plain sail. Boatswain birds and gannets (?) were seen.

Point Venus, Tahiti, distant at noon, 2116 miles. Made good 103 miles. Amount of current 10 miles, direction S. 60° W.