

Density at 60° F. at surface, 1.02533 ; 1850 fathoms, 1.02534 ; bottom, 1.02546. STATION 290.  
Depth, 2300 fathoms ; deposit, Red Clay.

At 9.20 A.M. shortened and furled sails, and proceeded under steam. At 10 A.M. sounded in 2300 fathoms. Took serial temperatures down to 1500 fathoms. At 1.40 P.M. completed observations and made sail. The following birds were noticed:—*Diomedea exulans*, some white, some mottled brown, and some black, *Diomedea melanophrys* (?), mutton birds (*Æstrelata lessoni*), *Procellaria capensis*, *Prion turtur*, a small black bird about the size of the Cape pigeon, and a larger black bird ; mutton birds were the most numerous.

Valparaiso distant at noon, 2563 miles. Made good 157 miles. Amount of current 11 miles, direction N.

Surface Organisms.—The following species of Radiolaria are recorded from the surface at this Station:—

ORGANISMS FROM  
SURFACE NETS.

RADIOLARIA (Haeckel, Zool. pt. 40).

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| <i>Siphonosphæra chonophora</i> , Haeckel. |  | <i>Tetrapyle transversa</i> , Haeckel.   |
| <i>Amphymenium monstrosum</i> , Haeckel.   |  | <i>Stauraspis xiphacantha</i> , Haeckel. |

In addition, the following are recorded in the note-books:—Small Foraminifera, Medusæ (*Pelagia*), *Sagitta*, *Cypridina*, *Saphirina* and other Copepods, Hyperids and other Amphipods, *Euphausia*, larvæ of *Sergestes*, *Doliolum*, &c.

Station 291 (Sounding 436), Tahiti to Valparaiso (see Chart 38 and Diagram 20). STATION 291.

October 27, 1875 ; lat. 39° 13' S., long. 118° 49' W.

Temperature of air at noon, 56°·3 ; mean for the day, 52°·6.

Temperature of water:—

|                       |      |                        |      |
|-----------------------|------|------------------------|------|
| Surface, . . . . .    | 53.0 | 400 fathoms, . . . . . | 41.4 |
| 25 fathoms, . . . . . | 52.1 | 500 " . . . . .        | 40.1 |
| 50 " . . . . .        | 50.8 | 600 " . . . . .        | 39.2 |
| 75 " . . . . .        | 49.5 | 700 " . . . . .        | 38.3 |
| 100 " . . . . .       | 47.7 | 800 " . . . . .        | 37.5 |
| 125 " . . . . .       | 46.1 | 900 " . . . . .        | 36.8 |
| 150 " . . . . .       | 45.4 | 1000 " . . . . .       | 36.2 |
| 175 " . . . . .       | 44.9 | 1100 " . . . . .       | 35.9 |
| 200 " . . . . .       | 44.4 | 1200 " . . . . .       | 35.8 |
| 225 " . . . . .       | 44.0 | 1300 " . . . . .       | 35.7 |
| 250 " . . . . .       | 43.6 | 1400 " . . . . .       | 35.5 |
| 275 " . . . . .       | 43.3 | 1500 " . . . . .       | 35.4 |
| 300 " . . . . .       | 42.9 | Bottom, . . . . .      | 34.6 |