

STATION 251.

Temperature of water :—

Surface, . . . . .	65·0	400 fathoms, . . . . .	40·0
25 fathoms, . . . . .	58·2	500 " . . . . .	38·5
50 " . . . . .	55·2	600 " . . . . .	37·6
75 " . . . . .	53·5	700 " . . . . .	37·0
100 " . . . . .	52·5	800 " . . . . .	36·8
125 " . . . . .	51·5	900 " . . . . .	36·6
150 " . . . . .	50·5	1000 " . . . . .	36·3
175 " . . . . .	49·4	1100 " . . . . .	36·1
200 " . . . . .	48·2	1200 " . . . . .	35·9
225 " . . . . .	46·9	1300 " . . . . .	35·6
250 " . . . . .	45·4	1400 " . . . . .	35·3
275 " . . . . .	43·7	1500 " . . . . .	35·1
300 " . . . . .	42·8	Bottom, . . . . .	35·1

Density at 60° F. :—

Surface, . . . . .	1·02522	2350 fathoms, . . . . .	1·02544
50 fathoms, . . . . .	1·02528	Bottom, . . . . .	1·02572
100 " . . . . .	1·02536		

Depth, 2950 fathoms; deposit, Red Clay, containing no carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 1.15 P.M. shortened and furled sails. At 1.30 P.M. proceeded under steam, and at 2 P.M. sounded in 2950 fathoms. At 4 P.M. took serial temperatures down to 1500 fathoms. The carbonic acid was determined in three samples of water from the surface, and amounted respectively to 29·1, 27·4, and 27·3 milligrammes per litre. At 5 P.M. completed temperatures, and at 5.15 P.M. made all plain sail. Albatrosses were numerous about the ship, and several were caught, one measuring seven feet three inches from tip to tip of the wings, and weighing 8lbs.; stormy petrels and Mother Carey's chickens were also seen.

Honolulu distant at noon, 1020 miles. Made good 149 miles. Amount of current 5 miles, direction W.

ORGANISMS FROM  
THE DEPOSIT.

DIATOMACEÆ.—The following species of Diatoms were observed by Mr. Comber in the deposit from this Station :—

<i>Coscinodiscus sublineatus</i> , Grunow.	<i>Coscinodiscus centralis</i> , Ehrenberg.
" <i>leptopus</i> , Janisch.	" <i>convexus</i> , A. Schmidt.
" <i>excentricus</i> , Ehrenberg.	" <i>borealis</i> , Bailey.
" " var. <i>minor</i> , Rattray.	" <i>concinus</i> , Smith.
" <i>curvatulus</i> , Grunow.	" sp. (?).
" <i>symbolophorus</i> , Grunow.	<i>Elthmodiscus</i> sp. (?).
" <i>subtilis</i> , Ehrenberg.	<i>Hemidiscus cuneiformis</i> , Wallich.
" <i>marginatus</i> , Ehrenberg.	<i>Campylodiscus costatus</i> , W. Smith.
" <i>radiatus</i> , Ehrenberg.	