

Density at 60° F. :—

Surface,	1·02570	200 fathoms,	1·02563
25 fathoms,	1·02559	300 „	1·02554
50 „	1·02575	400 „	1·02554
100 „	1·02569	Bottom,	1·02569

STATION 268.

Depth, 2900 fathoms; deposit, Radiolarian Ooze, containing only a trace of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 4.15 A.M. shortened and furled sails and got up steam. At 6.45 A.M. sounded in 2900 fathoms. This deposit presented a great similarity in physical as well as microscopical properties to the deepest sounding (Station 225). Obtained serial temperatures down to 1500 fathoms. The carbonic acid was determined in bottom (?) water, and amounted to 34·3 milligrammes per litre. At 1.30 P.M. completed temperatures and made all plain sail. Gannets, boatswain birds, fulmars, and land-birds like snipe were seen.

Venus Point, Tahiti, distant at noon, 1505 miles. Made good 44 miles. Amount of current for the last two days 34 miles, direction E.

RADIOLARIA (Haeckel, Zool. pt. 40).—The following species of Radiolaria were observed in the deposit from this Station :—

ORGANISMS FROM
THE DEPOSIT.

<i>Cenosphaera hexagonalis</i> , Haeckel.	<i>Stauracantium cruciferum</i> , Haeckel.
„ <i>crassa</i> , Haeckel.	<i>Cromyostaurus verticillatus</i> , Haeckel.
„ <i>gigantea</i> , Haeckel.	<i>Hexastylus maximus</i> , Haeckel.
<i>Ethmosphæra conosiphonia</i> , Haeckel.	„ <i>brevispinus</i> , Haeckel.
<i>Sethosphæra entosolenia</i> , Haeckel.	<i>Hexalonche phænaxonia</i> , Haeckel.
<i>Carposphæra melissa</i> , Haeckel.	„ <i>conicornis</i> , Haeckel.
„ <i>melitomma</i> , Haeckel.	„ <i>grandis</i> , Haeckel.
<i>Thecosphæra entactinia</i> , Haeckel.	„ <i>cristata</i> , Haeckel.
<i>Rhodosphæra pentaphylla</i> , Haeckel.	<i>Hexacantium triplosphaerium</i> , Haeckel.
<i>Cromyosphæra scorodonium</i> , Haeckel.	<i>Cubosphæra concentrica</i> , Haeckel.
<i>Caryosphæra hexalepas</i> , Haeckel.	<i>Acanthosphæra tenuis</i> , Haeckel.
<i>Chaenicosphæra flammabunda</i> , Haeckel.	„ <i>brevispina</i> , Haeckel.
<i>Siphonosphæra marginata</i> , Haeckel.	„ <i>conifera</i> , Haeckel.
<i>Trypanosphæra trepanata</i> , Haeckel.	<i>Heliosphæra floribunda</i> , Haeckel.
<i>Solenosphæra pandora</i> , Haeckel.	„ <i>solaris</i> , Haeckel.
„ <i>megalactis</i> , Haeckel.	<i>Cladococcus tricladius</i> , Haeckel.
<i>Otosphæra auriculata</i> , Haeckel.	<i>Haliomma compactum</i> , Haeckel.
<i>Coronosphæra diadema</i> , Haeckel.	<i>Actinomma pachycapsa</i> , Haeckel.
<i>Clathrosphæra arachnoides</i> , Haeckel.	<i>Caryomma regulare</i> , Haeckel.
<i>Xanthiosphæra lappacea</i> , Haeckel.	<i>Ellipsidium artocarpus</i> , Haeckel.
<i>Xiphosphæra hebe</i> , Haeckel.	<i>Ellipsoxiphus attractus</i> , Haeckel.
<i>Xiphostylus gallus</i> , Haeckel.	<i>Ellipsostylus hirundo</i> , Haeckel.
<i>Stylosphæra calliope</i> , Haeckel.	<i>Lithapium monocyrtis</i> , Haeckel.
<i>Spongostylus gladius</i> , Haeckel.	<i>Druppula pandanus</i> , Haeckel.
<i>Staurosphæra christiana</i> , Haeckel.	„ <i>caryota</i> , Haeckel.
<i>Staurolonche brunonis</i> , Haeckel.	<i>Druppocarpus borassus</i> , Haeckel.
„ <i>moleschottii</i> , Haeckel.	<i>Prunulum crenatum</i> , Haeckel.