

STATION 269.

Density at 60° F.:—

Surface,	1·02591	200 fathoms,	1·02560
25 fathoms,	1·02577	400 „	1·02568
50 „	1·02583	800 „	1·02593
100 „	1·02565	Bottom,	1·02571

Depth, 2550 fathoms; deposit, Radiolarian Ooze, containing 20 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 5.30 A.M. stopped to sound and dredge. At 6 A.M. sounded in 2550 fathoms. The high percentage of carbonate of lime at this depth is remarkable, and has only been met with in tropical waters; it is apparently connected with the large number of calcareous organisms in the counter equatorial current. At 7 A.M. put over dredge with tow-net attached and tow-net at the weights, and veered 3000 fathoms. Obtained serial temperatures down to 1500 fathoms. The carbonic acid was determined in bottom water, and amounted to 32·8 milligrammes per litre. At 4 P.M. commenced heaving in dredge. At 7 P.M. dredge came up foul, but the tow-nets contained a little mud and a small fish and some red Crustaceans. Made sail. Boatswain birds, fulmars, gannets, shearwaters, and land birds, like dotterels, were seen.

Distance at noon from Venus Point, Tahiti, 1410 miles. Made good 85 miles. Amount of current 24 miles, direction S. 75° E.

ORGANISMS FROM
THE DEPOSIT.

The following species of Foraminifera, Radiolaria, and Diatoms were observed in the deposit from this Station (see also Murray and Renard, Deep-Sea Deposits Chall. Exp.):—

FORAMINIFERA (Brady, Zool. pt. 22).—The pelagic species, which make up about 85 per cent. of the carbonate of lime present in the deposit, are marked thus ×.

<i>Biloculina depressa</i> , d'Orbigny.	× <i>Pullenia obliquiloculata</i> , Parker and Jones.
<i>Haplophragmium latidorsatum</i> (Bornemann).	„ <i>quingueloba</i> , Reuss.
<i>Thurammia papillata</i> , Brady.	„ <i>sphaeroides</i> (d'Orbigny).
<i>Gaudryina pupoides</i> , d'Orbigny.	<i>Sphaeroidina bulloides</i> , d'Orbigny (?).
<i>Virgulina subsquamosa</i> , Egger.	× „ <i>dehiscens</i> , Parker and Jones.
<i>Cassidulina subglobosa</i> , Brady.	<i>Truncatulina lobatula</i> (Walker and Jacob).
<i>Lagena formosa</i> , Schwager.	„ <i>pygmaea</i> , Hantken.
„ <i>globosa</i> (Montagu).	„ <i>tenera</i> , Brady.
„ <i>gracilis</i> , Williamson.	„ <i>wuellerstorfi</i> (Schwager).
„ <i>laevigata</i> (Reuss).	<i>Pulvinulina exigua</i> , Brady.
„ <i>lagenoides</i> (Williamson), var. <i>tenuistriata</i> , Brady.	„ <i>favus</i> , Brady.
<i>Nodosaria</i> sp. (?).	× „ <i>menardii</i> (d'Orbigny).
× <i>Globigerina dubia</i> , Egger.	× „ <i>tumida</i> , Brady.
× „ <i>sacculifera</i> , Brady.	<i>Rotalia soldanii</i> , d'Orbigny.
× <i>Orbulina universa</i> , d'Orbigny.	<i>Nonionina pompilioides</i> (Fichtel and Moll)
	„ <i>umbilicatula</i> (Montagu).