

<i>Lagena marginata</i> (Walker and Boys).	× <i>Orbulina universa</i> , d'Orbigny.	STATION 168.
„ <i>quadricostulata</i> , Reuss.	× <i>Pullenia obliquiloculata</i> , Parker and Jones.	
„ sp. (?).	„ <i>sphaeroides</i> (d'Orbigny).	
<i>Nodosaria communis</i> , d'Orbigny.	<i>Sphaeroidina bulloides</i> , d'Orbigny.	
„ <i>laevigata</i> , d'Orbigny.	<i>Truncatulina lobatula</i> (Walker and Jacob) (?).	
„ <i>radicula</i> (Linné).	„ <i>tenera</i> , Brady.	
„ <i>simplex</i> , Silvestri.	„ <i>wuellerstorfi</i> (Schwager).	
„ sp. (?).	× <i>Pulvinulina canariensis</i> , d'Orbigny.	
<i>Cristellaria compressa</i> , d'Orbigny.	× „ <i>crassa</i> (d'Orbigny).	
„ <i>reniformis</i> , d'Orbigny.	„ <i>elegans</i> (d'Orbigny).	
„ <i>rotulata</i> (Lamarck) (?).	× „ <i>meliniana</i> d'Orbigny.	
<i>Uvigerina angulosa</i> , Williamson.	„ <i>pauperata</i> , Parker and Jones.	
„ <i>asperula</i> , Czjzek.	<i>Rotalia orbicularis</i> , d'Orbigny.	
× <i>Globigerina aequilateralis</i> , Brady.	„ <i>soldanii</i> , d'Orbigny.	
× „ <i>bulloides</i> , d'Orbigny.	<i>Nonionina umbilicatula</i> (Montagu).	
× „ <i>inflata</i> , d'Orbigny.		

The mud contained a large number of rounded pellets, supposed to be the dung of Holothurians or other Echinoderms.

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

CEPHALOPODA (Hoyle, Zool. pt 44).	TUNICATA (Herdman, Zool. pt. 76).
<i>Calliteuthis reversa</i> , Verrill (?).	<i>Salpa costata - tilesii</i> , Quoy and Gaimard—Cuvier.
	„ n.sp. (?).

Mr. Murray went away in a boat, and shot one specimen of *Diomedea exulans* and two specimens of *Diomedea melanophrys*. There were very few things on the surface, but with a fine net Diatoms, *Peridinium*, small *Globigerinæ* with very long spines, and small Radiolarians, were taken. In the evening the ship passed through a great bank of *Pyrosoma*, which caused a most wonderful exhibition of phosphorescent light on the surface.

Station 169 (Sounding 291), New Zealand to Tongatabu (see Chart 27 and Diagram 12). STATION 169.

July 10, 1874 ; lat. 37° 34' S., long. 179° 22' E.

Temperature of air at noon, 57°·8 ; mean for the day, 58°·0.

Temperature of water :—

Surface,	58·2	400 fathoms,	44·8
100 fathoms,	55·2	500 „	43·0
200 „	50·0	600 „	41·5
300 „	46·7	Bottom,	40·0