

STATION 271.

Sagoscena prætorium, Haeckel.
 „ *debilis*, Haeckel.
Aularia ternaria, Haeckel.
Medusetta spiralis, Haeckel.
Gazelletta macronema, Haeckel.
 „ *orthonema*, Haeckel.

Gazelletta robusta, Haeckel.
Castanella campbelli, Haeckel.
Castanidium willemoesi, Haeckel.
 „ *aldrichi*, Haeckel.
Conchidium leptæna, Haeckel.

In addition, the following are recorded in the note-books:—*Ethmodiscus* and other Diatoms, *Pyrocystis noctiluca* and *Pyrocystis fusiformis*, *Peridinium*, *Globigerina*, *Orbulina*, *Hastigerina*, *Pullenia*, *Sphæroidina*, *Pulvinulina*, Hydroids on Pteropod shells, Echinoderm larvæ, *Sagitta*, Aphroditacean and other Annelid larvæ, Calanids, *Saphirina*, and other Copepods, Hyperids, *Oxycephalus*, *Euphausia*, *Lucifer*, *Sergestes*, *Zoëæ*, *Tiedemannia* [= *Gleba*] and other Pteropods, *Appendicularia*, *Doliolum*. A net sent down to 200 fathoms brought up a few Challengeridæ and many other Radiolaria, along with some very large living Foraminifera, while the tow-net at the weights contained a few Challengeridæ and other deep-water things, a small Scopelid, and a young *Sternoptyx*. Several sharks and many flying fishes were seen.

In one of the Phæodaria (*Conchopsis*) the pseudopodia were seen to ramify through the brownish matter of the phæodium. Some of the Foraminifera shells (*Globigerina*) were filled with zoospores. Most of the *Pullenia* were surrounded by a great mass of yellow sarcode, completely obscuring the shells.

STATION 272.

Station 272 (Sounding 414), Sandwich Islands to Tahiti (see Chart 38 and Diagram 19).

September 8, 1875; lat. 3° 48' S., long. 152° 56' W.

Temperature of air at noon, 80°·8; mean for the day, 78°·8.

Temperature of water:—

Surface,	79·0	180 fathoms,	50·5
10 fathoms,	78·8	190 „	49·8
20 „	78·5	200 „	49·2
30 „	78·2	300 „	44·7
40 „	78·2	400 „	42·2
50 „	78·1	500 „	40·4
60 „	77·5	600 „	39·2
70 „	75·4	700 „	38·2
80 „	71·9	800 „	37·3
90 „	67·3	900 „	36·8
100 „	63·6	1000 „	36·4
110 „	60·4	1100 „	36·0
120 „	57·5	1200 „	35·7
130 „	55·4	1300 „	35·5
140 „	54·0	1400 „	35·3
150 „	52·9	1500 „	35·1
160 „	52·0	Bottom,	35·1
170 „	51·2		