

STATION 282.

At 7 A.M. observed Tubuai Island lying nearly due east, at a distance of 30 miles. At 1.30 P.M. shortened and furled sails, and proceeded under steam to sound. At 2 P.M. sounded in 2450 fathoms. Obtained serial temperatures down to 1500 fathoms. At 5 P.M. completed observations, and at 5.30 P.M. made sail.

Valparaiso distant at noon, 4167 miles. Made good 81 miles. Amount of current 7 miles, direction S.

ORGANISMS FROM
SURFACE-NETS.

Surface Organisms.—The following species are recorded from the surface in the neighbourhood of this Station :—

RADIOLARIA (Haeckel, Zool. pt. 40).

Dicranastrum dichotomum, Haeckel.

Sethoconus trochus, Haeckel.

Stichopterium virgineum, Haeckel.

PELAGIC HEMIPTERA (White, Zool. pt. 19).

Halobates sericeus, Eschscholtz.

PTEROPODA (Pelseneer, Zool. pt. 65).

Clio (Hyalocylix) striata (Rang).

In addition, the following are recorded in the note-books :—*Ceratium (Peridinium) tripos*, Coccospheres, Rhabdospheres, *Globigerina*, *Hastigerina*, Infusoria, Siphonophoræ, *Sagitta*, *Alciopa*, Annelid larvæ, *Cypridina*, *Corycæus*, *Copilia*, *Saphirina*, and other Copepods, Stomatopod larvæ, small shells (*Ianthina* ?), *Salpa*, *Appendicularia*, and small fishes.

STATION 283.

Station 283 (Sounding 428), Tahiti to Valparaiso (see Chart 38 and Diagram 19).

October 9, 1875; lat. 26° 9' S., long. 145° 17' W.

Temperature of air at noon, 68°·3; mean for the day, 66°·0.

Temperature of water :—

Surface,	68·5	400 fathoms,	42·2
25 fathoms,	68·2	500 "	40·3
50 "	68·0	600 "	39·0
75 "	66·5	700 "	38·0
100 "	64·6	800 "	37·3
125 "	62·8	900 "	36·7
150 "	60·3	1000 "	36·3
175 "	57·5	1100 "	36·0
200 "	54·8	1200 "	35·8
225 "	52·0	1300 "	35·6
250 "	49·2	1400 "	35·4
275 "	46·8	1500 "	35·4
300 "	45·4	Bottom,	35·4