

STATION 288.

SCHIZOPODA (Sars, Zool. pt. 37).

Euphausia pellucida, Dana.,, *splendens*, Dana.*Thysanoëssa gregaria*, n.sp.

PTEROPODA (Pelseneer, Zool. pt. 65).

Cuvierina columnella (Rang).

CEPHALOPODA (Hoyle, Zool. pt. 44).

Onychoteuthis sp. (?).

TUNICATA (Herdman, Zool. pt. 76).

Salpa echinata, n.sp.

In addition, the following are recorded in the note-books from the tow-nets, two of which were sent down to 200 fathoms:—*Peridinium*, *Globigerina*, *Hastigerina*, *Pulvinulina*, large Medusæ (*Pelagia*), *Sagitta*, *Alciopa*, *Tomopteris*, *Cypridina*, *Saphirina*, *Copilia*, Hyperids, larvæ of *Euphausia* and other Decapods, *Lucifer*, small shells, *Atlanta*, Pteropods (naked and shelled) and larvæ, *Appendicularia*, *Doliolum*, and small Scopelids with phosphorescent dots and brilliant scales. The Medusæ gave off phosphorescence when touched, apparently from all parts of the body, and the eyes of the *Euphausiæ* became very brilliantly phosphorescent now and then and also when agitated. The specimens of *Pulvinulina micheliniana* were very numerous, and the shells were surrounded by a yellowish-green coloured mass of granular protoplasm. The protoplasmic matter within the shell coloured deeply with carmine. Mixed with the protoplasm surrounding the shells were numerous Coccospheres, Rhabdospheres, and Diatoms.

STATION 289.

Station 289 (Sounding 434), Tahiti to Valparaiso (see Chart 38 and Diagram 20).

October 23, 1875; lat. 39° 41' S., long. 131° 23' W.

Temperature of air at noon, 50°·8; mean for the day, 51°·2.

Temperature of water:—

Surface,	54·5	400 fathoms,	41·2
25 fathoms,	54·0	500 "	39·5
50 "	49·2	600 "	38·2
75 "	48·9	700 "	37·5
100 "	48·3	800 "	37·0
125 "	47·5	900 "	36·7
150 "	46·9	1000 "	36·4
175 "	46·2	1100 "	36·2
200 "	45·6	1200 "	36·0
225 "	45·0	1300 "	35·8
250 "	44·4	1400 "	35·6
275 "	43·8	1500 "	35·5
300 "	43·2	Bottom,	34·8