

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

STATION 280.
ORGANISMS FROM
SURFACE-NETS.

PTEROPODA (Pelseneer, Zool. pt. 65).

Cuvierina columnella (Rang).

In addition, the following are recorded in the note-books :—*Peridinium*, *Ethmodiscus* and other Diatoms, *Hastigerina*, *Acanthometrae* and other Radiolaria, Siphonophoræ, Echinoderm larvæ, *Sagitta*, *Evadne*, *Cypridina*, *Copilia*, *Saphirina*, and other Copepods, *Euphausia*, *Sergestes*, *Lucifer*, *Atlanta*, *Salpa*, *Appendicularia*, small Scopelids. In the stomachs of the *Salpæ* were many Rhabdospheres and Coccospheres. In the tow-nets at the weights and trawl were found a very small Sipunculid (?), a few small red Crustaceans, and one or two small Scopelids. Several dolphins (*Coryphæna*) were seen.

Station 281 (Sounding 426), Tahiti to Valparaiso (see Chart 38 and Diagram 19). STATION 281.

October 6, 1875; lat. 22° 21' S., long. 150° 17' W.

Temperature of air at noon, 75°·3; mean for the day, 74°·0.

Temperature of water :—

Surface,	74·5	400 fathoms,	42·3
25 fathoms,	74·3	500 "	40·5
50 "	73·5	600 "	39·3
75 "	72·1	700 "	38·4
100 "	68·9	800 "	37·5
125 "	65·7	900 "	37·0
150 "	62·5	1000 "	36·5
175 "	59·3	1100 "	36·2
200 "	56·2	1200 "	36·0
225 "	53·1	1300 "	35·8
250 "	50·0	1400 "	35·6
275 "	47·4	1500 "	35·5
300 "	45·6	Bottom,	34·9

Density at 60° F. :—

Surface,	1·02670	300 fathoms,	1·02558
25 fathoms,	1·02665	400 "	1·02547
50 "	1·02667	800 "	1·02564
100 "	1·02645	1900 "	1·02561
200 "	1·02600	Bottom,	1·02628