

STATION 292.

At 1.15 P.M. shortened and furled sails, and proceeded under steam. At 2 P.M. sounded in 1600 fathoms. The sounding-tube had sunk several inches into the deposit and brought up half a litre of the ooze, which was of a brown colour, but on shaking up in water the Foraminifera separated from the red amorphous matter and settled as a white layer at the bottom of the glass. There were a great many particles of palagonite and other volcanic matter, as well as numerous small particles of peroxide of manganese, many of the Foraminifera being studded with grains of this substance. The association of the basic volcanic materials with the manganese in this Globigerina Ooze is suggestive of the origin of the manganese. Put trawl over and veered 2100 fathoms. Obtained serial temperatures down to the bottom. The carbonic acid was determined in water from the surface, and amounted to 36.6 milligrammes per litre. At 6 P.M. commenced heaving in trawl, but at 7.40 P.M. the trawl-rope carried away, and the trawl, tow-nets, and 1600 fathoms of line were lost. Made all plain sail. The usual birds were noticed, and one of the mutton birds was caught.

Valparaiso distant at noon, 2022 miles. Made good 162 miles. Amount of current 13 miles, direction N. 13° E.

ORGANISMS FROM
SURFACE-NETS.

Surface Organisms.—The following are recorded in the note-books from the surface at this Station:—*Peridinium tripos*, *Globigerina*, *Pulvinulina*, *Acanthometræ* and other Radiolaria, *Diphyes* and other Siphonophoræ, *Sagitta*, *Tomopteris*, *Cypridina*, *Copilia* and other Copepods, small shells, *Atlanta*, Pteropods, *Appendicularia*, and *Doliolum*.

The following species are recorded from the surface of the South Pacific in October 1875, the exact locality not being noted:—

AMPHIPODA (Stebbing, Zool. pt. 67).

Pronoe capito, Guérin.

Parapronoë clausi, n.sp.

Brachyscelus latipes, n.sp.

„ *bovallii*, n.sp.

STATION 293.

Station 293 (Sounding 438), Tahiti to Valparaiso (see Chart 38 and Diagram 20).

November 1, 1875; lat. 39° 4' S., long. 105° 5' W.

Temperature of air at noon, 57°·8; mean for the day, 56°·4.

Temperature of water:—

Surface,	53·7	125 fathoms,	46·4
25 fathoms,	52·9	150 „	45·4
50 „	51·7	175 „	44·6
75 „	50·1	200 „	44·1
100 „	48·3	225 „	43·8