

STATION 179.

Lamellibranch and other shells, Heteropoda (*Atlanta*), *Appendicularia*. One thick-shelled *Orbulina* was quite filled with sarcode of a yellowish colour, in which were many greenish and reddish coloured cells, like the yellow bodies in Radiolaria. The sarcode of the *Globigerinæ* had, in addition to yellow granular matter, many cells of a greenish tinge, rounder and smaller than those in *Orbulina*, as well as many orange coloured oil-globules. The endochrome of *Pyrocystis* and *Ethmodiscus* had a yellowish or greenish tinge, and was very similar in both species.

August 22, 23, 1874.

On these dates stormy petrels and larger birds like puffins were seen, while boatswain birds hovered over the ship at a great height, and a flock of sea-birds about the size of terns were noticed at some distance from the ship. On the evening of August 22 a specimen of *Sula piscator* alighted on the cutter and was caught; in its stomach was found a specimen of *Ommastrephes oualaniensis* (see Hoyle, Zool. pt. 44).

Surface Organisms.—The following species are recorded from the surface on August 23 :—

AMPHIPODA (Stebbing, Zool. pt. 67).

Scinæ cornigera (M.-Edwards).

MACRURA (Spence Bate, Zool. pt. 52).

Sergestes rinkii, Krøyer.

Oodeopus serratus, n.g., n.sp.

STATION 180.

Station 180 (Sounding 310), Fiji to Raine Island (see Chart 27 and Diagram 13).

August 24, 1874; lat. 14° 7' S., long. 153° 43' E.

Temperature of air at noon, 77°·8; mean for the day, 76°·6.

Temperature of water :—

Surface,	80·0	600 fathoms,	38·8
50 fathoms,	75·4	700 "	38·3
100 "	72·8	800 "	37·8
150 "	61·8	900 "	37·3
200 "	53·5	1000 "	36·8
250 "	48·5	1100 "	36·4
300 "	45·5	1200 "	36·0
350 "	43·2	1300 "	36·0
400 "	41·5	1400 "	36·0
450 "	40·5	1500 "	36·0
500 "	39·6	Bottom,	36·0