

Foraminifera rare and thin-shelled; belonging to a limited number of species, the most important being *Keramosphæra murrayi*, which has not hitherto been found in any other locality; the rest chiefly *Globigerina* of the small, rounded variety, and *Globigerina inflata*, *Rotalia soldanii*, *Cassidulina crassa* and *Cassidulina subglobosa*, *Verneuilina pygmæa*, and *Reophax scorpiurus*.

STATION 160.—March 13, 1874. Lat. 42° 42' S., long. 134° 10' E. Depth, 2600 fathoms; bottom temperature, 0°·2 C.; red clay.

Reddish brown mud, leaving scarcely any residue after washing. Contains a large number of Radiolaria. The Foraminifera, which are of common *Globigerina* ooze species, nearly all rotten and disintegrating.

- I. STATIONS 162 to 196, *South Pacific, from Melbourne to Sydney, thence to Wellington, New Zealand, and by Cook Strait and Kermadec Island to Fiji; thence through Torres Strait, and by the Moluccas, to the Equator, at about long. 126° E.*

STATION 162.—April 2, 1874. Off East Monocœur Island, Bass Strait. Depth, 38 to 40 fathoms; sand.

Coral-sand, with remains of Hydrozoa, Polyzoa, and molluscan shells. Rich in shallow-water types, such as *Miliolina* and *Spiroloculina*, *Textularia*, *Polymorphina*, *Discorbina*, and *Rotalia*. Amongst the rarer species which occur are *Miliolina triquetra*, *Textularia folium*, *Textularia inconspicua*, *Discorbina opercularis*, *Discorbina biconcava*, and *Rotalia clathrata*.

STATION 163 B.—April 17, 1874. Port Jackson. Depth, 2 to 10 fathoms. Sand, with shells and fragments of coral.

STATION 163 C.—April 20, 1874. Port Jackson. Depth, 6 fathoms; black muddy sand.

The general character of the Rhizopoda of these two samples is very similar. The Milioline genera are largely represented, together with *Peneroplis*, *Lagena*, *Rotalia*, *Polystomella*, and especially *Discorbina*. A single specimen of *Bulimina williamsoniana* and one of *Polystomella imperatrix* are amongst the rarer species;—the latter is common, and attains fine dimensions at some points on the coast of Tasmania.