

STATION 323.

Distomum, *Tomopteris*, Annelid larvæ (like *Balanoglossus*), small Planarian, *Saphirina* and other Copepods, Hyperids, larvæ of *Sergestes* and *Lucifer* (?) and other Decapod larvæ, *Ianthina* and other small shells and egg-clusters (of *Ianthina* ?), *Atlanta* and other Heteropods, various species of Pteropods, *Appendicularia*, *Doliolum*, and larval fishes. A tow-net sent down to 150 fathoms yielded a few Oscillatoriaceæ, a single *Pulvinulina*, *Tomopteris*, and *Cypridina*. The tow-net at the weights and one of the tow-nets at the trawl were full of mud, but the second tow-net at the trawl had very little mud in it, and contained many arenaceous and other Foraminifera (*Globigerina* and *Pulvinulina menardii*), some of the larger specimens of the latter being quite surrounded by sarcodæ, while some of the bottom-living forms (such as *Discorbina* and *Rupertia*) were alive and attached to the surface of Polyzoa and worm-tubes; the tow-net contained besides large living Challengeridæ, large *Sagittæ*, red shrimps, and other surface and deep-water organisms.

STATION 324.

Station 324 (Sounding 474), Rio de la Plata to Tristan da Cunha (see Chart 16 and Diagram 6).

February 29, 1876; lat. 36° 9' S., long. 48° 22' W.

Temperature of air at noon, 67°·0; mean for the day, 69°·5.

Temperature of water:—

Surface,	71·5	600 fathoms,	38·1
10 fathoms,	69·7	700 "	37·5
20 "	69·6	800 "	37·0
30 "	69·5	900 "	37·0
40 "	69·3	1000 "	37·0
50 "	68·8	1100 "	37·0
75 "	64·0	1200 "	37·0
100 "	60·0	1300 "	37·0
125 "	56·5	1400 "	37·0
150 "	53·8	1500 "	37·0
175 "	50·8	1800 "	37·0
200 "	48·0	2000 "	36·0
225 "	45·0	2200 "	33·3
250 "	42·5	2400 "	32·6
275 "	41·5	2500 "	32·6
300 "	40·6	2600 "	32·6
400 "	39·4	2700 "	32·6
500 "	38·6	Bottom,	32·6

Density at 60° F. at surface, 1·02603; bottom, 1·02600.

Depth, 2800 fathoms; deposit, Blue Mud, containing 4·04 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).