

STATION 147.

not the case ; all these parts are of the ordinary size, the breeding lamellæ are, of course, wanting, and the pleopods are stronger than in the female. There would be no male character were it not for the presence of a pair of small styliform penes behind the last pair of pereopods, as in the higher Decapods. I have not been able to make out what parts of the body are used in this transformation, as the pleopoda, the first pair of which assumes this function in the *Macrura*, seem to be normal in size and number. This species will be described as *Petalophthalmus inermis* [= *Boreomysis scyphops*]. The same modification of male characters was found in another Schizopod taken to-day, in which the pleopoda were fully developed ; the gills, however, were absent, and the number of ambulatory pereopoda was the same as in the Mysidæ, so that it may be regarded as a very aberrant Mysid near *Petalophthalmus*, connecting that genus with the rest of the Schizopods. I think I shall call it *Crozetia mysidiformis* [= *Amblyops crozetii*]. The large size of the Fusoid reminds one of the dimensions attained by certain groups of animals in extreme climates. Some of the Macruri seem to me to be the same as those taken in deep water between Gibraltar and Madeira."

STATION 147A.

Station 147A (Sounding 240), off Crozet Islands (see Chart 20).

January 1, 1874 ; lat. 46° 45' S., long. 50° 42' E.

Temperature of air at noon, 41°·8 ; mean for the day, 41°·9.

Temperature of water at surface, 41°·0.

Density at 60° F. at surface, 1·02503.

Depth, 600 fathoms ; deposit, Diatom Ooze, containing 36·34 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 2 A.M. sounded in 100 fathoms, no bottom. At 4.30 A.M. sounded in 90 fathoms, no bottom. At 10.45 A.M. sounded in 300 fathoms, no bottom. The land was obscured by a thick fog. At 2 P.M. sounded in 600 fathoms. At 4 P.M. lost sight of Penguin Island in a fog. During the day white and black albatrosses, carrion gulls, king and numerous other penguins, prions, and stormy petrels round the ship.

Distance at noon from Penguin Island, 19 miles (?). Made good 53 miles. Amount of current 16 miles, direction S. 20° E.

ORGANISMS FROM
SURFACE-NETS.

Surface Organisms.—The water was quite red-coloured, due to innumerable red Copepods, which were captured in so thick a mass that it was impossible to see the other animals ; *Sagitta*, *Hyperia*, and other organisms were, however, present. The red colour of the water, mentioned in the Indian Ocean Directory as occurring among the islands in these latitudes, is probably due to these small Copepods.