

on the other hand, young ones from the specimen taken at Station 232 showed the dactyloptera well developed, the fourth joint of the third peræopods considerably longer than the distal breadth, and the distal margin divided as in *Phronima atlantica*, Guérin, Pl. CLX., fig. *prp.*3, ♀; but then these specimens proved to be a little more than a tenth of an inch long, and when one was examined that was not more than a tenth of an inch, the distal margin of the fourth joint of the third peræopods was found to be armed only with a minute front tooth, just as in the specimens taken at a distance of 83° to the south. To give a full account of the Challenger specimens would demand a treatise by itself. It may be of interest, here, without the treatise, to mention the various localities at which specimens of the genus were obtained, whatever the species may be to which they respectively belong.

Station 103, August 22, 1873; off Sierra Leone; lat. 2° 52' N., long. 17° 0' W. (*Phronima pacifica*, see p. 1348).

Station 106, August 25, 1873; east of St. Paul's Rocks; lat. 1° 47' N., long. 24° 26' W.; surface to 40 fathoms; surface temperature, 78°·8. Two specimens, female.

September 29, off Rio Janeiro; lat. 19° 6' S., long. 35° 40' W.; surface, night; surface temperature, 74°·7. One specimen.

Station 130, October 3, 1873; south-east of Rio Janeiro; lat. 26° 15' S., long. 32° 56' W.; surface temperature, 69°.

Station 131, October 6, 1873; South Atlantic; lat. 29° 35' S., long. 28° 9' W.; surface temperature, 65°. One male specimen, mounted in Canada balsam. Length, seven-twentieths of an inch. Flagellum of the upper antennæ with very long first joint, followed by six small joints; flagellum of lower antennæ with twelve long slender joints; of the second uropods the inner ramus almost as long as the outer. The third peræopods have the square form of wrist, with the hand projecting but little beyond it (? *Phronima pacifica*).

Station 132, October 10, 1873; South Atlantic; lat. 35° 25' S., long. 23° 40' W.; surface temperature, 58°. One male specimen, mounted in Canada balsam. Length, half an inch. The antennæ and uropods nearly as in the specimen from Station 131; the third peræopods with the wrist longer than broad, like that figured for the *female* of *Phronima atlantica* on Pl. CLX., the hand projecting much beyond the wrist.

Station 158, March 7, 1874; in the Southern Ocean; lat. 50° 1' S., long. 123° 4' E.; depth, 1800 fathoms; bottom temperature, 33°·5; surface temperature, 45°. One specimen, an inch long, female, with eggs (? *Phronima novæ-zealandiæ*, see p. 1356). A *Phronima*-house.

March 9 and 10, 1874; south of Australia; lat. 48° 18' S., long. 130° 4' E.; surface; surface temperature, 50°. One large specimen, female, in its house, with numerous young. One empty *Phronima*-house.

Station 159, March 10, 1874; south of Australia; lat. 47° 25' S., long. 130° 22' E.; surface temperature, 51°·5.