

of H.M.S. Challenger; and on Crustacea observed during the cruise of H.M.S. Challenger in the Southern Seas. (Read March 16, 1876.) Proceedings of the Royal Society of London. Vol. XXIV. London, MDCCCLXXVI. pp. 569-592.

On page 570 he refers to the capture of "a large female of *Cystisoma Neptunus*," on the way from Gibraltar to Madeira. In the "List of the land animals collected in the Tristan d'Acunha group," for Crustacea, he gives, p. 585—

"1. *Oniscus*, everywhere under stones; 2. *Gammarus*, everywhere under stones."

After describing, page 587, a gigantic Ostracod brought up by the deep-sea dredging between Prince Edward Island and the Crozets, he says, "this is not the only example, however, of gigantic forms in the deep sea, for the same trawlings brought up two specimens (from 1375 and 1600 fathoms) of a Gammarid Amphipod, the larger of which has a length of 60 millims. and a height of 35 millims. Though we now know that certain Hyperids (*Cystisoma Neptunus*, both sexes of which we found in the Atlantic, and described in the Phil. Trans. 1873; see also Trans. Linn. Soc. 1875, 2nd ed. Zool. i. p. 24) attain the considerable length of more than 4 inches, these transparent and elongated animals do not make such an impression as the Gammarids, which are besides in no way peculiar, being perfectly normal, and approaching perhaps most the genus *Typhimedia*. I shall therefore give later a more accurate description of them, and *here only direct attention to the fact that in the deep sea, as well as in the sedimentary strata, animals are found which, compared with their relations living now-a-days, and in shallow water, are of a very considerable size*; and I may perhaps best in this place add that in this dredging of 1375 fathoms a Nymphoid (Pycnogonid) was got measuring nearly *two feet across the legs*." The Gammarids referred to I have described under the name *Andania gigantea*. The genus *Typhimedia* is probably an error for *Iphimedia*.

On page 589 he says, "In Kerguelen Island, where we stayed nearly a month, much shallow-water dredging took place in the different harbours, most of which was done by Professor Wyville Thomson himself, while I was on shore collecting the land animals of the place. There is no *Gammarus* with terrestrial habits nor any *Oniscus* to be found in these barren islands, animals which still exist on the Tristan d'Acunha Islands." Nevertheless, for Amphipods found on the rocky beaches of Kerguelen, see Note on S. I. Smith, 1874.

On page 590, he says, still referring to Kerguelen, "the Crustacea inhabiting the shallower water are several species of *Serolis*, *Sphæroma*, *Arcturus*, some Gammarids, several species of *Caprella*, one of which has a very slender and long manus, and some Pycnogonida. There is scarcely anything interesting to be found in that zone [going from a few fathoms down to forty]. In the second zone [40-120 fathoms] of deeper water (though not deep-sea fauna, which we scarcely ever have found in less than 500 fathoms) we had a richer harvest; *Tanais* and *Praniza*, very curious Amphipods, Mysids, and *Nebalia* are the inhabitants, about which I shall now say a few words."

The long-handed *Caprella* is no doubt the species since named *Dodecas elongata*.

In this second zone, with a larger species of *Serolis*, "an Amphipod occurred, a Gammarid, distinguished by a bright *red frontal prolongation* of the head and having no eyes. These I first thought might be discovered in some form or other in the red proboscis; but my expectations were not justified by the results of the dissection. The organ is divided by a line along its top into a right and left portion. The chitinous layer has got no facettes, and the whole organ is filled by a finely granulated red pigment. What its function may be I cannot say, having never met with anything like it." This is no doubt the species named *Cediceropsis rostrata*, in the Annals and Magazine of Natural History for March 1883, but transferred to a new genus, *Cediceroides*, in this Report.

On page 591 he says, "between Kerguelen and Heard Islands we dredged in 150 fathoms, but