

The structure of the external tissue is reticulate throughout, which is especially noticeable in the rhipidura and dorsal crest.

The rostrum corresponds somewhat to that of *Sergestes spiniventralis*, but the ventral surface is not armed with a series of projecting teeth.

North-east of the island of Juan Fernandez and about five hundred miles due west of Valparaiso, another specimen of *Sergestes* was trawled at a depth of more than a mile and a half, associated with specimens of *Willemæsia*, *Pentacheles*, and *Glyphocrangon*. It is a mutilated specimen, but the existing parts correspond with those preserved of *Sergestes profundus*, and as they are the only specimens in the collection that are recorded from so considerable a depth, they are probably of the same species, and the description of one may interpret the form of the other. The portion of the animal preserved is as far back as the extremity of the second somite of the pleon with the appendages, but the body is too compressed and disfigured to say more than that it is generally free from external adornment.

The rostrum is similar to that of the specimen from Station 137, and corresponds in form, but in a less pronounced degree, with that of *Sergestes spiniventralis*.

The ophthalmopoda are about one-fourth of the dorsal length of the carapace, and somewhat clavate, but the ophthalmus is not of greater diameter than the stalk.

The first pair of antennæ has the first joint of the peduncle longer than the ophthalmus, and the second and third joints subequal in length, and together as long as the first joint; the flagella are broken off.

The second pair of antennæ has the flagellum also wanting; the scaphocerite is as long as the peduncle of the first pair, moderately broad, and armed with a small tooth at the outer distal extremity.

The mandible is furnished with a long and slender synhipod that reaches beyond the frontal margins of the carapace and as far as half the length of the terminal joint of the second pair of antennæ.

The oral appendages, so far as I have been able to examine them without dissection, appear to correspond with those of *Sergestes prehensilis*.

The first pair of gnathopoda is well developed and of generic value only; the three anterior free joints are fringed on the posterior margin, and the three distal joints on the anterior margin, with long hairs.

The second pair of gnathopoda are broken off at the coxal joint, which is broad and robust.

The first pair of pereopoda is moderately long, and furnished with a prehensile apparatus at the ultimate articulation. The second pair of pereopoda is long and stout, probably as long as the animal, the distal joints being fringed with long hairs. The third pair of pereopoda is similar to, but rather longer than the second. The fourth pair is very nearly as long as the third, reaching beyond the carpal joints of the propodos;