

armed on the outer surface with a broad sharp-pointed stylocerite; the second and third joints are short and cylindrical, reaching to a level with the apex of the rostrum, and supporting two unequally sized flagella.

The second pair of antennæ carries a scaphocerite that is about half as long again as the rostrum, and slightly tapers to the extremity, where it is abruptly truncated at a level with a small external tooth.

The second pair of gnathopoda reaches to the extremity of the rostrum but falls short of that of the scaphocerite; it has the terminal joint long, narrow, and lanceolate, and nearly as long as the preceding.

All the other appendages are damaged, so as to be valueless in specific diagnosis.

*Observations.*—The specimens are males and females, and the antero-lateral processes on the ventral plates of the posterior three somites of the pleon are well developed. The pleopoda are long, those of the first pair having the internal or foliaceous petasma broad, while the second pair carries a thick stylamblys attached to the main branch, the third and fourth pairs carrying one that is small and slender.

*Nematocarcinus gracilis*, n. sp. (Pl. CXXXII. fig. 8).

Body slender, rostrum horizontal and short, being about one-fourth the length of the carapace, and armed on the upper surface with about twenty spinules and teeth and with one large tooth near the apex on the lower margin.

Scaphocerite more than half the length of the carapace, and nearly twice as long as the rostrum.

Third pair of pereopoda longer than the entire animal.

Telson as long as the outer branch of the rhipidura.

|                             |   |   |   |   |   |                   |
|-----------------------------|---|---|---|---|---|-------------------|
| Length, entire (male),      | . | . | . | . | . | 59 mm. (2.3 in.). |
| „ of carapace,              | . | . | . | . | . | 15 „              |
| „ of rostrum,               | . | . | . | . | . | 4 „               |
| „ of pleon,                 | . | . | . | . | . | 44 „              |
| „ of third somite of pleon, | . | . | . | . | . | 9 „               |
| „ of sixth somite of pleon, | . | . | . | . | . | 10 „              |
| „ of telson,                | . | . | . | . | . | 11 „              |

*Habitat.*—Station 174c, August 3, 1874; lat. 19° 7' 50" S., long. 178° 19' 35" E.; off Kandavu, Fiji Islands; depth, 610 fathoms; bottom, coral mud; bottom temperature, 39°. Two specimens, males. Associated with *Nematocarcinus paucidentatus* and *Pentacheles*. Trawled.

Station 171, July 15, 1874; lat. 28° 33' S., long. 177° 50' W.; north of the Kermadec Islands; depth, 600 fathoms; bottom, hard ground; bottom temperature, 39°.5. One specimen, damaged. Trawled.