

Length, entire (male),	. . . . .	116 mm. (4.5 in.).
„ of carapace,	. . . . .	39 „
„ of rostrum,	. . . . .	25 „
„ of pleon,	. . . . .	77 „
„ of third somite of pleon,	. . . . .	13 „
„ of sixth somite of pleon,	. . . . .	13 „
„ of telson,	. . . . .	19 „

Habitat.—Tahiti. From a river at Papeuriri. Five specimens, full-grown males. Length, about 125 mm. (5 in.).

Kandavu and Ovalau, Fiji Islands. Twenty-three specimens; twenty-two males, one female. Length, male, 110 mm. (4.3 in.); female, 69 mm. (2.7 in.).

Pasananca, Mindanao, and near Samboangan, Philippine Islands. Five specimens; four full-grown males, and one female. Length, male, 125 mm. (5 in.); female, 78 mm. (3 in.).

Banda Island. Three specimens, females. Length, 52 mm. (2 in.).

Observations.—This species and that described by Olivier, under the name of *Palæmon ornatus*, are probably identical with that which Fabricius named *Palæmon longimanus*, and Milne-Edwards says that it has been taken at Amboina, Waigou, and several places in the Indian Ocean. A considerable number was brought home by the Challenger from the localities given above; and a close comparison of the numerous specimens leads to the conclusion that they all belong to the same species, although those from each locality show a variation in some unimportant feature that is peculiar to them alone.

Most of those procured from the river Papeuriri in Tahiti are about 125 mm. long, measured from the margin of the orbit to the extremity of the telson, and the long chelate second pair of pereiopoda is 275 mm. in length, or one-third longer than the animal.

The dorsal surface is of a purple colour, and it is probable that the whole animal may have been of a similar hue before it was placed in spirits, excepting probably the long arms, which are darker, the digital processes being almost black.

The finest specimen from Tahiti is rather larger, being 15 mm. longer and more robust, and the only trace of the purple colour that remains is to be found on the posterior margin of the teeth on the rostral crest. The long arms are of a brownish colour, deepening to a purple on the long, digital processes of the chela, and they are about 220 mm. in length. Those obtained at Ovalau and Kandavu are smaller, being only 110 mm. long, and not quite so robust. The chelate pereiopoda are about the same length, and of a brownish colour, the digital processes having the colour broken into spots. The purple hue still remains on the posterior margin of the teeth on the rostral crest.