

*Penæus velutinus*, Dana (Pl. XXXIII. fig. 1).*Penæus velutinus*, Dana, U.S. Explor. Exped., Crust., p. 604, pl. xl. fig. 4.

Body tomentose. No carina on the posterior half of the carapace. Rostrum straight, lanceolate, the lower margin smooth, ascending anteriorly to the extremity, armed on the upper margin with eight equidistant teeth, and one posteriorly remote. Pleon dorsally carinated from the second somite to the posterior extremity of the sixth, which terminates in a small tooth. Eyes short, large, ovate. Peduncle of the first pair of antennæ reaching as far as the extremity of the rostrum. Flagella short, not longer than the last two joints of the peduncle. Scaphocerite of the second pair of antennæ not extending beyond the rostrum. First pair of pereopoda armed with one tooth on the basis, and one on the ischium, second pair with one on the basis. Telson as long as the outer ramus of the rhipidura, not carinated nor channelled, terminating in a sharp styliform point, and armed on each side with four long, articulated spines and one rigid spiniform tooth.

Length, 75 mm. (3 in.).

*Habitat*.—Station 188, September 10, 1874; lat. 9° 59' S., long. 139° 42' E.; south of New Guinea; depth, 28 fathoms; bottom, green mud. Twenty-five males, eighteen females, two young.

Station 184, August 29, 1874; lat. 12° 8' S., long. 145° 10' E.; between Australia and New Guinea, near Torres Strait; depth, 1400 fathoms; bottom, Globigerina ooze; bottom temperature, 36°. Two specimens; females. Length 36 mm.

Station 186, September 8, 1874; lat. 10° 30' S., long. 142° 18' E.; between Cape York and Arrou Islands; depth, 8 fathoms; bottom, coral mud. Two specimens, a male and female. Length, male 40 mm., female 58 mm.

Station 187, September 9, 1874; lat. 10° 36' S., long. 141° 55' E.; Torres Strait; depth, 6 fathoms; bottom, coral mud. Two females, of a redish hue. Length of largest, 64 mm.

Station 190, September 12, 1874; lat. 8° 56' S., long. 136° 5' E.; south of New Guinea; depth, 49 fathoms; bottom, green mud. Twelve females, seven males. Length, male 62 mm., female 44 mm.

Near Station 190, between that and 191 (September 18, 1874), a single specimen was taken with *Penæus anchoralis*.

Station 233, May 17, 1875; lat. 34° 39' N., long. 135° 14' E.; channel between the Japanese Islands; depth, 8 fathoms; bottom, mud. Eleven females, ten males. Length 65 mm.

Station 234, June 3, 1874; lat 32° 31' N., long. 135° 39' E.; depth, 2675 fathoms; bottom, blue mud; bottom temperature, 35°.8. Two females. Length, 60 mm.