FRESH-WATER AMPHIPODS FROM PERU.

By Ada L. Weckel.

Oak Park High School, Oak Park, Illinois.

The single species of fresh-water Amphipod was taken in vast abundance at Lake Titicaca, July 30, 1908, underneath small rocks along shore of Isla Blanca (near Puno).

HYALELLA KNICKERBOCKERI (Bate).

Allorchestes kniekerbockeri Bate, Cat. Amph. Crust. Brit. Mus., 1862, p. 36, pl. 6. Hyalella kniekerbockeri Weckel, Proc. U. S. Nat. Mus., vol. 32, 1907, p. 54, text fig. 15, and synonymy.

Eyes round or nearly so; interspace slightly greater than their diameter. First antennæ shorter than second; first two segments of peduncle about equal, slightly longer than third; flagellum about twice as long as peduncle and composed of seven to nine segments; second antennæ about half as long as body; peduncle exceeding that of first pair, the two distal segments elongated and nearly equal; flagellum usually but little longer than in first pair, composed of eight to fifteen segments.

First gnathopods in male more than half as broad as long; lateral margins strongly curved and furnished with minute spinules; palm transverse, concave at middle, provided with a few small teeth and short hairs at posterior angle and a tuft of long stiff hairs at anterior one; dactyl strongly curved, shorter than palm. First gnathopods in female closely resemble those in male.

Second gnathopods of male much longer than first ones; carpus not longer than broad, a long, narrow lobe along posterior margin of propodus; propodus stout, more than half as broad as long, much broadened distally, especially in mature specimens; anterior margin convex; posterior one straight, oblique, and unarmed; palm oblique, middle portion slightly arcuate, with a notch near middle and one or two slight emarginations at posterior angle; provided with a submarginal row of spines; palm in immature specimens transverse, emarginations very slight, dactyl not so strongly curved as in adult.

Second gnathopods of female slender and weak; carpus and propodus elongated and much narrower than in male; carpus more than twice as long as broad, posterior projection proportionally not so great as in male; propodus more than twice as long as broad; palm forming less than a right angle with posterior margin, furnished with fewer submarginal spines than in male; dactyl not strongly curved and fitting palm closely.

Posterior margins of coxal plates of third, fourth, and fifth peræopods serrate.

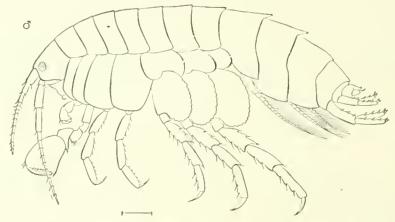


FIG. 1.—HYALELLA KNICKERBOCKERI, MALE X 12. MADISON, WISCONSIN. AFTER SMITH.

Postero-lateral angles of first two abdominal segments slightly produced, forming less than a right angle; first two or three segments usually produced dorsally, forming a well-marked median posterior tooth. Telson short, entire, as broad as long, furnished distally with a slender seta at each side.

First uropods almost twice as long as second pair; third pair very short, not exceeding basal segment of second pair in length; peduncle short, nearly as broad as long, furnished distally with a few hairs; the single ramus slender, tapering, about equal in length to peduncle and provided with a few slender setæ at tip.