

W.—Face carinate.....see XIII.

WW.—Face tuberculate, or rounded, not carinate.

X.—Face of male less tuberculate than in female, body uniformly black, without markings.

Y.—Hind tibiae of male with a strong projecting spine in middle.

Teuchocnemis.

YY.—Hind tibiae of male without such spine.....***Pterallastes.**

XX.—Face alike in both sexes, abdomen in male at least (except *Mallota*) not uniform.

Z.—Hind coxae with spur, duller in the female, hind femora with triangular protuberance, hind tibiae with terminal spur (♂ abdomen mostly red, ♀ nearly black).....**Polydonta.**

POLYDONTA CURVIPES (Wied.), Aus. Zwei. ii, 149, 3. O. S. West. Dipt., 338. New England! California. The probability is that the species somewhat doubtfully referred to this by Osten Sacken, l. c., is the same.

ZZ.—Hind legs without such spurs or protuberances.

a.—Third joint of antennae broad, face concave below the antennae (thorax not vittate, thickly pilose) abdomen without bands.....**Mallota.**

MALLOTA SACKENI, sp. nov.

Mallota posticata O. Sacken, West. Dipt., 338.

♂. Differs from *M. (?) posticata* of the Eastern States in a dark brown spot on the wing, in the marginal cell being closed in the border, and in the eyes of the male not being contiguous, otherwise quite like the Eastern species.

Frontal triangle and face gray with yellow pile, broad facial stripe and cheeks deep black, shining; antennae black, third joint more or less brownish. Dorsum of thorax and pleurae with long dense yellow pile, scutellum yellow, similarly pilose, abdomen deep shining black, nearly bare, legs deep black, with black pile, middle and posterior tarsi brownish-red, posterior femora very much thickened. Wings hyaline with a large brown spot, reaching from the origin of the third vein to the small cross-vein, the second longitudinal enters the costa at tip of the first, not at some distance beyond, as in the specimens I have of the Eastern species. Long. corp. 14mm. Washington Territory. Two specimens.

aa.—Third joint of antennae ovate, face excavated or not below the antennae, thorax, or at least abdomen, with markings....**Helophilus.**

HELOPHILUS LATIFRONS Lw., Cent. iv, 73. Wyo.! Northern States, Nebraska, California.

HELOPHILUS MEXICANUS Macq. (*H. polygrammus* Lw. Cent. x, 55. See also O. Sacken, Catalogue, Errata.) Apparently a very common species. I have seventeen specimens from Washington Territory and California.

HELOPHILUS, sp. A small species from Wyoming, apparently undescribed.