

1. Body granulate ; rostrum with a long spine ; palpi tapering, straight ; last joint of leg iv. not swollen.....*L. plumipes*.
Body with scales or flattened hairs.....2.
2. Frontal tubercle with short spines ; last joint of leg iv. swollen.....*L. plumifer*.
Frontal tubercle with very long spines ; last joint of leg iv. not swollen.....*L. Halleri*.

LUCASIELLA, Banks.

Rhyncholophus, Lucas (in part), 1864.

Macropus, Birula (preoccupied), 1893.

Eatonia, Cambridge (preoccupied), 1897.

L. plumipes, Lucas, 1864—Algeria, Tunis, Corfu, Spain, Isle of Jersey.

Eatonia scopulifera, Cambr., 1897.

L. plumifer, Birula, 1893—Russian Armenia.

L. Halleri, Banks, 1899—Switzerland.

R. plumipes, Haller (nec Lucas).

NEW GENERA AND SPECIES OF EPHYDRIDÆ.

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Psilopa flavida, n. sp. ♂.—Yellow, polished, the third joint of antennæ, except the lower side, dark brown ; hairs and macrochætæ black, a vitta reaching from humerus to insertion of wing, and another on middle of pleura, black ; abdomen, except first segment and middle of the second, black, with a strong violaceous tinge ; knob of halteres greenish yellow ; wings grayish hyaline, unmarked ; two pairs of dorso-central macrochætæ ; length 2.5 mm. New Bedford, Mass. A single specimen collected by Dr. Garry de N. Hough. Type No. 4292, U. S. Nat. Museum.

Psilopa varipes, n. sp. ♀.—Black, polished, the third antennal joint brown, its base yellow, knob of halteres white, middle and hind tibiæ and their tarsi yellow, apices of the tarsi brown ; head, thorax and scutellum tinged with green, the mesonotum and scutellum slightly scabrous, less polished than the head and pleura, only one pair of dorso-centrals ; wings hyaline, the hind crossvein distinctly clouded with brown ; length 2 mm. Vancouver Isd., Brit. Columbia. Three specimens collected by Mr. C. Livingston. Type No. 4293, U. S. Nat. Museum.

Psilopa similis, n. sp. ♂ ♀.—Black, the third antennal joint brownish, knob of halteres white ; all coxæ, femora, middle and hind

tibiæ and their tarsi, yellow; head and pleura highly polished, the abdomen less so, mesonotum and scutellum subopaque, slightly scabrous, thinly gray, pruinose, one pair of dorso-centrals; wings hyaline, both cross veins clouded with brown, broad apex of wing also brown; length 2 mm. Biscayne Bay, Fla. (Mrs. A. T. Slosson), and Opelousas, La. (Mr. G. R. Pilate). Five specimens. Those from the last named locality are in the collection of Dr. Garry de N. Hough, to whom I am indebted for the privilege of examining these and other specimens belonging to this family. Type No. 4294, U. S. Nat. Museum.

Hyadina albovenosa, n. sp. ♀.—Black, the under portion of the third antennal joint, palpi, and tarsi except the last joint, yellow, the halteres whitish; face, cheeks and lower part of occiput opaque gray pruinose, remainder of occiput slightly polished, front highly polished, mesonotum and scutellum slightly less so, one pair of dorso-centrals, pleura thinly whitish pruinose, abdomen opaque brownish pruinose, the broad lateral margins and the fifth segment highly polished, genitalia light gray; wings grayish hyaline, the cross veins distinctly clouded with white. Length 1 mm. Tifton, Ga. (Oct., 1896), and Opelousas, La. (March, 1897). Three specimens collected by Mr. G. R. Pilate. Type No. 4295, U. S. Nat. Museum.

Gastrops nebulosus, n. sp. ♂ ♀.—Black, the antennæ, except the upper edge and sometimes broad apex of the third joint, apex of proboscis, stem of halteres, and tarsi, except the last joint, yellow; tibiæ reddish-brown; head, thorax and scutellum polished, sparsely covered with brownish pruinose spots, one pair of dorso-centrals; abdomen lustrous, tinged with bronze, coarsely punctured; wings hyaline, mottled with light and dark brown, a dark brown cloud on the cross veins, one below apex of the first vein, another midway between apices of first and second veins, one at apex of second vein covering a stump of a vein that projects into the submarginal cell from the second vein a short distance before its apex; apices of third and fourth veins bordered with brown, that on the third extending more than half way to apex of second vein, where it is considerably expanded; a faint brown cloud in the outer fourth of the first posterior cell, and one near centre of the second posterior cell; length 2 to 3 mm. N. C. and Tifton, Ga. (Oct.–Nov., 1896). Nine specimens; those from Ga. were collected by Mr. G. R. Pilate, and are in Dr. Hough's collection. Type No. 4296, U. S. Nat. Museum.

Nostima, n. gen. Hydrellinæ.--Second joint of antennæ destitute of bristles, arista with long pectinations on the upper side; two pairs of vertical bristles, a strong pair of ocellars, situated between the two upper ocelli, three pairs of extremely small fronto-orbitals forming a row along each eye; face strongly projecting forward below, in profile slightly concave to the lowest seventh, then strongly retreating to the oral margin, three bristles near each lower corner of the face; eyes densely pubescent. Thorax bearing two pairs of dorso-centrals, no bristly hairs between them, only a few on any portion of the thorax; two notopleural and a small sternopleural macrochaetæ, two pairs on the scutellum. Abdomen composed of five segments, of which the second is as long as the three following taken together, the latter subequal in length. Legs destitute of long bristles. Venation normal, the costa is continued to the tip of the fourth vein, apex of second vein slightly nearer tip of the third than to the first, last two sections of fourth vein subequal in length. Type, the following species:

Nostima Slossonæ, n. sp. ♀.—Black, opaque, the legs polished, the under side of the third antennal joint, the tarsi except the last joint, and a band near the middle of each hind tibia, yellow; face gray pruinose, a small brown spot near the centre, front blackish brown, an ocellar dot, the upper corners and narrow orbits, gray; mesonotum gray pruinose, marked with five dark brown vittæ, pleura black, a gray streak near the middle of the front part, and another on the upper edge of the sternopleura; scutellum black, the front corners gray, metanotum and abdomen black, a pair of gray spots on the third, fourth and fifth segments; wings dark brown, the costal cell and the marginal cell adjoining it almost wholly white, a white spot covering a stump of a vein nearly midway between apices of first and second veins, a similar spot before, and another at the apex of the second vein, one near the apex of the submarginal cell, another in the first posterior cell slightly more remote from its apex than the above, one on the fourth vein opposite the one in the first posterior cell, one near the apex of the discal cell, and one on the opposite side of the fifth vein; a white spot on the small cross vein, one at each end of the hind cross vein, a nearly triangular spot in extreme apex of the first posterior cell, and a large one at the first third of this cell, a narrow one on the opposite side of the third vein, a whitish streak near base of discal cell, and another near centre of the third posterior cell; length nearly 1 mm. Biscayne Bay, Florida. A single specimen collected by Mrs. Annie T. Slosson, to whom this handsome species is respectfully dedicated. Type No. 4297, U. S. Nat. Museum.

Paratissa, n. gen. Notiphilinae.—Second joint of antennæ covered with very short, stout bristles, and with a longer one, directed forward, at the upper angle of the inner side, arista with long pectinations on the upper side; two pairs of vertical bristles, an ocellar pair situated slightly lower than the two upper ocelli, a second pair placed a little lower than the lowest ocellus, also a third pair nearly midway between these and the lower edge of the front, the three pairs directed forward; four pairs of fronto orbitals, placed in a row along each eye, the upper pair the smallest, the two upper pairs directed outward, the others forward; face slightly projecting forward at the oral margin, in profile gently concave, bearing two macrochætæ near each lower corner, several stout bristles along the lateral oral margin, cheeks scarcely one-seventh as broad as height of eyes. Thorax bearing two pairs of dorso-centrals, one intra-alar, three supra-alar, one præsutural, one humeral, two notopleural, two mesopleural and one sternopleural macrochætæ; short, bristly hairs of mesonotum numerous and arranged in quite regular rows, two of which are between the dorso-centrals; scutellum covered with short, bristly hairs and bearing three pairs of macrochætæ, the intermediate pair less than half as long as the anterior pair. Abdomen composed of five segments in the male, six in the female. Tibiæ destitute of long bristles. Venation normal, costa reaching apex of fourth vein, apex of second vein slightly beyond middle between first and third veins, penultimate section of fourth vein two-thirds as long as the last section. Type *Drosophila pollinosa*, Williston, from St. Vincent, West Indies; three specimens were taken by Mrs. A. T. Slosson, at Biscayne Bay, Florida.

Ephydra austrina, n. sp. ♂ ♀. — Front in the middle polished bronze green, very thinly brownish pruinose, sparsely covered with short bristly hairs and with a pair of stout macrochætæ a short distance above the antennæ; an oval depression below the lowest ocellus, sides of front opaque brown pruinose, the narrow orbits gray, two fronto-orbitals each side; face near the upper edge green, polished, thinly grayish pruinose, remainder of face opaque brownish gray pruinose, the macrochætæ fringing the anterior oral margin few and rather short; antennæ black, the third joint destitute of a long lateral hair; proboscis grayish black, the apex yellowish, palpi brown; body green, mesonotum polished, thinly brown pruinose, five pairs of dorso-centrals, pleura greenish gray pruinose, a brown spot near the centre; abdomen subopaque, thinly gray pruinose; second, third and fourth segments in the male subequal in length, each slightly shorter than the fifth; femora green, tibiæ greenish brown, all thinly gray pruinose, knees yellowish, tarsi brown, not enlarged in either sex; wings hyaline; halteres yellow; length 4 to 5.5 mm. Georgiana, Florida. Nine specimens, collected by Mr. William Wittfeld. Type No. 4299, U. S. Nat. Museum.