

## NEW ASILIDAE FROM INDIA (INSECTA : DIPTERA).

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In the present paper are described a number of new species of Asilidae contained in a collection loaned by the Indian Museum, through the kindness of Dr. H. S. Pruthi, Zoological Survey of India, Indian Museum, Calcutta, India. To Dr. Pruthi and Dr. Chopra of this institution, the writer is greatly indebted for the opportunity of studying this collection. Thanks are also due to Mr. C. H. Curran and others on the staff of the American Museum of Natural History for valuable assistance.

The types are deposited in the Indian Museum. In addition, an annotated list of the flies of this family present in the above-mentioned collection is included.

### I. ASILINAE.

#### *Asilus ricardo*, sp. nov.

Total length, 18 to 21 mm. A yellowish-brown pollinose species with three broad black stripes on the mesonotum. Legs black. Wings pale brownish. Genitalia deep black.

*Male*.—Head black, pale yellowish-brown pollinose. Mystax mostly yellowish-brown with a few black bristles above. Antennae black with black bristles. Bristles of vertex and occiput black. Beard yellow. Palpi black with yellowish hairs. Thorax yellowish-brown pollinose. Mesonotum with three broad black stripes above, the median extending to the scutellum. Hairs and bristles of pleura and coxae yellowish. Legs black with fine appressed yellowish hairs and black bristles. Mesonotum with black hairs and bristles. Scutellum grayish-yellow pollinose, with fine yellowish hairs on disc and long upturned bristles on the margin, some black, some yellowish. Halteres pale reddish. Wings pale brownish. Abdomen uniformly yellowish-brown pollinose with concolorous hairs and bristles. Hypopygium deep black. Forceps simple, not wider than seventh segment when viewed from above. Hairs black.

*Female*.—Similar. Ovipositor black, not longer than sixth and seventh segments together.

*Holotype* ♂  $\frac{625}{H6}$ .— Simla, Western Himalayas, in jungle. viii-ix.25. B. N. Chopra. *Allotopotype* ♀  $\frac{626}{H6}$ . Four *paratopotypes* ♂ ♂  $\frac{627-630}{H6}$ .

This species is placed in the genus *Asilus* (*sens. lat.*), its nearest affinity being with *Machimus*. *Asilus ricardo*, sp. nov. is closely related to *Asilus orientalis* Ricardo, but is smaller, slenderer and the pale vestiture lighter in colour than that of *orientalis*.

**Machimus (Tolmerus) punjabensis**, sp. nov.

Total length, 20 mm. A black species, ashy-gray pollinose, with black legs. The abdomen with the first segment, the anterior border of the second and the posterior borders of the second to seventh broadly ashy-gray pollinose.

*Female*.—Head black, whitish pruinose. Palpi black with black hairs. Antennae black with black bristles. Bristles of vertex and occiput black. Beard white. Mystax pale yellowish-white with a few black bristles. Thorax black, grayish-white pollinose. A broad dark median stripe with an ashy-gray pollinose longitudinal streak anteriorly. Bristles of mesonotum black, fine hairs mostly black, those above wings grayish-white. Scutellum grayish-pollinose with fine black hairs on disc and black bristles and white hairs on margin. Hairs of pleura and coxae whitish. Legs black with black bristles and finely appressed whitish hairs. Wings hyaline, slightly grayish towards the apex. Halteres yellowish. Abdomen black with fine black hairs above. Bristles on margin and sides of first segment black. Bristles on succeeding segments white. One or two on second segment black. White hairs on side of first segment. First segment, anterior border of second and posterior borders of succeeding segments grayish-white pollinose. Ovipositor black, just a trifle longer than the seventh segment.

*Holotype* ♀  $\frac{631}{H6}$  —Binnu Khad, below Dak Bungalow at Baijnath, 3,000 ft., Kangra Valley, Punjab. 10.vi.26. S. L. Hora.

**Machimus (Tolmerus) incisularis**, sp. nov.

Total length, 10 to 12 mm. A small black species with incisures of abdominal segments narrowly whitish pollinose. Legs black.

*Female*.—Head black, whitish pollinose. Antennae black with black bristles. Bristles of vertex and occiput black. Beard white. Mystax composed of whitish and blackish bristles. Palpi very small, with a few whitish hairs. Thorax black, whitish pollinose on sides. Mesonotum very pale brownish pollinose with black bristles posteriorly. Pleura with white hairs. Scutellum narrow with some black bristles on the margin and minute black hairs on the disc. Legs shining black with scattered black and white bristles. Minute scattered pile white. Wings hyaline, grayish towards the tips. Abdomen black, with black bristles along sides of segments. Posterior margins narrowly whitish pollinose. First segment and base of second grayish pollinose. Ovipositor black, not longer than seventh segment.

*Holotype* ♀  $\frac{632}{H6}$ .—Birch Hill, Darjiling Dist., 6,000 to 7,000 feet. 1.vii.1914. Lord Carmichael's Collection. *Paratype* ♀  $\frac{633}{H6}$  Ghumti, Darjiling Dist., 1,500 to 5,000 feet. vi.1914. Lord Carmichael's Collection.

**Machimus hirsutus**, sp. nov.

Total length, 13 to 14 mm. A small, robust, hairy, dark brownish pollinose species; legs with contrasting black and yellowish-brown longitudinal markings.

*Male*.—Head black, brownish pollinose. Mystax thick, with black bristles above and a few white ones below. Antennae black with black hairs. Bristles of vertex and occiput black. Beard white. Palpi black with black hairs. Thorax dark brown pollinose. Mesonotum with a broad black median line and black bristles. Thickly set black bristles and hairs. Scutellum black, brownish pollinose, with long black hairs and marginal bristles. First two coxae with whitish hairs. Wings pale brownish with a dark brown area in the sub-costal and marginal cells. Legs black. Exterior aspect of femora, tibiae and tarsi yellowish-brown. Most of the hairs on legs black. Abdomen black. Black hairs predominating. A few pale hairs on first and second segments. Posterior margins narrowly grayish-brown pollinose. Hypopygium black, forceps simple, brownish pollinose with black hairs.

*Female*.—Similar. Ovipositor slightly longer than segments six plus seven. Piceous.

*Holotype* ♂  $\frac{634}{H6}$ .—Gorge below Dak Bungalow, Dumpep, Khasi Hills, Assam. xi.26. S. L. Hora. *Allotopotype* ♀  $\frac{635}{H6}$ . Same data. *Paratopotype* ♂.

#### **Machimus subgenitalis**, sp. nov.

Total length, 15 to 16 mm. A black hirsute species, grayish-brown pollinose. Legs contrastingly marked longitudinally with black and reddish-brown.

*Male*.—Head black, whitish pollinose. Mystax mostly black, few yellowish-white bristles intermingled. Beard yellowish-white. Palpi black-haired. Antennae black with black hairs. Bristles of vertex and occiput black. Thorax black, grayish-brown pollinose. Mesonotum with a broad black median line. Pleura with pale hairs. Mesonotum with black hairs and black bristles. Scutellum brownish pollinose with long black marginal bristles. Coxae with pale hairs. Legs black with external aspect reddish-brown. Bristles mostly black, some white. Fine hairs whitish. Wings pale brownish, nearly hyaline. Abdomen grayish-brown pollinose. Incisures slightly lighter. Hairs on venter black, many on dorsum whitish. Many of the bristles on lateral and posterior portions of tergites whitish. Genitalia black with black hairs. The tips of the forceps prolonged into a narrow process projecting downward subterminally. The ventral portion of the hypopygium dark reddish-brown, thickened.

*Female*.—Similar. Ovipositor piceous, about the length of segments four to seven inclusive.

*Holotype* ♂  $\frac{637}{H6}$ .—Round about Hurst Cottage, Bakrota Hill, Dalhousie, 7,000 feet, Punjab. S. L. Hora. *Allotopotype* ♀  $\frac{638}{H6}$ . Same data.

#### **Machimus infra femoralis**, sp. nov.

Total length, 15 to 16 mm. A black species, grayish-brown pollinose, with femora contrastingly marked with black and yellowish-brown.

*Male*.—Head black, grayish pollinose. Mystax composed of black bristles and numerous yellowish-white bristles below. Beard whitish.

Palpi black with black hairs, occipital bristles black. Antennae black with black bristles. Bristles of vertex black. Thorax black, grayish pollinose. Mesonotum with broad black median and two lateral spots. Hairs and bristles black. Scutellum grayish-brown pollinose, marginal black bristles. Hairs of pleura whitish and a patch of black bristles behind the wings. Coxae with whitish hairs. Femora with anterior portion black. Posterior aspect yellowish-brown. Tibiae and tarsi yellowish-brown, the posterior darker towards the tip. Hairs of legs whitish. Bristles black. Wings nearly hyaline. Abdomen black, grayish pollinose. Hairs and bristles mostly whitish. Few black bristles around the posterior margin of first segment. Hypopygium very small, dark brown above, reddish-brown below. Upper forceps curved downwards at the tips.

*Female*.—Similar. Ovipositor brownish, slightly longer than segments six *plus* seven.

*Holotype* ♂  $\frac{639}{H6}$ .—Kalimpong, Darjiling Dist., 600 to 4,500 feet, Eastern Himalayas. 24.iv-10.v.1915. F. H. Gravely. *Allotopotype* ♀  $\frac{640}{H6}$ . Same data.

#### **Machimus inutilis**, sp. nov.

Total length, 12 mm. A grayish pollinose species with hyaline wings. The hypopygium longer than segments five to seven. The upper forceps with the long slender process at the tips projecting backwards, but curved in slightly so that they appear to meet from above.

*Male*.—Head black, grayish-white pollinose. Mystax black with a few white bristles intermingled. Beard bushy, whitish. Palpal hairs black; hairs on vertex whitish; occipital bristles black. Antennae black with black bristles. Thorax black, grayish-white pollinose. Mesonotum with the usual markings, and with black bristles and hairs. Scutellum grayish pollinose with white hairs and black marginal bristles. Femora black on anterior portion, yellowish-brown on posterior aspect, the tip of the front femora yellowish-brown. Front tibiae yellowish-brown, other tibiae similarly coloured, but with the external aspect darker. Tarsi dark yellowish-brown. Legs with mostly light hairs, some black and some pale yellow bristles. Abdomen grayish-brown pollinose with pale hairs predominating. Hypopygium black, brownish pollinose with fine black hairs and pale hairs intermingled.

*Holotype* ♂  $\frac{641}{H6}$ .—Round about Hurst Cottage, Bakrota Hill, Dalhousie, 7,000 feet, Punjab. S. L. Hora.

#### **Neolophonotus indicus**, sp. nov.

Total length, 10.5 mm. A small black species, brownish pollinose, with pale yellowish hairs on the scutellum.

*Female*.—Head black. Antennae black with black bristles. Mystax extending from antennae to oral margin, black above and on sides yellowish-brown in the anterior and lower portion. Occipital bristles black curving forward over ocellar tubercle. Beard yellowish-white. Thorax black, grayish-brown pollinose on sides, yellowish-brown pollinose above. Mane black with yellowish hairs on the side. Scutellum with

a thick tuft of upturned yellowish hairs. Legs black with fine long yellowish pile and black bristles. Wings nearly hyaline with a slight iridescent tint. Abdomen black with fine yellowish hairs and some black hairs above. Ovipositor black, blade-like, slightly shorter than lengths of segments five to seven.

*Holotype* ♀  $\frac{642}{H6}$ .—Amarkantak, 3,300 feet, Rewa State. 30.i.27  
H. S. Pruthi.

***Neoitamus khasiensis*, sp. nov.**

Total length, 18 mm. A black species, grayish pollinose, with legs contrasting black and yellow.

*Female*.—Head black, pale golden pollinose. Mystax mostly black, some white bristles below. Antennae black with black hairs. Bristles of vertex and occiput black. Beard white. Palpi black with black hairs. Thorax black, yellowish-brown pollinose. Bristles and hairs on mesonotum black. Hairs on pleura white. Scutellum grayish-brown pollinose with black marginal bristles and fine white hairs on disc. Wings hyaline, grayish towards tips. Halteres pale brown. Coxae with pale yellowish hairs. Femora yellowish with a black line on the upper anterior side. Tibiae yellowish with black tips. Tarsi black, the anterior portion of the basal tarsus on the first two pairs of legs yellowish. Abdomen black, yellowish-brown pollinose with pale hairs and bristles. Ovipositor beginning with the fifth segment, long, slender, laterally compressed.

*Holotype* ♀  $\frac{643}{H6}$ .—Near Dak Bungalow, Mawphlon, Khasi Hills, Assam. 12.iv.27. Gopi Ram.

***Astochia canis*, sp. nov.**

Total length, 28 mm. A large, robust black species, ashy-gray pollinose, with legs contrasting black and reddish-brown.

*Female*.—Head as broad as thorax from above. Facial prominence little developed. Antennae black with black hairs. The third joint oval. The arista almost three times as long as the third joint. Head pale yellowish, whitish pollinose. Occipital with fine white pile and black bristles. Hairs on vertex white, bristles black. Mystax sparse, white. Palpi dark brown with some black hairs and some white hairs. Beard white. Pronotum with white hairs and black bristles. Thorax black, grayish-white pollinose. Pleura covered with fine white hairs. Mesonotum with many fine white hairs and black bristles posteriorly. Some fine black hairs on disc. Scutellum grayish-white pollinose, black bristles on margin, fine white hairs on disc. Wings brownish along costal margin and towards apex. Halteres brownish. Coxae grayish-white pollinose with white hairs and a few black ones intermingled. Femora of first two pairs of legs reddish-brown, black above. Posterior femora mostly black. Tibiae of first two pairs of legs reddish-brown, black at the apex. Posterior tibiae black. Tarsi deep black; first segment slightly thickened, with rather thickly set black bristles. Legs with fine white hairs and black bristles. Abdomen black, grayish pollinose. Sides of third and fourth segments brownish pollinose. Sides of abdomen with fine white pile. Few black bristles

on the sides of the first segment. Fifth segment narrowing sharply posteriorly. The ovipositor beginning with the sixth segment, long, black and laterally compressed.

*Holotype* ♀  $\frac{644}{H6}$ .—Kamaing, Myitkyina Dist., Upper Burma. xi-xii.26. B. N. Chopra.

**Promachus ghumtiensis**, sp. nov.

Total length, 25 mm. A black species, yellowish-brown pollinose, with black legs, reddish tibiae. Wings dark brownish. Hypopygium small, black with black hairs.

*Male*.—Head black, yellowish-brown pollinose. Antennae black with black hairs. The third segment missing. Mystax black with some yellowish bristles intermingled. Bristles immediately in front of antennae black. Occipital bristles and bristles of vertex black. Beard yellowish-white. Palpi black with black hairs. Thorax black, brownish pollinose. Disc of mesonotum thickly covered with fine black hairs and bristles. Scutellum with yellowish hairs and black bristles. Wings brownish, a large black shadow in the first sub-marginal cell. Tufts of hairs on both sides of halteres, yellowish. Halteres pale brownish. Coxae with yellowish hairs and a few black ones. Femora black with thick yellowish pile, and a few black bristles, and some fine black hairs. Tibiae reddish-black at the tip with yellowish pile and black bristles. Tarsi black with black hairs and bristles. Abdomen yellowish-brown pollinose with yellowish hairs. Hypopygium from above not broader than sixth segment, black with black hairs, a few light ones towards the tip. Forceps simple.

*Holotype* ♂  $\frac{645}{H6}$ .—Ghumti, Darjiling Dist., 4,000 feet. viii.1912. Lord Carmichael's Collection.

**Philodicus pruthii**, sp. nov.

Total length, 18 to 20 mm. Black species, grayish-brown pollinose, with legs black and reddish covered with fine white appressed pile.

*Male*.—Head black, whitish pollinose. Antennae black with black hairs. Occipital bristles black. Rest of vestiture of head white. Mystax with a pale yellowish tint. Beard white. Thorax pale brownish pollinose, above grayish pollinose on pleura. A black mid-dorsal line divided longitudinally anteriorly by a lighter streak, the side spots dark. Mesonotum with black bristles posteriorly. Scutellum grayish pollinose with fine white hairs and a pair of long black marginal bristles. Pleura with white hairs and bristles. Coxae with whitish hairs. Femora black with fine short appressed white pile. Tibiae reddish-black towards tip, with fine white pile and few yellowish bristles on anterior pair. Tarsi reddish with fine white appressed pile, pale yellowish bristles and few black bristles. Wings nearly hyaline, slightly grayish towards tips. Abdomen black, the posterior portions banded with grayish pollinose. Incisures brownish-black. Anterior portions of segments brownish pollinose. Bristles yellowish, hairs whitish. Hypopygium black, narrow, slightly shorter than segments six *plus* seven, covered with fine appressed whitish pile and a few black bristles.

*Female*.—Similar, except all bristles on anterior tibiae black. The ovipositor black, shining, slightly shorter than second segment.

*Holotype* ♂  $\frac{646}{H6}$ .—Pearl Bank Fisheries, Tuticorin, Madras Pres. ii-iii.26. R. B. S. Sewell. *Allotopotype* ♀  $\frac{647}{H6}$ . Same data.

### ***Apoclea indica*, sp. nov.**

Total length, 20 mm. A whitish pruinose and pubescent species with hyaline wings and yellowish legs with black femora covered with fine white hairs.

*Male*.—Head black. Thick mystax, entire vestiture whitish. Antennae dark brown. Arista at least three times as long as the short oval third segment. Thorax whitish pollinose with white pile and bristles. Mesonotum with two narrow dark median lines and large lateral spots, covered with light brownish pollen and fine whitish hairs. Coxae with white hairs. Femora entirely black with white pubescence and white bristles. Tibiae and tarsi reddish with white pubescence, and white bristles. Ungues black with reddish bases. Wings hyaline with reddish veins. Halteres reddish. Abdomen black, whitish pollinose and pubescent. Hypopygium black and somewhat broader than sixth segment, slightly broader than seventh. Pale brownish-white pubescent. Scutellum thickly covered with white hairs. Marginal bristles white.

*Holotype* ♂  $\frac{648}{H6}$ .—Pearl Bank Fisheries, Tuticorin, Madras Pres. ii-iii.26. R. B. S. Sewell.

### ***Ommatius carmichaeli*, sp. nov.**

Total length, 14 to 18 mm. A grayish pollinose species with legs contrasting black and yellow. Male with a bulge in the costa, the veins clouded with brown at this bulge. The female does not have this bulge, but the veins are clouded with brown in this area.

*Male*.—Head black, whitish pollinose. Mystax whitish, a few black hairs in upper part of mystax. Antennae with light hairs. Occipital and vertical bristles black. Beard whitish. Palpi black with a few black hairs and some white hairs. Thorax grayish pollinose. Hairs on coxae and pleura whitish, bristles on posterior portion of mesonotum black. Scutellum grayish pollinose with black hairs and black marginal bristles. Antennae and middle femora yellowish-black above. Posterior femora black. Tibiae yellowish, posterior tibiae dark brown at tip. Tarsi yellowish, becoming brownish towards the tip. Legs with fine yellowish hairs and black bristles. Wings nearly hyaline, pale brownish towards the tip, the costal margin bulging forward at about two-thirds the distance and the area around the veins brownish. Abdomen blackish with pale incisures and fine white pile. Hypopygium black, upper forceps with slender, incurved hooks meeting, as seen from above.

*Female*.—Similar, except the wings lack the costal bulge. In the area where the bulge occurs in the male, the colour is brownish.

*Holotype* ♂  $\frac{649}{H6}$ .—Singla, Darjiling Dist., 1,500 feet. v.1913. Lord Carmichael's Collection. *Allotype* ♀  $\frac{650}{H6}$ . Ghumti, Darjiling Dist., 1,500 to 5,000 feet. vi.1914. Lord Carmichael's Collection. *Paratypes* ♂. Kalimpong, Darjiling Dist., 600 to 4,500 feet, Eastern Himalayas. 24.iv-10.v.15. F. H. Gravely. 2 ♀♀  $\frac{651-652}{H6}$ . Singla, Darjiling Dist., 1,500 feet. v.1913. Lord Carmichael's Collection. Ghumti, Darjiling Dist., 1,500 to 5,000 feet. vi.1914. Lord Carmichael's Collection.

**Ommatius subgracilis**, sp. nov.

Total length, 13 mm. A small blackish species, grayish pollinose with yellowish legs and hyaline wings. A slight costal bulge in the male. Apex of wings brownish.

*Male*.—Head with pale yellowish vestiture, except bristles of vertex and occiput, which are black. Antennae with black bristles also. Thorax grayish pollinose, the usual mesothoracic markings black, bristles posteriorly on the mesonotum. Hairs and bristles of pleura and coxae whitish. Scutellum grayish pollinose and two black bristles on the margin. Legs yellowish, the distal three-fourths of the posterior femora yellowish-brown. Tips of femora and tibiae darker, as are also tarsi. Wings hyaline, brownish towards tip, partly brownish under the costal bulge. Halteres pale yellowish. Abdomen blackish, grayish pollinose, white hairs. Hypopygium reddish-brown. Slightly broader in seventh segment, narrowing sharply towards the tip, as viewed from above.

*Female*.—Similar. Ground colour of the abdomen more brownish and the wings do not possess the costal bulge.

*Holotype* ♂  $\frac{653}{H6}$ .—Kalimpong, Darjiling Dist., 600 to 4,500 feet, Eastern Himalayas. 24.iv-10.v.15. F. H. Gravely. *Allotopotype* ♀  $\frac{654}{H6}$ . Same data. *Paratopotype* ♀. Same data.

**Ommatius nigrifemorata**, sp. nov.

Total length, 8 mm. A small black species, grayish pollinose with black femora and yellowish tibiae.

*Female*.—Head black, pale yellowish pollinose. Occipital and ocellar bristles black. Mystax black with some white bristles. Palpi with black hairs. Thorax black, grayish pollinose. Mesonotum with black bristles posteriorly. Scutellum grayish pollinose with two black bristles on the margin and fine white hairs on the disc. Wings nearly hyaline, iridescent. Halteres yellowish. Vestiture of pleura whitish. Femora black with pale hairs and bristles. A few bristles on posterior femora black. Tibiae yellowish with black tips. Bristles black, fine hairs white. Tarsi black with black bristles and hairs. Abdomen black, grayish pollinose. Incisures narrow, margin brown, fine hairs white.

*Holotype* ♀  $\frac{655}{H6}$ .—Singla, Darjiling Dist., 1,500 feet. v.1913 Lord Carmichael's Collection. *Paratopotype* ♀  $\frac{656}{H6}$ . Same data.



**Ommatius ater**, sp. nov.

Total length, 9 to 10 mm. A small black species with black legs.

*Female*.—Head black. Face yellowish pollinose. Occiput whitish pollinose. Mystax black. Beard white. Occipital, vertical and ocellar bristles black. Antennae black with black bristles. Palpi black with black hairs. Thorax black. Pleura yellowish-gray pollinose. Mesonotum with black bristles. Scutellum grayish pollinose with fine white hairs and two black marginal bristles. Coxae with whitish hairs. Legs entirely black, with fine white hairs and black bristles. Wings nearly hyaline, iridescent. Halteres pale yellowish-brown. Abdomen metallic black, grayish pollinose.

*Holotype* ♀  $\frac{657}{H6}$ .—Simla, Western Himalayas, in jungle. viii-ix.25. B. N. Chopra. *Paratype* ♀. Simla, 6,000 to 7,000 feet, Western Himalayas, at light. viii-ix.25.

## II. LAPHRIINAE.

**Andrenosoma choprai**, sp. nov.

Total length, 17 to 21 mm. An entirely black species, grayish pollinose, hirsute. Wings very faint brownish, nearly hyaline.

*Male*.—Head black, grayish-white pollinose. Occipital, ocellar and antennal bristles black. Bushy hairs of face and mystax white. Mystax with some black bristles above. Beard bushy white. Palpi black with black hairs. Thorax black, grayish pollinose. Mesonotum with faint black markings. Disc of mesonotum covered with black hairs. Scutellum grayish-whitish pollinose with black hairs and bristles. Pleura grayish pollinose with yellowish-white hairs. Wings nearly hyaline, lightly brownish along veins. Legs black with bushy yellowish-white pile and some black hairs intermingled. Bristles black. Abdomen black with a single black bristle at the side of the first segment and two black bristles at the sides of segments two and three. Fine hairs on tergites black. Incisures grayish pollinose. A small grayish pollinose patch on the lateral posterior margins of segments one to six. Thick pile along sides of abdomen, mostly whitish. Hypopygium black with whitish hairs and a few black hairs.

*Female*.—Similar. Oviduct black, about the length of the fifth segment.

*Holotype* ♂  $\frac{658}{H6}$ .—Singla, Darjiling Dist., 1,500 feet. v.1913. Lord Carmichael's Collection. *Allotopotype* ♀  $\frac{659}{H6}$ . Same data.

**Maira longirostra**, sp. nov.

Length, 20 mm., exclusive of rostrum which is 4 mm. in length. A rather slender species with thorax and head whitish pollinose and abdomen club-shaped. The fifth segment as broad as the thorax, black with metallic purplish reflections. Abdominal segments one to five with a white spot on the posterior lateral margins.

*Female*.—Head black, whitish pollinose. Antennae long, black, arising from a prominence, their bases closely approximate, black with

black hairs. Occipital bristles black. Hairs immediately below antennae black. Hairs along sides of face white. Mystax black. Beard white. Palpi black with black hairs. Pleura whitish pollinose. Ground colour of mesonotum black with metallic purplish reflections, but covered with brownish-white pollen, fine black hairs. Two large patches of white pollen back of the humeri. Scutellum black with metallic purplish reflections, black marginal bristles directed backwards. Coxae with whitish hairs. Legs blue-black with whitish hairs and a few black ones intermingled. Underparts of tarsi and distal portions of tibiae with fine golden pubescence. Wings hyaline at base, becoming grayish, the apical two-thirds grayish. Abdomen black with metallic purple reflections (incisures, brownish-white pollinose), club-shaped, the second segment narrower than the first, third segment slightly broader. Abdomen broadening from there on to the fifth segment, which is about as broad as the thorax. The sixth segment tapers sharply, the seventh very small. Ovipositor very short. Segments one to five with a white patch on the posterior lateral margins. Venter pale grayish-brown pollinose.

*Holotype* ♀  $\frac{660}{H6}$ .—Singla, Darjiling Dist., 1,500 feet. v.1913. Lord Carmichael's Collection.

### III. DASYPOGONINAE.

#### **Cyrtopogon khasiensis**, sp. nov.

Total length, 12 mm. A black species with hyaline wings, very faintly brownish along veins.

*Female*.—Head black, grayish pollinose, vestiture black, except beard which is yellowish-white. A few yellowish-white hairs on lower part of mystax. Thorax black, grayish-white pollinose. Mesothorax with two median black lines and two black spots on each side. Pleura grayish-white pollinose with whitish hairs. Scutellum whitish pollinose with black hairs. Wings hyaline. Halteres dark brown. Cross veins faintly clouded with brown. Legs black, except bases of tibiae which are brownish. Bristles mostly reddish. Hairs black and yellowish intermingled. Parascutellum black, the callosities white pollinose. Abdomen shining black. Tufts of yellowish hairs at the sides of the first and second segments, a whitish spot on posterior lateral border of first segment, posterior margins of segments two to four banded with grayish-white, interrupted in the centre. Segments five and six with a white patch on the posterior lateral margin. Segment seven with a very faint indication of this patch. Ovipositor with brownish spines.

*Holotype* ♀  $\frac{661}{H6}$ .—Nungbru Forest, near Mairong, Khasi Hills, Assam. Gopi Ram. 15.iv.27. *Paratype* ♀. Near Dak Bungalow, Mawphlon, Khasi Hills, Assam. Gopi Ram. 12.iv.27.

#### **Cyrtopogon laxenecera**, sp. nov.

Total length, 14 mm. A brownish hirsute species with slender cylindrical abdomen, superficially resembling a *Laxenecera*.

*Male*.—Head black, yellowish-white pollinose, thickly pilose. Hairs and bristles of vertex, occiput, antennae and upper part of mystax black. Lower part of mystax, beard, pronotal hairs yellowish. Thorax brownish pollinose. Pleura, posterior part of mesonotum and scutellum thickly covered with yellowish hairs. Legs black, thickly covered with yellowish hairs. Wings grayish at tips, yellowish at base. Abdomen black. Posterior margins of segments broadly banded with yellowish-white, thickly covered with reddish-yellow pile. Abdomen narrower than thorax, constricted between the second and third segments, broadly rounded at tip. More cylindrical than most species of this genus.

*Holotype* ♂  $\frac{662}{H6}$ .—Round about Hurst Cottage, Bakrota Hill, Dalhousie, 7,000 feet, Punjab, at light. S. L. Hora.

### ***Stenopogon subtus*, sp. nov.**

Total length, 17 mm. A blackish species with reddish legs and dorsum of abdomen reddish-black. Occipital hairs yellowish, hairs on vertex black. Antennae reddish, third segment black. Face grayish-white pollinose. Mystax composed of black bristles above and on sides whitish bristles anteriorly, becoming more numerous toward the lower portion. Beard white. Thorax black, pale brownish pollinose. Humeri reddish with black bristles. Thorax covered with pale yellowish hairs and black bristles. Some of the bristles on the posterior portion of the mesonotum yellowish. Scutellum grayish-yellow pollinose. Margin bordered with black bristles, intermingled with yellow. Coxae with whitish hairs. Legs reddish with black bristles and pale hairs. Anterior femora black above, with a black line above, extending three-fourths of the length and a black area below basally seven-eighths the length. Middle femora basal anterior portion seven-eighths the length black. Posterior femora with the anterior portion black to seven-eighths of the length. Wings grayish, nearly hyaline. Halteres brownish. Abdomen reddish with pale yellowish hairs. The anterior portion of the first segment, sides and anterior portion of the second and the sides of segments three to seven blackish, grayish-brown pollinose, becoming whitish pollinose posteriorly. Ovipositor reddish, the eighth segment with the posterior margin blackish. Spines black. Venter mostly reddish.

*Holotype* ♀  $\frac{653}{H6}$ .—Dayankund Nallah, below bridge, between mile-stones 14 and 15 on Dalhousie-Khajiar Road, 8,000 feet, Dalhousie, Punjab. S. L. Hora.

### ***Damalis claripennis*, sp. nov.**

Total length, 8 to 10 mm. A dark brown species, golden pollinose with yellowish legs and hyaline wings.

*Male*.—Head yellowish pollinose. Antennae black, third segment broken off, black bristles. The few bristles of the mystax black. Palpi with black hairs. Occiput with yellowish and whitish hairs. Face golden-brown pollinose. Thorax golden pollinose with whitish hairs. Mesonotum with a broad brownish line, disappearing posteriorly. Scutellum golden-brown pollinose with fine whitish hairs. Wings hyaline.

Base of veins yellowish. Legs yellowish. Tips of femora, tibiae and tarsi dark brown. Hairs and bristles on legs black, intermingled with fine sparse yellowish hairs. Halteres pale yellowish. Abdomen brownish with sparse brown hairs.

*Female*.—Similar.

*Holotype* ♂  $\frac{622}{H6}$ .—Singla, Darjiling Dist., 1,500 feet. vi.1913. Lord Carmichael's Collection. *Allotopotype* ♀  $\frac{623}{H6}$ . Same data. *Paratopotype* 1 ♂, 2 ♀♀. Same data.

*List of Determined Species in the Collection.*

ASILINAE.

- Asilus orientalis* Ricardo. Numerous specimens from Soom and Ghumti, Darjiling District. (There may be two species in this material. Specimens in rather poor state.)
- Asilus opulentus* Walker. Singla, Darjiling District.
- Asilus aurimystax* Bromley. Kalimpong, Darjiling District.
- Dymachus tolmeroides* Bromley. Masmai Reserve Forest, Khasi Hills, Assam.
- Machimus rufipes* Ricardo. Numerous specimens from Singla and two from Kalimpong, Darjiling District.
- Heligmoneura (Asilus) armatipes* Macquart. Singla, Darjiling District.
- Heligmoneura (Asilus) montanus* Ricardo. Two specimens from Kalimpong and one from Ghoom, Darjiling District.
- Heligmoneura (Asilus) yenpingensis* Bromley. One from Ghumti and one from Sukna, Darjiling District.
- Promachus leoninus* Loew. Several specimens from Singla, Darjiling District.
- Promachus binghamensis* Ricardo. Numerous specimens from Singla, Darjiling District.
- Promachus yerburyensis* Ricardo. One specimen from the Pearl Bank Fisheries, Tuticorin, Madras Pres.
- Astochia maculipes* Walker. Singla, Darjiling District.
- Astochia determinatus* Walker. Victoria Forest, Kurseong, Eastern Himalayas and Khasi Hills, Assam.
- Philodicus univentus* Walker. Namma, U. Burma.
- Allocotosia auratus* Fabricius. Singla, Darjiling District.
- Ommatius peregrinum* Van der Wulp. Upper Burma and Singla, Darjiling District.

LAPHRIINAE.

- Nusa elva* Walker. Silcuri, Cachar, Assam.

DASYPOGONINAE.

- Cryptopogon laphrides* Walker. Mt. Hattu, Simla Hills.
- Damalis planiceps* Wied. Ghoom, Darjiling District.
- Damalis fusca* Walker. Birch Hill, Darjiling.
- Microstylum ? trimelas* Walker. Singla, Darjiling District.
- Microstylum ? apicale* Wied. Singla, Darjiling District.