CULICIDAE

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AND

DESCRIPTION OF THREE NEW SPECIES.

BY

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Anophelinae.

1. *Myzorhynchus barbirostris* Van der Wulp.

1 ♀. New Guinea Expedition 1904—5. Digul-River (Dr. Koch).

Megarhininae.

2. *Toxorhynchites javaensis* nov. sp.

Head deep bronzy-green with a pale blue and grey border around the eyes; palpi violet and blue with two mauve bands, one apical; proboscis black with violet and metallic reflections. Thorax dotted with metallic bronzy scales, almost white in front and at the sides, showing pale blue-green lines; scutellum pale apple green; pleurae black with silvery white scales.

Abdomen metallic green, violet at the apex; apical tuft orange and black; lateral creamy spots. Fore legs violet with basal two-thirds of metatarsi white; mid legs with golden tibiae with violet apex, base of metatarsi creamy, all the tarsi white; hind legs violet, a creamy band at base of the metatarsi, a white one at base of the first tarsal, rest violet.

♀. Head clothed with flat bronzy scales which show some apple green reflections, pale blue and grey around the eyes; three thick black chaetae on each side in front and some in the median line in front; clypeus brown with grey sheen; palpi black with violet reflections on some of the scales, a mauve scaled apex and another narrow mauve scaled band; proboscis dark scaled with violet and metallic reflections, normally curved; antennae brown, basal segment with grey sheen, second segment not much longer than the third with dark scales, slightly swollen.

Thorax black with bright coppery scales, pale blue in front of the roots of the wings, pale blue and grey in front and at the sides, larger and apple green towards the scutellum; scutellum with pale apple green scales, smaller in the middle than at the sides, the latter show also pale bronzy reflections; chaetae at base of wings and on the posterior border of the scutellum; metanotum black; pleurae black with patches of flat silvery white scales.

Abdomen clothed with metallic apple green scales, last two segments metallic violet; apical segment with a dense tuft of bright orange chaetae, some short black ones at the sides of the previous one and some orange ones on the next; laterally are pale creamy scales on the segments and the venter is pale creamy.

Legs, front pair with metallic violet femora and tibiae, the former golden beneath at the base, the latter with a few white apical scales; greater part of the metatarsus snowy white, the apex violet; midlegs with the femora as in the fore, tibiae golden scaled with a few scattered dark ones, violet at the apex, metatarsus with the basal half pale golden, all the tarsi snowy white; hind legs with the femora golden at base and below, violet at the apex above; tibiae violet above, golden below and some golden scales passing upwards at the mid region, a broad pale golden basal band to the metatarsi

and a white basal band to the first tarsal, rest violet; ungues black.

Wings with the first fork cell very small, its stem about four times as long as the cell; second posterior cell broad, more than twice as long as the first, its stem a little longer than the cell; supernumerary cross-vein considerably nearer the apex of the wing than the mid and about the same length; the posterior cross-vein longer than the mid, sloping backwards, and situated close to it. Halteres fuscous, with creamy apical scales.

Length 8 mm.

Habitat Java (Piepers).

Observations. Described from a perfect ♀. A very marked species easily told by having all the mid tarsi white and the apical tuft of orange chaetae, the apple green abdomen with violet apex.

3. *Toxorhynchites splendens* Wiedemann?

Two badly damaged ♂'s from Surinam. The large orange colored tail-tuft is very marked in one specimen, and on this account they may be surmised as being Wiedemann's species. If not, they are undescribed, but are not in sufficiently good preservation to describe.

Culicinae.

4. *Mucidus mucidus* Karsch.

1 ♀ from Delagoa Bay.

5. *Desvoidea obturbans* Walker.

Samarang, Java; I. II & III. '06; VIII. '05. (Jacobson) 5 ♀'s & 4 ♂'s.

6. *Stegomyia fasciata* Fabricius.

Samarang I. '08. (Jacobson); Pasuruan (Kobus).

7. *Howardina chrysolineata* Theobald ?

? 1 ♂. Tosari, Java (Kobus). The specimen is not perfect enough to be sure of. No male of *Howardina* has been described. In this specimen the scale characters agree with ♀ *Howardina* and the thoracic ornamentation is like *chrysolineata*. The proboscis becomes constricted at the pale band and the palpi are not quite as long as the proboscis, the abdomen has basal pale bands and shiny white basal lateral spots. Fore legs only present, the larger ungues biserrate and the smaller uniserrate. Except for the scutellar scales it might be a male of *Hulecoetomyia trilineata* with marked proboscis.

8. *Culicada (Culex) concolor* Rob. Desvoid.

Samarang Java. 1. '08 (Jacobson). 3 ♀'s & 1 ♂.

Java (Piepers) 1 ♀.

9. *Culex microtaeniata* nov. sp.

Head with pale scales in the middle, then a dark patch, then white; proboscis with a narrow pale band: thorax brown with two broad dark parallel lines, with small dull golden-brown scales. Abdomen deep brown with narrow basal yellow bands, except on the penultimate segment, last segment with a basal white band. Legs with very faint narrow pale basal bands to some extent involving both sides of the segment. Very small species.

♀. Head brown with small narrow-curved pale golden scales in the middle and dark upright forked scales, a patch of flat dark ones at the sides and then a patch of flat white ones; palpi small, black scaled; proboscis deep brown with a narrow pale band towards the apical half; antennae deep brown, basal segment deep brown and testaceous; clypeus deep brown.

Thorax brown with two dark parallel broad lines, very shiny, clothed with small narrow-curved pale dull golden

scales; scutellum pale testaceous, with pale narrow-curved scales; metanotum shiny, deep brown; pleurae brown and grey with some flat grey scales.

Abdomen deep brown with narrow dull ochreous pale bands, except on the penultimate segment, the last segment small with a basal white band.

Legs brown with narrow basal bands involving both sides of the joints, ungues equal and simple.

Wings with brown scales; the first submarginal cell longer and narrower than the second posterior cell, its stem about half as long as the cell, its base nearer the base of the wing than that of the second posterior cell, stem of the latter about two thirds the length of the cell; posterior cross-vein rather more than thrice its own lenght distant from the mid; lateral vein scales long & thin.

Length 2 to 2—5 mm.

Habitat. Samarang, Java (Jacobson).

Time of capture January ('06).

Observations. Described from two ♀'s. A very small banded proboscis species near *Culex vishnui* Theobald. The two dark lines on the integument of the thorax are very characteristic and the apical and basal banding of the legs also separate it from that species.

10. *Culex pseudoinfula* nov. sp.

Thorax clothed with dull pale ochreous and brown scales, having an indistinct tessellated appearance. Proboscis with a br ad pale creamy white band and pale apex. Abdomen with basal pale bands. Legs with narrow apical and basal pale bands.

♀. Head brown, clothed with pale narrow curved scales, ochreous upright forked scales, except at the sides where they are black, flat lateral pale creamy scales; palpi black scaled; clypeus black, prominent; proboscis black with a broad creamy

white band towards the apical half; apex pale testaceous.

The thorax deep brown with narrow curved dull pale ochreous scales, two patches at the sides of a reddish brown line; scutellum with similar pale scales; metanotum brown; pleurae testaceous and brown with some small flat pale scales.

Abdomen dull brown, with prominent ochreous basal bands, pale border bristles and traces of some pale scales on the apex of the last segment, which has many golden-brown chaetae; venter mostly pale scaled. Legs brown, venter and base of femora pallid, all the legs show prominent narrow pale bands involving both sides of the joints, less marked at the hind legs than on the fore and mid; ungues equal and simple.

Wings with brown scales, rather dense on the first, second, third and fourth veins, the median vein-scales rather short, broad and spatulate; first submarginal cell much longer and slightly narrower than the second posterior cell, its stem rather more than half the length of the cell, its base nearly level with that of the second posterior cell, stem of the latter about half as long as the cell; posterior cross-vein longer than the mid, about twice its own length distant from it.

Length 4 mm.

Habitat. Pasuruan, Java. (Kobus); Samarang, Java (Jacobson).

Time of capture. January and February.

Observations. Described from three ♀♀. The leg banding being apical and basal gives it the appearance of *Culex infula* Theobald, but it can be told at once by the absence of the pale band just before the top of the proboscis.

11. *Culex fatigans* Wiedemann.

Pasuruan, Java (Kobus); Samarang (Jacobson) I. '06; Samarang (Drescher) IX. 1905. (1 ♀).

12. *Chrysoconops brevicellulus* Theobald.

Samarang, Java (Jacobson) I. '06 (2 ♂'s).

13. *Chrysoconops fuscopteron* nov. sp.

Head, thorax and abdomen clean deep golden yellow; palpi and proboscis brown; legs unbanded, dark, with violet and dull ochreous reflections; wings uniformly dusky-brown scaled.

♀. Head pale ochreous brown, clothed with narrow-curved golden yellow scales, deep golden upright forked scales and similar colored chaetae; clypeus deep ochreous, dark at the base; proboscis dark with violet reflections; palpi ochreous, clothed with dark scales with metallic violet reflections and thin black chaetae, some long towards the base; antennae ochreous brown with narrow pallid internodes and dark chaetae, pale pubescence and darker basal segment. Eyes large, dark.

Thorax shiny ochreous brown, clothed with scanty golden-yellow narrow-curved scales, black chaetae, except over the base of the wings where they are golden, darkened at the apices; scutellum paler than the mesothorax with similar scales and bright golden yellow chaetae; metanotum bright golden yellow; pleurae golden yellow, with some pale silvery flat scales.

Abdomen clothed with bright golden yellow scales, the apical borders of the segments with pale dusky violet scales; chaetae golden and brown, those towards the apex long, apical segment with dense brown chaetae.

Wings clothed with dusky brown scales; the fork-cells short, nearly equal in length, their bases nearly level, the posterior if anything slightly the nearer the base of the wing; the first submarginal slightly the narrower; its stem about as long as the cell; stem of the second posterior cell not quite as long as the cell; posterior cross-vein a little longer than the mid, not quite twice its own length distant from it; the supernumerary also longer than the mid. Halteres pale ochreous with fuscous knob.

Length 3.8 mm.

Habitat. New Guinea, Digul-River (Dr. Koch).

Observations. Described from a single perfect ♀. It can at once be told by the uniform golden yellow appearance and uniformly brown scaled wings. No trace of abdominal banding can be seen with a lens, but distinct yet faint dark apical bands can be clearly seen under the $^2/_3$ power.