

Catalogue of the Dipterous Insects collected at Manado in Celebes, and in Tond, by Mr. A. R. WALLACE, with Descriptions of New Species. By FRANCIS WALKER, Esq., F.L.S.

[Read Nov. 15th, 1860.]

(Manado.)

Fam. STRATIOMIDÆ, *Haldaj.*

Gen. CLITELLARIA, *Meigen.*

1. CLITELLARIA TIBIALIS, n. s. *Mas.* Nigra, nitens, albido pubescens, capite litura alba, antennis luteis, scutello quadrispinoso, pedibus albis, tarsi anticis tibiisque nigris, alis cinereis apud costam nigris apice albis, halteribus luteis.

*Male.* Black, shining, with whitish down. Head a little narrower than the thorax, with a white mark above the base of the antennæ. Eyes nearly approximate in front, diverging hindward. Antennæ luteous; 3rd joint short-elliptical; arista long, slender, bare. Thorax elongate-oval, narrower in front; scutellum with four long spines. Abdomen elongate-elliptical, longer than the thorax. Legs white; tibiæ and fore tarsi and tips of the posterior tarsi black. Wings cinereous, black along the costa, white at the tips, veins black; halteres luteous. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

Gen. STRATIOMYS, *Geoffr.*

2. *Stratiomys finalis*, *Walk.* See Vol. IV. p. 94.

Fam. TABANIDÆ, *Leach.*

Gen. TABANUS, *Linn.*

3. TABANUS SPECULUM, n. s. *Mas.* Ater, capite macula antica alba, antennarum articulo 3° rufo, thorace fasciculis quatuor lateralibus albis, scutello argenteo, abdomine fasciis interruptis albis, alis nigris cinereo strigatis, apicibus maculaque discali limpidis, macula antica parva lurida, halteribus apice pallide flavescentibus.

*Male.* Deep black. Head with a white transverse spot in front of the antennæ; callus shining, very slender. Eyes uniform; facets extremely minute. Third joint of the antennæ dark red, with an acute distinct horn. Thorax with two tufts of white hairs on each side by the base of the wings; scutellum silvery white, except along the fore border. Abdomen with a white band on the hind border of each segment; these bands are widely interrupted on each side above, but entire beneath. Wings black, with cinereous streaks in the areolets, with limpid tips, and with a limpid oval discal spot, in front of which

there is a much smaller lurid spot; veins black; fore branch of the cubital vein much curved near the base, slightly curved from thence to the tip; halteres with pale yellow tips. Length of the body 10 lines; of the wings 18 lines.

4. *TABANUS FLEXILIS* (see Vol. IV. p. 104). *Mas.* Piceus, antennis rufis apice nigris, thorace aurato, abdomine fulvo elongato fasciis duabus latis ferrugineis, fasciis duabus posticis apiceque nigris, pedibus nigris, alis cinereis costa fasciisque duabus abbreviatis fuscis, halteribus luteis apice albis.

*Male.* Piceous. Head beneath, thorax, and pectus with gilded tomentum and hairs. Eyes uniform, connected above; facets extremely small. Proboscis black. Antennæ red, black towards the tips; horn of the 3rd joint extremely small. Abdomen tawny, elongate; 2nd and 3rd segments with broad ferruginous bands; 4th and 5th with black bands; 6th also black. Legs black; femora slightly clothed with gilded down. Wings cinereous, brown along the costa, and with two brown bands which are abbreviated hindward; 2nd band very broad; veins black; fore branch of the cubital vein much curved near the base, more slightly curved from thence to the tip; halteres luteous, with white knobs. Length of the body 8 lines; of the wings 14 lines.

Fam. ASILIDÆ, *Leach.*

Subfam. DASYPOGONITES, *Walk.*

Gen. DISCOCEPHALA, *Macq.*

5. *DISCOCEPHALA CONCOLOR*, n. s. *Mas.* Nigra, ferrugineo subto mentosa, pectore cano, pedibus robustis, alis nigris, halteribus apice albis.

*Male.* Black, slightly covered with ferruginous tomentum. Eyes flat and with large facets in front. Pectus hoary. Legs stout, shining. Wings black; halteres with white tips. Length of the body 2½ lines; of the wings 5 lines.

Subfam. ASILITES, *Walk.*

Gen. TRUPANEA, *Macq.*

6. *TRUPANEA CONCOLOR*, n. s. *Mas.* Cinereo-nigra, capite barba alba mystace nigro, thorace abdomineque vittis duabus lateralibus cinereis, abdomine fasciculo subapicali albo, pedibus crassis, femoribus rufo vittatis, tibiis rufis, alis fuscis.

Allied to *T. calorifica*.

*Male.* Cinereous black, with black bristles. Head with a thick whitish beard; mystax composed of many black bristles. Antennæ black; 3rd joint lanceolate, more than half the length of the arista. Thorax with two lateral cinereous stripes, which are continued along the sides of the abdomen. Abdomen much longer than the thorax, with a

white subapical tuft; appendages large, black, shining. Legs very robust; femora with red stripes; tibiæ red. Wings brown; veins black; halteres tawny. Length of the body 10 lines; of the wings 16 lines.

Gen. *ASILUS*, *Linn.*

7. *ASILUS AREOLATUS*. *Fam.* Cinereo-niger, barba parva, mystace nigro, abdomine lanceolato, pedibus robustis, alis nigricantibus postice cinereis.

*Female.* Cinereous black. Head dark gilded in front; epistoma convex; beard small; mystax with numerous black bristles, occupying most of the face. Third joint of the antennæ fusiform; arista about thrice the length of the 3rd joint. Abdomen lanceolate, black and shining towards the tip, more than twice the length of the thorax. Legs robust, with black hairs and bristles. Wings blackish, blackish cinereous hindward, where the disks of the areolets are cinereous; veins black; hind branch of the cubital vein undulating. Length of the body 10 lines; of the wings 18 lines.

8. *Asilus mendax*, *Walk. Trans. Ent. Soc. Lond. New Series*, iv. 130. Allied to *A. areolaris*.

Gen. *OMMATIUS*, *Illiger.*

9. *Ommatius strictus*, *Walk.* See Vol. IV. p. 109.

Fam. *BOMBYLIDÆ*, *Leach.*

Subfam. *THEREVITES*, *Walk.*

Gen. *THEREVA*, *Latr.*

10. *Thereva congrua*, *Walk.* See Vol. II. p. 90.

Fam. *MUSCIDÆ*, *Latr.*

Subfam. *DEXIDES*, *Walk.*

Gen. *DEXIA*, *Meigen.*

11. *DEXIA CYLINDRICA*, n. s. *Mus.* Nigra, gracilis, cylindrica, capite argenteo, frontalibus atris, pectore argenteo maculis quatuor atris, abdomine fasciis interruptis albis, pedibus longissimis, alis nigricante cinereis.

*Male.* Black, slender, cylindrical. Head silvery white; frontalia deep black, linear; face vertical. Antennæ reaching the epistoma; 3rd joint linear, full four times the length of the 2nd; arista plumose. Pectus silvery white, with two deep-black spots on each side. Abdomen slightly compressed, full twice the length of the thorax, with an interrupted white band on the fore border of each segment, and with stout black bristles on the hind borders of the segments. Legs very

long. Wings blackish cinereous, black along the costa; præbrachial vein forming a right angle at its flexure, near which it is curved inward, and is thence straight to its tip; discal transverse vein nearly straight, parted by little more than half its length from the border, and by much less than its length from the flexure of the præbrachial; alulæ cinereous. Length of the body 6 lines; of the wings 8 lines.

Subfam. MUSCIDES, *Walk.*

Gen. MUSCA, *Linn.*

12. MUSCA (Subgen. *Isomyia*, *Walk.*) CONFLAGRANS, n. s. *Mas.* Rufescenti-cuprea, capite cinereo-piceo, proboscide palpis antennisque nigris, abdominis segmentis nigro marginatis, alis fuscis postice cinereis.

Closely allied to *M. delectans*.

*Male.* Reddish cupreous. Head piceous, with cinereous tomentum. Proboscis, palpi, and legs black. Antennæ piceous. Scutellum golden green hindward. Hind borders of the abdominal segments black. Wings brown, cinereous hindward; veins black; præbrachial vein forming a slightly obtuse angle at its flexure, slightly curved inward from thence to its tip; discal transverse vein undulating, parted by very much less than its length from the border and from the flexure of the præbrachial; alulæ brown. Length of the body 5 lines; of the wings 8 lines.

Subfam. ANTHOMYIDES, *Walk.*

Gen. SPILOGASTER, *Macq.*

13. *Spilogaster xanthoceras*, *Walk.* See Vol. IV. p. 141.

Subfam. ORTALIDES, *Haliday.*

Gen. LAMPROGASTER, *Macq.*

14. LAMPROGASTER LUTEIPENNIS, n. s. *Fæm.* Læte viridis aut cyaneo-viridis, capite proboscide antennis pedibus halteribusque luteis, tibiis anticis nigricantibus, alis limpidis, gutta strigaeque costalibus nigricantibus, venis transversis nigro nebulosis.

*Female.* Bright green or bluish green. Head, proboscis, antennæ, legs, and halteres luteous. Antennæ not more than half the length of the face. Tarsi pale, with blackish tips; fore tibiæ blackish. Wings limpid; veins luteous; costa with a blackish dot opposite the discal transverse vein, and a blackish apical streak; transverse veins clouded with black; discal transverse vein straight, parted by about one-sixth of its length from the border, and by about its length from the præbrachial transverse. Length of the body 4-5 lines, of the wings 8-10 lines.

15. LAMPROGASTER SEXVITTATA, n. s. *Fæm.* Nigra, crassa, capite

albido fasciis duabus nigris, antennis fulvis, thorace pectoreque vittis sex albidis, abdomine purpurascenti-cyaneo, tarsis halteribusque albidis, alis cinereis, maculis plurimis transversis fasciisque duabus nigricantibus.

*Female.* Black, broad, thick. Head whitish, with two black bands on the front, and a narrower one on the face. Antennæ tawny, about half the length of the face; arista plumose. Thorax and pectus with three whitish stripes on each side, the first pair connected on the hind border of the scutellum. Abdomen purplish blue. Tarsi whitish, with black tips. Wings cinereous, with many transverse blackish spots, and with two blackish bands; veins black: longitudinal veins slightly undulating or irregular; discal transverse vein straight, parted by more than half its length from the border, and by more than its length from the præbrachial transverse vein; halteres whitish. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

#### Gen. DACUS, *Fabr.*

16. *Dacus divergens*, *Walk.* See Vol. IV. p. 149.

*Var. nigricanti-cyaneus*, longus, capite atro antice rufescente, antennis longis basi rufescentibus, arista alba filiformi, thorace vittis tribus cinereis, pedibus piceis, femoribus fulvis, alis cinereis, costa apicali venisque transversis nigricante nebulosis, halteribus albidis.

Blackish-blue, shining, long, slender. Head deep black above, with whitish tomentum behind and about the eyes; face keeled, reddish in the disk. Antennæ black, reddish towards the base, as long as the face; 3rd joint slender, linear, about eight times the length of the 2nd; arista white, filiform. Thorax with three cinereous stripes; pectus cinereous. Abdomen more slender than the thorax. Legs piceous; femora tawny. Wings cinereous, blackish about the transverse veins and along the apical part of the costa to the end of the præbrachial vein; cubital and præbrachial veins very approximate from the base to the præbrachial transverse vein, thence rather remote from each other; discal transverse vein slightly curved, parted by one-eighth of its length from the border, and by very much more than its length from the oblique præbrachial transverse vein; halteres whitish. Length of the body 7 lines; of the wings 12 lines.

#### Gen. ENICONEURA, *Maog.*

17. *ENICONEURA PICTIPENNIS*, *Walk.* (see Vol. IV. p. 155). *Fem.*

Lutea, capite maculis duabus nigris, thorace punctato vittis quatuor indistinctis fuscescentibus, pectore strigis duabus nigris, abdomine longo, alis pallide luteis nigro strigatis postice cinereis.

*Female.* Luteous, shining, paler beneath. Head above with a large elongated black spot, and with a transverse black spot on the face. Thorax punctured, with black hairs and bristles, and with four indi-

distinct brownish stripes. Pectus with a black streak on each side. Abdomen fusiform, with pale hairs, lanceolate and paler towards the tip, full twice the length of the thorax. Wings pale luteous, cinereous along the hind border, with irregular black streaks along the veins; costa also black; veins tawny; discal transverse vein oblique, slightly curved, parted by one-fourth of its length from the border, and by more than its length from the præbrachial transverse vein. Length of the body 8 lines; of the wings 14 lines.

Subfam. DIOPSIDES, *Walk.*

Gen. DIOPSIS, *Linn.*

18. *Diopsis subnotata*, *Westw.* See Vol. IV. p. 161.

Fam. HIPPOBOSCIDÆ, *Leach.*

Gen. ORNITHOMYIA, *Olfers.*

19. *ORNITHOMYIA SIMPLEX*, n. s. Testaceo-viridis, nitens, pedibus pallide viridibus subsetosis, alis cinereis, venis anticis pallide viridibus. Dull testaceous green, shining, paler beneath. Legs pale green, slightly setose. Wings cinereous; costal veins pale green. Length of the body 2 lines; of the wings 5 lines.

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(*Tond.*)

Fam. MYCETOPHILIDÆ, *Haliday.*

Gen. SCIARA, *Meigen.*

1. *SCIARA LONGIPES*, n. s. Cinereo-nigra, robusta, antennis thorace non longioribus, pedibus longis, femoribus sulcatis, alis nigricanti-cinereis.

Cinereous black, stout. Antennæ rather stout, as long as the thorax. Legs long; femora furrowed. Wings blackish cinereous; radial and cubital veins black, stout; the other veins blackish, slender; fork of the subapical vein opposite the end of the radial vein. Length of the body 3 lines; of the wings 6 lines.

Fam. TABANIDÆ, *Leach.*

Gen. CHRYSOPS, *Meigen.*

2. *Chrysops fasciatus*, *Wied.* See Vol. I. p. 112.

Fam. ASILIDÆ, *Leach.*

Subfam. LAPHRITES, *Walk.*

Gen. LAPHRIA, *Fabr.*

3. *LAPHRIA FLAMMIPENNIS*, n. s. *Mas.* Nigra, capite aurato, mys-

tace nigro, antennarum articulo 2<sup>o</sup> rufo, thorace rufescente subtomentoso, abdomine nigricante cupreo glauco-suffuso, pedibus rufis, femoribus nigris, alis luteis apice nigris, halteribus albidis.

*Male.* Black. Head with bright gilded hairs; epistoma prominent; mystax with a few black bristles. Antennæ hardly longer than half the breadth of the head; 2nd joint mostly red; 3rd linear, tapering towards the tip. Thorax slightly covered with reddish tomentum, which is divided by a slender stripe; sides and hind border reddish. Abdomen blackish cupreous, shining, with glaucous reflexions. Legs reddish, robust, bristly; coxæ, trochanters, and femora black. Wings bright luteous, with black tips; hind border blackish; halteres whitish. Length of the body 8-10 lines; of the wings 14-18 lines.

4. *LAPHRIA VULCANUS*, Wied (see Vol. I. p. 10), var. *Fem.* Nigra, capite aurato, mystace nigro, pectoris lateribus aurato notatis, segmentorum abdominalium marginibus posticis glaucescentibus utrinque aurato maculatis, pedibus rufescentibus, alis nigricantibus, halteribus albidis.

*Female.* Black. Head with bright gilded tomentum and hairs; epistoma prominent; mystax with some black bristles. Antennæ hardly longer than half the breadth of the head; 3rd joint linear, tapering towards the tip. Sides of the pectus with patches of pale gilded tomentum. Hind borders of the abdominal segments with a glaucous tinge; their sides with spots of gilded tomentum. Legs reddish; coxæ and trochanters black. Wings blackish; veins black; halteres whitish. Length of the body 9 lines; of the wings 16 lines.

5. *LAPHRIA OBLIQUISTRIGA*, n. s. *Mas.* Nigra, capite argenteo, mystace albo-nigro, thorace strigis duabus obliquis argenteis, abdomine purpurascenti-cyaneo maculis duabus lateralibus argenteis, alis nigris iridescentibus, halteribus albidis.

Closely allied to *L. scapularis*.

*Male.* Black. Head silvery white, with white hairs; epistoma slightly prominent; mystax with white bristles and with a few longer black bristles. Antennæ hardly as long as half the breadth of the head; 3rd joint elongate-fusiform. Thorax with an oblique silvery streak on each side in front. Abdomen purplish blue, with a silvery spot on each side of the hind border of the 4th segment. Legs purplish-blue, robust, bristly; fore tibiæ and hind tarsi beneath with gilded tomentum. Wings black, very iridescent; halteres whitish. Length of the body 8 lines; of the wings 16 lines.

Subfam. ASILITES, *Walk.*

Gen. TRUPANEA, *Macq.*

6. *Trupanea strenua*, *Walk.* See Vol. IV. p. 106. *Mas.* Nigra, barba flavescenti-alba, mystace nigro, abdomine fasciculis basalibus albis,

pedibus crassis, alis lurido-fuscis, halteribus flavescens fascia subapicali nigra.

*Male.* Black. Head cinereous between the antennæ and the epistoma, thickly bearded with yellowish-white hairs; mystax composed of many black bristles. Third joint of the antennæ subfusiform; arista full twice the length of the 3rd joint. Abdomen nearly twice the length of the thorax, with black hairs and bristles, thickly adorned at the base with tufts of white plumes; appendages shining. Legs very robust, with cinereous hairs and black spines. Wings lurid brown; veins black; halteres yellowish, with a black subapical band. Length of the body 10 lines; of the wings 16 lines.

7. *TRUPANEA PLUTONICA*, n. s. *Mas et Fœm.* Nigra, crassa, barba mystaceque auratis, thorace rufescenti-piloso, abdomine lanceolato apicem versus rufescente, femoribus tibiisque rufo vittatis, alis lurido-fuscis, halteribus apice rufescentibus.

*Male and Female.* Black, very robust. Head gilded between the antennæ and the epistoma, thickly clothed behind and very thickly bearded with pale gilded hairs; epistoma very prominent, with black bristles along each side; mystax composed of gilded bristles. Third joint of the antennæ lanceolate; arista full twice the length of the 3rd joint. Thorax thinly covered with short reddish hairs; its sides and hind part with black bristles. Abdomen lanceolate, much narrower than the thorax, and nearly twice its length, clothed above towards its tip with long reddish hairs. Legs thick, with black spines and bristles; femora and tibiæ with dark red stripes. Wings lurid brown; radial areolet with a schistaceous streak; veins black; halteres with reddish knobs. Length of the body 10–12 lines; of the wings 18–22 lines.

Gen. *ASILUS*, *Linn.*

8. *Asilus determinatus*, *Walk.* See Vol. IV. p. 107.

Gen. *OMMATIUS*, *Illiger.*

9. *OMMATIUS DISCALIS*, n. s. *Fœm.* Cinereo-niger, capite mystaceque auratis, antennis basi pedibusque fulvis, thorace vittis tribus subauratis, abdomine fulvo fascia lata subapicali nigra, femoribus nigro strigatis, tarsis nigris, alis luridis apice nigricantibus.

*Female.* Cinereous-black. Head and pectus with pale gilded tomentum; epistoma not prominent; mystax with many gilded bristles. Antennæ tawny at the base. Thorax with three stripes of slightly gilded tomentum. Abdomen tawny, black towards the tip, which is tawny. Legs tawny, robust; hind femora with a short black streak; tarsi black. Wings lurid, blackish towards the tips; veins black, tawny towards the base; halteres tawny. Length of the body 9 lines; of the wings 18 lines.



10. *Ommatius scitulus*, *Walk.* See Vol. IV. p. 109.

Fam. BOMBYLIDÆ, *Leach.*

Gen. ANTHRAX, *Fabr.*

11. *Anthrax Tantalus*, *Fabr.* See Vol. IV. p. 111.

Fam. SYRPHIDÆ, *Leach.*

Gen. CERIA, *Fabr.*

12. *Ceria lateralis*, *Walk.* See Vol. IV. p. 118.

Gen. ERISTALIS, *Latr.*

13. *ERISTALIS TORTUOSA*, n. s. *Mas.* Atra, capite chalybeo-nigro, arista nuda, thorace fascia interrupta, abdomine fasciis chalybeis, tibiis basi albidis, alis obscure cinereis apud costam nigricantibus, halteribus pallidis.

Allied to *E. bomboides*.

*Male.* Deep black. Head chalybeous black, and very prominent in front. Antennæ black; arista simple. Thorax partly bluish black, with a chalybeous interrupted band on the suture in front. Abdomen with chalybeous bands. Legs black; tibiæ whitish towards the base. Wings dark cinereous, blackish along the costa; veins black; halteres pale. Length of the body 6 lines; of the wings 12 lines.

Gen. PARAGUS, *Latr.*

14. *PARAGUS LATIUSCULUS*, n. s. *Fæm.* Niger, latus, facie testacea, thorace cupreo-nigro, abdomine basi fasciisque duabus fulvescentibus, tarsi halteribusque fulvis, alis cinereis apice nigricantibus.

*Female.* Black, broad. Facies testaceous, produced. Proboscis testaceous towards the tip. Antennæ with the 3rd joint subfusiform. Thorax cupreous black. Abdomen dull tawny at the base, and with two dull tawny bands on the fore borders of the segments. Knees, tarsi, and halteres tawny. Wings cinereous, blackish at the tips; veins black. Length of the body 2½ lines; of the wings 5 lines.

Fam. MUSCIDÆ, *Latr.*

Subfam. DEXIDES, *Walk.*

Gen. DEXIA, *Meigen.*

15. *DEXIA FUSIFORMIS*, n. s. *Fæm.* Nigra, setosa, fusiformis, capite argenteo, frontalibus atris, antennarum articulo 3<sup>o</sup> longissimo, arista plumosa, thorace vittis tribus cinereis, scutello postico abdominisque

fasciis tribus fulvescentibus, pedibus longis, alis cinereis nigricante strigatis, halteribus pallide flavescentibus.

*Female.* Black, bristly, fusiform. Head silvery white, much narrower than the thorax; frontalia deep black, widening in front; epistoma prominent. Eyes bare. Proboscis slender, jointed. Antennæ not reaching the epistoma; 3rd joint slender, linear, full six times the length of the 2nd; arista plumose. Thorax with three cinereous stripes; scutellum tawny hindward. Abdomen semipellucid, much broader than the thorax, with three dull tawny bands; 1st and 2nd bands broad, interrupted; 3rd narrower, entire. Legs long. Wings cinereous, blackish along the costa and along the black veins; præbrachial vein slightly curved inward towards its tip, forming a well-defined right angle at its flexure; discal transverse vein undulating, parted by a little less than half its length from the border, and by a little less than its length from the flexure of the præbrachial vein; halteres pale yellowish. Length of the body 6 lines; of the wings 14 lines.

Subfam. MUSCIDES, *Walk.*

Gen. IDIA, *Meigen.*

16. IDIA DIVISA, n. s. *Mas et Fœm.* Obscure viridis, subtus testaceo-alba, capite atro, antennis nigris, thorace vittis quatuor cinereis, abdominis disco lurido-fusco, tarsis albidis apice nigris, alis obscure cinereis, costa nigra.

*Male and Female.* Dark green; testaceous white beneath, except towards the tip of the abdomen. Head deep black and shining in front. Antennæ, proboscis, and palpi black. Thorax with four cinereous stripes. Abdomen lurid-brown, except towards the tip. Tarsi whitish, with black tips. Wings dark cinereous; costa and veins black; præbrachial vein much rounded at its flexure; discal transverse vein hardly undulating, parted by much less than its length from the border, and by more than its length from the flexure of the præbrachial vein. Length of the body  $3\frac{1}{2}$ –4 lines; of the wings 6–7 lines.

Gen. MUSCA, *Linn.*

17. MUSCA (Gen. Silbomyia, *Macq.*) prospera, *Walk.* See Vol. IV. p. 133.

18. MUSCA (Gen. Musca, *Linn.*) UMBRIFERA, n. s. *Fœm.* Nigra, capite pectore abdomineque cinereis, peristomatis lateribus antennisque rufis, thoracis lateribus fulvo pilosis, segmentorum abdominalium marginibus posticis nigris, alis obscure cinereis antice nigricantibus, halteribus fulvis.

*Female.* Black, dull. Head cinereous; frontalia black, widening in front; sides of the peristoma dark red. Antennæ dark red, much shorter than the face. Pectus and sides of the thorax cinereous,

the latter with tawny hairs. Abdomen cinereous, shining, with numerous black bristles; hind borders of the segments black. Wings dark cinereous, blackish in front; veins tawny, black towards the tips; præbrachial vein forming a very obtuse and rounded angle at its flexure, almost straight from thence to its tip; discal transverse vein undulating, parted by hardly half its length from the border, and by much less than its length from the præbrachial transverse vein; alulæ cinereous; halteres tawny. Length of the body 5 lines; of the wings 10 lines.

Subfam. LAUXANIDES, *Walk.*

Gen. CELYPHUS, *Dalman.*

19. *Celyphus scutatus*, *Wied.* See Vol. I. p. 131.

Subfam. ORTALIDES, *Holiday.*

Gen. PLATYSTOMA, *Latr.*

20. *PLATYSTOMA FRONTALIS*, n. s. *Mas.* Cinerea, capite testaceo, fronte nigra, facie plana longissima nigro bimaculata, antennarum articulo 3<sup>o</sup> lineari longissimo arista nuda, thorace nigricante vittis quatuor cinereis, abdomine nigro brevi maculis fasciisque duabus cinereis, pedibus rufis, femoribus apice nigris, tarsis nigris basi rufis, alis subcinereis e maculis nigris subfasciatis.

*Male.* Cinereous. Head testaceous; front black, slightly oblique; face flat, very long, slightly retracted, forming an obtuse angle with the front, with a black spot on each side of the epistoma. Antennæ about half the length of the face; 3rd joint linear, very long; arista bare, hardly longer than the 3rd joint. Disk of the thorax blackish, with four slender cinereous stripes, the inner pair almost contiguous. Abdomen black, elongate-oval, much shorter and rather narrower than the thorax, cinereous towards the base, with two cinereous spots on each side of the middle part, and with a broad subapical cinereous band. Legs dark red; femora black towards the tips; tibiæ streaked with black; tarsi black except towards the base. Wings pale cinereous, with a luteous tinge about the slightly dilated basal part of the costa, with numerous black spots and dots, most of which form four irregular bands; veins black, luteous towards the base; discal transverse vein almost straight, parted by one-fourth of its length from the border, and by nearly twice its length from the præbrachial transverse vein. Length of the body 8 lines; of the wings 16 lines.

21. *PLATYSTOMA PUNCTIPLANA*, n. s. *Fæm.* Cinereo-nigra, capite piceo, arista subpubescente, thorace sublineato, pectore punctato, alis nigris limpido punctatis fascia furcata nigra.

*Female.* Cinereous black. Head piceous, white about the eyes; mouth

very thick. Antennæ much shorter than the face; 3rd joint elongate-conical; arista minutely pubescent. Thorax with several indistinct and very slender cinereous lines; pectus with cinereous punctures. Legs black, shining. Wings black, entirely covered with limpid points, except a black band which is forked in front; border beyond the band with limpid dots; veins black; discal transverse vein nearly straight, parted by one-fourth of its length from the border, and by about its length from the præbrachial transverse vein. Length of the body 3 lines; of the wings 6 lines. ●

Subfam. SEPSIDES, *Walk.*

Gen. PHYTALMIA, *Gerstaecker.*

Div. n.

*Mas.* Corpus longum, gracile, cylindricum. Caput supra depressum. Oculi cornubus duobus longis angustis apice dilatatis oblique porrectis et ascendentibus muniti. Antennæ angulatæ; articulus 3<sup>us</sup> linearis, longiusculus; arista gracilis, simplex. Thorax antice attenuatus. Abdomen compressum, thorace duplo longius. Pedes longissimi, gracillimi. Alæ angustæ.

Allied to *Calobata*.

*Male.* Body long, slender, cylindrical. Head flat above. Eyes furnished with two long slender folded appendages, which extend forward diverging and obliquely ascending, are dilated at the tips, and are almost half the length of the body. Antennæ angular; 3rd joint linear, rounded at the tip, a little longer than the 1st and 2nd together; arista slender, simple. Thorax attenuated in front. Abdomen compressed, full twice the length of the thorax. Legs very long and slender. Wings much like those of *Calobata* in structure.

22. PHYTALMIA GUTTIPENNIS, n. s. *Mas.* Nigra, capite pedibusque rufescentibus, cornubus antennisque nigris, pectore æneo-viridi, femoribus posterioribus apice pedibusque anticis nigris, tibiis anticis apice tarsisque anticis basi albis, alis nigricantibus albido quadriguttatis.

*Male.* Black. Head reddish; its appendages and the antennæ black, the former reddish towards the base. Pectus æneous-green, varied with cupreous and with purple. Legs reddish; tips of the posterior femora black. Fore legs black; femora towards the base and coxæ reddish; tibiæ at the tips and tarsi at the base white. Wings blackish, with four whitish dots in each; veins black; halteres with testaceous tips. Length of the body 7 lines; of the wings 10 lines.

Subfam. PSILIDES, *Walk.*

Gen. NERIUS, *Wied.*

23. *Nerius fuscipennis*, *Macq.* See Vol. I. p. 38.

Gen. CÆNURGIA, *Walk.*

24. CÆNURGIA REMIPES, *Walk.* (see Vol. IV. p. 164). *Fem.* Lutea, gracilis, nitens, capite guttis tribus nigris, antennarum articulo 3<sup>o</sup> lanceolato arista alba, thorace vittis duabus interruptis nigris, abdomine lanceolato, femoribus compressis latiusculis apice nigris, tibiis tarsisque piceis, alis lurido-cinereis.

*Female.* Luteous, slender, shining. Head a little broader than the thorax, with a black dot on the vertex and another on each side in front. Third joint of the antennæ compressed, lanceolate; arista white, stout, longer than the 3rd joint. Thorax with an interrupted black stripe on each side. Abdomen lanceolate, nearly twice the length of the thorax; oviduct exerted. Legs long; femora compressed, rather broad, with black tips; tibiæ and tarsi piceous. Wings lurid cinereous; veins black; præbrachial vein converging outward towards the cubital vein; discal transverse vein almost straight, parted by nearly its length from the border, and by a little more than twice its length from the præbrachial transverse vein. Length of the body 4 lines; of the wings 5½ lines.

Fam. HIPPOBOSCIDÆ, *Leach.*Gen. ORNITHOMYIA, *Olfers.*

25. ORNITHOMYIA OBSCURATA, n. s. Nigra, nitens, pedibus obscure viridibus robustis setosis, alis obscure cinereis, venis anticis nigris crassis.

Black, shining. Legs dark green, robust, setose. Wings dark cinereous; costal veins black, thick. Length of the body 2½ lines; of the wings 6 lines.

Fam. NYCTERIBIDÆ, *Leach.*Gen. NYCTERIBIA, *Latr.*

26. Nycteribia dubia? *Westw. Zool. Soc. Trans.* i. p. 289.

Inhabits also the Philippine Islands.

Catalogue of the Dipterous Insects collected in Batchian, Kaisaa and Makian, and at Tidon in Celebes, by Mr. A. R. WALLACE, with Descriptions of New Species. By FRANCIS WALKER, Esq., F.L.S.

[Read Nov. 15th, 1860.]

*Batchian.*

Fam. STRATIOMIDÆ, *Holiday.*Gen. PTILOCERA, *Wied.*

1. Ptilocera quadridentata, *Fabr.* See Vol. I. p. 7.