Journal of the proceedings of the Linnean Society.
https://www.biodiversitylibrary.org/bibliography/8473

v. 1 (1857): https://www.biodiversitylibrary.org/item/35032

Article/Chapter Title: Catalogue of the Homopterous insects collected at Sarawak, Borneo, by Mr. A. R. Wallace, with descriptions of new species
Author(s): Walker, F.
Subject(s): Hemiptera, Auchenorrhyncha, Fulgoromorpha, Fulgoroidea, Delphacidae, planthoppers

Holding Institution: Harvard University, Museum of Comparative Zoology, Ernst Mayr Library
Sponsored by: Harvard University, Museum of Comparative Zoology, Ernst Mayr Library

Generated 21 September 2018 10:13 AM
https://www.biodiversitylibrary.org/pdf4/083269800035032

[Read January 20th, 1857.]

Ord. CICADINA, Burmeister.

Fam. STRIDULANTIA, Burm.

Gen. PLATYPEURA, Amyot et Serv.

1. Platypeura semiulicida, Walk. See page 83.

Gen. TACUA, Amyot et Serv.

2. Tacua speciosa, Illiger (Tettigonia).
Inhabits also Hindostan.

Gen. DUNDUBIA, Amyot et Serv.

Inhabits also Tenasserim.

Inhabits also Corea.


6. Dundubia intemera, Walk. See p. 84.

7. DUNDUBIA DECUM, n. s., fem. Ferrugineo-lutea lata, mesothoracis seuto viridi, scutello fasciata latâ interruptâ nigriceante, abdominis segmentis nigro marginatis, tibiis suprâ tarsisque nigris, alis vitreis; antecurum arculis marginalibus fuscescentes vitattis, venis viridibus nigro varis, venis transversis apice venulosisque transversis nigriceante maculatis.

Female. Ferruginous luteous, broad. Scutum of the mesothorax green; scutellum with a broad diffuse blackish band consisting of four parts, and with the apical ridges partly black. Hind borders of the abdominal segments, tibiae above and tarsi black. Wings vitreous. Fore wings with an indistinct pale brown streak on each marginal arcolet; veins green, partly black; transverse veinlets and tips of the marginal veins clouded with blackish-brown. Length of the body 18 lines; of the wings 58 lines.

8. DUNDUBIA DUARUM, n. s., mas. Fulva, capite vittis tribus angulosis fasciâque antica prothorace vittis quatuor mesothoracis seuto vittis duabus scutelloque vittis quinque nigris, tymanis abdominis apicem attingentibus apices versus nigris, abdominis segmentis testaceo aut viridi marginatis, pedibus nigro varius, alis vitreis, antecurum venis nigris ex parte rufescentibus, venulis transversis 1\textsuperscript{a} et 2\textsuperscript{a} nigriceante maculatis.

Male. Tawny. Head above with three angular black stripes, and in front with a black band. Prothorax with four black stripes, which are dilated in front. Scutum of the mesothorax green, with a black stripe on each side; scutellum with five black stripes, the inner pair interrupted, the outer pair broad.
Opercula green; drums black towards the tips and along the inner border, extending to the tip of the abdomen. Legs testaceous, femora and tibiae striped with black; tarsi black; hind tarsi testaceous. Wings vitreous. Fore wings green at the base; veins black, reddish along the costa and towards the base; 1st and 2nd transverse veinalts clouded with blackish-brown. Length of the body 15 lines; of the wings 46 lines.

**Gen. Fidicina, Amyot et Serv.**

Inhabits also Corea.

**Gen. Huechys, Amyot et Serv.**

Inhabits also Hindostan and Java.

11. **Huechys facialis, n. s., mas.** Atra, fronte facie mesothoracisque maculis dubius testaceis, pectoris maculis dubius et segmentorum abdominalium marginibus rufis, alis anticus fuscis, posticis subcinereis.

**Male.** Deep black, shining. Front and face testaceous. Scutellum of the mesothorax with a very large testaceous spot on each side. Pectus with a red spot on each side. Hind borders of the abdominal segments red. Fore wings brown. Hind wings slightly greyish. Length of the body 9 lines; of the wings 22 lines.

**Fam. Fulgorina, Burm.**

**Subfam. Fulgorellæ, Spinola.**

**Trib. Fulgorites, Spinola.**

**Subtrib. Fulgoroides, Spinola.**

**Gen. Hotinus, Amyot et Serv.**


13. **Hotinus Intricatus, n. s., mas.** Ferruginous, rostro ascendente albo punctato apice luteo corpore vix breviore, abdomine nigro segmentorum marginibus viridibus, tibias tarsisque nigris, alis anticus viridi-venosis fasciis inferioribus testaceis, maculis exterioribus luteis, posticis latè cyaneo-viridibus, margine latisissimo purpurascente nigro.

**Male.** Ferruginous. Rostrum slightly curved and ascending, sprinkled with white flecks, rounded and luteous at the tip, a little shorter than the body. Abdomen black; hind borders of the segments green. Tibiae and tarsi black. Fore wings black, with three testaceous interior bands, and with twelve exterior luteous spots; 3rd band interrupted; veins green, brighter on the interior part than on the exterior part, where they are differently arranged. Hind wings bright bluish-green, with very broad purplish-black borders. Length of the body without the rostrum 11 lines; of the wings 33 lines.

This species is closely allied to *H. maculatus*, Oliv., but in the latter species
the rostrum is wholly black and more slender at the tip; the fore wings have green spots and no bands, and the blue part of the hind wings extends more towards the borders in front and less so hindward.


Male. Pale green. Rostrum compressed, keeled, hardly ascending, acuminate at the tip, testaceous above, a little shorter than the body. Abdomen and legs testaceous. Fore wings with a few testaceous brown-bordered dots of various size. Hind wings luteous. Length of the body without the rostrum 8 lines; of the wings 28 lines.

Subtrib. Lystroides, Spinola.

Gen. APHENA, Guérin.


It differs slightly from the three Silhet specimens in the British Museum, which are exactly alike.

18. APHENA SATURATA, n. s., mas. Nigra, thoracis lateribus ferrugineis, alis anticus viridi-nigris e lineâ transversâ arcuatâ lutescente in areas duas divisâ, arcâ interniore longiore semicirculis rufescensibus ornâtâ, exteriore subrotundâ creberrimâ luteo-venosis, posticis lineâ rectâ divisâ, marginis interioris dimidia basali flavo plagiato.

Male. Black. Ferruginous picceous, black beneath. Wings greenish-black, divided into two areas by a transverse line, which is curved and pale luteous in the fore wings, straight and rather darker in the hind wings; interior area longer than the other one, adorned in the forewings with various little luteous half-ringlets which are accompanied by dots, in the hind wings with partly green veins, and with a yellow patch towards the base of the interior border; exterior area nearly round, most thickly crowded with luteous veins; a glaucous bloom covering the interior area on the under side, and forming a semicircle on the exterior one. Length of the body 11 lines; of the wings 30 lines.

This species and A. rosea, Guér., are closely allied in structure and in the disposition of the colours, and are distinguished from the two preceding species by their much more ample wings.

19. APHENA VERIS-AMOR, n. s., mas et fem. Nigra, facie pedibusque ferrugineis, abdomen rufò, alis anticus saturatâ et lattissimè viridibus, costâ lineâ arcuatâ exteriore maculâque basali flavis, subtus tomento albo variis, posticis niveis spicè fulvius.

Male and Female. Black. Face and legs ferruginous. Abdomen red. Fore wings intensely grass-green, with the costa, a basal spot, a few dots in the disk, and an exterior curved transverse line yellow; tips tawny; under side with various marks of white tomentum, which also appears on

11*
the costa above at the base. Hind wings snow-white, with tawny tips. 
Length of the body 11 lines; of the wings 26 lines. 
This species has narrow fore wings like A. scutellaris, but belongs to a 
distinct group. 

20. Aphæna uniformis, n. s., fæm. Fusca, capite thorace antico pedi-
busque fulvis, alis fulvo venosis, antecis basi nigris fasciâ contigüâ flavâ. 
Female. Brown. Head, fore part of the thorax and legs tawny. Abdo-
minal segments with red borders. Wings with tawny veins. Fore wings 
narrow, black at the base, near which there is a yellow band. Length of 
the body 8 lines; of the wings 22 lines. 
This species will form a fourth group in the genus. The veins of the fore 
wings have the same structure over the whole surface. 

Subtrib. Dictryophoroides, Spinola. 
Gen. Dictryophora, Germar. 


22. Dictryophora specicarinna, n. s., mas. Testacea, capite thoraceque 
viridi carinatis, capite lanceolato tricarinato subascendente apice fusco, 
thorace septem-carinato, tibiis tarsisque rufis, alis hyalinis venis fulvis 
apice fusco nebulosis, stigmati fulvo. 
Male. Testaceous. Head and thorax with green keels. Head lanceolate, 
very slightly ascending, with three ridges, brown at the tip, as long as the 
breadth of the thorax. Thorax with seven ridges, three dorsal and four 
 lateral. Tibiae and tarsi red. Wings hyaline; veins and stigma tawny; 
apical transverse veins clouded with brown. Length of the body 5 lines; 
of the wings 12 lines. 

Gen. Leusaba, n. g. 

Dictryophora affinis. Caput arcuatum, breve, vertice marginato, fronte planâ 
longi-subquadratâ antice latiore, facie lanceolatâ fronte paullù breviore. 
Prothorax marginatus, valde arcuatus, margine postico excavato et infuso 
angulato. Mesothorax tricarinatus. Pedes longi. Alle antice extûs 
latiores, areolis basalis longissimis, discalis et marginalibus brevis-
oribus, venis marginalibus nonnullis furcatis, venulis transversis costalis et 
submarginalibus nullis. 
Allied to Dictryophora. Head short, arched; vertex with an elevated border, 
about four times broader than long; front smooth, subquadrate, much longer 
than broad, slightly widening in front, with two indistinct furrows which 
converge forwards; face lanceolate, a little shorter than the front. Pro-
thorax much arched, with an elevated border, excavated and much arched 
on the hind side. Mesothorax with three keels. Legs long. Fore wings 
widening towards the tips; five basal areolets very long; six discal areolets 
a little longer than the marginal areolets, the latter numerous, and four 
of them forked; no transverse costal or submarginal veins. 

23. Leusaba marginalis, n. s., mas. Viridis, capitis thoraceque marginibus 
et carinis ex maximâ parte testaceis, thorace guttis nonnullis nigro-fuscis,
alis hyalinis, anticus apud marginem exteriorem fuscis, venis nigris basi fulvis, stigmatic fusco.

Male. Green. Borders and keels of the head and of the thorax for the most part testaceous. Thorax with a few blackish-brown dots. Wings hyaline. Fore wings brown along the exterior border; veins black, tawny towards the base; stigma brown. Length of the body 5 lines; of the wings 14 lines.

Gen. Isporisa, n. g.


Allied to Leusaba. Head short, much arched; vertex with three angles in front; hind part excavated, and with an elevated border; front and face with elevated borders and with a middle keel; front subquadrate, a little longer than broad, slightly widening in front, its sides indistinctly concave; face triangular, a little broader and longer than the front. Thorax short. Prothorax and mesothorax with three keels, the lateral pair very oblique. Wings narrow. Fore wings with the five basal areolae very long; six discal areolae hardly longer than the marginal areolae, which are rather more numerous; all the latter are simple, and form a continuous row with the few very oblique exterior costal veinlets; no submarginal veinlets.

24. Isporisa apicalis, n. s., fem. Viridis, capite thorace pectoreque nigro maculatis, abdomen nigro, segmentorum marginibus posticis viridibus, pedibus nigro notatis, alis subluridis, anticus apice fuscis, venis nigris basi fulvis, stigmatico nullo.

Female. Green. Head with three black spots in front of the vertex; front and face with reddish borders, each with two black spots. Prothorax and mesothorax with a black dot on each side. Pectus with black spots. Abdomen black; hind borders of the segments green. Legs marked with black. Wings slightly lurid. Fore wings with brown tips; veins black, tawny towards the base; no stigma. Length of the body 3 lines; of the wings 8 lines.

Gen. Epura, n. g.


Allied to Dictyophora. Head with three keels, transverse above; vertex conical; front very long, with parallel sides; face lanceolate, much shorter than the front. Prothorax much arched, with four keels. Mesothorax with three keels.
Legs rather long. Fore wings rather narrow; basal areolets as long as
two-thirds of the length of the wing; marginal areolets a little longer than
the discal areolets, all of them simple; transverse costal veinlets oblique,
parallel except towards the tip.

25. Entura subtilis, n. s., mas et fem. Viridis (mas) aut testacea (fem.),
alis hyalinis, venis viridibus, stigmatico nullo.
Male and Female. Green (male) or testaceus (female). Wings hyaline;
veins green; no stigma. Length of the body 2 1/2–3 lines; of the wings
6–7 lines.


26. Daradax acris, n. s., mas. Viridis, mesothoracae tricarinato, abdomen
albo-tomentoso, alis antice fuscescente marginatis, posticis albis.
Male. Green. Head much longer than broad; vertex and front lanceolate,
with a keel in the middle and one on each side. Mesothorax with 3 keels.
Abdomen with whitish tomentum. Fore wings with brownish borders.
Hind wings white. Length of the body 3 lines; of the wings 7 lines.

Subtrib. Cixioides.

Gen. Cixius, Latr.


28. Cixius ferreus, n. s., mas. C. effrato validé affinis. Ferrugineus,
fronte facieque subcarinatis, pedibus fulvis, alis subcinereis, antices maculā
discali interiore guttaque costali exteriore fuscis, venis fulvis.
Male. Very nearly allied to C. effrato. Ferrugineous. Head convex
between the eyes; front and face with a slight middle keel; front much
broader than long; face lanceolate, much longer than the front. Abdo-
men with the apical appendages much developed. Legs tawny. Wings
slightly greyish. Fore wings slightly greyish, with a brown spot in the
disk before the middle, and with a brown dot on the costa near the tip;
veins tawny. Length of the body 3 1/2 lines; of the wings 7 lines.

29. Cixius diffinis, n. s. Fuscus, subtus testaceus, fronte perangustā,
thorace vittā dorsali fusiformi interlineatā straminē, pedibus testaceis,
alis fuscis, antices fasciūs duabusinterruptis guttisque nonnullis pallidē
viridibus.
Brown, testaceous beneath. Head narrow; vertex slightly concave; front
very long and narrow, with three keels. Thorax with a fusiform straw-
coloured dorsal stripe, divided longitudinally by a brown line. Legs
testaceous. Wings brown. Fore wings with two pale green bands, and
with a few pale green dots, of which the largest is on the costa near the
tip; 1st band quite interrupted; 2nd slightly interrupted. Length of the
body 3 1/2 lines; of the wings 7 lines.

30. Cixius guttifer, n. s., fem. Testaceus, capite suprā subquadrato subtus
lanceolato, pectore guttis duabus antices lateralibus nigris, alis anticus
pallidè testaceis subhyalinis nigro triguttatis, venis testaceis, posticis cinereis, venis nigricantibus.

**Female.** Testaceous. Head with elevated borders; vertex subquadratè; front and face with a middle keel; front full thrice longer than broad, slightly increasing in breadth towards the face, which is lanceolate and shorter than the front. Pectus with a black dot on each side in front. Fore wings pale testaceous, nearly hyaline, with a slightly darker spot near the tip of the costa, and with three black dots which form a curved line in the disk; veins testaceous. Hind wings grey with black veins. Length of the body 3 lines; of the wings 7 lines.


**Male.** Testaceous, with some red marks, slightly covered with whitish tomentum. Vertex, front and face very narrow; their borders much elevated. Wings greyish, with two oblique costal veinlets, and with a few discal exterior veinlets. Length of the body 2–2 3/4 lines; of the wings 6–7 lines.


**Male.** Black. Head with testaceous elevated borders; vertex very narrow; front and face forming an elongated fusiform compartment with a testaceous keel and testaceous marks. Hind borders of the abdominal segments and legs testaceous. Fore wings fawn colour, sprinkled with brown, paler towards the tips; costa and interior border pale testaceous, with blackish-brown dots. Hind wings blackish. Length of the body 2 lines; of the wings 5 lines.


**Male.** Black: like the preceding species in structure. Borders of the head and middle keel testaceous; borders of the front with minute black dots. Borders of the abdominal segments and legs testaceous. Fore wings testaceous, sprinkled and clouded with brown; stigma darker. Hind wings grey. Length of the body 1 3/4 line; of the wings 3 3/4 lines.


**Male.** Black. Ridges of the head and of the thorax, and legs piceous. Head with the borders much elevated; vertex sub quadratè, a little narrower in front; front and face together fusiform, with a rather deep keel. Pro-thorax extremely short. Mesothorax with three parallel keels. Abdomen
testaceous beneath; tip thickly covered with white flecks. Wings hyaline, slightly cinereous; veins black; exterior transverse veinlets and tips of the apical veins of the fore wings clouded with brown; stigma brown. Length of the body 3 lines; of the wings 7 lines.


**Female.** Black. Head with elevated borders; vertex very narrow; front with tawny sides, forming with the face a fusiform compartment which has a middle ridge. Prothorax extremely short. Mesothorax with three parallel keels. Segments of the abdomen with whitish borders. Legs testaceous; femora tawny. Wings hyaline, slightly greyish, with brown tips; veins black, tawny at the base; stigma dingy testaceous, black hindward. Length of the body 2 lines; of the wings 5 lines.

36. **Cixius modicus**, n. s., mas. Testaceus, capite supra angusto subtus fusiformi, thoracis disco abdominalque supra fusis, thorace tricinato, alis subhyalinis; anticus fusco viro trifasciatis apice fuscescentibus, venis nigris basi testaceis.

**Male.** Testaceus. Head with elevated borders; vertex narrow; front and face together fusiform with a middle ridge. Mesothorax with three parallel keels; its disk brown. Abdomen above brown; hind borders of the segments testaceous. Wings nearly hyaline; fore wings with three slender and very incomplete brown bands; tips brownish; veins black, testaceous at the base. Length of the body 2 lines; of the wings 5 lines.

37. **Cixius nexus**, n. s., fem. Testaceus, capite subtus perangusto, abdomine nigro marginibus testaceis, alis hyalinis, anticus testaceo fasciatis, fasciis interioribus nigricante marginatis exterioribus fusco nebuloosis.

**Female.** Closely allied to *C. Meander*, Walk. Testaceus. Head with elevated borders, slightly ascending and conical above; front and face very narrow. Abdomen black; hind borders of the segments testaceous. Wings hyaline. Fore wings with irregular testaceous bands, of which the interior have incomplete blackish borders, and the exterior are partly clouded with brown; veins testaceous. Length of the body 2 lines; of the wings 4½ lines.

38. **Cixius despectus**, n. s., fem. Nigricans, carinis abdomen subtus pedibusque testaceis, alis cinereo-hyalinis, anticus latis, fasciis plurimis transversis intus nigricantibus extus fuscis, venis nonnullis marginalibus furcatis.

**Female.** Blackish. Ridges of the head, abdomen beneath and legs testaceous. Head slightly conical and ascending above; front and face together almost lanceolate, with a rather high middle keel. Wings hyaline, slightly cinereous; fore wings broad, with several slender and interrupted bands, which are blackish towards the base and brown towards the exterior border; veins testaceous. Length of the body 2 lines; of the wings 5 lines.
This and some of the following species differ slightly from the typical Cixii in the veins of the wings, but hardly sufficiently to form new genera.


_Female_. Piceous. Head with elevated testaceous borders; vertex short; front and face with a testaceous keel, the former short, the latter lanceolate. Legs testaceous. Wings greyish; veins of the fore wings black, punctured with testaceous; transverse veinlets and tips of the marginal veins clouded with brown; a row of whitish dots along the exterior border. Length of the body 1½ line; of the wings 4 lines.


_Female_. Ferruginous. Vertex, front and face very narrow, with elevated black dotted borders. Wings brown; fore wings with five incomplete grey bands, which are shining and have a chalybeous tinge; veins black, ferruginous towards the base.—_Var._ Front and face black, with ferruginous borders. Length of the body 2 lines; of the wings 5½ lines.


_Male_. Black, ferruginous beneath. Vertex, front and face very narrow, with elevated borders. Legs ferruginous. Wings blackish; veins black. Length of the body 1½ line; of the wings 4 lines.

42. Cixius pallens, n. s., mas. Testaceus, capite sat lato, vertice brevi, fronte longi-subquadratâ, facie lanceolatâ, alis hyalinis, anticis subtestaceis, venis pallidis, areolis basalibus longissimis, discalibus nullis, marginalibus sat longis.

_Male_. Testaceous. Head moderately broad, with elevated borders; vertex very short; front and face with a middle keel, the former elongate-quadrate, the latter lanceolate. Wings hyaline, with pale veins; fore wings with a slight testaceous tinge, and with only one row of transverse veinlets; basal areoles very long; marginal areoles moderately long, some of their veins forked. Length of the body 1½ line; of the wings 4 lines.

43. Cixius finitus, n. s., fœm. Testaceus, capite thorace pedibusque testaceis, vertice transverso, fronte longi-subquadratâ, facie lanceolatâ, alis nigro-fuscis albo guttatis, anticis latis, venulis transversis vix ullis, venis marginalibus versus costam flexis.

_Female_. Testaceous. Head with an elevated border; vertex transverse; front and face with a very slight keel; front elongate-subquadrate; face lanceolate. Wings blackish-brown, with several whitish hyaline spots in the disk and along the exterior border; fore wings broad; veins black, ferruginous at the base, mostly simple; subcostal marginal veins curved; only one transverse veinlet. Length of the body 2 lines; of the wings 6 lines.
44. **Cixius dilectus**, n. s., mas et feem. Testaceus, *C. finiti* structurā, alis hyalinis, anticis latis fusco subfasciatis, venis nigris basi testaceis.

**Like C. finiti and C. nexus** in structure. *Male and Female*. Testaceous.

Wings quite hyaline; veins black, testaceous at the base; fore wings broad, with some irregular and incomplete pale brown bands. Length of the body 1½ line; of the wings 4 lines.

45. **Cixius dotatus**, n. s., mas et feem. Nigriceps, facie pectore pedibusque albidis, alis fuscis, anticis basi fasciā latā interiore maculis quinque exterioribus apiceque hyalinis, stignate fusco, posticis basi latē hyalinis.

**Male and Female**. Blackish. Face, pectus and legs whitish. Vertex short; front and face with a middle keel; front elongate-subquadrate, with whitish elevated borders; face lanceolate. Wings brown; fore wings with the base, a broad band, five exterior dots and the tips hyaline; veins black, several of them forked; one row of transverse veinlets; stigma black; hind wings hyaline for nearly one-third of the length from the base. Length of the body 1 line; of the wings 3½ lines.

46. **Cixius insuetus**, n. s., mas. Testaceus, fronte facieque longis perangustis, alis hyalinis albo tomentosis, venis albis.

**Male.** Testaceous. Head with an elevated border, transverse above; front and face long and very narrow, with a slight middle keel. Wings hyaline, but thickly covered with white tomentum; veins white, much like those of *C. dillectus* in structure. Length of the body ¾ line; of the wings 3 lines.

**Gen. Bidis, Walk.**

47. **Bidis pictula**, n. s., mas et feem. Viridis rufo nigroque vittata, verticis apice, pectoris maculis duabus abdominique nigris, alis hyalinis, anticis strigā apicali guttisque marginalibus fuscis, venis nigris albo fasciatis.

**Male and Female.** Green, with red and black stripes. Head with much elevated borders; vertex narrow in front, black at the tip; front and face narrow and very long, with red disks. *Antennae* long, filiform; 2nd joint much longer than the 1st; seta much longer than the 2nd joint. Pectus with two black spots. Abdomen black. Wings hyaline, with brown marks along the borders, and with a brown streak which extends from two-thirds of the length to the tip; veins black, with white bands. Length of the body 3 lines; of the wings 7 lines.

48. **Bidis punctifrons**, n. s., mas et feem. Testacea rufo vittata, fronte nigrō punctātā, thoracis carinis pallidioribus, alis subhyalinis, anticis guttis marginalibus strigāque apicali dilatatā fuscis, venis nigris testaceo fasciatis.

**Male and Female.** Testaceous, with red stripes, in structure like *B. pictula*. Front with three rows of black transverse dots; face with black dots at the base. Thorax with three brown stripes. Wings nearly hyaline; fore wings with marginal brown dots, and with an irregular brown streak, which is dilated towards the tip of the wing; veins black, with testaceous bands. Length of the body 3–3½ lines; of the wings 7–7½ lines.
49. **Bidis contigua**, n. s., mas. Testacea, rufo vittata, fronte nigro punctata, alis subhyalinitis, antecis vittae posticæ nigrae, venis testaceis.

*Male.* Testaceous; in structure like *B. pictula.* Head and thorax with red stripes. Front with three rows of black transverse dots. Prothorax with black dots on each side. Mesothorax with three pale brown stripes. Wings nearly hyaline; fore wings with a black stripe along the interior border; veins testaceous. Length of the body 3 lines; of the wings 7 lines.

**Gen. Ostama, n. g.**

*Caput* breve; vertex subquadratus lateribus subelevatis; frons plana, longisubquadrata, anteci latior; facies lanceolata. *Antennae* longiusculae, filiformes; articulus 2*, 1* non longior; seta brevis. *Mesothorax* tricarinalatus. *Alarum* anticarum areole basales marginalibus multo longiores; vene marginales plurime, nonnullae furecatae. Head short; vertex subquadrate, with elevated borders; front smooth, elongate-subquadrate; face lanceolate, a little shorter than the front. *Antenne* filiform, rather long; 2*nd* joint as long as the 1*st*; seta short. Mesothorax with three slight parallel keels. Fore wings with a row of transverse veinlets which divides the basal veins from the marginal veins, the former nearly twice the length of the latter, which are rather numerous, and some of them forked.


*Male.* Ferruginous, black beneath. Borders of the thorax testaceous. Abdomen above and tibiae red. Fore wings brown, with numerous testaceous punctures; part beyond the transverse veinlets hyaline, with a curved stripe and a streak of a blackish-brown hue; hind wings grey. Length of the body 2½ lines; of the wings 7 lines.

**Gen. Erana, n. g.**

*Caput* lateribus elevatis carinaceo mediæ; vertex subconicus; frons subquadrata, faciem versus lateri; facies lanceolata. *Antennae* longae, valde, filiformes; articulus 1*st* brevis; 2*nd* longus; seta nulla. *Mesothorax* carinatus tribus parallelis. *Alarum* anticarum areolae basales discalibus et marginalibus triplö longiores; venulae transverse costales paucæ perobliquae. Head with elevated borders and with a middle keel; vertex nearly conical; front elongate-subquadrate, broader towards the face which is lanceolate. *Antennae* elongated, stout, filiform; 1*st* joint short; 2*nd* long; no arista. Mesothorax with three parallel keels. Fore wings with the basal areola full thrice longer than the discal and marginal areola together; the marginal areola as long as the discal areolae and not more numerous; costal transverse veinlets few and very oblique.

51. **Erana operosa**, fem. Ferruginea; alis anticis apud venas chalybeo notatis, posticis nigricantibus.

*Female.* Ferruginous. Fore wings with chalybeous spangles on the veins; hind wings blackish. Length of the body 2½ lines; of the wings 6 lines.
Gen. Rhotala, n. g.

Caput supra conicum, lateribus elevatis, fronte facieque planis, elongatis, punctulatis. Antennae brevissimae, filiformes; articulus 2° 1° longior; arista longa, gracilis. Prothorax sit magnum; areae medii conica, tricarinata. Aile antice areolis basalibus longissimis, venulis transversis plurimis exterioribus nonnullisque costalisbus.

Vertex conical, with elevated borders; front and face forming a fusiform compartment which is flat and punctured. Antennae cylindrical, rather short; arista long, slender. Prothorax well developed; middle part conical, with three keels. Fore wings with very long basal areoles, and with several transverse veinlets on the marginal areolets; exterior part of the costa with some oblique parallel veinlets.

52. Rhotala delineata, n. s., mas et fem. Testaceae, vertice thorace alis-que anticis brevibus ferrugineis conspersa, fronte facie pectoerico nigro, pedibus ferrugineis nigro vario, anticis testaceo fasciatis, alis posticis nigricantibus.

Male and Female. Testaceae. Vertex, thorax and fore wings thickly covered with ferruginous dots. Fore wings with three short black streaks forming an oblique transverse line. Head beneath and pectus black.

Legs ferruginous, with black marks; fore legs with testaceous bands. Hind wings blackish. Length of the body 4 lines; of the wings 10 lines.

Trib. Issites, Spinola.

Gen. Issus, Fabr.

53. Issus precedens, n. s., fem. Piceus, capitis lateribus elevatis, vertice longi-subquadrate, fronte antici dilatata testaceae, pectore pedibusque testaceo notatis, alis anticis nitentibus testaceo suboboletè guttatis, posticis nigricantibus.

Nearly allied to I. sinensis. Female. Piceous. Head with elevated borders; vertex elongate-subquadrate; front broader and testaceous in front. Pectus and legs with testaceous marks. Fore wings shining, with indistinct testaceous dots. Hind wings blackish. Length of the body 3 lines; of the wings 6 lines.

54. Issus compositus, n. s., mas. Obscurè testaceae, capite thorace alisque anticis nigro confertissimè conspersis, capitis lateribus elevatis, vertice transverso, fronte tricarinata, alis anticis latis plagâ nigrâ submarginali, angulo interiore acuto, posticis cinereis.—Var. Alis anticis pallidioribus plagâ nullâ. Male. Dull testaceous. Head, thorax and fore wings thickly sprinkled with black. Head with elevated borders; vertex transverse; front with three keels, slightly broader in front. Legs with a few black marks. Fore wings broad, with a black patch near the interior border; interior angle prominent, almost acute; hind wings grey.—Var. Fore wings paler, with no black patch. Length of the body 4 lines; of the wings 8 lines.

55. Issus retractus, n. s., mas. Piceus latus, capitis lateribus elevatis fulvis, vertice transverso, fronte latâ, carinâ mediâ suboboletâ carinâque
transversâ posticâ, facie, mesothoracis disco pedibusque fulvis, alis anticis non angulatis, posticis nigro-cinereis.

**Male.** Picceus, broad. Head with elevated tawny borders; vertex much broader than long; front hardly longer than broad, very slightly broader in front, with a slight middle keel and a more distinct transverse keel towards the vertex; face, disk of the mesothorax and legs tawny. Fore wings not angular, conical towards the tips; hind wings blackish grey, with many transverse veinlets. Length of the body 3 lines; of the wings 6 lines.

56. **ISSUS FURTIVUS,** n. s., fem. Cervinus, capitis lateribus elevatis, vertice subquadrato, fronte antice latiore lateribus tuberculatis concavis carinâ mediâ subobsoletâ, alis anticus fusco variis non angulatis, posticis nigro-cinereis.

**Female.** Fawn-colour. Head with elevated borders; vertex a little longer than broad, indented behind with a corresponding angle in front; front elongate-subquadrate, broader towards the face, with concave minutely tuberculated sides and with a nearly obsolete middle keel. Fore wings with various brown marks, not angular; hind wings blackish-grey. Length of the body 2½ lines; of the wings 5 lines.

57. **ISSUS PATULUS,** mas. Picceo-ferrugineus, capite testaceo, marginibus elevatis, vertice parvo quadrato, fronte longâ carinatâ antice latiore, pedibus fulvis, alis posticis nigro-cinereis.

**Male.** Pitchy ferruginous. Head testaceous, with elevated borders; vertex small, quadrate; front more than twice longer than broad, a little broader towards the face, with a distinct middle keel. Legs tawny. Hind wings blackish-brown. Length of the body 2½ lines; of the wings 5 lines.

58. **ISSUS INERAS,** mas. Picceo-ferrugineus, capite fulvo lateribus testaceis, marginibus elevatis, fronte longâ carinatâ antice dilatatâ, pedibus fulvis, alis posticis nigro-cinereis.

**Male.** Pitchly ferruginous. Head tawny, with elevated borders; sides testsaceous; vertex small, quadrate, dilated towards the face, with a distinct middle keel. Legs tawny. Hind wings blackish-grey. Length of the body 2½ lines; of the wings 5 lines.

59. **ISSUS GRAVIS,** n. s., mas. Ferrugineus, capitis marginibus elevatis, vertice conico, fronte carinatâ obconicâ, facie transversâ disco nigricante, alis anticus venulâs transversis nullis, posticis subhyalinis, venis venulisque perpaucis.

**Male.** Ferruginous. Head with elevated borders; vertex conical, with a brown mark on each side; front obconical, with a distinct middle ridge and a slight oblique ridge on each side; face transverse, blackish, with a testaceous border. Legs tawny, with some ferruginous marks. Fore wings with no transverse veinlets; hind wings subhyaline, with very few veins and veinlets. Length of the body 3 lines; of the wings 6 lines.

60. **ISSUS ARCTATUS,** n. s., fem. Ferrugineus, capitis marginibus elevatis, vertice transverso, fronte carinatâ subquadratâ antice latiore, facie carinatâ brevi-lanceolatâ, pedibus testaceis, alis posticis cinereis.

**Female.** Ferruginous. Head with elevated borders; vertex much broader
than long; front a little longer than broad, slightly wider in front, with a slight keel; face keeled, short-lanceolate. Legs testaceous. Hind wings grey. Length of the body 3 lines; of the wings 7 lines.

61. Issus sobrinus, n. s., mas. Fulvus, capitis lateribus albidis, marginibus elevatis, vertice transverso minimo, fronte longá carinatá antíce latiore, facie lanceolatá carinatá, alis posticis nigro-cinereis.

**Male.** Tawny. Head with whitish sides and elevated borders; vertex transverse, very small; front twice longer than broad, slightly widening in front, with a distinct keel; face keeled, lanceolate. Hind wings blackish-grey. Length of the body 2 lines; of the wings 5 lines.

62. Issus ovalis, n. s., mas. Sordidē testaceus, capite latíssimo lateribus elevatis, vertice transverso punctis duobus nigris, fronte transversá carinatā, alis anticis plagā costalī sordidē albidā, posticis nigro-cinereis.

**Male.** Dingy testaceous. Head very broad; vertex, front and face transverse, with elevated borders; vertex twice broader than long, with a minute black dot on each side in front; front and face with a slight keel, the former a little broader than long, the latter lanceolate. Fore wings with a dingy whitish patch by the middle of the costa; hind wings blackish-grey. Length of the body 2 lines; of the wings 5 lines.

63. Issus literosus, n. s., mas. Testaceus, capitis marginibus elevatis, vertice transverso, fronte quadratā carinatā, carinā transversā guttisque duabus posticis, facie lanceolatā, alis anticis nigro-plagiatis, posticis fusco-cinereis.

**Male.** Testaceous. Head with elevated borders; vertex much broader than long; front subquadrate, with a slight middle keel, and a more distinct transverse keel near the vertex, where there is a black dot on each side; face lanceolate. Fore wings with a few black patches; hind wings brownish-grey. Length of the body 3 lines; of the wings 6 lines.

64. Issus lineatus, n. s., mas. Testaceus nigro varius, capitis marginibus elevatis, vertice conico depressō, fronte longā subcarinatā antíce latiore, facie lanceolatā, abdominis dorso rufo, segmentis testaceo marginatis, alis testaceo reticulatis, anticis nigro-fuscis, posticis rufescentibus.

**Male.** Testaceous, with black marks. Head with elevated borders; vertex conical, depressed, with a black spot on each side; front twice longer than broad, with a slight middle keel, much wider towards the face which is lanceolate. Abdomen red above; hind borders of the segments testaceous. Wings with testaceous veins and veinlets, the latter numerous; fore wings blackish-brown; hind wings reddish. Length of the body 4 lines; of the wings 8 lines.

**Gen. Hiracia, n. g.**

*Corpus ellipticum, convexum. Caput marginibus vix elevatis; vertice conico, tricarinatus; frons faciesque carinis tribus vix conspicuis, haec lanceolata, illa obconica antīce excava. Prothorax transversus, quinque-carinatus, antīce angustior. Mesothorax trigonus, tricarinatus, apice acutus. Ales antice venis venulisque transversis plurimis elevatis, apice acuminatæ.*
Body elliptical, convex. Head with the borders hardly elevated; vertex conical, with three distinct keels; front and face with three indistinct keels, the former obconical, excavated next the face, which is lanceolate. Prothorax full twice broader than long, narrower in front, with five keels. Mesothorax triangular, acuminated, with three keels. Fore wings acuminate, with numerous rugulose veins and transverse veinlets.


Gen. Hemisphérius, Schaum.

66. Hemisphérius niger, n. s., mas et fœm. Niger nitens subtilis fulvescens aut testaceus, alis antiquis confertissimè cribratis, posticis nigrocinereis. Male and Female. Black, shining, tawny or testaceous beneath. Fore wings thinly covered with minute punctures; hind wings blackish-grey. Length of the body $1\frac{1}{2}$ line; of the wings 3-3½ lines.

67. Hemisphérius typicus, n. s., mas. Testaceus, alis antiquis fusco bifasciatis, fasciâ 2â arcuatâ, posticis subcinereis. Male. Testaceous. Fore wings with two brown bands, the hind one undulating; hind wings greyish. Length of the body 1 line; of the wings 3 lines.

68. Hemisphérius torpidus, n. s., mas. Testaceus nitens, alis antiquis confertissimè cribratis, posticis subcinereis. Male. Testaceous, shining. Fore wings thinly covered with very minute punctures; hind wings greyish. Length of the body $\frac{3}{4}$-1 line; of the wings 2½-3 lines.

Gen. Eurybrachys, Guérin.


70. Eurybrachys conserta, n. s., fœm. Testacea, capite truncato-conico, fronte obconica subcarinata sulco antico transverso, facie basi sulcatâ, prothorace vittis duabus obliquis nigris, alis antiquis reticulatis nigro varii costâ dilatatâ, posticis albis. Closely allied to E. tuberculosa? Female. Testaceous. Head above truncate-conical; front obconical, with a short keel behind and with a transverse furrow in front; face lanceolate, with a short furrow behind. Prothorax with two black oblique stripes. Fore wings with various black marks, reticulated with numerous transverse veinlets, slightly tuberculated; costa dilated, with very numerous transverse veinlets; hind wings white. Length of the body 7 lines; of the wings 16 lines.

Female. Pale dull green, testaceous beneath. Head above truncate-conical; front elongate-oblanceolate, with a keel, which does not extend to the fore border; face lanceolate, with a keel in front. Mesothorax with some brown marks on each side. Fore wings reticulated with numerous transverse veinlets, slightly tuberculated; costa slightly dilated, with very numerous transverse veinlets; hind wings pale greyish. Length of the body 5 lines; of the wings 14 lines.

72. Eurybrachys intercepta, n. s., mas. Pallide viridis subtus testacea, capite brevi-conico subtus lanceolato plano lateribus elevatis, alis anticus strigâ basali guttisque duabus apud marginis interioris apicem nigris, posticus albidis.

Male. Pale green, testaceous beneath. Head above short-conical; front and face together lanceolate and with elevated borders, but not keeled. Fore wings with a black basal streak and with two black dots near the end of the interior border. Hind wings whitish. Length of the body 3½ lines; of the wings 9 lines.

73. Eurybrachys surrecta, n. s., mas. Pallidè cervina subtus pallidè testacea, capite lateribus elevatis, vertice conico carinato, fronte facieque planis, illà lineari, alis anticus maculâ basali guttisque duabus discalis inferioribus nigris, costâ undulatâ, posticus albis.

Male. Pale fawn-colour, pale testaceous beneath. Head with elevated borders; vertex conical, with a middle keel; front and face not keeled, the former linear. Fore wings with a black basal spot, and with two black discal dots; costa undulating; hind wings white. Length of the body 3½ lines; of the wings 9 lines.

Subtrib. Flatoïdes, Spinola.

Gen. Flatoïdes, Guérin.

Inhabits also China.

75. Flatoïdes marginalis, Walk. See page 89.

76. Flatoïdes discalis, Walk. See page 89.


Male. Black. Head and sides of the thorax testaceous. Fore wings shining about the borders, with an inner cinereous band, and an outer cinereous patch, the latter including a deep black dot. Hind wings blackish cupreous. Length of the body 4 lines; of the wings 10 lines.

78. Flatoïdes posterus, n. s., mas. Piccus, pedibus fulvis, alis nigricantibus, anticus apud marginem interiorem nigro-fuscis, fasciâ brevi anticâ strigosique duabus marginalibus hyalinis.

Male. Piccous. Legs tawny. Wings blackish; fore wings blackish-brown
about the interior border, with a hyaline band extending from the middle of the costa to the disk, and with two marginal hyaline streaks. Length of the body 3 lines; of the wings 8 lines.

79. FLATOIDES LIMITARIS, n.s., mas. Piceus subitus testaceus, alis antecis apud margines nitentibus, plagâ cinereâ maculâque nigra discalibus, maculâ costalì alba.

*Male.* Piceous; under side and legs testaceous. Thorax with three keels. Fore wings shining about the borders; middle of the disk cinereous, and including a black spot; a white spot on the middle of the costa. Length of the body 3-4 lines; of the wings 8-10 lines.

80. FLATOIDES STUPIDUS, n.s., fem. Fulvus subitus testaceus, alis nigro-æneis, apud margines nitentibus, anticis guttis duabus (unâ costalì, alterâ subcostalì) albidì, subapicalì nigra.

*Female.* Tawny, testaceous beneath. Wings blackish aeneous, shining about the borders; fore wings with a black subapical dot, with two indistinct whitish dots, one costal, the other subcostal. Length of the body 3 lines; of the wings 8 lines.

This species and the preceding and *F. veterator* are very closely allied.

**Gen. RICANIA, GERMAR.**

81. RICANIA OSMYLOIDES, n.s., mas. Testacea, capite thoraceque nigro maculatis, alis hyalinis, anticis maculis marginalibus fasciisque duabus incompleitis nigris, stigmate albido, posticis nigro marginatis.

*Male.* Testaceous. Vertex arched, with two black stripes; front with five black stripes, the middle one and the exterior pair shortened in front; four spots in front and the borders also black; face with a black stripe. Prothorax with two black stripes; mesothorax with eight black spots. Wings hyaline, with two incomplete black bands; veins black; fore wings with black marginal spots, and with a whitish stigma; hind wings with black borders. Length of the body 4 lines; of the wings 12 lines.

82. RICANIA SUBACTA, n.s., fem. Testacea, fronte carinâta, abdominis apice nigro nitido, alis hyalinis nigro-venosis, anticis stigmate nigro.

*Female.* Testaceous. Head with elevated borders; vertex arched; front with a middle keel. Abdomen black and shining at the tip. Wings hyaline; veins black; fore wings with a black stigma. Length of the body 3 lines; of the wings 8 lines.

**Gen. BENNA, WALK.**

83. BENNA CANESCENS, n.s., mas et fem. Testacea, capitis marginibus elevatis, fronte facieque perangustis, halteribus apice albis, alis subcinereis, anticis guttâ basali nigra, stigmate albido.

*Male and Female.* Testaceous. Head with elevated borders; front and face very narrow. Halteres with white tips. Wings very pale cinereous; veins blackish, testaceous at the base; fore wings with a black basal dot and with a whitish stigma, their transverse veinlets fewer than those of *B. capitulata.* Length of the body 3 lines; of the wings 8 lines.

LINN. PROC.—ZOOLOGY. 12
84. **Benna clarescens**, n. s., mas. Testacea, halteribus apice albis, alis subcinereis, antecis extus albidó literatis, fasciás interiores fusís.

**Male.** Testaceous; like the preceding species in structure. Halteres with white tips. Wings greyish; fore wings with a brown band before the middle, and with exterior whitish marks; veins testaceous. Length of the body \(2\frac{1}{2}\) lines; of the wings 7 lines.

85. **Benna præstans**, n. s., fœm. **Ferruginea subtrès fulva, alis subhyalinis, antecis triente basali ferrugineâ fusco marginatâ.**

**Female.** Ferruginous, tawny beneath; like the two preceding species in structure. Wings nearly hyaline; third part from the base of the fore wings ferruginous with a brown border; veins testaceous. Length of the body \(2\frac{1}{2}\) lines; of the wings 7 lines.

**Gen. Sërida, n. g.**

**Caput** subascendens, lateribus elevatis angulum acutum utrinque fìngentibus; vertex linearis; frons angusta, carinata, antecè dilatata; facies lanceolata, subcarinata. **Thorax** tricarinatus. **Alæ** antice angulis rotundatis, venulis costalisbus venisque marginalibus plurimum.

Head slightly ascending, with elevated borders, forming a slightly acute angle on each side in front of the vertex which is linear; front narrow, with a distinct keel, widening towards the face which is lanceolate, and has a slight keel. Thorax with three slight keels. Fore wings moderately broad, with rounded angles; marginal veins and costal veinlets very numerous, the latter oblique and parallel.

86. **Sërida latens**, n. s., mas. Fulva, frontis lateribus basi prothoraceque nigro guttatis, alis anticas guttis paucis discalisbus costâ lineisque transversis exterioribus nigricantibus, apice cinereo-hyalinis lineolis duabus obliquis nigricantibus.

**Male.** Tawny. Sides of the front at the base and prothorax with black dots.

Fore wings with the costa, some discal spots, and some exterior transverse lines blackish; tips cinereous hyaline, with two short oppositely oblique black lines. Length of the body 4 lines; of the wings 10 lines.

87. **Sërida fervens**, n. s., mas. Fulva, fronte viridi sat latâ, marginibus carinâque fulvis, alis apice fuscis, antecis fusco bifasciatis.

**Male.** Tawny. Front green, moderately broad, with the borders and the keel tawny. Wings with brown tips; fore wings with two brown bands, one near the base, the other oblique irregular and beyond the middle. Length of the body 3 lines; of the wings 8 lines.

This species differs much in the structure of the front from **S. latens**, which is the type of the genus.

**Gen. Paricana, n. g.**

**Caput** laeve, planum; vertex brevis; frons longi-subquadrata; facies lanceolata. **Antennæ** aristâ longâ gracili. **Thorax** tricarinatus. **Alæ** antice apice latae rotundatae, areolis medii et marginalibus longitudine subaequalibus.

Head smooth, not keeled nor with elevated borders; vertex short; front
elongate-subquadrate; face lanceolate. Antennae with a long and slender arista. Thorax with three keels. Fore wings broad and rounded towards the tips; basal areoles about half the length of the wing; middle and apical areoles of nearly equal length; a few oblique costal transverse veinlets beyond the middle.

88. Paricana dilatipennis, n. s., fem. Testacea, fronte facie apice pectorisque fasciis nigris, alis hyalinis, anticis fasciis duabus (unà basali, alterà mediat) fuscis. Female. Testaceous. Head shining; front and tip of the face black. Pector with a black band. Wings hyaline; veins black, tawny at the base; fore wings with a black band near the base and another across the middle. Length of the body 2½ lines; of the wings 7 lines.

Gen. Nicerta, n. g.

Corpus gracile. Captus compressus, perangustum; vertex lateribus valdè elevatis; frons cultriformis; facies lanceolata. Antennæ articulo 2o longo, cylindrico. Alæ angustæ; antice venis paucis, venulis nonnullis transversis exterioribus posterioribus.

Body slender. Head much compressed, very narrow; vertex with the borders much elevated; front forming an acute edge; face lanceolate. Antennae with the 2nd joint long and cylindrical. Wings narrow; fore wings with few veins; hind part beyond the middle with some transverse veinlets.


90. Nicerta Flammula, n. s. Lætæ et saturatæ roseae, tarsi albidis. Very bright rosy-red. Tarsi whitish. Length of the body 1½ line; of the wings 5 lines.

91. Nicerta Fervens, n. s. Testacea, capite elongato strigis rufis, alis anticis rufis hyalino guttatis, posticis hyalinis. Testaceous. Head much elongated, conical when viewed laterally, streaked with red. Fore wings red, with very numerous hyaline spots. Hind wings hyaline. Length of the body 2½ lines; of the wings 7 lines.

Gen. Eucarpia, n. g.

Captus breve, marginibus valdè elevatis; vertex transversus, subquadратus; frons et facies carinate, hece lanceolata, illa subquadrata. Thorax brevis, bicornatus. Pedes breves, tenues. Alæ angustæ; antice areolis discalisibus perpaucis, marginalibus plurimis.

Head short, with the borders much elevated; vertex and front subquadrate, the former transverse; front and face keeled, the latter lanceolate. Thorax short; scutum with two parallel keels. Legs short, slender. Wings narrow. Fore wings slightly widening from the base to the tips which are rounded; discal areoles very few; marginal areoles large, numerous.

92. Eucarpia univitta, n. s. Ferruginea subtus testacea, capitis thoracisque
carinis pedibusque testaceis, alis anticas fuscis, disco margineque tenui flavis, posticis cinereo-hyalinis.

Ferruginous, testaceous beneath. Borders and keels of the head and of the thorax and legs testaceous. Fore wings brown; the middle of the disk and a slender stripe along the border yellow. Hind wings greyish hyaline. Length of the body 1½ line; of the wings 4 lines.

**Gen. Rhotana, n. g.**


*Alae* laterae; anticae venis venulisque transversis paucis.

Vertex of the head forming a sharp edge; front triangular, acuminated towards the vertex; face lanceolate. *Prothorax* very short. *Mesothorax* with elevated borders and with two indistinct keels. Wings broad; fore wings with a few veins, some of which are forked, and with only one line of transverse veinlets.

93. **Rhotana latipennis**, n. s., mas. Testacea, capitis margine rufa, alis hyalinis, anticas cervino nebulosis maculâ posticâ subapicali nigra, posticis maculâ magnâ apicali nigra.

*Male*. Testaceus. Head red along the edge. Wings hyaline; veins testaceous; fore wings slightly clouded with fawn-colour, with a black posterior subapical spot; hind wings with a large black apical spot. Length of the body 2 lines; of the wings 5 lines.

**Gen. Pochazia, Amyot et Serv.**


*Male*. Black. Front very broad. Abdomen with white flecks at the tip. Fore wings with a curved hyaline discal stripe which is attenuated at each end; hind wings hyaline, bordered with black except along the costa and at the tips. Length of the body 4 lines; of the wings 15 lines.

**Gen. Nephesa, Amyot et Serv.**

96. **Nephesa gratia**, n. s. Pallidè viridis, pedibus testaceis, alis anticas purpureo marginatis angulo exterio re rotundato interiore acutiore, posticis albis.

Pale green. Legs testaceous. Fore wings with narrow purple borders; apical angle rounded; interior one rectangular, well defined; hind wings white. Length of the body 4–5 lines; of the wings 12–14 lines.

97. **Nephesa guttata**, n. s. Pallidè testacea, alis albis, anticas nigro guttatis angulo exterio re rotundato interiore subobtuso.

Pale testaceous. Wings white; fore wings with about eighteen black dots; apical angle rounded, interior one slightly obtuse. Length of the body 3 lines; of the wings 10 lines.
98. Nephesa volens, n. s. Pallidè testace, alis anticis suboboletè luteo marginatis angulo exteriore rotundato interiore subobtuso, posticis albis. Pale testaceous. Fore wings indistinctly bordered with luteous; apical angle rounded; interior one slightly obtuse. Length of the body 3 lines; of the wings 9 lines.

99. Nephesa lutea, n. s. Lutea, alis anticis angulo exterioire valdè rotundato interiore producto acuto, posticis albis. Luteous. Fore wings with fewer veins than those of the three preceding species; apical angle very much rounded; interior one produced, acute. Hind wings white. Length of the body 3 lines; of the wings 8 lines.

The acute front of this species distinguishes it from every other in the genus.

101. Nephesa deducta, n. s. Viridis, alis anticis luteo marginatis, angulis rotundatis, posticis albis. Green. Fore wings with luteous borders; apical angle much rounded; interior one slightly rounded. Hind wings white. Length of the body 2½ lines; of the wings 7 lines.


Male. Green, pale green beneath. Fore wings with luteous borders; apical angle rounded; interior one almost rectangular, hardly rounded. Hind wings white. Length of the body 3 lines; of the wings 11 lines.
The fore wings of this species are deflexed in repose, not vertical as in the other species of the genus.

Gen. Flata, Fabr.

103. Flata obscura, Fabr. See page 92.

Gen. Colobesthes, Amyot et Serv.

104. Colobesthes aliplana, Walk. See page 92.

Gen. Poeioptera, Latr.


106. Poeioptera maculata, Guér. See page 92.

Var. More like the Java specimens than those from Malacca, but differing from both.

107. Poeioptera borida, n. s., mas. Testacea subtus albida, alis anticis subfuscis albo guttatis, vittâ undulatâ pallidissimâ purpurascente, margine interiore albido punctato, posticis albis. 

Male. Testaceous, whitish beneath. Abdomen and hind wings white. Fore
wings very pale brown, with many minute white dots, and with a forked, much curved, very pale purplish stripe which includes a spot, and is interrupted along the exterior border; interior border darker, with white points towards the base. Length of the body 5 lines; of the wings 20 lines.


Male. Pale testaceous. Head narrow, with the borders much elevated. Antennae, fore tibiae and fore tarsi black. Wings white. Fore wings pale testaceous at the base, with three exterior black lines, of which two are by the interior border, and the third is discal, angular, and much longer than the others; two pale brown curved bands, one submarginal, parallel to the other which is marginal. Length of the body 4 lines; of the wings 12 lines.

Gen. Ficarasa, n. g.

Caput lateribus elevatis; vertex arcuatus; frons subcarinata; lateribus angulatìs; facies lanceolata. Prothorax valde arcuatus. Mesothorax tricarinatus. Ale antice areolis basilibus longissimis, mediis et marginalibus subaequalibus, venulis plurimis transversis costalibus et exterioribus plurimis.

Head with elevated borders; vertex transverse, arched; front elongate, with a slight middle keel, with a slight groove along each side, and with very obtusely angular borders; face lanceolate. Fore wings rather narrow, rounded towards the tips; basal areolae more than half the length of the wing; marginal areolae very little longer than the middle areolae, several of which are forked; costal veinlets and exterior veinlets numerous, the former oblique and parallel.


Male. Pale testaceous. Wings hyaline; veins whitish testaceous. Length of the body 3 lines; of the wings 10 lines.


110. Eupilis albilineola, Walk. See page 93, where the length of the wings is erroneously stated to be 7 instead of 12 lines.

111. Eupilis hebes, n. s., mas et fæm. Testacea, fronte maculis duabus posticis vittâque nigris, vertice thoraceque nigro guttatis, alis subcinereis, venis ferrugineis.

Male and Female. Testaceous. Vertex with two black dots; front with two black spots towards the vertex, and with a black stripe which extends to the face. Thorax with a few black dots. Wings very slightly greyish; veins ferruginous. Length of the body 3–4 lines; of the wings 8–10 lines.
Fam. MEMBRACINA, Burmeister.

Gen. CENTROTUS, Fabr.

112. CENTROTUS Taurus, Fabr. See page 93.

113. CENTROTUS SUBSIMILIS, n.s., fem. Niger obscurus, thorace scabro gibbosum, cornubus lateralibus rectis acutis, cornu postico abdominis apicem superantem, scutello pectorisque maculis duabus albidos, alis subluridis, costâ venisque nigris.

Female. Black. Thorax scabrous, elevated; lateral horns acute, extending at right angles to the body; scutellum, and a spot on each side of the pectus whitish. Wings slightly lurid; costa and veins black. Length of the body 3 lines; of the wings 7 lines.

Very nearly allied to C. Taurus, from which it is distinguished by its shorter, straight, and horizontal lateral horns.

114. CENTROTUS laminifer, Walk. See page 93.

Exceeding in size the specimen from Malacca.


Inhabits also Java.


Black. Thorax with three white stripes which are united in front and behind; the lateral pair curved, including the lateral horns, and dilated at the base of the hind horn; lateral horns acute, as long as half the space between them; hind horn extending nearly to the tip of the abdomen, which is whitish beneath. Legs whitish. Wings greyish hyaline, with black veins. Length of the body 3½ lines; of the wings 8 lines.

117. CENTROTUS LATIMARGO, n.s. Ater, thoracis cornubus lateralibus latis planis acuminatis bicornatis, cornu postico abdominis apicem non attingente, tarsis posticis albidis, alis testaceo-hyalinis, antecis apud costam latè nigris.

Deep black, scabrous. Lateral horns of the thorax broad, flat, acuminated, with two ridges, slightly inclined backward, each as long as the space between them; hind horn extending nearly to the tip of the abdomen. Hind tarsi whitish. Wings testaceous hyaline. Fore wings with a broad black costal stripe. Length of the body 3 lines; of the wings 7 lines.

Nearly allied to C. Assamensis, Fairm.

118. CENTROTUS DENSUS, n.s., mas. Niger obscurus scabrosus, thoracis cornubus lateralibus acuminatis carinatis subascendentibus, cornu postico abdominis apicem superante, scutello maculis duabus albidis, alis posticis cinereo-hyalinis.

Male. Black, dull, scabrous, stout. Lateral horns of the thorax acute, ridged, obliquely ascending, each a little shorter than the space between them; hind horn extending a little beyond the tip of the abdomen; scutellum
with a whitish spot on each side. Hind wings greyish hyaline. Length of the body 2½ lines; of the wings 7 lines.


Female. Black, dull, scabrous. Thorax with a slight keel; lateral horns acute, ridged, slightly curved backward and ascending, each as long as the space between them. Hind tibiae and hind tarsi whitish, the latter black towards the tips. Wings hyaline, slightly cinereous; veins black; costa of the fore wings black for two-thirds of the length from the base. Length of the body 2½ lines; of the wings 6 lines.

120. Centrotus caliginosus, Walk. See page 93.


Female. Black, dull, scabrous. Lateral horns of the thorax almost obsolete; no hind horn. Abdomen tawny towards the base above. Legs tawny. Wings hyaline, slightly greyish; veins black; fore wings black at the base and along the costa. Length of the body 1¾ line; of the wings 4 lines.


Female. Black, dull, minutely punctured. Thorax unarmed in front; hind horn extending to a little beyond half the length of the abdomen. Legs dingy tawny. Wings hyaline; veins pale; fore wings with the base, two irregular bands, and a subapical spot black. Length of the body 1 line; of the wings 2½ lines.

Very nearly allied to C. semifascia, Walk.

Gen. Micreune, Walk.

123. Micreune formidanda, Walk. See page 94.

124. Micreune metuenda, n.s., mas et fœm. Atra, thorace maculis duabus lateralis posticis testaceis, cornu erecto spinis duabus lateralis acutis subarcuatis, cornu postico abdominis apicem superante, alis cinereo-hyalinis, venis nigris.

Male and Female. Deep black. Thorax with a testaceous spot on each side hindward; the erect horn armed with two acute, horizontal, slightly curved spines; hind horn extending a little beyond the tip of the abdomen. Wings cinereous hyaline; veins black. Length of the body 3 lines; of the wings 5 lines.

C. dama, Germar, and C. gazella, Hoffm., probably belong to this genus.
Fam. CICADELLINA, Burm.
Trib. LEVIPEDES, AMYOT ET SERV.
Subtrib. CERCOPIDES, ST. FARG. ET SERV.

Gen. CERCOPSIS, FABR.

125. Cercopis tricolor, St. Farg. See page 94.
Inhabits also Java.
Inhabits also Java.
128. Cercopis costalis, Walk. See page 95.
The marks on the thorax and on the fore wings are occasionally white.
129. Cercopis dorsimacula, Walk. See page 95.
130. Cercopis rugulosa, Walk. See page 95.
131. CERCOPSIS SEMIPARDALIS, n. s. Cuprea pubescens, abdomen subtius rufo nigro maculato, pedibus rufis, alis antecis fulvis nigro maculatis apice cupreis, posticus cinereis.
Cupreous, pubescent. Abdomen beneath red, with black spots. Legs reddish.
Fore wings tawny, with nine black spots; apical third part cupreous.
Hind wings cinereous. Length of the body 5 lines; of the wings 14 lines.
Female. Blackish, pubescent. Head with a lanceolate yellow stripe in front.
Scutum with a curved yellow band. Abdomen tawny beneath. Legs red.
Fore wings purplish cupreous, with three luteous bands, one along the basal part of the interior border, the other two at right angles to the costa.
Hind wings grey. Length of the body 4 lines; of the wings 10 lines.
133. CERCOPSIS SEMIROSEA, n. s. Rufo-lutea, alis antecis testaceis basi costāque rufescensibus apice rosequ, posticis albidis.
Reddish luteous. Fore wings testaceous, rosy towards the tips, reddish at the base and along the costa. Hind wings whitish. Length of the body 3 lines; of the wings 8 lines.
134. CERCOPSIS UNDULIFERA, n. s., fæm. Nigra, frontis maculâ thoracis fasciâ et alarum anticaurum lineis duabus transversis undulatis testaceis, tibiis tarsisque fulvescentibus, alis posticis cinereis.
Female. Black. Vertex piceous, with a testaceous border; front with a testaceous spot behind. Thorax with a broad testaceous band. Tibiae and tarsi dark tawny. Fore wings with two undulating transverse testaceous lines. Hind wings cinereous. Length of the body 3 lines; of the wings 8 lines.
135. CERCOPSIS SUBDOLENS, n. s. Rufa, capite pectore pedibusque nigris, femoribus tibiisque posticis rufis, alis posticis cinereis.
Red. Head, pectus and legs black. Hind femora and hind tibiae red. Hind wings grey. Length of the body 2 lines; of the wings 6 lines.
Subtrib. Aphrophoridae, Amyot et Serv.

Gen. Ptyelus, St. Farg. et Serv.

Inhabits also Java.

137. Ptyelus ineffectus, n. s., fem. Piceus, tibiis posticis fulvis, alis antecis lineâ transversâ angulosâ subobsoletâ fulvâ, posticis nigro-cinereis. 

Gen. Amarusa, n. g.

Body long. Head short, convex in front, concave behind, hardly longer in the middle than on each side; its breadth more than four times its length. Scutum impressed in front; middle part of the hind border excavated; scutellum oblancoolate. Legs very short. Wings elongate-fusiform.

Black. Head above and thorax dark tawny. Thorax with a piceous spot on each side. Fore wings piceous. Hind wings blackish-grey. Length of the body 4 lines; of the wings 10 lines.


Female. Brown. Head above and scutum with seven testaceous stripes which extend to the scutum and to the interior base of the fore wings. Head beneath and pectus with a testaceous stripe on each side. Fore wings blackish-brown, pale brown like the thorax at the interior base, with three basal and two apical testaceous stripes, and with four intermediate elongated testaceous spots. Hind wings cinereous. Length of the body 3½ lines; of the wings 8 lines.

Female. Black, narrower than the preceding species, and with a more conical head. Head above and thorax testaceous, with six fawn-coloured stripes.
which extend to the scutum and to the interior border of the fore wings.
Head beneath and pectus with a testaceous stripe on each side. Legs
testaceous. Fore wings with the interior border, a curved basal stripe,
and two apical stripes testaceous. Hind wings cinereous. Length of the
body 3 lines; of the wings 6 lines.

141. Perinola expressa, n.s., fem. Nigra, capite subtus pectoreque
albidus bivittatus, ventre pedibusque obscurè fulvis, alis anticis maculis
duabus striisque exteriore subarcuatu albidos-testaceis, posticis cinereis.
Female. Black. Head piceous above; under side and pectus with a whitish
stripe on each side. Abdomen beneath and legs dark tawny. Fore wings
with two whitish testaceous spots, and with an exterior somewhat paler
slightly curved streak which joins the costa and extends nearly to the
tip of the wing. Hind wings blackish-grey. Length of the body 3½ lines;
of the wings 8 lines.

Subtrib. Serripedes, Amyot et Serv.
Coh. Tettigonides, Amyot et Serv.
Gen. Tettigonia, Germar.

142. Tettigonia farinosa, Fabr. See page 97.
143. Tettigonia ferruginea, Fabr. See page 97.
144. Tettigonia suavissima, Walk. See page 97.

145. Tettigonia elongata, n.s. Fulva subtus testacea, capitis disco fas-
cisque duabus anticis nee non scuti macula antica margineque postico
scutellique disco nigris, abdomen negro, margine fascisque subtus rufis,
pedibus albidis, tibiis tarsisque apice nigris, alis anticis ferrugineis basi
fulvo negro glaucoque maculatis apice posticisque nigrantibus.
Tawny, testaceous beneath. Disk of the head and two bands beneath, a spot
in front of the scutum and its hind border, and the disk of the scutellum
black. Abdomen black; under side with red bands and a red border.
Legs whitish; tips of the tibia and of the tarsi black. Fore wings ferru-
ginous, blackish towards the tips, with three spots at the base; 1st spot
tawny, 2nd black, 3rd glaucous. Hind wings blackish. Length of the
body 6 lines; of the wings 14 lines.

146. Tettigonia lineolata, n.s. Glauco-nigra, capite subtus fasciis
duabus flavis, pectoris abdominisque lateribus flavis, ventre subtus fasciæ
postica flavæ apice albo, pedibus piceis, anticis flavo vario, alis posticis basi
cinereis.
Black, with a glaucous tinge. Head beneath with two yellow bands. Pectus
and abdomen yellow along each side; the latter with a yellow band near
the tip, which is white. Legs piceous; fore legs marked with yellow.
Hind wings cinereous hyaline towards the base. Length of the body
6 lines; of the wings 14 lines.

147. Tettigonia angulakris, n.s. Nigra albo tomentosa subtus picea,
thorace cupreus, vittis obscurscurioribus guttisque albis, margine antico negro, alis anticus cupreo-rufis apice cinereis, posticus nigro-cinereis.
Black, with whitish tomentum, piceous beneath. Thorax cupreous, with darker stripes and with white dots, black along the fore border. Fore wings cupreous red, grey towards the tips, with a dotted pale lilac band at the base. Hind wings blackish-grey. Length of the body 5 lines; of the wings 10 lines.

*Female*. Ochraceous. Fore tibiae with a black line on the inner side. Fore wings at the tips and hind wings cupreous-cinereous. Length of the body 4 lines; of the wings 10 lines.

149. Tettigonia scitipennis, n. s., mas. Latè flava, subtús nigra, abdomine nigro apice albido, pedibus flavis, alis anticus maculis quatuor fasciâque exterioire nigris, apice cinereis, posticus nigro-cupreis apice cinereis.
*Male*. Bright yellow, black beneath. Abdomen black, whitish at the tip. Legs yellow. Fore wings with four black spots and with an exterior black band, grey at the tips. Hind wings blackish-cupreous, with grey tips. Length of the body $3\frac{1}{2}$ lines; of the wings 8 lines.

150. Tettigonia lepidipennis, mas. Flava, thorace ochraceo-vittato, abdomen pedibusque albidos, alis anticus æneo-testaceis subhyalinis, maculis quinque elongatis ochraceis, posticus albo-hyalinis.
*Male*. Yellow. Thorax with an ochraceous stripe. Abdomen and legs whitish. Fore wings æneous testaceous, subhyaline, with five elongated irregular ochraceous spots, the subapical one indistinct. Hind wings white, hyaline. Length of the body 4 lines; of the wings 10 lines.

151. Tettigonia eburnea, n. s., mas et feem. Albida, capite conico, alis lacte-albhis.
*Male* and *Female*. Whitish. Vertex of the head conical. Wings milk-white. Length of the body $2\frac{1}{4}$ lines; of the wings 7 lines.

152. Tettigonia signifera, n. s. Æneco-cinerea, capitis maculis quatuor, thoracis vittis duabus alisque antici vittâ interruptâ rufis, alis posticus cinereis.
Ænecous-cinereous. Head conical, with four red stripes. Thorax with two red stripes and a red dot on the hind border between them. Fore wings with a red stripe composed of five streaks. Hind wings greyish-hyaline. Length of the body $3\frac{1}{2}$ lines; of the wings 7 lines.

153. Tettigonia polita, n. s. Ochracea subtús albido-flava, capite guttis septem thoraceque duabus atris, alis anticus nigris costâ testaceâ margine interioire ochraceo, posticos nigricantibus.
Ochraceous, whitish-yellow beneath. Head with seven black dots, three in front and four behind. Thorax with two black dots. Fore wings black; costa testaceous; interior border ochraceous. Hind wings blackish. Length of the body $2\frac{1}{2}$ lines; of the wings 5 lines.

154. Tettigonia glabra, n. s. Testacea, capite guttis duabus lateralibus
nigris, thorace fulvo, abdomenine nigro, alis anticus cupreis, guttis duabus
marginalibus testaceis, posticus nigro-cinereis.
Testaceus. Head with a minute black dot on each side near the eye.
Thorax tawny. Abdomen black. Fore wings cupreous, shining, with two
elongated testaceous dots; one on the costa, opposite to the other which
is on the interior border. Hind wings blackish-grey. Length of the body
2 3 lines; of the wings 6 lines.

155. TETTIGONIA INCLINANS, n. s. Cuprea, capite pedibusque testaceis,
capite subtus vittis duabus rufis, abdomenine nigro, alis posticus nigricantibus.
Cupreous. Head testaceous; front with two red stripes. Abdomen black.
Legs testaceous. Hind wings blackish. Length of the body 2 3 lines; of
the wings 6 lines.

156. TETTIGONIA DIFFICILIS, n. s. Nigro-ænea subtus testacea, capitis fascià
interrupta thoracis vittis duabus angulatis scutellique guttis ochraceis,
pedibus testaceis, alis cinereo-hyalinis, anticus nigricante guttatis.
Blackish-æneous, testaceous beneath. Head with an interrupted ochraceous
band. Scutum with an angular ochraceous stripe on each side; scutellum
with ochraceous dots. Legs testaceous. Wings greyish-hyaline; fore
wings with a blackish dot on each areolet. Length of the body 3 lines;
of the wings 6 lines.

Coh. SCARIDES, Amyot et Serv.

Gen. LEDRA, Fabr.

157. LEDRA TUBERCULIFRONS, n. s., ñem. Ferruginosa, capite lato tuber-
culato, scuto quadricarinato, alis cinereo-subhyalinis, anticus ferrugineo
varis tuberculis duoibus nigris, areolis plurinisis.
Female. Ferruginous, paler beneath. Head short-conical, tuberculated, slightly
keeled, much broader than long, with a short oblique ridge on each side
behind. Scutum transverse subquadrate, with four keels. Wings cine-
reous-hyaline; fore wings varied with ferruginous, slightly tuberculated at
the base, and with two more distinct black tubercles in the disk; areolets
irregular and very numerous. Length of the body 6 lines; of the wings
10 lines.

158. LEDRA DILATIFRONS, n. s., ñem. Obscurè ferruginea conflertissimè
punctata subtus nigra, capite latissimo subtus antico testaceo, facie flavâ,
scuto quadridrugoso, femoribus apice tibiisque albidis, alis posticus cinereis.
Female. Dark ferruginous, very thickly punctured, black beneath. Head
and thorax with a slight middle keel. Head a little broader than the
thorax, twice broader than long, very obtusely angular in front; disk on
each side with an impression containing a black forked line; under side
testaceous along the fore border; face yellow. Scutum more than twice
broader than long, a little broader in front, with four broad ridges. Legs
black; femora towards the tips, tibiae and posterior tarsi whitish. Fore
wings with ridged veins. Hind wings cinereous. Length of the body
5 lines; of the wings 8 lines.
159. Ledra tenuifrons, n.s., mas. Cervina albido varia subtus albido-testacea, capite transverso brevi-conico, angulis tribus anticis perobtusis, scuto antice convexo maculis duabus lateralibus fuscis, scutello maculis duabus fuscis nitidis, abdomine supra pallide luteo, alis hyalinis, anticus cervino-venosis basi cervinis punctulatis, posticus nigro-venosis.

**Male.** Fawn-colour, whitish testaceous beneath. Head and thorax partly whitish. Head very thin, with a slight keel, nearly twice broader than long, with three very obtuse angles in front. Scutum convex and with a brown spot on each side in front; scutellum with a brown shining spot on each side. Abdomen pale luteous above. Legs whitish. Fore wings hyaline, with fawn-coloured veins, fawn-coloured and punctured at the base. Hind wings with black veins. Length of the body 4½ lines; of the wings 7 lines.

160. Ledra longifrons, n.s., fem. Ferruginea subtus sordidè albido-testacea, capite thorace alisque anticis apud costam testaceo guttatis, capite longi-conico, scuto antice convexo, abdomen longo, suturis chalybeo-albidis nitentibus, alis anticis vittà discali apicibusque subhyalinis, posticos hyalinis nigro-venosis.

**Female.** Ferruginous, dingy whitish testaceous beneath. Head, thorax and fore wings along two-thirds of the costa with testaceous dots. Head elongate-conical, rather broader than long, with an almost obsolete keel. Scutum convex in front. Sutures of the abdomen chalybeous-white, shining; tip testaceous. Legs whitish. Fore wings with a discal stripe and with the apical third part nearly hyaline. Hind wings hyaline, with black veins. Length of the body 5 lines; of the wings 8 lines.

161. Ledra conicifrons, n.s. Pallidè fulva subtus sordidè albido-testacea, capite thorace alisque anticis confertissimè punctulatis, capite conico, scuto antice convexo, pedibus albidis, alis anticis testacecis, apicibus posticisque hyalinis.

Pale tawny, dingy whitish testaceous beneath. Head, thorax and fore wings along two-thirds of the length very thickly and minutely punctured. Head and scutum with an indistinct keel; head conical, a little shorter than that of the preceding species; scutum convex in front. Legs whitish. Fore wings testaceous, hyaline towards the tips; veins testaceous. Hind wings hyaline, with black veins. Length of the body 4½ lines; of the wings 8 lines.

162. Ledra planifrons, n.s., mas. Testaceo-viridis subobsoletè punctulata subtus viridi-alba, capite scutoque ferrugineo marginatis, illo brevi, hujus lateribus angulatis, abdomine pallidè rufo, pedibus albidis, alis posticos albido-hyalinis venis albis.

**Male.** Testaceous-green, very minutely punctured, greenish-white beneath. Head and scutum with a ferruginous border. Head rounded in front, full thrice broader than long, indistinctly keeled. Scutum hardly convex in front, slightly concave behind, with a distinct angle on each side. Abdomen pale red. Legs whitish. Fore wings more green than the thorax. Hind wings whitish-hyaline, with white veins. Length of the body 4½ lines; of the wings 8 lines.
163. Ledra arcuatifrons, n. s. Pallidē viridis subobsoletē punctulata subtūs albidâ, capite conico, scuto antīcē non convexo posticē vix concavo, pedibus albidīs, alis posticīs albo-hyalīnis venīs albis. 
Pale green, whitish beneath. Head and scutum with an almost obsolete furrow. Head conical, very much broader than long. Scutum not convex in front, very slightly concave behind. Legs whitish. Fore wings greyish towards the tips; hind wings whitish-hyaline, with white veins. Length of the body 4 lines; of the wings 7½ lines.

164. Ledra ranifrons, n. s., mas. Ferruginea, capite subtūs abdomineque rufīs, thorace fasciā posticā viridi pieco marginatā, pectore pedibusque testaceis, alis antīcis fulvis, margine postico viridi strigā exteriore fusīcā, posticīs cinereis.
*Male.* Ferruginous. Head short-conical, much more than twice broader than long, red beneath. Scutum hardly convex in front, green along the hind border, and with an intermediate transverse piceous line. Pectus and legs testaceous. Abdomen red. Fore wings tawny, green along the hind border, and with a brown streak towards the tip which is paler. Hind wings cinereous, with black veins. Length of the body 3 lines; of the wings 6 lines.

165. Ledra obtusifrons, n. s., fem. Viridis lata subtūs testacea, capite brevi subtūs ferrugineo, scutello fusco, alis antīcis lineā basali aream pallidum includente fasciāque subapicali fusīcā, posticīs hyalinīs nigro-venosis.
*Female.* Green, broad, testaceous beneath. Head much more than twice broader than long, rounded in front, ferruginous beneath. Scutum hardly convex in front and as little concave behind; scutellum brown. Fore wings with a brown basal line including a pale space along the hind border, and with a brown subapical band. Hind wings hyaline, with black veins. Length of the body 2½ lines; of the wings 5 lines.

166. Ledra truncatifrons, n. s., mas. Picea lata punctulata subtūs nigra, capite perbrevi, abdomine basi pedibusque testaceis, alis antīcis apice pal-lidioribus, posticīs cinereis nigro-venosis.
*Male.* Piceous, broad, black beneath. Head, thorax and fore wings very minutely punctured. Head about four times broader than long. Scutum short. Abdomen at the base and legs testaceous. Fore wings paler at the tips. Hind wings greyish-hyaline, with black veins. Length of the body 1½ line; of the wings 3 lines.

**Gen. Epiclines, Amyot et Serv.**

167. Epiclines obliqua, n. s. Viridis subtūs testacea, capite conico, scuto fasciās duabus antīcis rufīs posticē fusco, scutello et alarum anticarum margine postico basi vittāque discali obliquā luteīs, alis posticīs cinereohyalīnis nigro-venosis.
Green, testaceous beneath. Head conical, indistinctly keeled, nearly twice broader than long. Scutum obtusely angular on each side, with two red bands in front, brown along the hind border. Scutellum luteous. Fore wings luteous along the hind border towards the base, and with an oblique
luteous band which extends from the base of the costa to nearly two-thirds of the length of the hind border. Hind wings cinereous-hyaline, with black veins. Length of the body 7 lines; of the wings 14 lines.

**Gen. Isaca, n. g.**


Body short. Head transverse, convex; vertex short; front and face transverse, the latter triangular. *Antennae* very short; arista very slender, more than half the length of the body. Anterior legs short; hind legs long; their tibiae very spinose. Wings rather narrow, with few veins.


Black, shining, smooth. Face, pectus, abdomen and legs whitish. Wings hyaline. Fore wings with a broad blackish-brown basal streak, and with a very broad external blackish-brown band. Hind wings with a blackish-brown disk. Length of the body 1½ line; of the wings 4 lines.

**Coh. Lassides, Amyot et Serv.**

**Gen. Acocephalus, Germain.**


Inhabits also Java.

171. *Acocephalus discigutta*, n. s., mas. Testacea brevis, abdominis dorso nigro, alis anticis albis fusco reticulatis, maculâ discali nigra, plagâ posticâ testacea, posticis hyalinis albo-venosis. *Male.* Testaceus, short. Abdomen black above. Fore wings white, with brown transverse marks which are most frequent at the tips; a black discal spot and a posterior testaceous patch. Hind wings quite hyaline, with white veins. Length of the body 1½ line; of the wings 3 lines.

**Gen. Celidia, Germain.**


*Female.* Brown, white beneath. Vertex white, black along the fore border; front with three ferruginous bands. Scutum sprinkled with white. Abdomen varied with black. Tibiae and tarsi with black tips. Fore wings slightly mottled, with black costal spots, and with white hyaline discal spots; veins with white dots. Length of the body 3½ lines; of the wings 7 lines.
173. **Cælidia pardalis**, n.s. Fulva subtus testacea, fronte facieque vittis duabus rufis, alis anticus fuscis maculis varis luridis, posticis cinereis. Tawny, testaceous beneath. Front and face with two red stripes. Fore wings brown, with lurid spots of various size and shape. Hind wings grey. Length of the body 3 lines; of the wings 6 lines.

174. **Cælidia albisigna**, n.s. Nigra, capite albido, facie nigra, abdominis segmentis albidó marginatis, tibiis anterioribus albidís, alis anticus nigro-fuscís, guttis plurimis luridis maculis quatuor marginalibus albis, posticis cinereis. Black. Head whitish; face black. Segments of the abdomen with whitish borders. Tarsi whitish, with black tips; anterior tarsi whitish; hind tibiae partly whitish. Fore wings with several lurid dots, with two irregular white spots on the costa, and with two more on the interior border. Hind wings grey. Length of the body 2 1/2 lines; of the wings 5 lines.

175. **Cælidia cuprearia**, n.s., fem. Testacea, capite subtus fulvo bivittato, pectore plagiis quatuor nigris, alis anticus nigro-cupreis costâ testacea, posticis nigro-cinereis. **Female.** Testaceous. Front and face with two tawny stripes. Pectus black; segments with testaceous borders. Legs tawny. Fore wings blackish-cupreous; costa testaceous. Hind wings blackish-grey. Length of the body 4 lines; of the wings 8 lines.

**Gen. Bythoscopus, Germar.**

**Group 1. Arista brevis. Arista short.**


177. **Bythoscopus testaceus**, n.s., mas. Luteo-testaceus nitens subtus pallidó testaceus, capite brevi, thorace subpunctulato, abdominis segmentis rupo marginatis apice rupo, alis anticus apice cinereo-hyalinis, posticis nigro-cupreis. **Male.** Luteous-testaceous, shining, pale testaceous beneath. Head very little longer in the middle than on each side. Thorax very minutely punctured. Abdominal segments with red borders; tip red. Fore wings greyish-hyaline towards the tips. Hind wings blackish-cupreous. Length of the body 4 lines; of the wings 8 lines.

178. **Bythoscopus metallicus**, n.s., fem. Cupreus subtus ferrugineus, capite fulvo brevissimo latissimo, vertice scutoque antice testaceis, illius margine antico nigro, alis anticus fasciâ maculâque exteriore discali albido-hyalinis, posticis nigro-cinereis. **Female.** Cupreous; ferruginous beneath. Head tawny, very short and broad; vertex with a black line along the fore border which is testaceous. Scutum testaceous in front. Fore wings with a whitish-hyaline band, and with an exterior discal spot of the same hue. Hind wings blackish-grey. Length of the body 4 1/2 lines; of the wings 9 lines.

179. **Bythoscopus lateralisis**, n.s. Cupreus subtus fulvus, capite brevi-
conico lineā antīcā transversā nigra, alis anticiis apices versus cinereo-notatis, strigis dubius costalibus hyalinis, posticiis nigro-cinereis. Cupreous, tawny beneath. Head short-conical, rather longer than in most species of the genus; vertex with a transverse black line in front. Fore wings towards the tips with some cinereous marks and with two more distinct hyaline costal streaks. Hind wings blackish-grey. Length of the body 2 lines; of the wings 4 lines.

180. **Bythoscopus cephalotes**, n.s. Pallidē flavus, capitis disco testaceo, punctis dubius anticiis nigris, strigis dubius subtiis facieque nigris, abdo-mine testaceo, alis anticiis fulvis, margine postico basi pallidē flavo, posticiis cinereo-hyalinis. Pale yellow. Head testaceous in the disk above, with two minute black dots in front, and with two black streaks towards the face, which is also black. Abdomen testaceous. Fore wings tawny, pale yellow at the base of the hind border. Hind wings greyish-hyaline. Length of the body 1½ line; of the wings 3 lines.

**Group 2. Arista perlonga. Arista very long.**

181. **Bythoscopus bicornatus**, n.s., fem. Albido-testaceus, vertice scuto-que lineā transversā arcuātā rufā, alis anticiis maculis dubius costalibus exterioribus apiceque fuscis, posticiis subhyalinis pallido-venosis. *Female.* Whitish-testaceous. Head arched, about four times broader than long, a little more convex in front than concave behind. Vertex and scutum each with a transverse red arched line. Arista about three-fourths of the length of the body. Fore wings with brown tips, and with two exterior brown costal spots. Hind wings nearly hyaline, with brown tips. Length of the body 2½ lines; of the wings 5½ lines.

182. **Bythoscopus lepsiigma**, n.s., mas. et fem. Cinereo-cupreus subtiis cinereus, capitis lineā antīcā thoracis fasciā antīcā interruptā arcuātā maculisque posticiis ochraceis, tibis anticiis ochraceis, alis cupre-hyalinis, anticiis costā ochraceā maculis dubius exterioribus costalibus apiceque nigro-fuscis. *Male* and *Female.* Cupreous, with a cinereous tinge; cinereous beneath. Head with an ochraceous line in front of the vertex. Arista about half the length of the body. Thorax with an arched interrupted ochraceous band and some hinder ochraceous spots. Fore tibiae and tips of the fore femora ochraceous. Wings cupreous-hyaline. Fore wings with the costa and the interior border ochraceous, with two exterior blackish-brown costal lines, with blackish-brown tips, and with a blackish-brown dot by the interior border. Length of the body 3 lines; of the wings 7 lines.

183. **Bythoscopus nigridinea**, n.s. Æneo-fulvus, capite lineis dubius transversis nigris, alis anticiis Æneo-luridis, guttis tribus apud marginem posticum nigris. Æneous-tawny. Head with two black transverse lines. Arista a little more than half the length of the body. Wings lurid, with an Æneous tinge; interior border of the fore wings with three black dots. Length of the body 2½ lines; of the wings 6 lines.
184. Bythoscopus ignicans, n. s. Ochraceus subtus testaceus, scutello albo, alis antiquis guttis discalibus maculisque marginalibus albis, maculis apicalibus fusciis, posticis cinereis.

Ochraceous, testaceous beneath. Arista longer than the body. Scutellum white. Legs testaceous. Fore wings with white brown-bordered discal dots, and with some white spots on the costa and on the interior border; disks of the exterior areolets brown. Hind wings grey. Length of the body 1 3/5 lines; of the wings 4 lines.

Description of Plate VI., Illustrating New Genera of Bornean Diptera, described in Mr. Walker’s Memoir, pp. 105–136.

Plate VI.

Fig. 1. Culcina simulans, magnified, p. 109: 1 a, the head seen sideways; 1 b, the antenna more strongly magnified.

Fig. 2. Eava bipars, magnified, p. 109: 2 a, the head seen sideways, showing the large facets of the eyes; 2 b, the antenna.

Fig. 3. Citibana aurata, magnified, p. 124, showing the spinose posterior femora: 3 a, the head seen in front; 3 b, the same seen sideways; 3 c, the antenna.

Fig. 4. Baryterocera inclusa, magnified, p. 123: 4 a, the head seen sideways; 4 b, the same seen in front; 4 c, the antenna.

Fig. 5. Gauzania devecta, magnified, p. 130, showing the large middle legs: 5 a, the head seen in front; 5 b, the same seen sideways; 5 c, the antenna.

Illustrative Description of Plates VII. & VIII. of Bornean Homoptera, described in the foregoing Paper.

Plate VII.

Fig. 1. Lenzaba marginalis, p. 144: 1 a, the head and prothorax seen sideways.

Fig. 2. Isporisa apicalis, p. 145: 2 a, the head and prothorax seen sideways.

Fig. 3. Epura subtulis, p. 146: 3 a, the head and prothorax seen sideways.

Fig. 4. Ostama juncta, p. 151: 4 a, upper wing; 4 b, face seen in front.

Fig. 5. Erana operosa, p. 151: 5 a, upper wing; 5 b, face seen in front.

Fig. 6. Rhotala delineata, p. 152: 6 a, the head and prothorax seen sideways.

Fig. 7. Hiracia ignava, p. 155: 7 a, the head and prothorax seen sideways; 7 b, the fore and hind wings expanded.

Fig. 8. Lerida fervens, p. 158: 8 a, head and prothorax seen sideways.

Plate VIII.

Fig. 1. Paricara dilatipennis, p. 159: 1 a, head and prothorax seen sideways.

Fig. 2. Rhotana latipennis, p. 160: 2 a, head and prothorax seen sideways.

Fig. 3. Encarpia univitta, p. 159: 3 a, head and prothorax seen sideways.

Fig. 4. Ficarasa pallida, p. 162: 4 a, head and prothorax seen sideways.

Fig. 5. Nicerta submentiens, p. 159: 5 a, head and prothorax seen sideways; 5 b, hind leg.

Fig. 6. Amanusa picta, p. 166: 6 a, face seen in front.

Fig. 7. Isaca bipars, p. 172: 7 a, face seen in front.