fortunately, lost its abdomen, and the prolegs in both sexes of Hypna are exceedingly similar in construction.

## DESCRIPTION OF PLATE XXIII.

Fig. 1. Hypma glolosa.
2, 3. - hucbneri.
4. -huchneri, var.

Fig. 5. Нуриа relox.
6. - mufescens.

May 8, 1866.

Dr. J. E. Gray, F.R.S., V.P., in the Chair.

Mr. Sclater called the attention of the Meeting to several interesting species of Mammals and Birds obscrved during his recent risit to the Gardens of the Société Zoologique d'Acclimatation of Paris. Amongst these were particularly noticed an example of the Oryx beisa of Rüppell, being the only living specimen Mr. Sclater had seen of this fine Antelope, and some examples of the new variety of the Semmering's Pheasant lately described by Mr. Gould (Ann. N. II. ser. 3. vol. xvii. p. 150) as Phasiames (Graphophasianus) scintillans. It appeared that this variety had been received from Yokohama, Japan, while the ordinary Phasianus sommeringii was stated to be found near Simoda, so that the probability was that these two birds were representative forms inhabiting different islands.

Mr. Alfred Newton exhibited from the collection of William Borrer, Esq., F.L.S., a specimen of the Sylvia aquatica of Latham, which had been obtained in England, as certified by the following note from that gentlemen :-
"My specimen was shot on the 19th of October, 1853, in an old brick-pit a little to the west of Hove, near Brighton, and was stuffed by Mr. H. Pratt of that place. I saw it just after it was skinned. It was observed creeping about amongst the old grass and reeds."

Mr. Newton remarked that, though the species had not hitherto been recorded as occurring in this country, the fact of the marshes near Dieppe being especially mentioned as a locality for it made the probability of its being a voluntary visitor to this side of the Channel much greater.

Mr. Gould exhibited a specimen of the Andalusian IIemipode (Turnix sylvatica, Desfont.) from the collection of Mr. Alfred Benumont. The specimen was stated to have been purchased of two Irishmen (one of whom had caught it alive) for sixpence, by a boy, the son of S. Mosley, a bird-stuffer of Huddersfield. It had been taken near Fartown-bar, April 7, 1865.

The following papers were read :-

# 1. Notice of a New Bat (Scotophilus welwitschii) from Angola. By Dr. J. E. Grear. 

## (Plate XXIV.)

Among an interesting series of Bats from Angola, collected by Dr. Welwitsch, and most kindly presented to the British Museum, is a very interesting and ornamental species of Scotophitus, with the wings coloured like Vespertilio pictus of Pallas.

This coloration of the wings scems common to several Bats belonging to different genera; but I have not before observed it in a species of Scotopkilus.

## Scotophilus welwitschil. (Pl. XXIV.)

Brown, paler beneath ; hair of the back black, with brown tips, which are longer and paler on the hairs of the under surface. The ears rather elongate, longer than head, tip rather acute; tragus elongate, lanceolate, acute, nearly half as long as the ear. The wings blackish brown, yellow-dotted, and yellow (or red brown perhaps when alive) near the body, and on and near the arms and fingers, and between the shoulders and arm-bone; interfemoral membrane yellow, black-dotted, and with a dark hinder edge, the upper surface near the base of the tail hairy ; heel-bone elongate, as long as the shin. Feet pale yellow; toes black at the end; wings to the base of the toes. Thumb-upper joint black, much longer than the lower, which is yellow. The face hairy to the end of the nose, just above the nostrils. Upper cutting-teeth 1.1?, large, blunt; premolars $\frac{2}{1} \frac{2}{1}$, the front upper large, triangular ; the hinder small, rudimentary. Forearm-bone 2 inches 1 line long.
Hab. Angola (Dr. Welwitsch; B.M.).
2. Notes on the Skulls of Dolphins, or Bottlenose Whales, in the British Museum. By Dr. J. E. Gray, F.R.S., V.P.Z.S., F.L.S., \&e.

Having had occasion to examine and determine a considerable number of skulls of Dolphins since the manuscript of the second edition of the 'Catalogue of Seals and Whales in the British Museum,' which has just been published, was sent to the press, I was induced to reexamine the whole series of them in the British Museum for the purpose of determining what were desiderata. The usual consequence followed, that I observed the importance of some characters that had been before overlooked, and thought that I could improve the manuer in which the species were grouped together, so that they could be more easily distingnished from"each other.

This has been my universal experience : no sooner has a monograph of a group of animals been put into print, than on the reexamination of the group, you find it might have been improved. I have therefore sent to the Society the result of this reexamination and reconsideration of the subject, and hope that it may facilitate the determination of the species of these little-known animals. I may add that, from the experience I have had, I have no doult that the skull affords the best means of arranging the species into groups; but I am by no means sure that what I have considered a single species by the study of the skull may not be found to be a group of several species when we are able to examine the rest of the skeleton and the exterual coloration of the animals which have a skull of the characters described.

The genera of the Bottlenoses may be arranged according to the skulls thus:-

## A. Beak of the skull elongate, compressed. Nasal triangle short. Symphysis of the lower jaw elongate.

Pontoporia. Beak of the skull high, compressed. Symphysis of the lower jaw very long.
Steno. Beak of the skull compressed, higher than broad. Symphysis of the lower jaw long.
B. Beak of the skull elongate, depressed, broud, shelving on the sides. Nasal triangle short. Symphysis of the lower jaw short, sloping.

* Palate with a deep groove on each side behind.

Delphinus. Beak elongate. Dorsal fin distinct. Teeth small, slender.
** Palate flat behind, without any lateral grooves.
Clymene. Beak of skull elongate, depressed. Teeth small, slender. Nasal triangle moderate. Dorsal fin distinct.
Delphinapterus. Beak of skull elongate, depressed. Teeth small, slender. Dorsal fin none.
Tursio. Beak of the skull only rather longer than the brain-case, conical, convex above, rounded. Teeth large. Skull high.
Eutropia. Beak of the skull only rather longer than the brain-case. Skull depressed. Teeth small.
C. Beak of the skull broad, fat alove, edges slightly reflexed and bent up in fiont of the notch. Nasal triangle elongate. Symphysis of the lower jaw short.
Lagenoriyncius. Beak as long as or rather shorter than the length of the brain-case.

## Stevo.

Steno, Gray, Cat. of Seals \& Whales, p. 232.
The species may be arranged by their skulls thus. The number refers to the number of the species in the above Catalogue:-
a. Skull large, solid, the beak compressed, high. Teeth large, conical, about two in an inch of the length of the margin of the jaw.
3. Steno frontatus. Beak of the skull short; the front part thiek, high, and blunt. Tceth 24/24, large, two in an inch.
4. Steno compressus. Beak of the skull clongate, compressed, attenuated in front. Teeth 26/26, large, two in an inch (Zool. E. \& 'T. t. 27).

Steno rostratus appears to belong to this section.
b. Skull small, rather spongy. Teeth small, slender, attenuaterl, about four or five in an inch of the lenyth of the maryin of the jaw.

* Beak of the skiull elongate, compressed, much attenuated and acute in front. Teeth four in un inch. Sousa.
4*. Steno capensis.
4**. Steno lentiginosus.
The skull of Steno roseiventris, aecording to the figure, appears to belong to this section of the genus.

> ** Beak of the skall short, compressed, much attenuated and acute in front. Teeth five in an inch. Tucuxa.
7. Steno tucuxi.
*** Beak of the skull elongate, rather depressed, broad, slightly compressed on the sides. Teeth small, five in an inch. Stenella.
5. Steno attenuatus. The beak of the skull flattened (Zool. E. \& T. t. 28).

This last section is nearly intermediate between Steno and Clymene.

## Delphinus.

The species referred to Delphinus, Seetion $l$, in the 'Catalogue of Seals and Whales,' belong to this genus. The teeth are small and slender, five or six in an inch.

* Beali of skull twice as long as the brain-case. Teeth $\frac{55}{55}$ or $\frac{56}{56}$.

2. Delphinus longirostris,
** Beak of stiull once and " half the length of the brain-case. . Teeth $\frac{45}{45}$ to $\frac{50}{50}$.
3. Delphinus delphis.

3*. Delphinus moorei.
3***. Delphinus major.
3***. Delphinus walkeri.
5. Delphinus janira, Zool. E. \& T. t. 23.

## Clymene.

Skull elongate, slender; brain-case spherical ; beak slender, elongate, longer than the brain-case; intermaxillaries convex. Teeth small, slender, five or six in au inch. The symphysis of the lower jaw short. The blowers are moderate. See Clymene, Gray, P. Z. S. 1864, p. 237.

## * Beak of the skull twice as long as the brain-case. Teeth five in an inch.

Clymene stenorhyncha. Delphinus stenorhynchus, Cat. of Seals \& Whales, p. 396.
** Beak of the shull once and three-quarters the length of the braincavity. Teeth six in an inch. Euphrosyne.

1. Clymene microps. D. microps, Gray, Cat. p. 240; Zool. E. \& T. t. 25.
2. Clymene alope. D. alope, Gray, Cat. p. 252.
3. Clymene euphrosyne. D.euphrosyne, Gray, Cat. p. 251 ; Zool. E. \& T. t. 22.
*** Beak of the skull once and one-half or once and one-third the length of the brain-cavity. Teeth five or six in an inch. Clymene.

Clymene normalis. Beak of the skull once and one-half the length of the brain-case, and as long as twice and one-half the width at the notch. Teeth 40 , nearly six in au inch. Delphinus clymene, Gray, Cat. p. 249.

Clymene doris. Beak of the skull once and one-half the length of the brain-ease, and as long as twice and a half the width at the notch. Teeth five in an inch. Tursio doris, Gray, Cat. Seals \& Whales, p. 255; Zool. E. \& T. t. 20.

Clymene dorides. Beak of the skull once and one-third the
length of the brain-case, and as long as twice and one-third the width at the notch. Teeth five in an inch. Tursio dorcides, Gray, Cat. of Seals \& Whales, p. 400.

Clymene obscura. Beak of the skull once and one-sixth the length of the brain-case, and as long as twice and one-half the width at the notch. Teeth five or six in an inch. The aperture of the blower large. Tursio obscurus, Gray, Cat. Seals \& Whales, p. 264; Zool. E. \& T. t. 16.
These skulls are somewhat like those of the genus Tursio, but the teeth are small.

## T'ursio.

The skull large, thick, heary, with a high swollen brain-cavity. The beak longer than the brain-case, broad, conical, stout, shelving on the sides. Teeth large, $\frac{22}{22}$ or $\frac{25}{25}$. The blower large. Nasal triangle produced considerably before the notch.
3. Tursio metis, Zool. E. \& T. t. 18.
4. Tursio cymodoce, Zool. E. \& T. t. 19.
6. Tursio truncatus. North Sea and Mediterranean.
8. Tursio eurynome, Gray, Zool. E. \& T. t. 17. South Sea; India?
10. Tursio catalania. North-west coast of Australia.

These skulls are all so much alike that they may only be varieties.

## Eutropia.

Skull depressed, thick, with the sides rather bent down behind the notch. The beak depressed, broad, rounded on the sides, rather longer than the leugth of the brain-case; the intermaxillaries flat, rather broad. Teeth small, slender, five or six in an inch.

Eutropia, Gray, P. Z. S. 1862, p. 145 ; Cat. Seals \& Whales, p. 262.

Eutropia dickiei. Tursio eutropia, Gray, P.Z.S.1862, p. 145; Cat. Seals \& Whales, p. 262. Chili.

Eutropia heavisidii. Tursio heavisidii, Gray, Cat. Seals \& Whales, p. 263. From the Cape Seas.

The D. cephalorhynchus of F. Cuvier, judging from the figure of the skull given by Schlegel, appears also to belong to this genus.

The skull bears a considerable affinity to the skulls of Phocenna, Neomeris, Beluga, and Monodon in the bending down of the sides.

## Lagenorhyncilus.

The skulls of the species in the British Museum may be thus ar-ranged:-
I. The beak of the skill very flat above, with the edges in front of the notches bent up. T'eeth-line stopping consillerably short of the notch. Electra.

+ Beak of the skull rather longer (about one-third) than the length of the brain-case. Teeth moderate, four in an inch, those in the lower jaw rather larger.

1. Lagenorhynchus electra. Beak rounded in front (Zool. E. \& T. t. 13).
2. Lagenorhynchus asia. Beak attenuated, acute in front (Zool. E. \& T. t. 14).
3. Lagenorhynchus acutus, according to Schlegel's figure of the skull, should be arranged in this section.
$\dagger \dagger$ Beak of the skull rather shorter than the length of the braincavity. Teeth small, five or six in an inch.
4. Lagenorhynchus clanculus. Beak of the skull broad behind, once and three-fourths the width of the notch in length. Teeth five in an inch.
5. Lagenorhynchus thicolea. Beak of the skull narrow behind, twice as long as the width at the notch. Teeth small, six an inch.
II. Beak of the skall rather fat above and elongate, bent up on the edge in front of the notch. Teeth-line reaching nearly to the notch.

* Beak of the skull narrow behind, as long as or slightly longer than the length of the brain-case. Teeth small, five in an inch. First and second cervical vertebree united by their bodies; third and fourth by the spinous processes. Leucopleurus.

9. Lagenorhynchus leucopleurus. Beak of the skull twice as long as the width at the notch. Teeth small, five in an iuch.

[^0]8. Lagenorhynchus albirostris. The beak of the skull once and one-half as long as the width at the notch.
3. Additions to the List of the Avifauna of Australia, with Descriptions of Three New Speeies. By John Gould, Esq., F.R.S., \&c.

The following birds have been lately transmitted to me by my brother-in-law, Mr. Charles Coxen of Brisbane in Queensland, and were, I believe, collected by Johm Jardine, Esq., late Commissioner of Crown Lands in the Cape York district, a portion of Australia so near to New Guinea and the Aru Islands that we need not be sur prised if some of the species prove to be identical with, or offer a close resemblance to, species previously described as inhabitants of those but partially explored islands.

The first species is an additional member of those insect-loving little birds known under the generic title of Gerygone, and exhibits such strongly marked distinctive characters that it cannot for a moment be confounded with any of its allies.

## Gerygone personata.

Crown and all the upper surface olive-green; throat and chest deep olive-brown; behind each nostril a spot of white; a stripe of white also descends from the base of the bill down each side of the neck, and separates the deep olive-brown of the throat from the lighter olive of the ear-coverts; axillæ, all the under surface of the body, and the under tail-coverts delicate jonquil-yellow ; wings and tail olive-brown; bill and legs olive-black.

Total length $3 \frac{3}{4}$ inches, bill $\frac{1}{2}$, wing $2 \frac{3}{5}$, tail $1 \frac{3}{4}$, tarsi $\frac{3}{4}$.
Hab. The Cape York district of Queensland.
The second bird has many characters in common with the Ptilotis chrysotis of the south-eastern portion of Anstralia and the Ptilotis similis, a bird brought from Dorey by Mr. Wallace; but it differs from both in the greater slenderness of its form, in its diminative size, and, especially from the former, in the uniform colouring of its throat and abdomen.

## Ptilotis gracilis.

Bill deep olive-brown, with a naked yellow fleshy gape, posterior to which is an obscure narrow line of yellow; a well-defined patch of pale yellow on the ear-coverts ; crown and all the upper surface olive, the uniformity of which is only broken by a slight edging of wax-yellow on the outer edges of the primaries and tail-feathers; axillæ and the inner webs of the primaries and secondaries pale buffy yellow ; primaries and tail-feathers brown; feet dark olive-brown.

Total length $5 \frac{1}{2}$ inches, bill $\frac{7}{8}$, wing $2 \frac{3}{4}$, tail $2 \frac{1}{2}$, tarsi $\frac{3}{4}$.
Hab. The Cape York district of Queensland.

## Monarcha albiventris.

This Cape York bird is very nearly allied to the more southern M. trivirgata, but differs not only from that species, but from

Proc. Zool. Soc.-1866, No. XV.
another, of which examples are contained in my own and Mr. Wallace's collections from Timor, and a fourth from Batchian. Although these four birds are intimately allied, they possess distinctive characters by which each of them may be readily recognized. As I have here ouly to deal with the Australian members of the genns, I shall content myself with remarking that this new species is to be distinguished from the southern M. trivirgata by the unsullied whiteness of its axillaries, abdomen, and lower part of its flanks, by the black of the forehead and throat being somewhat more extensive, and by the larger size of the white terminal portion of the outer tail-feathers.

Bill and legs olive lead-colour ; forehead and a narrow stripe above the eye, upper portion of the ear-coverts, and the throat jet-black; cheeks, lower part of the neck, and the chest bright ferruginous; abdomen, axillaries, and a considerable portion of the under surface of the wing snow-white; crown of the head, back of the neck, and back bluish grey; primaries greyish brown; upper tail-coverts and tail black, the three outer feathers of the latter largely tipped with white.

Total length $5 \frac{7}{5}$ inches, bill $\frac{3}{4}$, wing 3 , tail $2 \frac{7}{8}$, tarsi $\frac{3}{4}$.
Hab. The Cape York district of Queensland.
I am also enabled to add to the list of Australian Birds, published by me in my lately issued 'Handbook to the Birds of Anstralia,' the following species-

Rallina tricolor, G. R. Gray, P. Z. S. 1858, p. 188, a bird brought by Mr. Wallace from the Aru Islands.

Of this species of Water-Rail, which appears to be common in the New Guinea group of islands, an example has been sent to me from the Cape York district, and the bird will doubtless be hereafter found in other parts of northern Australia.

Mydrochelidon leucoptera (Meisn. \& Sch.).
Schlegel having, I believe, given Celebes as one of the localities of this species, it will not be a matter of surprise that two examples should occur in the Cape York collection. Of these one is certainly immature, the other in a dress which is probably that of winter.
4. On a New Genus and Species of Birds from Madagascar. By Dr. G. Hartlaub, F.M.Z.S.

## Eroessa, n. g.

Char. Gen.-Rostr. Longiusculum, gracillimum, rectum, acutum, vix.emarginatum, apicem versus magis magisque compressum, culmine valde carinato, dimidio apicali param arcuato; gonyde recta; vibrissis vix ullis; naribus lamella cornea clausis. Alce quadrato-obtusa, cauda medium superantes; remige primo
 2 ow Ty 4 and
spurio, secundo multo longiore, $3^{\circ}-6^{\mathrm{m}}$ subaqualibus longissimis, septimo parum breviore. Cauda debilis, mediocris, subrotundata; rectrices angustce, molles. Pedes pro mole satis robusti; tursis antice scutellatis; ungues parvi, valde curvati. Ptilosis mollis.


Eroessa tenella, Hartlaub.
Eroessa tenella, Hartl., sp. nov.
Supra olitaceo-viridis, remigibus nigris, dorsi colore marginatis; mucha et regione parotica distincte cinereis, virescente lavatis; gutture, plumulis supranasalibus, periophthalmiis et flexura ala pure flaris; pectore et abdomine, subcaudalibus et subalaribus, albidis, flavo variegatis; rostro brunnescente, mandibula pallidiore; pedibus pallidis. (오.)
Long. $3^{\prime \prime} 3^{\prime \prime \prime}$, rostr. a fr. $8^{\prime \prime \prime}$, al. $1^{\prime \prime} 8^{\prime \prime \prime}$, caud. $1^{\prime \prime} 3^{\prime \prime \prime}$, tars. $6 \frac{1}{2}$ '".
Hab. Madagascar (Gerrurd).
This specimen was sent to me for examination by Mr. Alfred Newton, having been received by him through his brother from Mr. W. T. Gerrard. The species belongs to the family Sylviida, and comes generically nearest to Camaroptera, the curious structure of the wings being almost the same in these two genera. The proportionately large feet are also peculiar to both. The bill, however, is very different, and reminds one most of the genus Zosterops; but this last differs totally in its wings, having no spurious first primary, \&c. \&c. The generic place of Lroessa is decidedly near Camaroptera.
5. Notes on some Mammalia from Port Albany (Cape York Peninsula), North Australia, with the Deseriptions of some New Speeies. By Dr. J. E. Gray, F.R.S., V.P.Z.S., F.L.S., \&c.
(Plate XXV.)
The British Museum has received from Mr. Charles Coxen a series of Mammalia from Port Albany (Cape York Peniusula), North Au-
stralia, which are interesting as containing some species which have not hefore been recorded as natives of Australia.

## Hipposideros albanensis.

Black brown ; hair white, with minute black tips; beneath greyish black, hair nearly one-coloured. Wings from base of shin. Fore-arm-bone $1 \frac{1}{2}$ inch long.

Hab. North Australia, Port Albany.
Nyctophilus gouldi?
Hab. North Australia, Port Albany.
Dactylopsila trivirgata, Gray, P.Z.S. 1858, p. 110. f. 1,5; Gerrard, Cat. Bones B. M. p. 121.

Var. Tip of the tail white.
Hab. Port Albany, North Australia.
This animal was originally described from a specimen collected by Mr. Wallace in the Aru Islands.

## Cuscus maculatus, var. ochropus.

Male. Grey ; hair hlack, with grey tips; the chin, throat, chest, belly, scrotum, and some spots on the side of the back white; tail yellowish white; feet yellow.

Female. Larger, nearly uniform dark grey; the hairs black, with short grey tips ; chin, chest, and the middle of the belly to the vent white, with a well-defined black streak on each side of the belly; tail yellowish white ; feet pale yellow.

Hab. North Australia, Port Albany.
A large female in the British Museum, which I described in my paper in the 'Proceedings of the Zoological Society' under the name of C. maculatus, agrees in many respects with the female from Port Albany. The white on the abdomen is narrow and straight-edged; the dark colour near the white is well marked, but not so distinctly as in those from Port Albany. It chiefly differs from the latter in the feet not being yellow or reddish, which was common to all the three specimens which I have seen from North Australia.

The specimen of the two-thirds-grown female, described as Cuscus brevicaudatus, which was brought by Mr. John Macgillivray from Cape York, has a nearly uniform dark-grey fur, with the chin, chest, and underside of the body white. It differs from the adult female of Mr. Coxen's in the white on the under part of the body being wider; and there is no appearance of the broad black streak which margins the white in the specimen from Port Albany. The fore feet are grey like the back, and not yellow as they were in ail the three specimens, which include two males and one female, sent home by Mr. Coxen.

## halmaturus coxenit, sp. nov. (Pl. XXV.)

Fur brown, minutely grizzled; the nape and back between the
shoulders darker; side of the head, near base of ears, and body pale reddish; shoulders outside of fore and hind legs paler bay ; streak on cheek and upper part of thigh white.

Hab. North Australia, Port Albany (Coxen).
This species is very like $H$. ayilis; but the tail and hind feet are much shorter. The fur is darker, and especially on the nape and upper part of the middle of the back. The sides of the body and face, and especially the head round the base of the ears, and the legs are bright rufous. The white mark on the thigh is as distinct as in H. agilis.

The IIalmaturi with a well-marked oblique white streak across the thigh may be thus divided:-

## * Tail and feet elongate; the front and hinder cutting-teeth large, the second one moderate.

## 1. Halmaturus dorsalis.

The back with a narrow well-defined dorsal streak. The second or central cutting-tooth on each side small, smooth. The hind foot $8 \frac{3}{4}$ inches long.

## 2. Halmaturus agilis.

The back on each side darker than the sides. The second or central cutting-tooth on each side with a central ridge. The hind foot $8 \frac{3}{4}$ inches long.
> ** Tail and feet short, thick; the front and hinder cutting-teeth moderate, the second one small.

## 3. Halmaturus coxenif.

Back darker than the sides. The hind feet $5 \frac{1}{2}$ inches long.
I have named this fine species after Mr. Charles Coxen, the brother of the late Mrs. Gould, the discoverer of several very interesting animals in Australia.

## Mus macropus.

Yellow grey brown; middle of the back blackish, from the black tips of the longer hairs; the mouth, throat, chest, belly, inside of the legs, and the upper surface of the feet white; whiskers very long, stiff, black; tail naked, with rings of square scales, yellow, basal third black. The feet nearly naked. The cutting-teeth flat, smooth, yellow in front. Ears nakedish, with short scattered hairs. Length of body and head $10 \frac{1}{2}$, tail $10 \frac{1}{2}$ inches; hind feet 2 inches 5 lines.

There are three species of Mus in the Museum with the tails more or less varied with yellow, which differ in the size of the cut-ting-teeth and feet. The one from Nortlı Australia differs from the other two in having very much larger feet.
6. Catalogue of Longicom Coleoptera, collected in the Island of Penang by James Lamb, Esq. By Francis P. Pascoe, F.L.S., F.Z.S., \&c., late Pres. Eut. Soc.
(Part I.)

## (Plates XXVI., XXVII., XXVIII.)

Penang is a small island about sixteen miles long, in latitude between $5^{\circ}$ and $6^{\circ} \mathrm{N}$., separated from the mainland of Malacea by a channel two miles in breadth. A narrow strip, of the coast opposite the island is known as "Province Wellesley ;" and it is within the limits of these two that this collection was formed. The insects are not ticketed; so it is impossible for me to say which came from the mainland and which from the island.
The total number of species in the collection is about 212 ; but as some of these are single specimens, which are either very obscure or in a poor condition, I have had to content myself with merely indicating their places in the catalogue.

If we consider that the Longicorns in their perfect state are generally short-lived, and that a great majority of the species frequent particular plants or families of plants, so that only where these plants occur can we expect to find the insects, it will be readily understood how this limited range and brief existence must make it almost impossible for any collector to obtain more than a portion of those that inhabit even a moderately extensive district. And thus it is that sometimes perhaps half the species of a large collection are represented each by one or two individuals only. The number of species, therefore, and the many superb novelties which Mr. Lamb has had the good fortune to capture, whilst it excites our admiration, shows us how mnch more might be expected if all those rich tropical lands were as thoroughly worked by entomologists as Enrope has been.

A few years ago all, with the exception of about fonrteen, would have been new to science; even now not less than 98 are described for the first time, leaving 26 for further observation, the greater part of which are also probably new. Of these, 19 are types of entirely new genera, out of the total of 110 . But to these, three more must be added, previously found by Mr. Wallace, but not yet published-Amesisa, Ephies, and Cyriopalus. Two genera are European (Mesosa and Eyosoma), with species extending to North China; six (Praonetha, Olenecamptus, Astathes, Philus, Dere, and Pyrestes) belong to North China and Northern India, but are not found in Europe (the first is also Australian) ; four (Coptops*, Cerosterna, Glenea, and Meyopis) have representatives in Africa; Xystrocera and Sybra are African and Australian ; while Atimura is the only genus confined to and belonging to both the Australian and Nalayan regions. Not less than eight of the exclusively Malayan genera are found in New

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Guinea, and this withont counting many others, such as Cereopsius, Astathes, Glenea, Ceresium, \&c., which, although almost purely Malayan, dip into the faunas of other regions, but not into the Australian. The eight genera are Ostedes, Eoporis, Anancylus, Cacia*, Clyzomedus, Serixia, Xyaste, and Merionoeda. Of the genera common to almost all parts of the world there are five-Monochamus, Clytus, Stromatium, Purpuricenus, and Cerambyx. Thus seventytwo genera are exclusively Malayan. But comparing this with the Australian list we find that out of 154 genera, 124 are exclusively Australian $\dagger$. It is perhaps scarcely necessary to observe that these statements will doubtless, with the progress of discovery, have to be modified. New Zealand is, I think, like Madagascar, to be regarded as a "satellite" region; and therefore I have omitted taking it into consideration in connexion with Anstralia.

In studying the geographical distribution of the Longicornia, it must not be forgotten that the areas, into which the earth's surface may be divided in relation to its organic productions, will not hold good for all classes, or even in some cases for all orders. Certain it is that, so far as the Coleoptera are concerned, the Malayau region, with its centre in Borneo, finds its south-eastern limit in New Guinea, -Australia constituting a very distinct and remarkable region of its own, and, so far as we know, not even shading off, as might have been expected, into a transition province on one side or the other of Torres Straits. To the north the Philippines, the southernmost part of China, and Burmah would be its northern boundaries; the two latter probably should only be considered transition countries, since their commoner species are largely mixed with European forms. The same may be said of India, which, even so far south as the Neilgherries, has but a comparatively small proportion to remind us of a tropical beetle-fauna. Even in Ceylon, European genera are dominant $\ddagger$. Regarding, therefore, these also as transition provinces from Malayan to European types, we find the only countries on the mainland of Asia belonging to the Malayan beetle-region are Pegu, Siam, Annam, and the peninsula of Malacea.

As to the classification adopted, we consider the Longicornia a suborder embracing the three families Lamiida, Cerambycida, and Prionida, each of these comprising numerous subfamilies; from the subfamilies we pass at once to the genera. With many naturalists I believe the idea still remains that every genus must have certain definite structural peculiarities, and they appear to expect that broadly dividing lines shall run between them. Any confession that no absolute or primary characters exist, or that they are only secon-

[^2]dary, is taken by them as a fatal proof of the weakness of the position. As neither genus nor species has any absolute existence, and these terms can only be nsed to express "categories of thought," it camot be expected that they should be defined with absolute certainty; and as there must necessarily be varying degrees of precision, some of these definitions might be so slight as to leave it doubtful if any distinction at all conld be maintained. It is true that, owing to the more or less exceptional isolation of many genera, a very clear and decisive description may be given of them; but then it can never be said how soon the discovery of another form or species may upset the characters we have drawn from our limited number of examples, or whether the new genus or species may not be the other sex of some other species. These are questions which, when they occur, can only be solved by the possession of data suited to each. In the meantime our best efforts can only be tentative. Moreover there are many natural assemblages of species, whether we choose to call them genera or not, for which no technical characters can be found, their connexion depending partly on peculiarities which it is scarcely possible to convey an adequate idea of in words, partly on such gradual modifications of characters that no satisfactory line can be drawn between them, but which are, notwithstanding, not less real or striking. Those who only select a few prominent forms for description may demur to this; but anyone who has gone conscientiously through a large collection will acknowledge how difficult it is, in many instances, to say if genera really exist even as a collective term for any limitable number of species, and how unsatisfactory is any attempt to combine species into genera, or individuals into species, or to distinguish hybrids* from what we conventionally call "true species." It will therefore be readily understood that many genera can only be vaguely defined, either from the absence of salient characters, or from their gradual modifications ; and some of the most natural groups among the Coleoptera might be cited as examples of these classes. To argue that genera ought to be ignored when not strictly defined, would, in entomology, be to make classification impossible ; to say that recognized genera should be enlarged from time to time to admit aberrant forms would be merely to create repertories of incongruous species.

These remarks, which may be considered almost out of place when discussing a collection so distinctive in all its aspects as the one before us, are rather directed to a class of critics who, looking on from afar, are troubled lest they should be overwhelmed by the excessive multiplication of genera. My object has been to show that genera may be not the less natural because founded on secondary characters, and that they must be so formed if we would avoid a greater evil than auy multiplication of them would be, namely, putting species into genera where no one would think of looking for them. It is quite true that genera have been excessively multiplied

[^3]by many authors, and that such genera have been based on characters so artificial as to divide species otherwise closely comected. It is not to be denied that this is an evil.

The following is a list of the species under their respective genera, subfamilies, and families. The genera and species not named are represented by dotted lines :-

## Family Lamidde.

Subfamily Acanthocinine.
Eoporis, Pasc.
-eleguns, Pasc.
Ostedes, Pasc.
_-......, sp. n.

- ......., sp. n.

Subfamily Exocentrine.
Cuphisia, g. n.

- callosa, sp. n.

Subfamily Niphonine.
Elara, J. Thoms.
-_arrogans, Pasc.
-concisa, J. Thoms.
Daxata, Pasc.
-ustulata, sp. n.
Subfamily Mesosine.
Anancylus, J. Thoms. - griseatus, Pasc.

Ereis, Pasc.
-anthriboides, Pasc.
Mesosa, Serv.

- allapsa, sp. n.

Cacia, Newm.

- inculta, Pasc.
-melanopsis, sp. n.
- pistor, sp. n.
- herbacea, sp. n.
- obsessa, sp. 1.

Clyzomedus, Pasc.

- nanus, Pasc.
- annularis, sp. n.

Coptops, Serv.

- vomicosa, Pasc.
- polyspila, Pasc.
——lecideosa, Pasc.
Saimia, Pasc.
—— albidorsalis, Pasc.
--bituberosa, sp. n.

Agelasta, Newm.
—lambii, sp. n.
-polynesus, White.

- sobrina, Pasc.
——balteata, sp. n.
- substrigosa, sp. n.

Esopida, J. Thoms.
-malasiaca, J. Thoms.
Golsinda, J. Thoms.

- corallina, J. Thoms.

Palimna, Pasc.

- tessellata, Pasc.
-mouhotii, sp. n.
Sodus, Pasc.
-ursulus, sp. n.
Subfamily Apomecynine.
Cenodocus, J. Thoms.
- adustus, Pasc.
- granulosus, sp. n.

Ixais, g. n .

- episomoides, sp. n.

Cyardium, g. n.
-cribrosum, sp. n.
Sesiosa, Pasc.
-_subfasciata, Pasc.
Praonetha, Blanch.

- obducta, Pasc.
- illicita, Pasc.
- consularis, sp. u.
- villosa, sp. 11 .
-.......
- . . . . . .

Ropica, Pasc.

- rinacea, Pasc.

Sybra, Pasc.
-umbratica, Pasc.
Atimura, Pasc.
-bacillina, Pasc.
......., g. n.
-......, sp. n.

Xylorhiza, Lap.

- venosa, Lap.

Thylactus, g. n.

- angularis, sp. n.

Subfamily Dorcadionine.
Obages, g. n.
-palparis, sp. 1.
Subfamily Itypselomina.
Cereopsius, Pasc.

- whitei, J. Thoms.

Combe, J. Thoms.
-brianus, White.
Amesisa, Pasc.

- consularis, Pasc.

Pharsalia, J. Thoms.
-incerta, Pasc.
Cycos, g. 11 .

- subyemmatus, J. Thoms.

Peribasis, J. Thoms.
—_ aspersa, Pasc.
-pubicollis, Pasc.
Omocyrius, g. n.
-fulvisparsus, sp. n.
Achthophora, Newm.

- dactylon, Pasc.

Trachystola, Pasc.

- yranulosa, Pasc.

Subfamily Lamine.
Batocera, Lap.
_- victoriana, J. Thoms.

- thomsoni, Javet.

Apriona, Chevrol.

- germari, Норе.

Thestus, g. n.

- oncideroides, sp. n.

Cerosterna, Blanch.
-_approximator, J. Thoms.
Metopiles, g. n.
-occipitalis, sp. n.
Epepeotes, g. n.
-luscus, Fab.
Blepephcus, g. n.

- succiuctor, Chevrol.

Epicedia, J. Thoms.

- plagiatu, J. Thoms.
$\qquad$
- ?

Monochamus, Serv.

- fistulator, Germ.
- musivus, sp. n.
- sobrius, Pasc.
- ?

Imantocera, J. Thoms.
-plamosa, Ol .
Gnoma, Fab.
—— dispersa, sp. n.
Mecotayus, g. n.
-_tigrinus, Ol .
Olenecamptus, Chevrol.

- bilobus, Fab.
--- optatus, sp. n.
-_quietus, sp. n.
Subfamily Onocerbaline.
Atossa, J. Thoms.
-atomaria, sp. n.
Subfamily Hippopsine.
Nyctimene, J. Thoms.
__ agriloides, J. Thoms.
Tetraylenes, Newm.
——insignis, Newm.
Subfamily Saperdine.
Entelopes, Guér.
- glazca, Guér.
——similis, sp. n.
- ioptera, Pasc.

Serixia, Pasc.

- prolata, Pasc.
- basalis, sp. n.
- lonyicornis, Pasc.
- prasinate, sp. n.
_......, sp. n.
Xyaste, g.n.
- nigripes, Pasc.

Subfamily Astatheine.
Astathes, Newm.
—— splendida, Fab.

- terminata, Pasc.
——niyricornis, J. Thoms.
Subfamily Puytecinea. Glenea, Newm.

Glenea elegans, OI.

- porphyrio, sp. n.
——blandina, Pasc.
- rufina, Pasc.
- neanthes, sp. n.
- extensa, Pasc.
-_ oudetera, J. Thoms.
- anticepunctata, J. Thoms.
- vesta (pulchella), Pasc.
- ......, sp. n.
-_algebraica, J. Thoms.
- jubrea, sp. n.
- cunila, sp. n.
-alysson, sp. n.
-ame, sp. n.
- illuminata, J. Thoms.
-_manto, sp. n.
-anthyllis, sp. n.
Tanylecta, g. n.
- lambii, sp. n.

Zosne, g. n.
-cincticornis, sp. n.
Oberea, Muls.
-curialis, sp. n.

- clara, sp. n .
- tenuata, sp. 1.

Ectinogranma, J. Thoms.
-collare, sp. n.
Nedytisis, g. n.
-obrioides, sp. n.
Family Cerambycide.
Subfamily Lepturine.
Capnolymma, Pasc.

- stygium, Pasc.
-- capreola, sp. n.
Asilaris, g. n.
-~onatus, $\mathrm{sp} . \mathrm{n}$.
Ephies, g. u.
-cruentus, sp. n .
Leptura, Lin.
——......, sp. 1.
Philus, W. W. Saund.
—rufescens, sp. n.
Subfamily Stenoderinte.
Dejanira, J. 'Thoms.

Dejanira 4-punctata, J. Thoms.

- biapiculata, sp. n.

Diosyris, g. n.

- miranda, sp. n.

Subfamily Disteniine.
Noëmia, Pasc.

- Alavicornis, Pasc.
-chalybeata, sp. n.
Subfamily Necydaline.
Merionceda, Pasc.
- acuta, sp. n.

Subfamily Obrine.
Deuteromma, Pasc.
-testaceum, Pasc.
Ciopera, g. n.

- decolorata, sp. n.

Subfamily Rhinotragine.
Epianthe, g. n.

-     - viridis, sp. n .

Mydastu, g. n.

- discoidea, sp. n.

Sestyra, g. n.
-cephalotes, $\mathrm{sp} . \mathrm{n}$.
Mimistena, g. n.

- femorata, sp. n.

Plutonesthes, J. Thoms.

- crocata, sp. n.

Subfamily Erythrina.
Erythrus, White.
-ignitus, sp. n.

- lacertosus, sp. n.
- apiculatus, sp .11 .
-atricollis, sp. n.
Pyrestes, Pasc.
- politus, sp. n.
- scapularis, sp. n.
- virgatus, sp. n.
- nigricollis, sp. $n$.

Subfamily Callichromine.
Chloridolum, J. Thoms.

- thomsoni, Pasc.
- cinmyris, sp. n .

Leontiam, J. Thoms.

Pachyteria, Serv.
——equestris, Newm.

- lambii, sp. n.
——virescens, sp. n.
- spinicollis, sp. n.
- insignita, sp. n.
- strumosa, sp. n.

Subfamily Clytina.
Xylotrechus, Chev.
-uustralis, Lap.

Clytanthus, J. Thoms. annularis, Fab.

Demonax, J. Thoms. -macilenta, Chev.
......., g. n.
-_......, sp.n.
Dere, White.

- marginata, sp. n.

Bicon, g. n.

- sanguineus, sp. n.

Sigeum, g. n.

- humerale, Pasc.

Euryarthrum, Blanch.

- nodicolle, sp. n.
——lambii, sp. n.
-- carinatum, sp. n.
- interruptum, sp. u.
- egemum, sp. n.
-atripenne, sp. n.
Asmedia, g. 1 I .
- mimetes, sp. n.

Subfamily Cerambycine.
Cerambyx, Lin.
-_ pruinosus, sp. n.
Neocerambyx, J. Thoms.

- lambii, sp. n.
--? intricatus, sp. n.
-......, sp. n.
Hoplocerambyx, J. Thoms.
- relictus, sp. n .

Dialeges, Pasc.
—— pauper, Pasc.

Imbrius, g. n.
——ephebus, sp. n.

- lineatus, sp. n.
- strigosus, sp. n.
-.... ., sp. n.
Rhytidodera, White.
- simuluns, White.
——cristata, sp. n.
Cyriopalus, g. n.
-wallacei, sp. n.
Ceresium, Newm.
-raripilum, Newm.
- vestigiale, sp. 11.
- zeylanicum, White.
-_ simplex, Gyll.
- versutum, sp. n.

Subfamily Purpuricenina.
Purpuricenus, Serv.

- sanguinolentus, Ol .

Euryphagus, J. Thoms.
-maxillosus, Ol .
Euryclea, J. Thoms.

- cardinalis, J. Thoms.

Subfamily Cerasphorinet.
Stromatium, Serv.

- asperulum, White.

Noserius, Pasc.

- tibialis, Pasc.

Gnatholea, J. Thoms.

- eburifera, J. Thoms.

Xystrocera, Serv.

- globosa, Ol .
——alcyonea, sp. n.
......., g. n.
- ......., sp. n.

Family Prionide.
Subfamily Macrotomine.
Remphan, Waterh.

- hopei, Waterh.

Subfamily Ægosomine.
Eyosoma, Serv.
-marginale, Fab.
Meyopis, Serv.
-procerus, sp. n.

## Lamidee.

## Acanthocinine.

## Eoporis.

Eoporis, Pascoe, Long. Malay. p. 15.
Eoporis elegans, Pascoe, l.c. p.16, pl. 1. f. 6.
Two specimens of this widely distributed species, which is found so far south as New Guinea; occur in the collection.

## Ostedes.

Ostedes, Pascoe, Trans. Ent. Soc. ser. 2. v. p. 43.

## Ostedes -—.

Two species of this, or a nearly allied genus, are in the collection, but are not sufficiently perfect to admit of description.

## Exocentrine.

## Cuphista.

Caput magnum; oculi parvi, profunde emarginati.
Antennæ setosce, scapo tenuiter cylindrico articnlo tertio breviore. Prothorax transversus, lateraliter inermis.
Head large, broad and conrex in front; antennary tubers short, remote; lip small, rounded; eyes small, lateral, deeply divided; palpi short, pointed. Antemæ slender, setose, rather longer than the body; the scape attenuate, cylindrical, shorter than the third joint ; the rest gradually but rapidly diminishing. Prothorax short, transverse, not broader than the head, the sides unarned and slightly romided. Elytra rather broad, with parallel sides, only rounded at the apex ; the shonlders prominent; the disk with a slight callosity on each side near the scutellum. Legs of moderate length; anterior and intermediate coxæ globose and exserted, with the acetabula of the former broadly triangular externally; femora rather incrassated ; anterior tibie slightly curved, the rest straight; tarsi equal, the three basal joints, taken together, triangular. Pro- and mesosterna simple. Body setose.

Twenty-two genera of this subfamily were found by Mr. Wallace; but there is only one exponent of it in this collection, representing a form which cannot be referred to any of them, although coming near Eyesina. From that genus, however, it differs in its slender antennæ and elongate and cylindrical scape, which, notwithstanding, is shorter than the third joint; Emeopedus is in no wise setose; Ebcides and Dyemus differ in their remarkably thickened and nodulose antennæ; Enispia and Nesomomus have also differently formed antennæ ; and, lastly, Oloessa has (inter alia) divided eyes. All the other castern genera have the prothorax spined or toothed at the sides.

Cuphisia callosa. (Pl. XXVI. fig. 1.)
C. pallide fusca, sparse grisea pubescens; elytris fortiter punctatis, basi fulvis, maculis paucis fulvo pilasis ornatis.
Pale brown, subnitid, with a sparse greyish pubescence; head and prothorax reddish brown, impunctate, the pubescence thicker, with a yellowish tinge ; scutellum nearly triangular, pointed posteriorly; elytra coarsely substriate-punctate, the base fulvons, and haring a well-marked callus on each near the suture and a little behind the scutellum, posteriorly four patches of fulvous hairs, one behind the middle, equidistant from the suture and external margin, another and the largest preapical, and two outer on the same lateral lines as the preceding ; body beneatl, legs, and antennæ more or less fulvous brown, subnitid, and all, as well as the whole upper surface, clothed with scattered erect setose hairs, principally white, bnt intermixed with a few black. Length $2 \frac{1}{2}$ lines.

## Niphonine.

## Elara.

Alara, J. Thomson, Syst. Ceramb. p. 55.

## Elara arrogans.

Niphona arrogans, Pascoe, Journ. of Entom. i. p. 338.
Elara arrogans, Pascoe, Long. Malay. p. 82, pl. 4. f. 5.
M. Thomson has two other genera (Camptocnemu and Ocheutes) which I am unable to distinguish satisfactorily from this. The comparative length of the antennæ, upon which they appear to be chiefly based, varies according to the species and to the sex : thus the male of Elara arrogans, which is an Ocheutes, has the antenne quite as long as $E$. excisa, which I take to be congeneric with $E$. ferdinandi, the type of the genus. Neither of the three genera would admit Nipiona cylindracea, White; and one or two others would be nearly as difficult to locate. At the same time they are all tolerably homogeneous in appearance. The species under review has been taken by Mr. Wallace in Sarawak, where it does not appear to be uncommon.

Elara concisa, Thomson.
I havè received a specimen from M. J. Thomson under this name from Java. I am not aware if he has published it. I have seen it, or a species rery similar, from the Himalaya, in Mr. W. Wilson Saunders's collection.

## Daxata.

Daxata, Pascoe, Long. Malay. p. 88.
Daxata ustulata. (Pl. XXVII. fig. 4.)
D. grisescens, maculis punctiformibus nigris ornata; elytris singulis basi lineato-cristatis.

Covered with a short greyish pile, scarcely concealing the shining brownish or yellowish-brown derm beneath; head grey in front, a black patch behind the eye, which is continuous with a line of the same colour on each side of the prothorax, the latter slightly depressed in the centre, with a short longitudinal elevated line, the sides transversely wrinkled; scutellum subquadrate, but a little rounded posteriorly; elytra nearly impunctate, except at the base, rather sparsely dotted with small black punctiform spots, but two or three of larger size forming a transverse interrupted bar behind the middle, at the base a few shining granules and two elevated lines, the innermost simulating a crest; behind the shoulder the elytron is slightly incurved and marked with a dark-brown longitudinal patch; body beneath and legs reddish brown, with a sparse ochreous-grey or grevish pile ; the tibiæ varied with dark brown ; antennæ brown, the joints, from the third inclusive, ashy at the base, the scape varied with ochreous. Length 8 lines.

Daxata is particularly distinguished by its thick pyriform scape and the tooth-like process on the inner edge of the antennary tuber. In this species the eye is larger in proportion, and the remarkably elevated and conical protuberance of the elytron in Daxata camelus is replaced by a short uarrow crest. The second abdominal segment of the specimen before me is furnished on each side with the curious semicircular hairy patch common to many of the members of this subfamity, and which, I believe, is confined to the males. D. camelus is from Sarawak.

## Mesosine. <br> Anancylus.

Anancylus, J. Thomson, Syst. Ceramb. p. 61.
Anancylus griseatus.
Mesosa grisenta, Pascoe, Trans. Ent. Soc. ser. 2. ir. p. 243.
All the individuals of this species I have hitherto seen have been from Sarawak.

## Ereis.

Eris, Pascoe, Trans. Ent. Soc. ser. 2. iv. p. 110 (nec Koch).
Ereis, Pascoe, Long. Malay. p. 10 万̄.
Ereis anthriboides, Pascoe, Trans. l. c. pl. 22. f. 7.
This also has hitherto only occurred at Sarawak. I have described two other species from Cambodia.

## Mesosa.

Mesosa, Serville, Anu. Soc. Entom. de France, t. 4. p. 43.
Megosa allapsa.
1I. rufo-grisea, fusco variegata; antennis rufescentibus, fusco muculatis et annulatis.

Covered above with a short dense reddish-grey pubescence varied or marbled with brown; head minutely punctured, the mesial line extending to the lip; prothorax transverse, rounded at the sides, rather finely punctured; scutellum rounded behind; elytra broader behind the middle, the punctures larger than those on the prothorax, and very irregular, the brown mottling the whole of the elytra in a very indefinite manner, but forming posteriorly an oblique zigzag line, anterior to which, but behind the middle, is a large brown wellmarked spot; body beneath dark chestnut, the sides of the abdomen densely clothed with a rich-reddish-brown pile; legs covered with a delicate rosy pubescence, banded with dark brown, the two basal joints of the tarsi entirely rosy, the third and fourth varied with brown; antenne longer than the body, also with a short rosy pubescence, the four basal joints spotted, and at their tips, as well as the tips of the remainder, ringed with brown. Lengtli 7 lines.

Not to be distinguished generically, as it appears to me, from the Mesosa curculionoides of Europe. It is a very distinct species from the M. perplexa of China.

## Cacia.

Cacia, Newman, Entom. p. 290 (1842).
Corethrophora, Blanchard, Voy. au Pôle Sud, t. 4. p. 301 (1843).
Cacla inculta, Pascoe, Trans. Ent. Soc. ser. 2. iv. p. 102.
Mr. Wallace took this species in Singapore and Sarawak.
Cacia melanopsis. (Pl. XXVI. fig. 4.)
C. fusco-grisea, nigro et albo variegata; capite antice glabro, migro; prothorace transversim corrugato; tarsis cinereis, atro maryinatis.
Dark brown, the pubescence brownish grey mingled with spots and patches of dark brown and white; head glabrous in front (from abrasion?), black, finely punctured, a patch of whitish pubescence under the eye; prothorax transverse, scarcely broader than the head, finely corrugated, the pubescence very slight and mostly brownish grey; scutellum small, rounded posteriorly ; elytra with a slightly elevated gramular line on each side at the base, the punctures very small and partly concealed by the pubescence, behind the middle a series of white spots forming an indefinite band, nearer the apex a similar band but narrower, the rest greyish, with dark spots; body beneath and legs with a slight greyish pile; the knees and ends of the tibix black; tarsi ashy, bordered with black; antemne ( $q$ ) as long as the body, black, the third and fourth joints (except at the tips and their tufts) ashy, scape nearly glabrous, finely punctured. Length 8 lines.

A fine and very distinct species.

## Cacia pistor.

C. albescens, fusco maculata; capite prothoraceque albescentibus, hoc haud corrugato; tarsis cinereis, nigro marginatis.

In size and outline like the last; but the general colour is white without any brownish grey, the head pubescent in front, and the prothorax not corrugated; the antennæ and legs similar, except that the black on the knees is less marked. There is only one specimen of each. In both, the third and fourth antennary joints are produced at the apex, but the process is concealed by the tuft of hairs with which the apices of these joints are furnished.

Cacla herbacea. (Pl. XXVI. fig. 3.)
C. capite fulvescente; elytris griseo-viridibus, basi et ultra medium dilutioribus; tarsis infuscatis.
Head with a pale ochreous-grey pubescence, finely punctured in front ; lip pale brown ; prothorax short, greenish grey with four oblong blotches, the two central paler; scutellum transverse; elytra setulose at the sides, yellowish green, the base and behind the middle paler, the latter with darker blotches forining an incomplete band; body beneath and legs covered with a fine greyish-yellow pile, the ends of the tibix and tarsi chocolate-brown; antennæ about as long as the body ( $q$ ), ochreous, the fourth joint and its tuft brown except at the base, the third finely spined at the apex*. Length $4 \frac{1}{2}$ lines.

## Cacia obsessa. .

C. cinerea; prothorace fusco livittato; elytris fusco irroratis vel plagiatis; tarsis infuscatis.
Pubescence pale ashy varied with stripes or spots of blackish; head ashy, a dark band between the eyes; eyes very small; prothorax short, impunctate, with two blackish stripes, each continuous with a patch behind the eye; scutellum semicircular ; elytra rather short, sparingly punctured, especially towards the apex, indeterminately sprinkled with blackish; body beneath and legs ashy, the tarsi darker ; antennæ blackish, bases of the second, third, fourth, and fifth joints entirely ashy, elongated tuft on the fourth black. Length 4 lines.

Cacia is a somewhat heterogeneous genus, though, on the whole, one readily recognized. In some of the species the two sexes have the antenne nearly equal in length; in the females of others the seven terminal joints are together scarcely a quarter the length of the remainder, while in the male they are half as long again as the basal portion. Tufts of hairs are found on the third or fourth joint, or on both, or they disappear altogether; these are sometimes supported by spines or short prolongations of the apices of the joints, or the spines occur without tufts. The colouring is very variable, even occasionally in the same species.

## Clyzomedus.

Clyzomedus, Pascoe, Long. Malay. p. 115.

* In Cacia inculta this character is present or absent in the same species.

Proc. Zool. Soc.-1866, No. XVI.

Clyzonedus nanus.
Coptops nanus, Pascoe, Trans. Ent. Soc. ser. 2. r. p. 39.
Clyzomedus nanus, Pascoe, Long. Malay. p. 116, pl. 8. f. 4.
This species was found in New Guiuea by Mr. Wallace, but in none of the intervening islauds.

Clyzomedus annularis.
C. pallide brunneus, tenuissime griseo pubescens; antennis griseis, brunneo annulatis.
Pale reddish brown, with an exceedingly delicate greyish pubescence, which is, howerer, coarser on the head and face ; prothorax very short, impunctate; scutellum scutiform; elytra rather short, finely punctured, the puuctures larger at the base, the pubescence somewhat irregular and forming, principally posteriorly, one or two indefinite flexuous lines; body beneath, legs, and antennæ with a thin greyish pubescence, the latter with tips of the joints dark reddish brown. Length $3 \frac{1}{2}$ lines.

Clyzomedus has been separated from Coptops on account of its prosternum produced posteriorly, forming an angular transverse ridge between the cosæ, not rounded or without such angle. The species are also smaller aud far less robust.

## Coptops.

Lachnia, deuxième division Coptops, Serville, Ann. Soc. Ent. de France, t. 4. p. 64.

Coptops vomicosa.
Abryna romicosa, Pascoe, Journ. of Entom. i. p. 341.
This species, described in the work above quoted, was found by the late M. Mouhot in Cambodia, where it appears to be common.

Coptops polyspila, Pascoe, Long. Malay. p. 118.
Also found by Mr. Wallace at Pulo Peuang.
Coptops lecideosa, Pascoe, Long. Malay. p. 120.
Mr. Wallace's specimens are from Sarawak and Sumatra.

## Saimia.

Samia, Pascoe, Long. Malay. p. 121.
Saimia albidorsalis.
Sa mia allidorsalis, Pascoe, l.c. p. 122, pl. 8. f. 6.
Found also by Mr. Wallace at Singapore and Sarawak. Mr. Lamb's specimeu has five well-marked tuberosities on the disk*.

[^4]
## Saimia bituberosa.

Fusca, grisescente pubescens; prothorace medio valde bituberoso.
Brownish, with a thin greyish pubescence, forming on the elytra little longitudinal silky ridges; head rather broad and thinly pubescent in front; prothorax abont equal in length and breadth, two approximate strongly marked tubers a little before the middle, the rest of the disk tolerably regular, on each side anteriorly a short thick tooth; scutellum transrersely quadrate; elytra rather short, thinly punctured, a broad callus on each side at the base; body beneath and legs chestnut-brown, shining, the pubescence thin and spotty; antennæ more than twice as long as the body, chestnut-brown, the basal joints with greyish pubescent spots, the middle and terminal joints with the base and the tip of each greyish. Length 9 lines.

## Agelasta.

Agelasta, Newman, The Entom. p. 288.

## Agelasta lambil. (Pl. XXVI. fig. 7.)

A. fusca, pube alba brevissima et densissima induta; capite prothoraceque albo vittatis; elytris allis, ultra medium fascia angusta vittisque fuscis ornatis.
Covered with a very short but very dense white pubescence, varied with lines or stripes of dark chocolate-brown, which are very nearly glabrons; head with one central and two lateral yellowish-white stripes, the latter interrupted above the eye, the cheeks white ; prothorax yellowish white, with two central brown stripes comnected posteriorly, and three lateral stripes, the two innermost united anteriorly and all continuous with the stripes on the head; scutellnm transversely scutiform ; elytra minutely punctured, of a clear chalky white to behind the middle, where they are crossed by a narrow irregular brown band, which throws out towards the apex two (or three) stripes on each side; body beneath black, shining, the sides pubescent, white; legs pure white, the tarsi dark brown, except the lobes of the third and middle of the fourth joints ; antennæ longer than the body in the male and twelve-jointed, in the female shorter than the body and eleven-jointed, dark brown, the second and bases of the third to the sixth joints white. Length $7-8$ lines.

Closely allied to $A$. wallacei, but differing in the absence of the brown band at the base of the elytra, and the presence of a supplementary joint in the antennæ of the male.

Agelasta polynesus, White, Catal. Long. Brit. Mas. (1855) pl. 10. f. 9 (sine descript.) ; Proc. Zool. Soc. 1856, p. 410.

Apparently a common species at Singapore and Sarawak.
Agelasta sobrina, Pascoe, Long. Malay. p. 127.
In the Wallacean collection there are specimens from Singapore,

Sarawak, and Banca. It has been confounded with Ayelasta amica, White.

Agelasta balteata. (Pl. XXVI, fig. 9.)
A. supra pube rufo-brunnea induta, maculis plurimis et fascia elytrorum rufo-fuscis.
Above with a short dense pale reddish-brown pubescence, mingled with a few white hairs, with several spots and a band on the elytra dark reddish brown; spots on the head somewhat obscure, on the prothorax about nine, the odd one nearly at the base; scutellum broadly triangular; elytra with a well-marked band between the middle and the base, and eight or nine spots on each posteriorly ; body beneath pubescent, palc ashy; legs brownish, the tips of the tibie and the tarsi dark brown; antemme brown, the base as far as the middle of the third joint and bases of the fourth and fifth ashy. Length 5 lines.

Approaches in some respects $A$. newmani, which, however, is of an ashy colour, with two bands on the elytra; in both, the scape and third and fourth joints are of equal length.

## Agelasta substrigosa. (Pl. XXVI. fig. 8.)

A. nigra, pube dispersa cincrea induta; capite, prothorace, et lasi elytrorum gramulis numerosis nigris nitidis instructis.
Black, with small patches (on the elytra, postcriorly, lines) of pale ashy pile; head and prothorax with numerous small black shining gramiles, between which are little patches of ashy hairs, the latter marrowed behind, a little contracted anteriorly, the sides without any projections; scntellum transverse, nearly glabrous; elytra subcylindrical, the base fimely granulate, the middle with a few foveolate punctures and three or four white spots on each side, towards the apex indefinite longitudinal lines of pale ashy; body beneath and legs black, subnitid, with a mottled ashy pubescence, tarsi ashy, the basal and apex of the claw-joint black; anteme slender, about half as long again as the body in the male, black, with the base speckled with ashy, the bases of the fourth and fifth and eighth and uinth joints ashy. Length 5 lines.

An interesting species, resembling in colour A. irrorata, but more cylindrical than any other member of the genus, and furnished with little granuliferous points rising in an exceedingly definite mamer from the derm. In this species the third joint of the antenure has a double curve, and is considerably longer than any other. The technical characters of Agelasta are extremely variable, yet, notwithstanding, it is a very natural genus and very readily recognized.

## Esopida.

Asopida, J. Thomson, Syst. Ceramb, p. 62.
Esopida malasiaca, J. Thomson, l. c. p. 62.
Apparently not uncommon in Malacca.

## Golsinda.

Golsinda, J. Thomson, Essai Class. Céramb. p. 343.
Golsinda corallina, J. Thomson, l. c. p. 344.
The single example in Mr. Lamb's collection differs a little in the colour of its antenne and legs from the Borneo species. In the former a pale ashy replaces the bright orange of the latter, and all the joints of the antenne, except the last, are ringed; beyond this I am unable to distinguish it. Mi. Mouhot also took it in Laos.

## Palinina.

Palimna, Pascoe, Journ. of Entom. i. p. 346 (1862). Cylanca, J. Thomson, Syst. Ceramb. p. 58 (1864).

## Palimna tessellata.

Golsinda tessellata, Pascoe, Trans. Lint. Soc. ser. 2. iv. p. 49 ; Long. Malay. p. 135, pl. 6. f. 2.

Numerous individuals of this specics were found by Mr. Wallace in Sarawak.

## Palimia mouhotif.

P. nigra, albo maculata, densissime et breviter pubescens; elytris apice rotundatis; articulo ultimo tarsorum toto nigro.
Corered with a rery dense and short black pubescence, marked with large definite, occasionally almost confluent, white spots; head white, band between the eyes and behind them black; prothorax a little transverse, the lateral angle fringed with a row of small black granules, the disk irregular, with a large black patch, varied with two or three spots of white; scutellum scutiform, black, the centre white ; elytra with two crect spines at the base of each, the shoulders also slightly spinous or tuberculate, an oblique angular line on each side, the apex rounded; legs and antemnr ringed with black and white, the first two joints of the tarsi white bordered with black, the last two entirely black. Length 10 lines ( $0^{\circ}$ )-13 ( f ).

This description has been drawn up from Laos specimens collected by the late M. Mouhot. The species bears a very decided resemblance to $P$. tessellata, but the colours are much purer and more clearly limited, the prothorax shorter, more coarsely toothed, and the last tarsal joint is entirely black. There are other differences, which may, however, not be so permanent.

## Sodus.

Sodus, Pascoe, Long. Malay. p. 137.
Sodus ursulus. (Pl. XXVI. fig. 2.)
S. fulvo-lrunncus, setulosus; capite scutelloque griseis; prothorace lasi latiore; antennis brunneis, griseo setulosis.

Tawny brown, thickly pubescent, everywhere, except the under surface, clothed with short erect setulose hairs; head with sparse greyish hairs, behind the eye a yellowish spot, which corresponds with another on the prothorax, the latter turgid in the centre and expanded at the base; scutellum nearly triaugular ; elytra remotely and irregularly punctured, obscurely raried with dark brown, particularly two flexuous marks which enclose near the shoulder a pale yellowish spot; body beneath dark chestnut-brown, subnitid, minutely pubescent; legs and antenuæ tawny brown, obscurely varied with greyish. Length $4 \frac{1}{2}$ lines.

A somewhat broader species than Sodus verticalis, and otherwise very distinct. Sodus is a somewhat isolated genus, differing from the other genera of its subfamily in the rounded apex of the scape, not dilated nor cicatricose, and in the presence of setulose hairs clothing every part of the insect, except the breast and abdomen.

## Apomecynine.

## Cenodocus.

Cenodocus, J. Thomson, Syst. Ceramb. p. 47.
Cenodocus adustus, Pascoe, Long. Malay. p. 142, pl. 10. f. 3.
Mr. Wallace's specimen of this species is from Sumatra. M. Thomson's trpe (C. antemnatus) is from Jara.

Cenodocus granulosus. (Pl. XXVI. fig. 12.)

## C. ferrugineo-griseus; elytris singulis medio impressione obliqua instructis; tarsis concoloribus.

Derm black, closely covered with a coarse rusty-grey pile; head rugose in front, the pile sparsely distributed; prothorax oblong, with numerous large foreolate punctures; scutellum semilunar; elytra short, strongly punctured, with here and there black glossy granules between them, from near the suture at about the middle of each elytron a large shallow impression proceeds ontwards and downwards, this is nearly free from punctures or granules, and is of a lighter colour than the rest; body beneath and legs with a coarse greyish pile; antennæ brown, the fringe, apex of the fourth, which is otherwise white, aud the remainder of the joints black. Length 6 lines.

This is a well-marked species belonging to a well-marked genus. The antenuæ are unusually short, even for this subfamily, and the joints of rery unequal length, the last seven, for instance, being together shorter than the third; this joint is feathered as it were on two sides by densely compacted hairs. In this species the feathering does not extend to the base of the joint. The scape and also the second joint have also slighter plumes beneath, so far as the above species are concerned, but in M. Thomson's species no mention is made of the plume on the scape.

## Ixais.

Caput antice subtransversum, linea mediana ad orem attingente. Antennæ perbreves, articulis tertio et quarto subcquatibus, infia fimbriatis.
Elytra basi angusta, postice latiora, in medio clevato-convexa.
Head rather transverse in front, the impressed median line extending from the vertex to the mouth; antennary tuhers almost obsolete. Eyes deeply divided, the lower lobe somewhat approximating to the base of the mandibles. Antennæ very short, entirely pubescent, scape ovate, the third joint rery little longer than the fourth, both closely fimbriated beneath, the last seven joints exceedingly short. Prothorax subquadrate, its sides nearly straight. Elytra highly conver in the middle, narrower and depressed at the base, broadest posteriorly. Legs short, robust, nearly equal ; anterior coxæ exserted, their acetabula with a rertical angle. Pro- and mesosterna slightly raised, their opposing faces rounded.

This genus is a modification of the Cenodocus form, differing principally in the shape of the elytra, the presence of a strongly impressed median line on the head, and the relative proportion of the third antennary joint. The only species which it contains at present is remarkable for its general resemblance to Episomus pauperatus, Fab. (Curculio), a native of Sumatra, and probably extending to the opposite coast of Malacca, as it occurs also in Java. There are other genera of Longicorns which never fail to recall forms belonging to widely different groups.

Ixais episomoides. (Pl. XXVI. fig. 10.)
I. supra fusco-grisea, infra albida; elytris seriatim punctatis, punctis oblongis, profunde impressis.
Derm brownish testaceons, covered above with a thin greyish pile; head slightly punctured in front, two brownish stripes on the vertex, continuous with a broad central stripe of the same colour on the prothorax, the latter with crowded foreolate punctures; scutellum transverse; elytra seriate punctate, the punctares rather irregular near the suture, oblong and rery deeply impressed, with a few pale-testaceous granular elerations, principaliy at the base, the sides auteriorly and a few small spots white; body beneath and legs covered with a whitish pubescence; antenuæ about half as loug as the body, closely pubescent, white, except the apex of the fonrth and all the succeeding joints. Length 6 lines.

## Cyardium.

Caput subtransversum, fronte sulcato.
Antennæ breves, rolusta, vix fimbriatce, scapo olconico.
Prothorax capite paulo latior, dente antico instructus.
Elytra elongata, cylindrica.
Head transverse in front, the forehead deeply sulcate ; antennary tubers robust ; eyes deeply dirided. Antennæ short, stout, pubes-
cent, searcely fimbriated; scape obconic, third joint much longer than the fourth, the rest very short. Prothorax a little broader than the head, subcylindrical, toothed anteriorly. Elytra elongate, cylindrical, callous at the base. Legs short, equal; anterior tibiæ not toothed internally. Prosternum elevated. Mesosternum toothed anteriorly.

The presence of a prothoracic tooth, as well as the style of sculpture, places this genus in the neighbourhood of Synelasma, from which, however, it abundantly differs in the characters of the head, antenmæ, and in its elongate cylindrical form.

Cyardium cribrosum. (Pl. XXVI. fig. 5.)
C. pallide ferrugineum, sparse griseo pubescens; elytris post medium fascia albida ornatis; antennis articulis tertio et quarto, apice excepto, albis.
Pale rusty brown, rather sparingly clothed with a greyish pubescence; head deeply impressed on the vertex between the upper lobes of the eyes, the front coarsely punctured, each puncture with a stiff whitish hair at the base; prothorax with deep crowded irregular in:pressions having apparently a deciduous greyish pubescence, the raised intermediate portions tuberculiform or granular ; scutellum very transverse; elytra with a slight callus near the base, and numerous large foveolate punctures, and little patches of ochreous pubescence between them, behind the middle a broad whitish band; body beneath pale buff, spotted with yellowish brown; legs buff, varied with brownish; antemæ dark brown, the scape reddish brown, third and fourth joints white except at their tips. Length 8 lines.

## Sesiosa.

Sesiosa, Pascoe, Long. Malay. p. 154.
Sesiosa subfasclata, Pascoe, l.c. p. 154, pl. 8. f. 2.
The Wallacean specimen is from Singapore. The genus is allied to Apomecyna.

## Praonetha.

Prioneta (ab errore), Blanchard, Yoy. au Pôle Sud, iv. p. 292.
Praonetha obducta, Pascoe, Long. Malay. p. 165.
The puncturation is a little coarser than on the typical specimens from Ceram and Bouru, on whieh I have based my description.

Praonetha illicita, Pascoe, l.c. p. 169.
It is possible that this is only a subspecies or variety of a widely distributed species, and it will then be found to extend from Penang to Java on the one hand, and to Aru on the other. Other localities are Goram, Batchian, and Mysol.

Praonetila consularis.
P. fusca, pube densa flavida vestita; vertice maculis duabus,
prothorace plagis duabus basalibus, sentelloque medio purpureofuscis; tarsis fuscis.
Dark brown, covered with a coarse yellowish-grey pile; head white between the eyes, the vertex with two purplish-brown spots; prothorax transverse, a large purplish-brown spot on each side extending to the base ; scutellum triangular, with a dark-brown central spot; elytra subtrigonate, strongly crested at the base, three wellmarked raised lines on each, across the middle, and curving round from the shoulders a broad band paler and less pubescent than the base and apex; body beneath pilose, yellowish grey, the abdomen ashy; legs closely corered with a yellowish-grey pubescence, the tarsi dark brown, with a few seattered hairs; anteme yellowish brown. Length 6 lines.

This deseription is from a specimen in my orm collection, taken by Captain Smythe of II. M. 34th; Mr. Lamb's example is smaller and much injured. It is a very distinct species, and will stand for the present after Praonetha scopulifera, Pasc.

Praonetha vilisosa.
P. fusca, brunneo-griseo pubescens; prothorace lituberculato; scutello triangulari; elytris obscure fusco variis, linea curvata alba ante cristam posticam sita, crista antica nigro pilosa, apicibus rotundatis.
Dark brown, with a pale brownish-grey pile, and numerous fine erect hairs; head with a few punctures in front, antennary tubers strongly marked; prothorax subtransverse, the disk slightly bituberculate, with numerous small punctures ; scutellum triangular ; elytra slightly subtrigonate, rather coarsely punctured, compressed, the basal crests formed of black erect hairs, a short curved white transverse line before the posterior crests, rest of the clytra obscurely varied with brown; body beneath and legs rufous, with a thin grey pile ; antennæ brown, slightly annulate with grey. Length 4 lines.

This species will stand in my fifth section of the genus, after $P$. fractilinea, characterized by the "elytra abruptly declivous posteriorly, the angle generally furnished with a short tuft (of hair)the exterior raised lines nearly obsolete." There are two or three other species in the collection, which appear to be distinct from any of the fifty-three species described in the 'Longicornia Malayana.'

## Ropica.

Ropica, Pascoe, Trans. Ent. Soc. ser. 2. iv. p. 247.
Ropica vinacea, Pascoc, Long. Malay. p. 194.
Found also at Ternate and Sarawak by Mr. Wallace, whose collection contained twenty-three species.

## Sybra.

Sybra, Pascoe, Long. Malay. p. 198.

Sybra umbratica, Pascoe, l. c. p. 203.
Occurs also in Sarawak, Mysol, and Ternate. Fifty-two species of this genus are described in the work above quoted.

## Atimura.

Atimura, Pascoe, Trans. Ent. Soc. ser. 3. i. p. 548.
Atimura bacillina, Pascoe, Long. Malay. p. 158.
Mr. Wallace finds this species in Sarawak and Sumatra, and another species in the same localities as well as in Singapore. It is one of the few Longicorn genera common and confined to Anstralia and the Malayan archipelago.

## Xylorhiza.

Xylorhiza, Laporte de Casteluau, Hist. Nat. des Ins. ii. p. 476.
Xylorhiza venosa, Laporte, l.c. p. 476.
A handsome insect, sometimes nearly two inches long, common to both sides of the Bay of Bengal. It is lazy in its habits, remaining for a long time in one spot, and, uulike the Longicorns generally, bores into the young and living shoots of trecs, probably to deposit its eggs.

## Thylactus.

Scapus obconicus.
Palpi breviusculi, glabri.
Prothorax utrinque spina valida armatus.
Head transverse in front ; antemary tubers very stout and prominent, approximate at the base. Eyes narrow, broadly emarginate. Antenmæ shorter than the body, pubescent, not fimbriated, the scape obconic ; third joint longest, the rest gradually shorter (the last joints are wanting). Palpi rather short, not hairy or only slightly pubescent. Prothorax narrow, unequal, armed on each side with a stout spine. Elytra elongate, cylindrical, irregular, a little depressed, expanded at the apex into a broad angular process. Legs short; femora fusiform; tibix rather shorter than the tarsi. Pro- and mesosterna depressed.

A remarkable insect, allied to Xylorhiza and Cymatura, is the type of this genus. From both it will be readily distinguished by its strongly toothed prothorax, as well as the different form of the scape. I should have been inclined to consider these, and other species still referred to Xylorhiza, highly individualized members of one group, which, although differing in several technical characters, have a very obvious relationship. This riew, however, would not be likely to be adopted.

Thylactus angularis. (Pl. XXVII. fig. 6.)
T. pube sericea densissima fulvo-brunnea indutus; elytris lateraliter fusco uniplagiatis.
Covered above with a very dense short silky pubescence of a light
reddish or fulvous-brown colour, beneath coarser and less compact; head slightly punctured in front, the vertex and between the cyes deeply grooved; prothorax with an elevated longitudinal line, the base of the spine occupying the middle third on each side; scutellum nearly semicircular; elytra about five times as long as the prothorax, and much broader at the base, minutely and sparingly punctured, the base and a large longitudinal patch on each side behind the middle, where the elytron is hollowed or impressed, dark brown, the apices broadly truncate and expanding beyond the side into a large rectangular convex plate; legs and antennæ concolorous. Length 13 lines.

## Dorcadionine.

## Obages.

Tubera antennifera erecta, approximata. Palpi maxillares elongati, art. ultimo dilatato, truncato. Prothorax muticus, ovatus, ad elytra arcte applicatus.
Tarsi art. penultimo dilatato.
Head rather narrow, quadrate in front; the antennary tubers stout, nearly erect, approximate or nearly contiguous at the base. Eyes lateral, broadly emarginate, pointed below. Antennæ setaceous, rather longer than the body; scape subelongate, cylindrical; third joint longest, the rest gradually shorter. Maxillary palpi very long, the terminal joint, as also in the labial palpi, considerably larger than the preceding ones, and truncate. Prothorax oblong, subcylindrical, a little broader than the head, the disk regular, the sides unarmed. Elytra ovate, very convex, the convexity culminating at the middle, not wider than the prothorax at the base, humeral angles entirely absent. Legs rather slender, especially the tibiæ of the posterior pair; femora slightly thickened; tarsi short, the penultimate joint dilated. Anterior acetabula narrowly angulated. Pro- and mesosterna declivous.

The unique specimen before me is the only representative of the subfamily in the collection. Mr. Wallace during all his researches only found two species, but neither of these has the slightest affinity to it; nor can I mention any other to which it can be said to be allied. The Australian genus Microtragus agrees in its eyes and approximate antennary tubers, but differs in other characters, and has a totally different habit.

## Obages palparis. (Pl. XXYI. fig. 11.)

O. piceus, pube sparsa grisea subtiliter indutus.

Pitchy brown, with a short sparse greyish pile; head more pubescent, rather coarsely punctured; prothorax covered with coarse crowded punctures; scutellum very transverse ; elytra deeply striatopunctate, the interstitial lines alone pubescent, the third line from the suture with a small white spot postcriorly, apices obliquely truncate, the outer angle produced; body beneath, legs, and antennæ with a tolerably copious greyish pubescence. Length 4 lines.

## Hypselomine.

## Cereorsius

Cereopsius, Pascoe, Journ. of Entom. i. p. 344.
Cereorsius whitei, J. Thomson, Syst. Ceramb. p. 556.
A very distinct species, having two large white spots on cach elyton.

Combe.
Combe, J. Thomson, Syst. Ceramb. p. 83.
Combe brianus.
Monohammus brianus, White, Proc. Zool. Soc. 1858, p. 409.
Combe fulgurata, J. Thomson, op. cit. p. 84.
This handsome insect appears to be very scarce. Mr. Lamb has found only a single example, a female; this is much larger than a male in my own collection. The specimen in the British Muscum from which Mr. White described the species is without a head.

Amesisa.
Amesisa, Pascoe, Long. Malay. p.*
Amesisa consularis, Pascoe, l.c. p. , pl. ll.f. 2.
Mr. Wallace's specimen is from Singapore.

## Piatrsalia.

Pharsalia, J. Thomson, Syst. Ceramb. p. 85.
Pharsalia incerta, Pascoe, Long. Malay. p.
The single specimen in Mr. Lamb's collection is referred very doubtfully to this species.

## Cycos.

Antennæ in maribus longissima, normales.
Scapus cylindricus, basi sulito constrictus.
Pedes in maribus elongati, antici longiores.
Mesosternum dentatum.
Head rather small, quadrate in front, the antennary tubers very robust, erect or very slightly divergent. Eyes of moderate size, broadly emarginate. Antenne very long in the male, scarcely longer than the body in the female, not fimbriated beneath; scape moderately long, cylindrical, suddenly constricted at the base, the third joint longer than the scape, the remainder gradually abbreviated, except the last in the male, which is more than twice as long as the preceding joint. Prothorax scarcely broader than the head, sub-

* When this was written I anticipated that this genus and two or three species mentioned further on, collected by Mr. Wallace and which are identical with those in Mr. Lamb's collection, would have bcen published in the above work; but, although the plates to accompany the forthcoming part are ready, the text has been unfortunately delayed.
cylindrical, with a median tooth at the side, the base subbisinuate. Elytra broadest at the base, the shoulders prominent, aper rounded. Legs in the males elongate, the anterior longest, their tarsi dilated and fringed; in the female the legs comparatively short, but all of nearly equal length, the tarsi neither dilated nor fringed. Prosternum simple. Metosternum toothed.

The closely approximate and nearly erect antemnary tubers separate the insect on which this genus is founded from Monochamus, as well as from the Lamiince-its position appearing to me to be between Pharsalia and Triammatus, the long legs of the male, interalia, distinguishing it from the former, and the normal antemme from the latter. The scape is remarkably constricted at the base above the articulating portion, the outer side of it, indeed, is so produced as to form a very acute angle.

## Cycos subgemmatus.

Monochamus subyemmutus, J. Thomson, Arch. Entom. i. p. 204 (1857).

Monohammus georgius, White, Proc. Zool. Soc. 1858, p. 407.
A handsome species originally discovered in Sylhet, and apparently not uncommon in the more castern Himalayan range.

## Peribasis.

Peribasis, J. Thomson, Syst. Ceramb. p. 86.

## Peribasis aspersa.

Monohammus aspersus, Pascoe, Trans. Ent. Soc. ser. 2. iv. p. 48. Apparently a common species at Penang and Singapore.
Peribasis pubicollis, Pascoe, Long. Malay. p.
Taken also by Mr. Wallace at Singapore and Sarawak. Monohammus larvatus, White (Proc. Zool. Soc. 1858, p. 406) is also a Peribasis.

## Omocyrius.

> Caput exsertum, infra oculos sensim latiore. Antennæ art. 4, 5, in utroque sexu, omnino incrassatis. Elytra ad humeros producto-lobata.
> Pedes antici, in maribus, perlonyi.

Head exserted, narrowed above and gradually widening below the eyes; antennary tubers very stout and approximate, but not contiguous. Eyes small, broadly emarginate. Antennr longer than the body in the male, shorter than the body in the female, the scape obconic, the third joint longer than the scape, clubbed at the apex, the fourth and fifth thickened throughout in both sexes, in the female, however, gradually smaller towards the base, the sixth and remaining joints shorter than the fifth, and nearly equal in length, except the last in the male, which is longer, subulate, and curred. Prothorax oblong, rather narrower anteriorly, toothed at the sides,
bisinuate at the base. Elytra slightly depressed, the sides narrowing posteriorly, the shoulders lobed abore. Legs elongate, especially the anterior pair in the males; protibix curred; tarsi equal in length, the anterior dilated in the males. Prosternum slightly elerated. Mesosternum produced.

This handsome genus is allied on the one hand to Otarionomus in respect of its lobed shoulders, a character which it shares also with Achthophora, and on the other to Triammatus, with which it otherwise agrees, except in a modification of the remarkable antennæ, especially in the female, and in the divergent, although still approximate, antennary tubers, which are not cornuted or produced as in Triammatus. The protibiæ, too, are curred throughout, and the preapical tooth is nearly obsolete.

Omocyrius fulvisparsus. (Pl. XXVlI. fig. 3.)
O. rufo-fuscus; capite prothoraceque fulvo bilineatis; elytris fulvo maculatis; tarsis nitidis, luteis.
Reddish brown, slightly nitid, nearly glabrous, but varied with lines and spots of fulvous pubescence; head brownish opake in front, with a raised median line, two narrow stripes on the vertex, another longitudinal one before the eye, and a third extending beneath it horizontally; mandibles dark brown; palpi luteous; prothorax finely corrugated, the corrugations becoming gradually granular at the sides, the disk with two narrow fulrous stripes, below on cach side a broader, nearly white, stripe, which passes also along the sterna; scutellum triangular, obtuse; elytra coarsely and irregularly punctured, with three slightly raised lines on each, the shoulders above produced into a prominent ear-shaped lobe, the disk with numerous small and a few large well-defined spots of fulvous; body beneath reddish brown, nitid, each abdominal segment, at the side, with a pale fillvous spot; legs dark brown, with a fine ashy pubescence, the tibie becoming more and more luteous towards the extremities, the tarsi bright luteous, shining; antennæ more or less dark reddish brown, the fourth and succeeding joints pale flesh-coloured at the base. Length 12 lines.

## Achthophora.

Achthophora, Newman, The Entom. p. 292.
Stegenus, Pascoe, Trans. Ent. Soc. ser. 2. iv. p. 104, pl. 22. f. 6.

## Achthophora dactylon.

Stegenus dactylon, Pascoe, l.c.
The differences between Stegenus and Achthophora are, I think on a re-examination, too slight to justify their being treated as distinct genera. Mr. Wallace, who first discorered this species at Sarawak, found only a few specimens; at Penang, however, it seems to be abundant.

## Trachystola.

Trachystola, Pascoe, Jourı. of Entom. i. p. 350.

Trachystola granulosa, Pascoe, op. cit. p. 351.
Trachystola is placed at the end of this salfamily only provisionally ; its general form, sculpture, and colour point to the Dorcudionince, and, but for the presence of humeral angles, in that group it would undoubtedly take its place. M. J. Thomson puts it between Aderpas and Anamera in his "gronpe Mesosite," a location, I think, very far from natural. T. granulosa is apparently a common insect at Sarawak. A second species is described by M. J. Thomson, from Java.

## Lamine.

## Batocera.

Batocera, Laporte de Castelnau, Hist. Nat. des Insectes, t. 11. p. 470 (1840).

Batocera victoriana, Thomson, Rev. et Mag. de Zool. 1856, p. 529; Arch. Ent. t. 1. p. 23. "Frontispiece."

Found also by Mr. Wallace in Borneo. The spots on the elytra are of a fine vermilion during life.

Batocera thomsoni, Javet in Thoms. Arch. Ent. t. 1. p. 412, pl. 20. f. 2.
This is also a Bornese species. Mr. Wallace found not less than eighteen species of this magnificent genus; some of them measure, from tarsus to antennæ, nearly a foot in length.

## Apriona.

Apriona, Chevrolet, Rev. et Mag. de Zool. 1852, p. 414.

## Apriona germari.

Lamia germarii, Hope, Zool. Miscell. p. 28.
The original specimens of this species were from Sylhet, but it appears to be generally distributed in continental India.

## Thestus.

Antennæ subtus fimbriatce.
Prothorax lateribus haud spinosus.
Tibiæ antica compressa.
Mesosternum productum.
Head transverse in front, not dilated below the eyes; antennary tubercles very robust, approximate at the base; eyes rather large, broadly emarginate. Antennæ longer than the body, densely fringed beneath, except the terminal joints; the scape obconic, rather short, strongly cicatricose at the apex; the third joint the longest, the following to the sixth or seventh gradually shorter, the remainder about equal. Prothorax not broader than the head, cylindrical, short, slightly toothed at the sides. Elytra broad at the base, the sides nearly parallel, shonlders produced. Legs nearly equal ; tibiæ compressed. Mesosternum toothed anteriorly.
The closely fringed antennæ, compressed tibiæ, and general out-
line, only a little less convex, approximates this genus to Sarothrocera, from which it would be distinguished by the form of the head, nearly unarmed prothorax, and toothed mesosternum. The example here described betrays a certain resemblance to some of the larger species of Oncideres.

Thestus oncideroides. (Pl. XXVII. fig. 7.)
T. fuscus, pube ferruginea albo irrorata tectus; antennis nigro fimbriatis; elytris pallide sub-bifasciatis.
Dark brown, covered with a short close yellowish-ferruginous pubescence, minutely speckled with whitish on the elytra; head uniformly ferruginous, lip short, not fringed; prothorax very short, its anterior and posterior portions slightly grooved, a few punctures behind the middle on each side; scutellum subscutiform; elytra finely punctured, more or less sprinkled with minute white spots, which are collected at about the middle to form a broad but rather indefinite band, behind this a similar but narrower one ; the base with numerous small black granules, apex rounded; hody beneath, legs, and antemæ ferruginous, the latter with its fringe brownish black. Length 14 lines.

## Cerosterna.

Cerosterna, Blanchard, IIist. Nat. des Insectes, t. ii. p. 158 (ab. err. Celosterna).

Cerosterna approximator, Thomson, Syst. Ceramb. p. 552.
From the short description given by M. Thomson I am somewhat doubtful of this species. If in the reference to C. clathrator, and this in its turn to C. reticulator, it is to be assumed that the same style of antemæ characterizes the three, then the specimen in Mr. Lamb's collection, which has black simple antennæ, will probably be different.

## Metopides.

Caput antice latissimum.
Antemne distantes, haud fimbriate, scapo subcylindrico, cicatricoso.
Prothorax angustus, transversus, lateraliter armatus.
Mesosternum dentatum.
Head somewhat triangular in front, very broad along the line of the antennary tubers, which are stout and somewhat raised across the forehead. Eyes narrow, broadly emarginate. Antennæ longer thau the body, distant at their insertion, not fimbriated ; the scape subcylindrical, a little irregular at the apex, and strongly cicatricose; third joint as long as the scape, the rest gradually shorter, except the last, which is a little longer than the preceding. Prothorax short and narrow, irregular or rugose, the sides strongly toothed, the base bisinuate, not broader than the apex. Elytra a little depressed, broadest at the base, rounded at the apex. Legs somewhat slender; the femora not thickened; tibie straight ; tarsi equal. Mesosternum toothed.

In its widely separated antennæ this genus resembles Diastocera;
perhaps in habit and colour it is most suggestive of some species of Phryneta (c. g. P. caca) ; but its cicatricose antennæ will not permit it to be placed near that genus. For the present I should be inclined to put it after the African genera Imalmus and Hagesata.

Metopides occipitalis. (Pl. XXVII. fig. 5.)
M. fuscus, pube densissima cervina tectus, vertice nigro signata.

Dark brown, covered with a very close fawn-coloured pubescence; head rugosely punctured in front, no median line, the rertex velvetblack, bordered at the sides and spotted in the middle with ochraceous; prothorax deeply punctured, the interrals irregularly convex, sulcated behind, a black line at the apex and a black spot at the base; scutellum subscutiform, black in the middle; elytra finely and irregularly punctured, with a few small grannles at the base, two black spots on each side the scutellum, and an irregular mass of spots behind the middle mixed with a few white specks ; body beneath, legs, scape, and second joint of the antennæ densely pubescent, somewhat darker than the elytra, \&cc., with larger snowy-white setulose hairs scattered over them, rest of the antenne with a thin greyish pubescence. Length 11 lines.

## Epepeotes.

Antennæ graciles, art. tertio scapo duplo vel triplo lonyiore.
Pedes antici elongati; protibiæ curvatce.
Mesosternum elevatum, productum.
Head exserted, subtransverse in front ; antennary tubers robust, approximate at the base; eyes large. Autenne very long in the males, the scape not produced at the apex, the third joint two or three times as long as the scape, the following shorter and more or less equal, the last sometimes the longest of all. Prothorax transverse, the propectus produced. Fore legs elongate, the tibia curved, not toothed, their tarsi with the basal joint spined externally in the males. Mesosteruum elevated, produced or keeled in front.

Separated from Monochamus for the reception of those species which differ chiefly in a strongly produced mesosternum, the other characters being mostly those of that genus as it is here restricted. The type is Lamia lusca, Fab.

## Eperezotes luscus.

Lamia lusca, Fabricius, Ent. Syst. t. i. pt. 11. p. 283.
Besides Siam, Malacca, aud Borneo, this well-known species extends through Sumatra and Java to Timor.

## Blepephefus.

Antenne subincrassate, art. tertio quam scapus vix longiore: art. ult. proce. fere aquali.
Propectus abbreviatum.
Pedes antici cateris haud longiores.
Mesosternum elevatum, dentatum.
Proc. Zool. Soc.-1866, No. XYII.

Head not exserted, subquadrate in front; the forehead deeply sulcate; antennary tubers very robust. Antemæ rather stout, louger than the body in both sexes, pubescent, not fringed; the scape narrowly obcouic ; the third joint scarcely longer than the scape; the remainder gradually shorter, except the last, which is a little longer than the preceding. Prothorax transverse, strongly spined at the sides; the propectus short. Legs nearly equal in size. Prosternum rounded. Mesosternum clevated, toothed.

The relative proportion of the antennal joints, the equal size of the legs, and the toothed mesosternum would have distingnished this genus from Monochamus, to which the type has been referred, without the characters of the shortened head and prothorax, which, as we venture to think, accord better with the more normal Lamïnce.

## Blepepheus succinctor.

Monohammus succinctor, Cherrolat, Rev. et Mag. de Zool. 1852, p. 417.

Monohammus sublineatus, White, Proc. Zool. Soc. 1858, p. 410.
Monohammus obfuscatus, White, l. c. p. 411.
Rather variable as to colour. This species appears to be abundant at Penang; it has also been found in India (Dacca) and in China (Hong Kong).

## Epicedia.

Epicedia, J. Thomsou, Syst. Ceramb. p. 78.

## Epicedia plagiata.

Leprodera plagiata, J. Thomson, Arch. Entom. i. p. 178.
This is the Leprodera trimaculata, Chev., according to M. J. Thomson-an unpublished name, I believe. The genus Leprodera of Dejean's catalogue was first published by M. J. Thomson with $L$. elongata as the type and L. pleuricausta as one of its members. The latter, which is the Lamia carcelii of Guérin, is separated in the 'Systema' to form the genus Epicedia, chiefly distinguished by the shorter antennæ in both sexes, and the shorter anterior legs. $A r$ chidice, Thoms., and Euoplia, Hope, are also nearly allied genera. I have several undescribed species which cannot be satisfactorily referred to any of these, but which are all more or less nearly related by habit and coloration, yet at the same time with characters sufficiently distinctive to probably mecessitate the institution of more genera for their reception. 'Iwo of these species are in Mr. Lamb's collection, both of them hare simple mesosterna; and one has the apex of the scape entire, a very important character generally. I prefer leaving these alone at present, or until they can be all more thoroughly examined.

## Monochamus.

Monochamus, Serville, Ann. de la Soc. Ent. de France, t. 4. p. 91.

## Monochamus fistulator.

Lamia fistulator, Germar, Ins. Nov. Sp. p. 478.
Very generally distributed in India, and extending also to Australia (Brisbane), where, however, it seems to be very uncommon.

## Monochamus musivus.

M. fuscus, pube dense brunnescente indutus, elytris sparse albo irroratis; vertice capitis impunctato; seutello pallide griseo, apice rotundato; elytris singulis apice rotundatis.
Dark brown, with a pubescence tarying from pale brownish ochre to rather dark chestnut-brown, speckled on the elytra with rery pale grey; head pale greyish in front, sparsely spotted with brown, each spot inclosing a puncture, the vertex fulvous, entirely impunctate; prothorax transverse, sparingly punctured on the basal half only, or nearly so; scutellum very pale greyish, subscutiform, with the apex rounded; elytra gradually decreasing from the base, rounded at each apex, rather finely punctured; body beneath ochreous or ochreous grey; legs and antenuæ varying from ochreous grey to ashy. Length 7-13 lines.

It is with some hesitation that I have come to the conclusion that the several specimens now before me belong to one species. In fact this is one of those genera in which it is almost impossible in many cases to separate the species satisfactorily when it is possible to examine a good series of individuals. M. musivus has also been found by Mr. Wallace at Singapore and Sarawak, and in Celebes.

Monochamus sobrius, Pascoe, Trans. Ent. Soc. ser. 2. iv. p. 246 (rar.?)

It would be rash to treat this as a distinct species; yet Mr. Lamb's single example scarcely accords with my type, which is from North China, and which is not to be distinguished from another found by Mr. Wallace at Sarawak. It is larger, the pubescence thinuer and more ashy, the punctures more decided (but this may in part be owing to its finer pubescence), and the scutellum is uniformly paler and more conspicuous.

## Imantocera.

Imantocera, J. Thomson, Arch. Entom. i. p. 188; Essai, S.c., p. 102.

## Imantocera plumosa.

Cerambyx plumosus, Olivier, Entom. iv. no. 67. p. 98, pl.20.f. 152.
Imantocera and the following genera of this subfamily are very aberrant members of the Lamiince, and are but slightly connected among themselves. Although three species of this genus are described, it is somewhat doubtful if they be not all referrable to one, or at most forming only geographical subspecies. M. J. Thomson's I. plumosa is said to be I. penicillata, Hope*. The species or sub* See Journ. of Entom. i. p. 192.
species extend from Assam to Flores. Mr. Wallace's specimen from the latter is au additional variety or subspecies.

## Gnoma.

Gnoma, Fabricius, Syst. Eleuth. ii. p. 315.
Gnoma dispersa.
G. fuscescens, pube brevi grisea tecta; elytris pallide ochraceo irroratis, prothorace duplo longioribus.
Brownish, inclining to dark chestnut, with a thin short greyish pile, the elytra sprinkled with more or less confluent pale-ochreous spots; head sparingly punctured in front, varied with flavous above the eyes and mouth ; prothorax about half as long as the elytra in the male, strongly corrugated ; scutellum semicircular, entirely pubescent; elytra rather narrow, the sides nearly parallel, except at the posterior third, rather closely punctured; body beneath, legs, and antemæe with a sparse greyish pile, the tarsi nearly equal in size and ontline. Length 10 lines.

This description is made from a male in my own collection. Mr. Lamb has only a single specimen, also a male, differing from the abore in haring the elytra more spotted, a little longer prothorax, and very decidedly longer legs, with the fore tarsi considerably longer and broader than the others. It may probably be found to be sufficiently well marked to deserve a specific, or quasi-specific, name; but in a genus so difficult as Gnoma it is almost impossible to say if such differences are permanent. I have never seen anything answering to Fabricius's description of G. longicollis: "nigra, ferrugineo irrorata." Olivier's figure (to which he refers) is, to me, an unknown species, and eridently a female.

## Mecotagus.

Prothorax subcylindricus, latera haud, vel parum antice, incurvata. Femora linearia.
Tarsi articulo basali duobus sequentibus simul sumptis aquali.
Head subtransverse in front; antemnary tubers very stout, divergent, but approximate at the base. Eyes distant from the month. Antenne tery long in the male, the scape obconic, the third joint as long as or longer than the fourth and fifth together, the rest subequal in the male, except that the last is considerably longer than the preceding joint ; in the female the joints slightly decreasing from the sisth or seventh. Prothorax elongate, especially in the male, subcylindrical, narrower anteriorly in the male, but scarcely or only rery slightly incurved. Elytra oblong, subdepressed, truncate at the apex. Legs long, slender; femora linear; tibiæ gradually longer from the posterior to the anterion ; tarsi elongate, the basal joint in the male as long as the two following together. Prosternum simple. Mesosteruum with a projecting tooth.

This genus is founded on the Cerambyr tigrinus, Olivier, a con-
gener of which has been referred by Mr. White* to Pelargoderus of Serville, quite another genus altogether. A single specimen, a female, is in Mr. Lamb's collection, which agrees with Olivier's figure and description, also taken from a unique example, whose locality was at that time unknown. The genns differs from Gnoma in the form of the prothorax, linear femora not thickened in the middle, and the elongate basal joint of the tarsi.

## Mecotagus tigrinus.

Cerambyx tigrinus, Olivier, Entom. iv. no. 67. p. 401, pl. 19. f. 142.
M. gueriniz, White, apparently the commoner species, differs from this, inter alia, in haring fewer and isolated spots, not crowded and more or less confluent, as in the one before us.

## Olenecanptus.

Olenecamptus, Cherrolat, Mag. de Zool. 1835, p. 134.
Olenecamptus bilobus.
Saperda liloba, Fabricius, Syst. Eleuth. ii. p. 324.
Olenecamptus servatus, Chev. Mag. de Zool. 1835, p. 134.
Authades indianus, J. Thomson, Arch. Entom. i. p. 192.
A common species, found all over Inilia, and as far south as Timor. It is also said to hare been found in Australia. O. serratus, Chev., is a remarkable variety with the inner edge of the fore tibie minutely serrated. The basal elytral spots are sometimes tipped with the richest carmine.

## Olenecamptus optatus.

O. fusco-brunners, pube grisea brevi tectus; scutello concolore; capite, prothorace elytrisque maculis rotundatis niveis ornatis.
Dark reddish brown, covered with a short greyish pile, two or three spots on the cheek, one behind the eye, four on the prothorax, and four on each elytron, i.e. seren on each side from the eye to the apex of the elytra, snowy white; head broader than the prothorax, remotely punctured in front, the vertex impunctate; prothorax about half as long again as broad, transversely corrugated; scutellum semicircular, greyish brown; elytra rather closely punctured, the sides gradually narrowing posteriorly, the apices slightly dehiscent, each cuding in a short mucro; body beneath and legs with a thin greyish-white pile ; antennæ scabrous, slightly pubescent. Length $6-10$ lines.

I have not seen this species from India; otherwise it appears to be scarcely less widely distributed than the preceding. The description is taken from one of Mr. Wallace's specimens from Singapore. Scheeniocera sex-notata of Dejean's catalogue is probably this iusect.

[^5]
## Olenecamptus quietus.

O. luteus, supra pube flavescente dense tectus, infra niger, nitidus, interrupte albido pubescens; antennis fuscis.
Luteous, with a closely set yellowish pile above, beneath glossy black, the propectus, sides of the postpectus, and abdomen with a whitish pile; head nearly impunctate; prothorax scarcely longer than broad, not corrugated; scutellum semicircular ; elytra with the sides nearly parallel at the basal half, then slightly diverging until towards the apex, where they are rounded off; the apex itself of each slightly truncate, but scarcely mucronate; legs glossy brown, the tibix and tarsi of the fore and intermediate legs luteous ; antemnæ brown, not scabrous. Length 5 lines.

Of this new and very distinct species there is only a asingle example in the collection.

## Onocephaline.

Atossa.
Atossa, J. Thomson, Syst. Ceramb. p. 100.
Atossa atomarla. (Pl. XXVI. fig. 6.)
A. fuscescens, nitida, pube sparsa tecta; capite prothoraceque flavo vittatis; elytris seriatim albido maculatis; lateribus infra et fronte capitis allidis.
Pale brown, with a thin pubescence; head pale greyish in front, forchead, behind the eye, and vertex brown, the latter impunctate, with two yellowish longitudinal lines corresponding with two on the prothorax, a similar line also on each side, disk of the prothorax very slightly punctured; scntellum transversely scutiform; elytra finely punctured, speckled with numerous clear greyish pubescent points arranged to a certain extent in longitudinal lines; body beneath dark chestnut-brown, shining, with a sparse silvery pubescence, which is dense along the sides of the breast; legs and antennæ with a pale greyish pile, the latter about two-thirds the length of the body. Length 6 lines.
A. strenua, M. J. Thomson's type, is from Java. The present species has the elytra finely but very distinctly speckled with greyish, and the front uniformly greyish, except the space in a line with the antennary tubers.

## Hippopsines.

## Nyctimene.

Nyctimene, J. Thomson, Arch. Ent. i. p. 314.
Nyctimene agriloides, J. Thomson, l.c.
Not uncommon apparently in the Malayan region. M. J. Thomson has placed this genus in a "groupe" to itself, as it differs from the rest of its subfamily in not having its antenne approximate at the base. I do not think, however, that it would be natural to sepa-
rate it from such genera as Pothyne and its allies, as, it seems to me, it is one of those aberrant forms in which a technical character must give way to an obrious affinity.

## Tetraglenes.

Tetraylenes, Newman, The Entom. p. 300.
Tetraglenes insignis, Newman, l.c.
A remarkable and interesting form, having four very distinct eyes placed at a distance from the antennæ, and therefore not simply divided for the more easy play of those organs as in Astathes, Tetraopes, and many others. Eucomatocera, an allied genus from the same region, has the eyes slightly connected; but otherwise they have the same position and appearance. In Euthuorus and Spalacopsis, American forms, the upper eyes disappear. Dorcasta, another near ally, has the eyes of the normal character; but somewhat intermediate is that most singular genus Aprosopus. The specific name of this insect was given unfortunately on the antithetical principle; it is snall and dull-coloured, and its peculiarities are only distinguishable under the lens.

## Saperdine.

## Entelopes.

Entelopes, Guérin, Iconog. du Rìgne Anl. p. 245.
Entelopes glauca, Guérin, l.c.; Pascoe, Trans. Ent. Soc. ser. 2. iv. pl. 16. f. 2.

Found also in Borneo, Singapore, and Java.

## Entelopes similis.

E. rubro-fulva, subnitida, infra nigra; scutello fere semicirculari, apice haud lobato.
Reddish fulvous, slightly nitid, especially on the head aud prothorax; head and prothorax nearly glabrous, almost obsoletely punctured, the latter much shorter than the former; scutellum nearly semicircular, not elevated or bilobed posteriorly as in E. wallacei; elytra much punctured, with numerous small glossy granules at the base (one over each puncture) ; body beneath, intermediate and posterior femora, except at their apices, and their coxæ black, their trochanters yellow; antennæ with the terminal joints blackish. Length $4 \frac{1}{2}\left(\sigma^{\circ}\right)-5 \frac{3}{4}$ ( $\%$ ) lines.

Extremely like Entelopes wallacei, but with a differently formed scutellum, the upper surface more or less glossy (more so in the male), larger and more numerous granules on the elytra, and the intermediate femora, as well as the posterior, black.

Entelopes ioptera, Pascoe, Trans. Ent. Soc. ser. 2. iv. p. 108, pl. 23. f. 8.

Takeu also by Mr. Wallace at Sarawak and Singapore. A more
detailed account of this genus is given by M. J. Thomson in his 'Essai, \&c.,' p. 345.

## Serixia.

Serixia, Pascoe, Trans. Ent. Soc. ser. 2. iv. p. 45.
Iolea (Iole), Pascoe, op. cit. iv. p. 254.

## Serixia prolata.

Iole prolata, Pascoe, l. c.
Not uncommon at Sarawak. A somewhat thick-set uniformly colonred luteous species with the apices of the elytra rounded.

## Serixia varians.

## S. lutea, pube nitida argenteo-velutina tecta; antennis totis infuscatis.

Luteous, corered with a shining silvery relret pile, rarying when riewed with and against the light; head and prothorax very slightly punctured, the latter much narrower than the head, and gradually narrowed behind from nearly the anterior border; scutellum small, rounded behind ; elytra seriate-punctate, the punctures small, the sutural angle at the apex slightly produced; body beneath darker yellow, and less pubescent; antennæ two or three times as long as the body. Length 4 lines.

Distinguished from S. prolata by its glossy relret-like pubescence, prothorax tapering behind, the small punctures on the elytra, antennæ entirely brownish black, \&c.

Serixia basalis.
S. lutea, elytris dimidio basali griseo-nigris, utrinque macula alba prope scutellum sita.
Pale luteous; head and prothorax darker, with an exceedingly delicate pile and impunctate; the head considerably wider than the prothorax, the latter gradually narrowed to the base; scutellum truncate behind; elytra seriate-punctate, the rows and the punctures widely apart, pubescence very fine, much denser than on the prothorax, and varying with the light, sutural angle of the apex forming a short mucro; body beneath entircly luteous; antenne brownish black, the base of the fourth joint luteons. Length 3-4 lines.

A very distinct species, which may take its place immediately after my S. cephalotes.

## Serixia longicornis.

Iole longicomis, Pascoe, Trans. Ent. Soc. ser. 2. iv. p. 255.
Taken also by Mr. Wallace in Singapore, Batchian, Ceram, and Waigion. It is a narrow palc-luteons species, with the apices of the clytra rounded. A rariety in the collection is less pubescent, with the basal antemnal joint testaceous.

Serinia prasinata. (Pl. XXVII. fig. 1.)
S. plumbeo-viridescens, pube velutina albicante tecta; labro, corpore infra pellibusque luteis; antemmis nigris.
Pale leaden green, the greener hue predominating on the elytra, and covered with a satiny whitish pile, rarying with the light; head very distinctly punctured in front, the vertex and prothorax nearly impunctate, the latter slightly narrower than the head, and the sides a little narrowed towards the base; scutellum rounded behind; elytra lightly seriate-punctate, the sides gradually narrower posteriorly, the apices obliquely truncate, each angle produced into a very slight mucro; body beneath and legs, lip, and palpi luteous; antemæ black. Length 4-5 lines.

One of Mr. Lamb's specimens is almost cutirely of a leaden colour abore, and of a much darker luteous beneath, but does not otherwise differ. The species is very distinct. In the ' Journal of Entomology' (vol. i. p. 354) I have proposed to unite Iolea* to Serixia: the slight difference in habit, and the more depressed form of the latter, which, in conjunction with its fimbriated antenne, induced me to consider the three or four species of the supposed group to belong to two reritable but nearly allied genera were subscquently bridged over by newly discovered forms. M. J. Thomson, however, in his 'Systema,' regards them not only as distinct, but refers Iolea to his "groupe" Saperditæ veræ, and Serixia to his "groupc" - Amphionychitæ.

## Xyaste.

Articulus tertius antennarum incrassatus, sapissime hirsutus. Scapus tenuiter cylindricus.
Tarsi antici dilatati, articulis tribus basalibus aqualibus.
As this genus has only one described species, and there are sereral others in Mr. Wallace's collection, I shall reserve further remarks for the ' Longicornia Malayana,' only obserring that it is distinguished (inter alia) from Serixia by its thickened third antennal joint, which, in the majority of the species, is also closely covered with short hairs, so as to give it the appearance of being thicker than the scape.

## Xyaste nigripes. (Pl. XXVII. fig. 2.)

Iole nigripes, Pascoe, Trans. Ent. Soc. ser. 2. ir. p. 2.55.
An insect of a uniform dull testaceous colour, with the third joint less thickened than in any of the other species, and therefore not the most typical of the genus.

## Astatheines.

## Astaties.

Astathes, Newman, The Entom. p. 299 (1842).
Tetraophthalmus, Blanchard, Hist. Nat. des Ins. ii. p. 161 (1845).

[^6]
## Astathes splendida.

Cerambyx splendidus, Fabricius, Eut. Syst. t. i. 1t. 2. p. 263.
This is also an Indian species.
Astathes terminata, Pascoe, Trans. Ent. Soc. scr. 2. iv. p. 109.
Varies in the extent and depth of the yellow at the apex of the elytra; the abdomen is also frequently more yellowish than brown. In some examples a sort of areola may be noticed round the punctures on the posterior part of the elytra, a peculiarity which is very remarkable in A. perplexa, Newm.

Astathes nigricornis, J. Thomson, Syst. Ceramb. p. 560.
An entirely fulvous species, with black antenne. A marked callosity on each side of the prothorax will distinguish it from an undescribed species from Morty with a similar coloration. A fourth species, with the antennæ imperfect, is in the collection. It has a yellow head, with a dusky patch behind each eye ; otherwise it approaches very closely to an undescribed species from Singapore. The distribution of the two coloars, blue and yellow, and the intensity of the black, are too variable in this genus to carry much weight in the determination of the species. The Astatheince are remarkable for the peculiar modification of the metasternum : this is prolonged anteriorly between the intermediate coxæ, so as to completely overlap that part of the mesosternum lying between them.

## Phyteciine.

Glenea.
Glenea, Newman, The Entom. p. 301.
Sphenura, Laporte de Castelnau, Hist. Nat. des Ins. ii. p. 489, 1840 (nec Lichtenstein, 1823).

## Glenea elegans.

Superda elegans, Olivier, Coléop. iv. no. 68. p. 15, pl. 4. f. 40 ( 1795 ).

Stenocorus pictus, Fabricius, Syst. Eleuth. ii. p. 306 (1801).
Of this extensive and very difficult genus I have about twelve species or quasi-species, which may be probably referable to Olivier's Saperda elegans. They are all of the richest metallic blue, with snowy-white spots and stripes, varying in length from 8 lines to $1 \frac{1}{4}$ inch. The spots and stripes are without doubt very uncertain characters, and the minor differences, for there are no others, are very unsatisfactory on paper. Nevertheless it may be perhaps necessary to name some of the extreme forms. Mr. Lamb's specimens have yellow legs; but this scarcely seems of specific importance. Glenea delia, J. Thoms., from the character "humeris fere nullis," is doubtless distinct. Another Glenea in the collection has the elytra rapidly narrowing from the shoulders, and rather suddenly rounded near the apex, which is much narrower and at the same time more
deeply emarginate than in the more typical forms of $G$. elegans. Viewed as one polychromatous species, it extends from India to New Guinea, but is apparently nowhere more common than in Malacca.

Glenea porphyrio. (Pl. XXVIII. fig. 5.)
G. nigro-purpurea, nitida; prothorace crebre punctato, in medio bituberculato; elytris grosse punctatis, lateribus cyaneo micantibus; pedibus flavis; tarsis infuscatis.
Blackish purple, shining, the pubescence nearly obsolete; head narrow between the eyes, which are nearly contiguous above ; prothorax oblong, gradually widening towards the base, the sides straight, the disk bituberculate, closely and coarsely punctured; scutellum narrowly triangular ; elytra coarsely punctured, clongate, gradually tapering from the base, the shoulders acutely prominent, the sides with a bluish tinge, apices slightly obliquely truncate with the outer angle produced; body beneath chalybeate blue, with a whitish pile on the sterna; legs yellow, the tarsi brownish, the posterior only partially so; antemme purplish black. Length 12 lines.

A very distinct species, with an unusually narrow head and approximate antemary tubers, at variance with the characters of the genus. The elytra have faint indicatious of a bluish pubescent spot on the centre of each, and also at the apex.

Glenea blandina, Pascoe, Trans. Eut. Soc. ser. 2. iv. p. 259.
Mr. Lamb's specimens rather depart from the typical form in having the sutural region pale greyish brown. In other respects, however, they agree. The species is distiuguished by the first three joints of the anteunæ, underneath, being of a beautiful cobalt-blue. Another species, confined to a single example, has a similar coloration; but the spots are white, not blue, the elytra more obliquely truncate at the apex, the form narrower, and the eighth and ninth joints of the antennze pure white. It is without doubt distinct.

Glenea rufina, Pascoe, Trans. Eut. Soc. ser. 2. iv. p. 259.
One of the four species in the present collcetion that is found also in Burmah. It is a pale but clear reddish chestnut-colour, with greyish or greenish-grey elytra.

Glenea neanthes. (Pl. XXVIII. fig. 4.)
G. rufo-lutea; elytris castaneis, nitidis, niveo maculatis, regione suturali et lateribus rufo-luteis, immaculatis; antennis nigris.
Reddish luteous, partially pubescent; head slightly punctured; prothorax equal in length and breadth, rounded at the sides auteriorly, rertically compressed behind, the disk with few punctures and two small round black spots; scutellum scutiform ; elytra broad at the base, gradually narrowing posteriorly, a broad brown nearly glabrous stripe from the shoulder to the apex, limited externally by the carina, but shading off towards the suture, and having fire snowywhite pubescent spots; body beneath palc ferruginous, with an
ochreous pile ; legs luteous, tarsi darker; antenure black. Length 7-10 lines.

A rery distinct and handsome species.
Glenea extensa, Pascoe, Trans. Ent. Soc. ser. 2. iv. p. $2 \bar{s}$ S.
Found also by Mr. Wallace at Singapore and Sarawak.
Glenea oudetera.
Stibara oudetera, J. Thomson, Arch. Ent. i. p. 143.
Also from Sarawak.

## Glenea anticepunctata.

Stibara anticepunctata, J. Thomson, Arch. Ent. i. p. 142.
M. J. Thomson's type is from Jara. It appears to be a coummon species at Singapore.

Glenea vesta. (Pl. XXYIII. fig. 3.)
Glenea pulchella, Pascoe, Trans. Ent. Soc. ser. 2. ir. p. 260.
I have altered the specific name pulchella, it having been previonsly used by Hope. It appears to be rather a common species in Singapore and at Saramak, and is found also in Mysol and Ceram.

Glenea algerraica.
Stibara alyebraica, J. Thomson, Arch. Ent. i. p. 144.
Also from Jara aud Borneo.
Glenea Jubiea.
G. rufo-brunnen, fulvo vittata, sparse pubescens; prothorace angusto; clytris trivittatis, vitta intermedia obliqua, ablrcviata; antemais concolorilus.
Reddish brown, with fulyous stripes, sparingly pubescent; head nearly glabrous betreen the eyes, and coarsely punctured; prothorax closely punctured, oblong, narrow, vertically compressed posteriorly, the disk with three fulvous stripes, and two paler stripes on each side; scutellum semicircular, fulrous; elytra tapering posteriorly, moderately punctured, the aper with its outer angle strongly mucronate, each elytra with three stripes, one sutural, one near the carina, and an intermediate short oblique one at the base; body beueath with a close pale-ochreous pile, divided by three glabrous stripes; legs dark testaceous; autenuæ entirely dark brown. Length 5 lines.

Mr. Lamb has a specimen rery near this species in most respects, but with a much broader head and shorter scape. The outer stripe on the elytra is also wanting. It is probably distiuct.

## Glenea cunila.

G. capite, prothorace, scutello et regione suturali pube velutina grisca tectis, cateris elytrorum fuscis, glabris; antennis pedibusque fuscis, his femorum busi rufescentibus.

Head, prothorax, scutellum, and broad stripe along the sutura. region covered with a dense greyish velvety pile, rest of the elytra brown and glabrous; head and prothorax remotely punctured, the latter gradually narrowed posteriorly, the disk with a slight longitudinal ridge; elytra narrow, gradually tapering to the apex, the glabrous brown portion only punctured, the apices obliquely emarginate with a long mucro at the external angle; body beneath greyish pubescent ; antennæ blackish brown; legs brown, base of the femora reddish; posterior tarsi greyish. Length 5 lines.

Allied to $G$. mathematica, but with the head and prothorax entirely unicolorous. The description is takeu from one in Mr. Wallace's collection. In Mr. Lamb's example there is also a narrow greyish stripe on the brown portion of the elytron, \&e.

## Glenea alysson. (Pl. XXVIII. fig. 8.)

G. capite prothoraceque fuscis, hoc et vertice in medio vitta ochracea; elytris Urunneis, extus infuscatis, apice singulorum macula nivea ornatis; antennis nigris, articulis quatuor ultimis albis.
IIead dark brown, a white line bordering the eye in front, the vertex with an ochraceons spot continuous with a broad stripe of the same colour on the prothorax; cheeks, stripe on the side of the prothorax, and all the under parts pale ashy ; scutellum ochraceous; elytra pale brown, the outer side darker, a snowy-white spot on each at the base of the strongly marked exterior mucro; legs testaceous, the lower half of the posterior tibiæ and their tarsi white ; antenmæ black, the last four joints white. Leugth 5-6 lines.

The colouring of the antenure and the absence of stripes on the elytra will readily distinguish this species. The description is from one of Mr. Wallace's specimens taken at Singapore.

Glenea ceme. (Pl. XXVIII. fig. 2.)
G. capite prothoraceque niveis, illo vertice nigro, loo vittis duabus nigris; elytris testaceo-brumneis, pube sparsa albida tectis; antennis pedibusque testaceis, illis articulis duobus basalibus nigris, articulo ultimo albo.
Head and prothorax snowy white, the former with the vertex and behind the eyes black, the latter with a broad black stripe on each side; scutellum large, subseutiform, white; elytra rather short, gradually tapering posteriorly, the onter angle of the apex strongly mucronate, covered with a uniform thin whitish pile; body beneath reddish ferruginous, subglabrous, the sides with a dense snowywhite pile ; legs testaceous ; antemme testaceous, the two basal joints black, the last white. Length 4 lines.

There is but one example of this species, but it is very distinct from any other known to me.

## Glenea illuminata.

Stibara illuminata, J. Thomson, Arch. Entom. i. p. 144.

My specimen from Singapore has testaceous antennæ, except the two basal joints. Mr. Lamb's specimeu has black antennæ, except the underside of the third joint, which is of a cobalt blue. M. J. Thomson does not mention the antemne at all.

Glenea manto. (Pl. XXVIII. fig. 7.)
G. nigra; prothorace dimidio basali, elytrisque plaga media magna communi et macula apicali pube crassa albida (vel ochrucea), indutis.
Black, with a short black pubescence, mixed with a few setulous hairs; the posterior half, or rather more, of the prothorax, a large median patch common to both elytra, and a spot at the apex of each densely covered with a very coarse whitish or ochraceous pubescence; head with two white stripes in front ; prothorax slightly rounded at the sides, scarcely contracted behind; scutellum rounded, black; elytra tapering posteriorly, the pubescence nearly hiding the punctures in fresh specimeus, the external mucro at the apex of moderate length; body beneath and legs testaceous, sparsely pubescent; antennæ brownish. Length 5-6 lines.

Similar in the disposition of its colours to Glenea funerula, Thoms.*; but the pubescence (inter alia) of that species, so far as the white portion of it is concerned, is exceedingly short and dense, so as to look like a sort of incrustation. The white colour, however, varies; in my Sarawak specimens it is of a pure ochreous tint, in Mr. Lamb's specimen it is snowy white.

Glenea anthyllis. (Pl. XXVIIt. fig. 6.)
G. corpore pube densissima sulphurea, nigro maculata induto; elytris ante medium maculis üuabus, apicem versus fasciis duabus latis (aliquando ad suturam interruptis) nigris.
Everywhere corered, except the legs and antennæ, with a dense bright sulphur-yellow pubescence spotted with black; head with the vertex and stripe between the eyes black; prothorax with four spots, or the two anterior united and forming a band; elytia rather short, the apex nearly directly truncate, the outer angle suddenly produced into a mucro, a large round spot anteriorly on each, posteriorly two bands, one nearly apical, either united or one or the other more or less intcrrupted at the suture; body beneath entirely yellow; legs pale testaccous; antennæ black. Length 6 lines.

Near G. sulphurella, Wh., which has, however, many-spotted elytra without apical bands. Found also in Sumatra and Bornco. Another Glenea in the collection is closely allied to G. fricator, Dalm., but with a yellowish head, not black. The whole of the genus Glenea will require more ample materials than any we now possess before we can be sure of the veritable species. What is generally considered to be conclusive evidence is mot wanting to show that a form so entirely different as G. grisea is but the male

[^7]of G. fulvo-maculata; and this again is probably only a variety of G. arouensis. It is a misfortune that these and many other equally important questions can only be solved by naturalists on the spot; but in the meantime we must make the best of what is before us.

## Tanylecta.

Antennæ basi approximatre.
Pedes graciles; femora linearia; tibice intermedia emarginata. Ungues simplices in utroque sexu.
Head nearly quadrate in front, the antemary tubers obsolete. Eyes large, the upper lobe narrow. Antemæ shorter than the body, approximate at the base, the scape subcylindrical, slightly shorter than the third joint, which is the longest, the rest gradually shorter, all nearly cylindrical, the last a little thickened. Palpi slender. Prothorax oblong, scarcely broader than the head, regular above, the sides towards the base vertically impressed. Elytra elongate cmneate, broadest at the base, the shoulders prominent, the sides abruptly declivous, the angle forming a carina, the apex of each acuminate externally. Legs slender, unequal, femora linear, intermediate tibiæ emarginate; tarsi with the basal joint elongate; claws simple in both sexes. Anterior acetabula slightly angulated. Proand mesosterna rounded.

The approximate antemne and simple claws might seem to separate this genus from the Phytociina; but, on the other hand, its location at any distance from Glenea would be most unnatural. The female is much stouter than the male, but there is no other difference. The upper surface has deeply impressed punctures, much coarser on the elytra, on which a second carina is found at the side, commencing a little distance from the shoulder, but both terminating at the apex.

Tanylecta lambil. (Pl. XXVIII. fig. 9.)
T. nigra, nitida, lineis maculisque albo pubescentibus ornata; antennis albis, nigro annulatis.
Black, nearly glabrous, shiuing, with lines and spots composed of short white bairs; head with two central white lines and a line behind each eye, which are continucd on the prothorax, the central, howerer, almost or quite contiguous, and the lateral having a supplemental line below it ; scutellum scutiform, white; elytra covered with small round white spots, the snture bordered with white ; body beneath black, with a broad white stripe from the chceks to the end of the abdomen, the sternal and abdominal portions of the stripe with glabrous black patches; legs and centre of the abdomen with a delicate greyish pile; antennæ not so long as the body, white, the joints from the fourth to the tenth, the eleventh entirely, black. Length 10 lines.

## Zosne.

Antennæ lasi distantes; articuli ultimi sex abbreviati.
Pedes mediocres; tibice intermedia integre.
Ungues basi obtuse dentati.

Head rather transverse in front ; antennary tubers short, distant. Eyes moderate, deeply divided. Antemæ shorter than the body, sublinear, the scape subcylindrical, as long or a little longer than the third joint, the fourth and fifth equal and shorter, the last six very short, all nearly cylindrical, except the last, which is ovate and pointed. Prothorax quadrate, regular, not broader than the head. Elytra cuneate, much broader than the prothorax at the base, the sides abruptly declirous, the angle scarcely forming a carina, the aper subtruncate. Legs moderate, slender; the intermediate tibire entire ; tarsi with the basal joint short; claws obtusely toothed at the base. Anterior acetabula slightly angulated. Pro- and mesosterna rounded.

The peculiar shortening of the terminal joints of the anteunæ (as in many Apomecynince) will readily distinguish this genus, which in style of coloration bears a striking resemblance to the last (Tanylecta). The two specimens before me appear to be females ; almost as a matter of course, therefore, the toothed claws will characterize both sexes, not the male sex only, as it appears to do generally in Glenea.

## Zosne cincticornis. (Pl. XXVIII. fig. 11.)

Z. nigra, subnitida, lineis maculisque albo pubescentibus ornata; antennis albis, medio et apice nigris.
Black, nearly glabrous, subuitid, with lines and spots of short white hairs; head with two central white lines on the vertex, another behind the eye, the front and cheeks white; lines on the head continued on the prothorax, the central, however, contiguous, the intervals sparsely pubescent and rather finely punctured; scutellum white, densely pubescent ; elytra coarsely punctured, with numerous irregnlar white spots; body beneath with a white silvery pile, the sterna striped with black, two blackish spots on the side of each abdominal segment; legs and antemm with a close greyish-white pubescence, the latter a little longer than half the length of the body, and having the upper half of the fourth and the whole of the fifth and eleventh joints black. Length 8 lines.

## Oberea.

Oberea, Mulsant, Hist. Nat. des Coléopt. de Fr., Longicornes, p. 194 (1839).

Isosceles, Newman, The Entom. p. 318 (1840).
Oberea curtalis.
O. nigra; capite, prothorace, pedibus anticis et jemoribus intermediis mbris; abdomine segmentis duobus basalibus argenteis.
Black; head, prothoras, anterior legs, and intermediate femora deep orange-red; metasternum and abdomen black, the latter with its two basal segments silvery white; head and prothorax finely punctured, the prothorax transverse, neither wider nor longer than the head; scutelluma narrow, truncate, red, silvery in certain lights;
elytra much broader than the prothorax at the base, longer by 7 to 2 than the head and prothorax together, coarsely punctured, the intermediate carina strongly marked, the apices obliquely truncate, not mucronate at the angles; antenne shorter than the body, the third joint much longer than the fourth, the basal joint red, the remainder black. Length 9 lines.

Description from a Sumatran specimen.

## Oberea clara.

O. fulvo-testacea; elytris pube albescente velutina indutis, lateribus infuscatis; antennis nigris.
Fulvous testaceous, inclining to pale luteous on the head and prothoras, the elytra covered with a whitish velvety pubescence; head and prothorax finely punctured, the latter rather narrower and longer than the head; scutellum scutiform ; elytra seriate-punctate, the external margin and apex brownish; body beneath and legs pale luteous, the posterior tarsi sometimes brownish; antennæ black, shorter than the body, the third joint the longest. Length 7-9 lines.

I have specimens from Mr. Wallace, taken at Singapore.

## Oberea tenuata.

O. angustata, subfuliginosa; capite prothoraceque rufis; elytris pube albescente velutina indutis.
Narrow and nearly linear throughout, pale fuliginous, with the head and prothorax rufous, the elytra dull reddish brown as to the derm; but, viewed through the velvety whitish pubescence, they appear of a dark-greyish or smoky colour; head rather finely punctured, broader than the prothorax, the latter much longer than broad, with a yellowish pubescence and minute scattered punctures; scutellum oblong, dark brown; elytra seriate-punctate, darker at the apex ; body beneath, except the antepectus, and legs blackish, with a greyish-white pubescence; antennæ black, the third joint shorter than the fourth. Length 6 lines.

Described from a specimen taken in Sarawak. It seems to me that Mr. Newman's genus Isosceles has not the slightest claim to be preserved. Why he separated it from Oberea* does not appear. M. James Thomson, who has adopted it, relies chiefly on the antenne "corpore multum longiores;" but Mr. Newman expressly says of his genus that they are "corpore plerumque breviores." Oberea is a very extensive group, but with species often rarying according to the individual, and therefore very difficult to determine satisfactorily. The three species described above are, however, unusually well marked.

[^8]Proc. Zoor. Soc.—1866, No. XVIII.

## Ectinogramma.

Ectinogramma, J. Thomson, Syst. Ceramb. p. 96.

## Ectinogramma collare. (Pl. XXVIII. fig. 10.)

E. nigrum, subnitidun; prothorace pedibusque anticis, tarsis exceptis, rufo-castaneis.
Very long, narrow, and nearly linear, black, subnitid, the prothorax and fore legs, except the tarsi, reddish chestnut; head deeply cleft between the antemne, clothed with long pale-greyish hairs in front; prothorax finely punctured, scarcely wider than the head, the sides nearly parallel; scutellum narrow, rounded behind; elytra about five times as long as the prothorax, and but slightly broader, the shoulders rounded, rather irregularly punctured, the apex of each obliquely truncate; body beneath and legs, except the anterior pair, glossy black; antennæ setaceous, 12-jointed, rather longer than the body, the basal joint elongate, cylindrical, its apex entire, the third joint considerably shorter, but longer than the fourth, the rest very gradually shortened, the twelfth the shortest.
$\dot{A}$ most interesting genus, which M. J. Thomson has referred to the Hippopsince on account of its contiguous antennary tnbers-a character, it is true, quite at variance with the Obereine, hut which, it appears to me, should yield to the insect's more obvious affinities with that subfamily. His specimen was imperfect as to the antemnæ ; I have therefore subjoined a description of them. It will be seen that they have the remarkable character of being 12 -jointed; but whether this is a sexual peculiarity or not cannot now be decided. Ectinogramma isosceloides, the type, differs from the above in having the head red: nothing is said about the legs; it may be therefore inferred that they are unicolorous.

## Nedytisis.

## Elytra lateraliter haud deflexa.

Prothorax capite latior, antice et postice constrictus et sulcatus. Femora postica elongata, cêteris brevibus. Coxæ antice contigua.
Head broad in front; antennary tubers small and widely apart. Eyes rather prominent, narrowly emarginate. Antennæ as long as the body, setaceous, fimbriated beneath, the scape slender towards the base ; third joint longer than the scape, the remainder gradually shorter. Prothorax narrower than the head, cylindrical, constricted and grooved anteriorly and posteriorly. Elytra short, nearly parallel, not bent down at the sides, except a little at the shoulders, their apices slightly dehiscent and pointed. Legs very unequal, the anterior and intermediate pairs (especially their femora) short, the posterior femur two or three times as long as the anterior ; basal joint of the posterior tarsi as long as the next two together. Claws broadly appendiculate. Anterior cosæ prominent, contignous, their acetabula slightly angulated.

This genus, which has something of an Obrioid habit, has the anterior coxe perfectly contiguous. The narrowly constricted prothorax posteriorly is also characteristic. It is perhaps nearest some of the African forms of Phytocia, not yet clearly understood, e.g. Obereopsis, Chev. Col. (?Nitocris, Thoms.).

## Nedytisis obrioides. (Pl. XXVIII. fig. 1.)

N. rufo-testacea; elytris dimidio apicali fuscescentibus; abdomine segmentis tribus apicalibus argenteis.
Reddish testaceous, the apical half of the elytra brownish; head and prothorax minutely pubescent, impunctate, a finely raised line on the vertex, but becoming impressed between the eyes, and so continued to the mouth ; eyes and mandibles black; prothorax narrowest posteriorly ; scutellum small, rounded; elytra subseriate-pmetate at the base, more irregularly posteriorly, the apex of each dehiscent and terminating in a sharp angle; body beneath reddish testaceous, thinly pubescent, the posterior coxæ, posterior margin of the metathorax, and last three abdominal segments covered with a coarse bright silvery pubescence; legs and two basal joints of the antennæ reddish testaceons, rest of the antennæ blackish. Length 5 lines.
[To be continued.]

## Explanation of plates xxit., Xxvii., XXViif.

## Plate NXVI.

Fig. 1. Cuphisia callosa, p. 230.
2. Sodus ursulus, p. 237 .
3. Caeia herbacea, p. 233.
4. - melanopsis, p. 232.
5. Cyardium cribrosum, p. 240 .
6. Atossa atomaria, p. $2 \overline{5} 4$.

Fig. 7. Agelasta lambii, p. 235.
8. —— substrigosa, p. 236.
9. - - balteata, p. 235.
10. Ixais episomoides, p. 239 .
11. Obages palparis, p. 243 .
12. Cenodoeus granulosus, p. 238.

## Plate XXVII.

Fig. 1. Serixia prasinata, p. 257.
2. Xyaste nigripes, p. 257.
3. Omoeyrius fulvisparsus, p. 246.
4. Daxata ustulata, p. 230 .

Fig. 5. Metopides oecipitalis, p. 249.
6. Thylactus angularis, p. 242.
7. Thestus oneideroides, p. 248.

## Plate XXVIII.

Fig. 1. Nedytisis obrioides, p. 267.
2. Glenea œme, p. 261.
3. - vesta, p. 260.
4. -- neanthes, p. 259.
5. - porphyrio, p. 2.59.
6. -anthyllis, p. 262.

Fig. 7. Glenea manto, p. 262.
8. -alysson, p. 261.
9. Tanylecta lambii, p. 263.
10. Eetinogramma collare, p. 266.
11. Zosne cineticornis, p. 264.
7. A Monograph of the Diurnal Lepidoptera belonging to the Genus Euploea, with Deseriptions of many New Species; founded principally on the Specimens in the Collection of the British Musemm. By Arthur G. Butler, F.Z.S., Assistant, Zoologieal Department, British Muscum.

## (Plates XXIX., XXX.)

The last synopsis of this genus was made in 1847 by Mr. E. Doubleday, in his 'Genera of Diurnal Lepidoptera.' The number of species at that time amounted to thirty-seven; in the present monograph it will be seen that the species are more than doubled. A great proportion of them have hitherto been undescribed *.

I have endeavoured in the present paper to arrange the species as nearly as possible in a regular gradual series, so as to bring together the more closely allied forms. I have also made au effort to separate the numerous spccies iuto divisions and subdivisions, in order to facilitate their determination; these sections are, however, to some extent necessarily arbitrary, owing to the variations to which some of the species are subject, and to the difficulties arising from the knowledge of only one sex.

## Genus Euplea, Fabricius.

Euplea, Fabricius (Illiger's Mag. 1807), Horsfield, Boisduval, Doubleday, Moore.

Terpsichrois, Crastia, Salpinx, Didonis, Hübuer, Verz. bek. Schmett. (1816).

Danaus, p., Latreille.
Danais, P., Godart.
Danaida, p., Guérin.

## Division I.

Ale supra fusca, plerumgue elongatce et cerrulescentes; apice acuto, raro obtuso, plerumque maculis submarginalibus albis creruleisve seric duplici positis: subtus maculis discalibus caruleis aut albis, et plerumque submarginalibus albis.

## Subdirision 1.

Ala plerumque magne et carulescentes: antica subtus maculis, postica punctis discalibus, punctoque uno in cella posito.

## 1. Euplea prothoë.

Danais prothoë, Godart, Enc. Méth. ix. p. 177. n. 1 (1816).
l'apilio midamus, Cramer, Pap. Exot. iii. pl. 266. f. A, B (1780).
Terpsichrois alea, Hübner, Verz. bek. Sclmett. p. 16 (1816).

[^9]


GButlex Ith

Euplea pavette, Zinken-Sommer, in Nova Acta Acad. Nat. Curios. xr. p. 189 (1831).

Hab. North Ceram ; Amboyna. B.M.


Euploa semiciveulus.

## 2. Eupleta semicirculus.

ठ. Ale marginibus externis costisque subdirectis, supra cupreofusce, purpurascantes: anticce serie macularum violacearum submarginalium apud costam bifurcata maculaque una indistincta in cella apud finem posita: postica maculis duabus subapicalibus violaceis; margine antico late albo ; rena subcostali fascia lata ochrea pene cellam replente inclusa; margine anali quasi inuncto: corpus fuscum, antice nigrescens et ochreo punctatum; antenne nigre.
Ala untica subtus cupreo-fusca, extus fuscescentes, costa fusca, margine interno ochreo-albo, margine postico serie punctorum cerruleorum submarginalium, punctisque duobus marginalibus sub nervulo tertio mediano positis; serie interna macularum quatuor magnitudine crescentium, post cellam posita, duabus infimis albis maximis, unaque in cella violacea albo pupillata: ala posticae cupreo-fusca, extus fuscescentes, margine postico serie punctorum creruleorum submarginalium apud apiccm magnitudine crescentium, punctisque duobus marginalibus sub nervulo tertio mediano positis, serie interna macularum carulearum arcuata post cellam posita macnluque una apud cella finem, basi punctis nonnullis minoribus albis: corpus thorace nigro, ochreo punctato ; abdomine fusco pallido; untenne nigra.
Exp. alur. unc. $4 \frac{1}{1}$.
Hab. ——?
B.M.

Allied to the preceding species, but proportionally much shorter
in the wings, the costa and outer margin of the front wings much more direct, and the apex more pointed; darker and more completely shot with purple; the spots smaller, less numerous, and violet. Below, the front wings with only one complete submarginal row of spots.

## 3. Euplea pheebus, sp. n.

Euploa prothoë, Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 87. n. 12 (1847) ; F. Moore, Cat. Lep. Mus. East Ind. Comp. p. 130. n. 25.9 (1857).

Ala antice elongatce, supra aureo-fusce, costa fusca ; area interiore fuscescente; margine postico seriebus tribus macularum albarum submarginalium, maculaque una apud cellce finem; serie externa maculis oblongis parvis, serie media maculis apud costam magnitudine crescentibus et linea arcuata currentibus, serie interna angulata, maculis oblongis, apud costam magnitudine crescentibus: ala postica purpurascentes, area costali ochreo-alba, mediaque cella ochrea, areis externa et interna rufo-fuscis; margine postico femince seriebus tribus macularum albarum rufescentium submarginalium continuis, maris untem seriebus tribus interruptis nec angulum analem attingentibus; margine anuli maris quasi inuncto.
Ala antica subtus basi fuscescentes, medio certo situ purpurascentes; margine interno pallido, macula permagna subanali alba; margine postico seriebus macularum ut supra, duabus maculis autem externis minoribus serieque interna post cellce finem aliquando obsoleta maculisque majoribus: postica cupreo-fusca; margine postico maris fuscescente, serie punctorum alborum marginali, tribusque subapicalibus; serie punctorum quinque violaceorum arcuata post cellce finem; femince seriebūs punctorum duabus, serie interna macularum septem violacearum arcuata, unaque apud celle finem: corpus thorace nigro, ochreo punctato; abdomine cinereo; untenna nigre.
Exp. alar. unc. $\delta^{7} 4 \frac{1}{2}$, $¢ 4 \frac{7}{8}$.
Hab. Penang; Java.
B.M.

This species is quite distinct from E. prothoë of Godart, being much smaller, of a more golden colour, and quite differently spotted.

## 4. Euplea elisa, sp. 11.

Alre antica supra aureo-fuscre margine interno fuscescente, seriebus macularum alburum tribus, serie interna brevi maculis tribus inter nerculos medianos positis, serie externa apicem non attingente, serie media maris valde interrupta, femince autem contimua apud costam arcuata; macula una apud cella finem: postica maris cupreo-fuscce area costali ochreo-alba medioque cella ochrco; punctis tribus discalibus post cellam positis; margine postico fusco: margine anali quasi inuncto: postica femince aureo-fuscre, murgine costali pallido, margine postico seriebus punctorum alborum duabus submarginalibus, apud angulum analem indistinctis, serieque macularum trium post cellam posita : corpus fuscum, antice fuscescens alboque punctutum; antennce nigre.

Alce anticre subtus velut supra, maculis autem majoribus serieque submarginali externa maris contima: alce postica maris pallidiores; margine postico serie media punctorum quinque marginalium serieque punctorum violaccorum angulata post cellce finem; basi punctis nonnullis minimis albis: ale posticre femince velut supra, serie autem interna punctorum sex post celle finem posita unoque apud cellce finem: corpus thorace nigro, albo pupillato; abdomine fusco; antennce nigrce.
Exp. alar. unc. $\sigma^{2} 4 \frac{3}{8}$, 와 $4 \frac{1}{8}$.
Hab. Ceylon.
B.M.

## 5. Eupleaa ochsenheimeri.

Euploea ochsenheimeri, Lucas, Rev. et Mag. de Zool. 1853, p. 315; F. Mnore, Cat. Lep. Mus. East Ind. Comp. p. 132. n. 264 (1857).

Hab. East India (Lucas); Java. B.M.
Var. (a.) Alis posticis supra pane immaculatis.
Hab. Borneo.
B.M.

Var. (b.) Alis posticis supra seriebus duabus macularum albarum submarginalium continuis.
Hab. Madjico Sima, Borneo; Penang; Siam. B.M.
This last appears to be the normal form of the species, and the true $E$. ochsenheimeri the variety.

## 6. Euplea camaralzeman, sp. n. (Pl. XXIX. fig. 1.)

or. Ale supra nigro-fusce : anticce area basali viridi-cerulescente, puncto uno indistincto albo sub cellce extimo, postica margine costali pallidiore, anticarum medio viridi-ccrulescente; maculis duodecim marginalibus ochreo-albis, serieque submarginali anali: corpus nigro-fuscum, antice albo punctatum, antennis nigris.
Alca subtus olivacere, unticre area basali medio fuscescente, et viridicarulescente; area interna pallidiore; maculis duabus discalibus, puncto uno ad cellce extimum tribusque minimis analibus, albis: postica maculis submarginalibus velut supra, punctis quinque discalibus unoque ad cella extimum ochreo-albis: corpus thorace nigro, albo punctato ; abdomine fusco, maculis mediis cceruleis.
Exp. alar. unc. $4 \frac{1}{8}$.
Hab. Siam.
B.M.
7. Euplea chloë.

Euplcea chloë, Guérin, in Delessert, Souvenirs d'un Voyage dans l'Inde, App. 72 (1843).

Hab. Pulo Penang ; Sumatra. B.M.

## 8. Euplea superba.

Papilio superba, Herbst, Pap. t. 119, 120 (1783-95).
Euploca superba, Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 87. n. 14 (1847) ; F. Moore, Cat. Lep. Mus. East Ind. Comp. p. 131.n. 260 (1857).
P. Papilio midamus, Fabricius, Ent. Syst. iii. i. 39. n. 116 (1793). (Vide Banksian Collection.)

Limnas mutabilis midamis, IIübner, Samml. exot. Schmett. Bd. i. pl. 24. f. 3, 4 (1806).

Danais alopia, Godart, linc. Méth. is. p. 177 (1819).
Hab. China; North India; Cape of Good ILope?*. B.M.
Fabricius (Ent. Syst. iii. i. 39. n. 116 (1793)) refers to (Cramer, pl. 266. f. A, B, D, \& E) three distinct species as representatives of his midamus; but in the Banksian Collection I find E. superba, ㅇ, as midamus.
9. Euplea splendens, sp. 1. (E. superba, var.?)
© ${ }^{\text {. }}$ Alce antice supra nigro-fuscre omnino viridi-ccruleo mutabiles; margine postico seriebus macularum albarum duabus, esterna apicem non attingente, interna antice arcuata de costa currente nec marginem analem attingente; serie brevi angulata macularum septem violacearum oblongarum post cellam posita et de costa super cellam angulis duobus currente; macula una apud cella finem; striga pallida sub nervulo mediano primo posita: alce postica pallidiores, paulo carulescentes, area costali pallida ; macula permagna ochrea in vena subcostali posita, margine postico seriebus duabus macularum valde indistinctarum: corpus fuscum, albo antice punctatum.
Ale antice subtus cupreo-fusco, margine interno pallido seriebus macularum submarginalium velut supra, serie autem interna maculis minoribus; macula post costa medium, una apud cella finem, una sub cella fine, unaque magna oblonga inter nervulos medianos, albis: posticce cupreo-fusce seriebus duabus macularum submarginalium albarum, interna serie utrinque de panctis minimis, serie angulata macularum violaceo-albarum post celle finem maculaque una in cella; basi punctis albis: corpus fuscum, thorace albo punctatum.
Exp. alar. unc. $3 \frac{3}{8}$.
Hab. Nepaul.
B.M.

Allied to E. superba, Herbst, but more brilliantly shot with variable blue green; the outer margin of front wings more arched; the costa of hind wings not so angular ; the discoidal spots of the front wings much larger and oblong, and the submarginal spots smaller; the submarginal spots of hind wings nearly obsolete. Below, the discoidal spots are much more distinct and larger, the submarginal spots of the front wings more numerous, and the inner submarginal series of the hind wings very small, especially towards the apex and anal angle.

## 10. Euplea callithoë.

Euplcea callithoë, Boisluval, Faune de l'Océanie, p. 93 (1832); Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 87. n. 13 (1847). Hab. New Guinea.

* We have a female specimen registered as from this locality but it may very likely be an error.

Var. a.? $\sigma^{\circ}$, 와.

Ilab. Northern India. B.M.
Var. b.? of. Ala postica seriebus duabus macularum albarum continuis.

Hab. Sylhet.
B.M.

## 11. Euplea klugit.

Euploer klugii, F. Moore, Cat. Lep. Mus. East Ind. Comp. p. 130. n. 258 (1857).

IIab. Bootan.
B.M.

## 12. Euplea kinbergi.

Eupleca kinbergi, Wallengren, Wien. Entom. Monats. iv. (1860).
Hab. China.
B.M.

Subdivision 2.
Ale plerumque minores; supra raro crerulescentes vel apice acuto; muculis submarginalibus instabilibus, interruptis, aliquando obsoletis.

## 13. Euplea modesta, sp. n.

ס'. Ala supra fusca rufescentes, antica area basali carulescente: posticre area costali pallidiore macula permagna subcostali fusca, margine postico seriebus macularum submarginalium ochreo-albarum duabus, serie interna maculis elongatis, nec apicen attingente : corpus rufo-fuscum, capite albo punctato, antennis nigris. Alce subtus pallidiores; anticce area interna antice ochrea, margine late cinereo; macula una discali punctisque duobus, uno costali, maculaque ad celle extimum cervleo-albis : postice maculis submarginalibus velut supra, punctis septem discalibus serie arcuata, maculaque ad cella extimum violaceo-albis; basi albo punctata: corpus thorace cinereo, albo punctato, antennis nigris; abdomine fusco, maculis elongatis mediis ochreis.
Exp. alar. unc. $3 \frac{3}{16}$.
Hab. Siam.
B.M.
14. Euplea janus, sp. n.

Salpinx eleusina, Hübner, Samml. exot. Schmett. Bd. ii. pl. 9. f. 1, 2 (1806).

Ala supra cupreo-fusca, antica maris area basali paulo fuscescente, serie subapicali punctorum alborum, puncto uno post costa medium, unoque sub cella fine: postica seric marginali punctorum alborum serieque interna macularum trium subapicalium: antica femina serie marginali punctorum parvorum, serie subupicali pene ad angulum analem continuata; postice seriebus macularum submarginalium duabus: corpus cupreo-fuscum, antice fuscescens et albo punctatum.
Ala subtus pallidiores, anticce margine interno pallido; tribus quinqueve maculis discalibus albis unaque in cella; aliter velut supra :
alce postica punctis quinque sexve discalibus serie arcuata unoque in cella, aliter velut supra.
Alar. exp. unc. of $2 \frac{5}{8}$, ㅇ $2 \frac{15}{1}$.
Hab. Java*. Allied to the next species.

## 15. Euplea huebneri.

Euploea hübneri, F. Moore, Cat. Lep. Mus. East Ind. Comp. p. 129. n. 255 (1857).

Hab. Java (Horsf. Coll.).
Var. intermediate. Alce antica supra maculis subapicalibus interruptis, puncto discali obsoleto: postica serie punctorum marginalium continuata, serieque trium subapicalium.
Hab. Jara.
B.M.

## 16. Euplea amymone.

Euploea amymone, Godart, Enc. Méth. ix. p. 179. n. 10 (1819); Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 88. n. 20 (1847).

Hab. Amboyna; Cochin China.
B.M.

## 16a. Euplea haworthif.

Euploea haworthii, Lucas, Rer. et Mag. de Zool. 1853, p. 317. Hab. Java.

## 17. Euplea tisiphone, sp. n.

Alce supra nigro-fusce, area apicali pallidiore, serie angulata punctorum alborum quinque mimimorum submarginalium: postice nigro-fusce, area apicali pallida olivaceo-fusca; margine costali late alba; macula triangulari ochrea in cella sub vena subcostali posita: corpus nigro-fuscum, albo antice punctatum, antennis nigris.
Alce subtus olivaceo-fusca, antice macula permagna anali cineren, fascia elongata ochrea ad vence submediance basim posita; margine interiore ochreo-albo; puncto uno costali albo, duobusque discalibus inter nervulos medianos; margine postico seriebus punctorum alborum duabus, serie interna punctis quinque: posticre olivaceo-fuscce, serie punctorum violaceorum marginali punctisque quatuor minutis apud apicem submarginalibus; basi albo punctata: corpus nigrun, antennis nigris, thorace albo punctato, abdomine cinereo fasciato.
Alar. exp. unc. $3 \frac{3}{16}$.
Hab. Philippine Islands.
B.M.

Possibly this species may be closely allied to E. midamus; but at present we only possess the male sex. Above very similar to $E$. amymone (God.), but with the purple gloss scarcely distinguishable.

## Subdivision 3.

Alce anticre supra vix carulescentes, maculis submarginalibus obsoletis indistinctisve; postica maculis submarginalibus continuis, serie interna elongatis.

[^10]18. Euplea ménétriesil.

Euplcea ménétriesii, Felder, Wien. Ent. Monats. iv. p. 398 (1860).
Hab. Malayan peninsula.

## 19. Euplea alcathoë.

Danais alcathoë, Godart, Enc. Méth. ix. p. 178 (1819).
Euploea alcathoë, Boisduval, Fanne de l'Océanie, p. 99 (1832);
Westw., Donbl. \& Hewits. Gen. Diurn. Lepid. p. 87. n. 16 (1847);
F. Moore, Cat. Lep. Mus. East Ind. Comp. p. 131. n. 261 (1857).

Hab. Northern India.
B.M.
20. Euplea felderi, sj. n.

ㅇ. Ala supra fuscre, antiče area basali carulescente, maculis duabus discalibus, una ad cellce extimun, una costali, quinque subapicalibus serie arcuatu, raroque tribus submarginalibus punctisque nonnullis marginalibus albis: postice immaculate seriebusve duabus macularum indistinctarum apud apicem albarum: corpus nigro-fuscum, antice albo punctatum.
Ala subtus pallidiores, antica area interna pallida, aliter velut supra, maculis autem submarginalibus minoribus: postica punctis sex discalibus serie angulata, uno ad cella extimum maculisque submarginalibus velut supra positis albis; basi albo punctata : corpus cinereum, albo maculatum.
Exp. alar. unc. $3 \frac{1}{2}$.
Hab. Sumatra.
B.M.
21. Euplea alecto, sp. n.

Ale supra cupreo-fusca, medio paulo fuscescente, antica puncto uno costali, uno sub cellce extimo, duobus subapicalibus indistinctis quatuorque marginalibus apud angulum analem albis: postice scriebus duabus macularum oblongarum submarginalium albarum, serie externa maculis minoribus: corpus fuscum; caput albo punctatum, antennis nigris.
Ala subtus pallidiores, anticce macula una in cella, maculis duabus magnis et quinque parvis discalibus serie arcuata apud apicem albis, punctisque septem marginalibus nec apicem attingentibus: ale posticce maculis septem violaceo-albis serie arcuata circa cellam positis maculisque duabus in cella; maculis submarginalibus velut supra: corpus fuscum, abdomine albo punctato.
Exp. alar. unc. $3 \frac{5}{8}$.
Hab. Ceram.
B.M.
22. Eupleea godartif.

Euplea godartii, Lucas, Rev. et Mag. de Zool. 1853, p. 319.
Alae supra fusce, margine postico pallescente: untice apice late roseo-violaceo, punctis albis velut in E. alcathoë: posticce velut in E. core.
Alce subtus velut in $\mathbf{E}$. core, maculis discalibus autem majoribus.
Alar exp. unc. 8 3 $3 \frac{3}{5}$, 오 $3 \frac{5}{5}$.
Hab. Java (Lucas); Philippines; Siam.
B.M.

## 23. Euplea core.

Papilio core, Cramer, Pap. Exot. iii. t. 266. f. E, F (1/80).
Euploca core, Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 88.
n. 31 (1847); F. Moore, Cat. Lep. Mus. East Ind. Comp. p. 131.
i. 262 (1857).

Crastia core, Hübner, Verz. bek. Schmett. p. 16 (1816).
Papilio corus, Fabricius, Ent. Syst. iii. 1. p. 41 (1793).
Danais coreta, Godt. Enc. Méth. ix. p. 182 (1819).
Var. Danais cora, Godt. Enc. Méth. ix. p. 178. n. 7 (1819).
Hab. Ceylon.
B.M.

Var. maculis submarginalibus parvis.
Hab. Java (Horsf. Coll.).

## Subdivision 4.

Ale supra plerumque maculis submarginalibus instabilibus, raro obsoletis; antica maculis subapicalibus semper distinctis, plerumque oblongis.

## 24. Euplea vermiculata, sp. n. (E. core, var.?)

Lemnas mutabilis cora, Hübner, Samml. exot. Schmett. Bd. i. pl. 25. f. 1, 2 (1806).

Ale antice supra fuscr, margine postico pallidiore, maculis novem submarginalibus, apicalibus permagnis maculisque marginalibus multis minoribus albis: postica pallidiores, basi fuscescentes, seriebus macularum albarum submarginalium duabus, serie interna muculis elongatis magnis: corpus fuscum; caput nigrum, albo punctatum, antennis nigris.
Ala subtus pullidiores, anticre macula una costuli, duabus discalibus, una apud cella finem, ulbis; maculis submarginalibus velut supra, majoribus autem: alde postica maculis submarginalibus, apud apicem et angulum analem confusis; aliter velut supra; punctis quinque discalibus serie angulata post cellam positis unoque apud cella finem.
Exp. alar. unc. $3 \frac{1}{\mathrm{~T}}$.
Hab. Northern India.
B.M.

This specics appears to be allied to $E$. core of Cramer, of which it may possibly be the northern form; it differs from it chiefly in having the submarginal spots exceedingly large and distinct, especially near the apex.

## 25. Euplefa megera, sp. n.

Alre anticre supra saturate brunner, margine postico pullido, muculis quinque subapicalibus ulbis serie obliqua positis; maris fascia discali nitente, femince macula una discali apud marginem posticum; puncto uno costali, uno discali post cellam unoque in cella albis; serie punctorum marginalium partim indistinctorum, nec apicem attingente : postica maris pallidiores, maculis tribus subupicalibus
albis; femince margine postico late pullido, seriebys mucularum submarginalium duabus contimuis: corpus fuscum; caput niyrum, albo punctatum, antennis nigris.
Alce subtus pallidiorcs, antice maris maculis septen subapicalibus punctisque tribus marginalibus albis, macula una discali sub nervulo mediano primo, quasi inuncta, punctis insuper duobus discalibus caruleis unoque in cella: postice punctis sex discalibus serie arcuata, unoque in cella, muculis sex submarginalibus, punctisque quinque marginalibus albis: anticce femina margine interiore ochreo, maculis submarginalibus velut supra, punctis undecim marginalibus distinctis duobusque sub costa post medium, muculis tribus discalibus serie obliqua, una apud cella finem fasciaque apud marginem interiorem roseo-albis: postice punctis sex tiscalibus serie arcuata unoque in cella roseo-albis, seriebus maculurum duabus subunarginalium albarun.
Exp. alar. unc. of 3 , ㅇ $3 \frac{1}{2}$.
Hab. Aru Islands.
B.M.

## 26. Euplea egyptus, sp. n.

Ale elongata, supra fusce, antice striga discali nitente brevi, maculis quinque subapiculibus albis unaque subcostali rosea indistincta, strigis duabus minimis costulibus : postice seriebus punctorum duabus submarginalibus alborum aliquando indistinctorum, margine costali albo: corpus fuscum, antice nigrescens alboque punctuto; untennis nigris.
0. Ala subtus olivaceo-fusce, antica margine interiore albo, strigis costalibus maculisque subapicalibus albis velut supra; serie punctorum marginatium valde interrupta punctoque uno submarginali upud angulum analem, macula una discali, una in cella, fasciaque discali quasi inuncta: posticce seriebus punctorum duabus submarginalibus alborum, serie interna brcvi; serie discali punctorum violiccoorum arcuatu punctoque uno in cella: corpus thorace nigro, albo punctato ; antennis nigris ; abdomine fusco, albo fusciato.
Exp. alar. unc. $4 \frac{1}{16}$.
Hab. Borneo; Sumatra.
B.M.

## 27. Euplga crameri.

Eupleea crameri, Lucas, Rev. et Mag. de Zool. 1853, p. 319; F. Moore, Cat. Lep. Mus. East India Comp. p. 129, n. 256 (1857). Hab. Manilla (Lucas) ; Borneo.
B.M.

## 28. Euplea bremeri.

Euploea bremeri, Felder, Wien. Ent. Monatsschr. iv. p. 398 (1860).
Hab. Malayan peninsula; India.
B.M.

## 29. Euplea mooret, sp. n.

ㅇ. Ala supra olivacco-fusca, antica carulescentes, maculis velut in E. bremeri, Felder : postica seriebus punctorum alborum duabus, interna subapicali, cxterna marginuli continua: corpus fuscum, untice nigrum alboque punctatum.

Ala subtus paulo pallidiores, antica maculis velut in E . bremeri: postica maculis marginalibus velut supra albis, maculis septem discalibus serie arcuata unaque ad cellee extimum violaceo-albis; basi albo punctata: corpus nigrum, albo maculatum.
Exp. alar. unc. $3 \frac{1}{16}$.
Hab. Sumatra.
B.M.

Closely allied to C. bremeri, Felder, but much smaller ; the costa of the front wings more direct, the subapical spots smaller aud more distinct, the inner submarginal row of spots in the hind wings not continuous.

## 30. Euplea swainsonii.

Danais swainsonii, Godart, Enc. Méth. ix. p.815. n. 17-18, Suppl. (1823) ; Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 88. n. 33 (1847).
Hab. Philippine Islands. B.M.

## 31. Euplea crassa, sp. n.

Ala supra cupreo-olivacea, basi paulo fuscescentes et ccrulescentes, antice apice valde acuto, seriebus macularum submarginalium albarum duabus, serie interna ad apicem permagnarum violaceoalbarum; punctis tribus discalibus post cella extimum unoque costali violaceo-albis : posticce costa alba, seriebus macularum albarum duabus, interna apud apicem paulo majoribus: corpus fuscum, abdomine carulescente; caput ochreo punctatum.
Alre subtus pallidiores, anticee seriebus macularum duabus, interna apicali, externa marginali continua, macula una interna magna, una costali duabusque plerumque post cella extimum roseo-albis: postice seriebus macularum duabus submarginalibus; basi albo punctata: corpus thorace fusco, albo punctato; abdomine cinereo, maculis albis mediis.
Exp. alar. unc. ơ $3 \frac{9}{10}$, 오 $3 \frac{1}{2}$.
Hab. Siam.
B.M.
32. Euplea nox, sp. n.

ㅇ. Ala supra nigro-fuscer, margine postico pallido, antice maculis quinque subapicalibus albis serie arcuata positis : postica maculis septem submarginalibus albis punctisque decem indistinctis marginalibus ochreis: corpus fuscum; caput albo punctatum, antennis nigris.
Alce subtus pallidiores, anticre margine interiore albo, maculis subapicalibus velut supra, puncto uno submarginali punctisque duobus marginalibus albis; puncto uno post costa medium ochreo, uno in cella unoque discali, caruleis : postica maculis octo submarginalibus, punctis decem marginalibus, duobus discalibus, uno apud cella finem basique nonnullis allis: corpus fuscum, thorace ochreo-punctato, antennis nigris; abdomine pallidiore, maculis tribus mediis quadratis albis.
Exp. alar. unc. $3 \frac{1}{2}$.
Hab. Aru Islands.
B.M.

## Division II.

Alce latc, breves, supra nigro-fusca, maculis submarginalibus albis distinctis, subapicalibus anticarum oblongis: subtus maculis discalibus posticarum interruptis, raro obsoletis.

## 33. Euplea gamelia.

Salpinx gamelia, Hübner, Samml. exot. Schmett. Bd. ii. pl. 10. f. 1, 2 (1806-27).

Euploa gamelia, Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 88. n. 29 (1847).

Euploa faler, Zinken-Sommer in Nova Acta Acad. Curios. xv. t. 16. f. 18, 19 (1831).

Hab. Java.
B.M.

## Division III.

Alce supra fusca, raro cerrulescentes; antica plerumque immaculate, raro punctis discalibus : alce subtus maculis discalibus distinctis.

## Subdivision 1.

Ala elongate, supra carulescentes, antica apice leviter subangulato, plerumque puncto uno costali punctisque nonnullis minimis discalibus caruleo-albis; postica aliquando maculis submarginalibus albis, serie interna elongatis: subtus pallidiores, maculis discalibus violaceo-albis.

## 34. Euplea margarita, sp. n.

Alce supra olivaceo-fusca, antica fuscescentes, caruleo viridique variubiles, puncto uno costali albo, maris maculis duabus discalibus caruleis, puncto uno subapicali, uno anali unoque submarginali ochreis; femince puncto uno discali albo: posticce maris margine costali ochreo-albo, macula permagna subcostali ochrea; margine postico seriebus macularum ochreo-albarum duabus submarginalibus; femince seriebus macularum duabus, maculis ad angulum analem confusis, serie interna elongatis: corpus fuscum, antice nigrescens alboque punctatum.
Ala subtus pallidiores, anticee punctis nonnullis sparsis submarginalibus albis, unoque costali, maculis duabus discalibus, inferiore elongata magna lunulaque in cella iridescentibus, margine interiore pallido; femince striga elongata discoidali ochrea apud marginem posita: postica maris punctis quinque, femince sex discalibus duobusque in cella albis iridescentibus, maculis submarginalibus velut supra, basi albo punctata: corpus nigro-fuscum, albo punctatum; antennis nigris.
Exp. alur. unc. of $3 \frac{5}{8}$, ㅇ $4 \frac{1}{16}$.
Hab. East Indies.
Allied to Euploca deione, Westwood.
B.M.
35. Euplea deione.

Euplaa deione, Westwood, Cab. Orient. Entom. p. 76, pl. 37. f. 3 (1847) ; Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. Suppl.

Mab. Assam (Westw.); Darjeeling; Sylhet. B.M.
36. Euplea picina, sp. n. (PI. XXX. fig. 1.)

ס. Alce anticae supra nigro-fuscee, certo situ purpurascentes, strigis duabus apud maryinem interiorem : posticce fusce, margine costali albo, margine postico pallido: corpus nigro-fuscum; caput albo punctatum, antennis nigris.
Alce subtus pallidiores, untice margine interiore albo, strigis brunneis velut supra; seric maculurum quatuor discalium viridi-albarune obliqua angulata post cellam posita, ad costam magnitudine decrescentium, maculuque unu apud cellce finem: posticae maculis quinque discalibus cceruleis serie arcuata post cellam positis unaque in cella: corpus nigro-fuscum, abdomine albo punctato.
Exp. alar. unc. $3 \frac{7}{8}$.
Allied to the preceding species.
IIab. Sumatra.
B.M. ?
37. Euplea wallacei, Felder, sp.

Eupleea wallacei, Felder, Wien. Entom. Monatschr. iv. (1860).
Hab. Gilolo.

## Subdivision 2.

Ala breviores, supra rarissine punctis nonnullis submarginalibus; plerumque area apicali pallescente: subtus maculis discalibus distinctis cceruleis pallidis, raro maculis submarginalibus similibus.
38. Euplea melancholica, sp. n.
o'. Ale supra nigro-fusce, postica margine unali paulo pallidiore, margine costali cinerascente; margine postico seriebus mucularum fulvarum duabus, ad apicem obsoletis : corpus fuscum, antice nigrescens fulvoque punctatum, antennis nigris.
Ala subtus pallidiores, antice striis duabus internis muculisque quatuor quinqueve discalibus serie obliqua et magnitudine untice decrescentibus, punctis tribus costalibus tribusque minimis apud marginem analem albis: postica seriebus macularum submarginalium ochreo-albarum duabus, muculis septem discalibus serie angulata unaque ad cella extimum roseo-albis, basi ochreo punctata - corpus nigro-fuscum, thorace ochreo punctato, antennis nigris, abdomine medio ochreo punctato.
Exp. alar. unc. $3 \frac{3}{5}-3 \frac{13}{16}$.
Hab. Bouru; Amboina (B.M. and Salvin Coll.).
39. Euplea anthracina, sp. n. (Fig. 1, p. 281.)

Ala supra saturate fuscre, margine postico pallidiore, anticce maculis submarginalibus serie una valde indistinctis, maris striga elongata nitente apud marginem interiorem: postica femince punctis tribus ulbis indistinctis subapicalibus: corpus fuscum; caput nigrum, albo punctatum; untennis nigris.

Ale subtus pallidiores, antice serie punctorum viridi-alborum submarginalium apud apicem arcuata: anticee maris macula magna, punctis quatuor discalibus serie directa, uno in cella unoque costali. viridi-albis: antica femina punctis nonuullis marginalibus minimis indistinctis, striga, macula punctisque quatuor disculibus. macula una in cella punctoque uno costali viridi-albis : postica maculis octo novemve submarginalibus, octo discalibus serie angulata, una in cella, feminceque serie marginali, viridi-albis; basi punctis nonnullis oclreis: corpus fuscum, albo punctatum; antcunis nigris.
Exp. alar. unc. of $3 \frac{3}{15}-3 \frac{3}{8}$, 아 $3 \frac{5}{15}$.
Hab. Amboina ( ठ B.M., ㅇ Salcin Coll.).


Fig. 1. Euplaca anthracina, p. 280.
2. - morosa, 1. 282.
3. - masta, p. 28t.

39 a. Euplea anthracina, var.? (? E. climena, ơ .)
Alce unticce subtus maculis solum tribus discalibus: posticee serir macularum submarginalium marginem analem non attingente.
Exp. cler. unc. $3 \frac{1}{2}$.
Hab. Ceram (Coll. Salvin).
В. М.

Proc. Zool. Soc.-1866, No. XIX.

## 40. Euplea climena.

P'apitio climenu, Cramer, Pap. Exot. iv. t. 389. f. E, F (1782).
Crustiu climena, Hübner, Verz. bek. Schmett. p. 16 (1816).
Euploca climena, Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 88. n. 18 (1847).

Danais alyeu, Godart, Enc. Méth. ix. p. 178. n. 8 (1819).
Hab. Amboina; Ceram.
B. M.
41. Eupleqa melina. (Fig. 1, p. 283.)

Danais melina, Godart, Enc. Méth. ix. p. 179. n. 9 (1819).
Eupleca melina, Boisdural, Faune de l'Océanie, p. 89 (1832); Westw., Donbl. \& Hewits. Gen. Diurn. Lepid. p. 88. 11. 17 (1847).

Hab. New Guinea (Doubl.) ; Aru Islands ; Ceram. B.M.
42. Euplea morosa, sp. in. (Fig. 2, p. 281.)

Alce supra fusca margine postico paulo pallidiore: antica maris apice. acuto, margine interiore brevi; maryine postico convexo; maculis dualus apud marginem interiorem nitentibus, unat parva alteraque insuper ovali magna: corpus fuscum; caput albo punctatum, antennis nigris.
Alce subtus rufescenti-fuscre; unticce maryine interiore pallido, striga elongata interna, macula panctisque duobus discalibus serie obliqua, maculaque ad cellce extimum, creruleo-allis : postica punctis septen discalibus serie arcuatu post cellam positis, tribus subapicalibus muculaque ad cellce extimum ceralco-allis: corpus thorace nigro, allo punctuto; antennis nigris; abdonine fusco-pallido.
Exp. alar. unc. 3.
Hab. Gilolo (B.M. and Salvin Coll.).

## 43. Euplea duponchelit.

Euploea duponchelii, Boisduval, Faune de l’Océanie, p. 97. n. 6 (1832) ; Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 87. n. 7 (1847).

Hab. Bouru.

## 44. Euplea aglidice.

Euploca aylidice, Boisduval, Fame de l'Océanie, p. 96. n. 5 (1832) ; Westiw., Doubl. \& Hewits. Gen. Dinrn. Lepid. p. 87. n. 6 (1847). Hab. Rawack.

## 45. Euplea lapeyrousei.

Euplea lapeyrousei, Boisduval, Faune de l'Océanie, p. 97 (1832); Westw., Doubl. \& Hewits. Gen. Dium. Lepid. p. 88. n. 27 (1847). Hub. Bourn (Bdv.) ; Aneiteum.
B.M.
46. Euplea sepulchralis, sp. n. (Fig. 2, p. 283.)

Eupleca melina, F. Moore, Cat. Lep. Mus. East Int. Comp. p. 128. 11. $25-1$.
d. Alce supra olivaceo-fasce margine postico pallidiore, anticce raro puncto uno discali albo; margine anali posticarum albicante : corpus fuscum, caput albo punctatum, antennis nigris.
Alce subtus pallidiores, antice maculis tribus discalibus serie obliqua, una in cella, punctis duobus subapicalibus duolusque mediis submarginalibus caruleo-albis: postice seriebus punctorum alborum subapicalium duabus, serie interna punctis majoribus, maculis sex discalibus serie arcuata, unaque ad cellæ extimum, albis: corpus thorace cinereo, albo punctato; abdomine ochreo.
ㅇ. Apice anticarum acuto; posticre supra pallidiores, maculis subapicalibus: antice subtus strigis duabus elongatis internis, puncto uno costali, tribus subapicalibus minimis albis: posticre puncto uno subcostali; serie macularum marginalium pene ad angulum analem continuata.
Exp. alar. unc. $2 \frac{3}{4}$.
Mab. Java (IIorsf. Coll. \&. B.M.).


Fig. 1. Eupª melina, ठ̃, p. 282.
2. - sepulchralis, ठ, p. 282.
3. - confusa, f, p. 285.

Note.-The true E. melina of Godart is similar in size to $E$. climena of Cramer, from which it chiefly differs in having no subapical spots
on the underside of the hind wings. The E. melina of Horsfield's collection, however, is a much smaller insect, and has subapical spots on the hind wings as in $E$. climena.

## 47. Euplea palla, sp. n.

Ala supra nigro-fuscre, certo situ cerulescentes; antica maculis septem submarginalibus albis ad apicem majoribus, striis duabus internis nitentibus: postica area anali rufescente; margine costali rufescente; margine interno cinerea; maculis decem submarginalibus ochreo-albis, punctis minimis marginalibus brunneis: corpus nigro-fuscum, antice albo punctatum; antennis nigris.
Ala subtus pallidiores, rufescentes, maculis submarginalibus velut supra, anticre auten uno minimo costali: antica punctis duobus discalibus novemyue marginalibus minimis albis: postica punctis undecim marginalibus minimis, basi punctis duobus albis minimis: corpus thorace nigro-fusco, punctis nonnullis albis, antennis nigris; abdomine olivaceo-fusco, punctis mediis albis.
Exp. alar. unc. $3 \frac{1}{3}$.
Hab. Aru Islands.
B. M
48. Eupleat tristis, sp. n.

Ala supra nigro-fusca purpurascantes, antice maculis quinque marginalibus albis : postica costa pallida, margine postico rufescente, margine apicali maculis sex irregularibus albis submarginato: corpus nigro-fuscum, collo albo punctato, antennis nigris.
Ala subtus olivaceo-fusca, antica area basali fuscescente, certo situ purpurascentes, punctis quinque discalibus maculaque in cella subviolaceis ; maculis duabus apicalibus, duabus medius submarginolibus punctisque nonnullis marginalibus sparsis albis: postica punctis sex discalibus unoque in cella subriolaceis; punctis nonnullis minimis valde indistinctis submarginalibus sparsis: corpus nigrum, abdomine caruleo punctato.
Exp. alar. unc. 27.
IIab. Aneiteum.
B.M.

## 49. Euplea mesta, sp. n. (Fig. 3, p. 281.)

ठ. Alce supra nigro-fuscre certo situ purpurascentes, postica extus pallescentes: anticre maculis duabus subapicalibus punctisque duobus oblongis submarginalibus caruleis: corpus nigro-fuscum; capite collo albo punctato, antennis nigris.
Ala antica subtus area basali nigro-fusca; costa areaque postica rufescentibus; margine interno albo-cinereo; maculis duabus discalibus unaque ad cella extimum; striis duabus internis sericeis: posticce fusco-rufescentes, marginibus paulo pallescentibus, punctis quatuor discalibus caruleis serie arcuata post cellam positis unoque ad cella extimum: corpus nigro-fuscum, abdomine medio cinereo punctato.
Exp. alar. unc. $3 \frac{3}{8}$.
Hab. Dory ; Sumatra (ala supra immaculatce).
B.M.

ס. Var. Antice supra immaculate; postica margine postico fusco marginato: anticce subtus punctis tribus minimis discalibus post cellam positis : posticce margine costali obscuriore.
Exp. alar. unc. $3 \frac{3}{4}$.
Hab. Amboina.
B.M.
50. Euplea ethiops, sp. n.

す. Alce antice supra nigro-fusce, margine postico rufescente : posticce nedio nigrescentes; area costali cinereo-fusca; area anali et margine upicali olivaceo-fuscis: corpus nigro-fuscum, antice albo punctatum, antennis nigris.
Alce subtus olivaceo-fusce, antica medio fuscescente, margine interiore striga magna interna alba, puncto uno subcostali unoque discali sub celle extimo strigaque interna exiqua elongata albis: postica punctis nonnullis minimis subapicalibus albis, punctis quinque discalibus serie arcuata post cellam unoque ad cellce extimum violaceis.
Exp. alur. unc. $3 \frac{1}{4}$.
Hab. Waigiou.
B.M.

## Division IV.

Ala fusce, breves, antice maris et raro femina macula una discali, sub nervulo mediano primo posita: ala subtus plerunque maculis submarginalibus distinctis; antica maculis discalibus plerumque distinctis.

## Subdivision 1.

Ala antica supra striga media lata pallida roseo-ferruginea: alde subtus sine maculis submarginalibus; punctis discalibus indistinctis obsoletisve.

## 51. Euplea usipetes.

Euploa usipetes, Hewitson, Exot. Butterf. ii. pl. 12. f. 4 ( ${ }^{\text {º }}$ ) (1857-61).
Hab. Aru Islands. B.M.
52. Euplea confusa, sp. n. (Fig. 3, p. 283.)

ㅇ. Ala antica supra ochreo-fusca, striga discali interna elongata confusa roseo-pallida, costa basi fuscescente : postica obscuriores, margine costali pallido, fascia triangulari nigro-fusca de margine abdominali ad cella extimum currente: corpus fuscum, cutice nigrescens alboque punctatum; antennis nigris.
Ale subtus velut in E. usipete (Hewitson), postica autem margine anali pallidiore : corpus thorace nigro, abdomine cinereo-fusco.
Alar. exp. unc. $3 \frac{1}{4}$.
Hab. Waigiou (Coll. Salvin and B.M.).
This insect may be only a local form of $E$. usipetes; I have only seen female specimens.

Subdirision 2.
Ale antice margine postico pallido; antica et aliquando postica subtus maculis discalibus distinctis; anticce maculis subapicalibus dis. tinctis.
53. Euplefa eurypon.

Euploa eurypon, Hewitson, Exot. Butterf. ii. pl. 12. f. 3 ( f) (1857-61).

Hab. North Ceram ; Ké Island.
B.M.

Subdivision 3.
Ala supra sine maculis submarginalibus: postice subtus maculis discalibus obsoletis.
54. Euplea hisme. (Fig. 1 infià.)

Euploea lisme, Boiscluval, Fanue de l'Océanie, p. 95 (1832); Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 87. 1n. 4 (1847).

Hab. Aru Islands.
B.M.


Fig. 1. Euplaa hisme, f, p. 286.
2. - eunice, ㅁ, p. 287.
3. -- iphianassa, f, p. 287.

Subdivision 4.
Ale supra maculis submarginalibus violaceis albisve serie una; posticre subtus sine maculis discalibus.

## 55. Eupleqa herbstif.

Euploca herbstii, Boisduval, Fannie de l'Océanie, p. 95. n. 3 (1832); Westw., Doubleday \& Hewitson, Gen. Diurn. Lepid. p. 87. n. 8 (1847).

Hab. New Guinea.
56. Eullea eunice. (Fig. 2, p. 286.)

Danais eunice, Godart, Enc. Méth. ix. p. 177 \& p. 815. u. 2 (1819).

Euplea eunice, Boisdural, Faune de l'Océanie, p. 94 (1832); Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 87. n. 1 (1847); F. Moore, Cat. Lep. Mus. East Ind. Comp. p. 129. n. 257 (1857).
? Danaida eunice, Guérin, Icon. du Règne Animal, p. 474, pl. 77. f. 4 (1829-44).

Limnas mutabilis nemertes, Hübner, Samml. cxot. Schmett. (1806-27).

Salpinx nemertes, Hübner, Verz. bek. Schmett. p. 17 (1816).
Hab. Ceram ; Amboina; Java (I'estwood, Moore) ; Pinang (Moore).
57. Euplea iphianassa, sp. n. (Fig. 3, p. 286.)

Alce supra fuscre, marginibus pallescentibus; antica maris macula subapicali alba a venis interrupta, maculis tribus parvis submarginalibus, una costali unaque ovali magna discali, albis: postice area costali cinerea, mucula permagna subtriangulari ochreo-ferruginea: corpus fuscum, albo antice punctatum.
Alce antice subtus fusca, ad marginem posticum pallidiores, maculis sex submarginalibus, una costali unaque discali magna globosa albis; margine interno ochreo: posticre fusca, margine postico paulo pallidiore, maculis septem submarginalibus serie anyulata positis nec angulum analem attingentibus, coruleo-albis; busi albo punctuta: corpus cinereo-fuscum, untennis nigris.
Exp. alar. unc. $3 \frac{3}{8}$.
Alce anticre femince subtus maculis septem submarginalibus punctoque uno costali albis : postica margine costali albo; maculis quatuor subapicalibus albis aliisque submarginalibus valde indistinctis: antica subtus margine interno ochreo-albo, maculu una discali alba, aliter velut supra: postica maculis decem submaryinalibus albis serie angulata positis; basi albo panctata; aliter velut supra.
Exp. ular. unc. $3 \frac{1}{16}$.
Hab. Aneiteum.
B.M.

Note.-Allied to the preceding species, of which it may be ouly a local form ; it differs from it chiefly in having only one discal spot on the front wings below, and none on the hind wings, also in the
female having no diseal spet above ; the latter may be a variable character, but it appears to be constantly the case with the females of E. mazures (Hïbner).


Fig. 1. Euploca vestigiata, 우, p. 288.
2. - inquinata, उ, p. 291.
3. - hyems, f, p. 242.
58. Euplega vestigiata, sp. n. (Fig. 1 suprì.)

Alce anticre supra nigro-fuscre, marginibus panlo rufescentibus; maculis submarginalibus octo novemve, una costali striaque brevi interna discali violaceis : posticce olivaceo-fuscre, medio fuscescente, margine costali albido; maculis tribus subapicalibus albis: alae maris macula permagna subtriangulari ochrea apud costam posita : corpus nigro-fuscum, albo antice punctatum, antennis nigris.
Ala subtus olivacea, margine interiore ochreo-albo, maris punctis sex submarginalibus, novem marginalibus maculaque una permagne ovali discali albis; macula una ovali discali interna cinerea; macula una parva costali duabusque discalibus post cellam positis violaceo-albis: antica femince maculis novem submarginalibus, punctis quatuor subanalibus, duabus subapicalibus minimis unaque discali magna ovali albis; macula una costali violaceo-alba : postica maculis decem submarginalibus et novem decemve analibus marginalibus albis, punctis duobus elongatis discalibus inter
venas subcostales violaceo-albis: corpus thorace nigro, albo maculato, antennis nigris, abdomine cinereo-fusco.
Exp. alar. unc. © $3 \frac{9}{16}$, ㅇ $3 \frac{3}{8}$.
Hab. Java.
B.M.

Note.-This species is also allied to E. eunice, Godart, and is probably the insect intended in the 'Genera' and in the 'Catalogue of the East India Company.' Our present specimens of E. eunice are named from insects that had been determined by Dr. Boisduval, and agree with the original description of the species.
59. Euplea eleusine.

Papilio eleusine, Cramer, Pap. Exot. iii. t. 266. f. D (1780).
Euploaa eleusine, Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 87. n. 9 (1847).

Danais eleusine, Godart, Enc. Méth. ix. p. 177 (1819).
Salpinx eleusina, Hübner, Samml. exot. Schmett. Bd. ii. pl. 9. f. 3,4 ( ㅇ) ( 1806 ).

Terpsichrois eleusinu, Hübner, Verz. bek. Schmett. p. 16 (1816).
Euploa eleusine, F. Moore, Cat. Lep. Mus. East Ind.Comp. p. 127. n. 252 ( 1857 ).

Euplea mazares, Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 87. n. 10 (1847).

Hab. Java (Horsf. Coll.).
Var.? Danais darchia, M‘Leay, King's Survey of Australia, ii. App. p. 462 (1827); Westw., Doubl. \& Liewits. Gen. Diurn. Lepid. p. 87. n. 2 (Eup. darchia) (1847).

Hal. Anstralia.
Hübner (Samml. exot. Schmett. Bd. ii. pl. 9) figures two species under the name of Salpinx eleusina; he considers them to be the sexes of the species; they, however, belong to two distinct groups.

## Division V.

Ala supra fusco-ccrulescentes: anticce sine macula interna discali obsoleta; maculis submarginalibus, ad apicem majoribus: postice raro maculis submarginalibus. Alre subtus maculis submarginalibus; antica aliquando macula discali; postice rarissime maculis discalibus.

## Subdivision 1.

Alce postica supra punctis nonnullis subapicalibus albis.
60. Euplea mazares.

Euploa mazares, F. Moore, Cat. Lep. Mus. East Ind. Comp. p. 127. n. 253 (1857) (but not of Doubleday).

Hab. Java (Horsf. Coll.).
Var. Alis majoribus, olscurioribus, femince sine puncto costali.
Hab. Java; New Guinea. B.M.
Note.-Hübner's figures of Salpinx eleusina are certainly taken from a variety of Cramer's insect, the discal spots above being only
partially obscured, the subapical spots not rumning so obliquely to the costa, and the subapical spots of the hind wings becoming very large at the apex. In the 'Genera,' however, they are quoted as $E$. mazares.
61. Euplea pumila, sp. 1 .

Alce antica brunneo-rufescentes et certo situ paulo purpurascentes; margine postico dilutiore, femince roseo-albicante; anticre maculis septem submarginalibus violaceo-albis: posticre maris area costali cinerea, macula permagna ochrea apud costam posita; maculis duabus subapicalibus albis: postica femince margine costali ochreo-albo, maculis tribus subapicalibus albis: corpus fuscum, albo antice punctatum.
Alce subtus brumeo-rufescentes, antice maris margine interno macula permagna ochrea; punctis quatuor subapicalibus albis: postice maculis quatuor subapicalibus punctisque decem minimis inconspicuis maryinalibus rlbis; basi allo punctata: antica femince margine interno pallidiore, murgine postico punctis plurimis submarginalibus albis serie duplici positis; posticre maculis quatuor subapicalidus punctisque decem conspicuis marginalibus albis.
Exp. ular. unc. o $^{7} 2 \frac{3}{8}$, ㅇ $2 \frac{5}{8}$.
Hab. New Guinea.
B.M.

## 62. Euplea pollita.

Eupicea pollita, Erichson in Nov. Acad. Nat. Curios. xvi. pt. 2, pl. 40. f. 6. p. 282 (1833) ; Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 88. n. 21 (1847).

Hab. Philippine Islands. B.M.
Note.-This species may be a local form of E. tulliolus, Fabricins.
63. Euplea sylvester.

Papilio sylvester, Fabricius, Ent. Syst. iii. 1. p. $41 . \mathrm{n}$. 124 (1793).
Euploa sylvester, Westw., Doubl. \& Hewits. Gen. Diurn. Lepid. p. 88. 11. 2.5 (1847).

Danais sylvestris, Godart, Enc. Méth. ix. p. 182. n. 20 (1819). Hab. Australia?
I think it doubtful whether this species is rightly placed; the description of it is so poor that it is impossible to recognize the insect by it.

Subdivision 2.
Ala postica supra punctis subapicalibus obsoletis.

## 64. Euplea tulliolus.

Papilio tulliolus, Fabricins, Ent. Syst. iii. 1. p. 41.n. 123 (1793). Euplea tulliohs, Westw., Doubl. \& Hewits. Geu. Diurn. Lepid. p. 88. n. 26 (1847).

Danais tulliola, Godart, Enc. Métl. p.181. 1. 19 (1819); M'Leay, King's Survey of Australia, p. 461. n. 148 (1827).

IIab. Australia; Aueiteum.
B.M.


[^0]:    ** Beak of the skull broad behind, rather shorter than the length of the brain-case. I'eeth large, three in an inch. First and second cervical vertebrce united by their bodies; the third, fourth, fifth, six, and seventh fiee. Lagenorhynchus.

[^1]:    * Coptops abdominalis, White, from North Australia, is a species of Eyomomus, apparently identical, for the specimen is much worn, with $\mathcal{E}$. insularis, an insect ver! generally distrihuted over the Malayan archipelago.

[^2]:    * Cacia latifascia, White, from North China, is a very doulttful member of this genus.
    $\dagger$ A synonymic list of the Longicorns of Australia will shortly be published by the Linnean Society.
    $\ddagger$ In Sir J. E. Tennent's work on 'Ceylon,' 358 genera of Coleoptera are enumerated; of these 184, or rather more than one-half, are European. With regard to Lepidoptera, to the diurnal at least, India belongs to the Malayan region; while even in the valleys of the Himalayas the Homoptera are of the most decidedly tropical forms.

[^3]:    * No doubt many of our so-called species are hybrids; but a majority of these obscurer species do not appear to possess the intermediate characters we should expect to find if their existence were due to hybridity.

[^4]:    * I have slightly altered the orthography, the original name having been preoccupied for a genus of Lepidoptera.

[^5]:    * Ann. \& Mag. Nat. Hist. ser. 3. ii. p. 274.

[^6]:    * Iole was first proposed; but finding very soon after that a genus of birds was already so desiguated, I altcred it to Iolca.

[^7]:    * Stibara funerula, Arch. Ent. i. p. 141. At least if I am right in my determination of it.

[^8]:    * In my 'Longicornia Malayana' I have proposed to separate Oberea and its allies from the subfamily Phytceciince; 1 fear, however, that the characters on which I relied are more than usually questions of degree, too numerous and graduated to learl to anything satisfactory in alopting them.

[^9]:    * Several species, which I had overlooked whilst writing the present paper, will be found in the dppendix.

[^10]:    * I think it possible that if we had a large series of this insect it might prove to be only a variety of the next species.

