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TO THE

IDENTIFICATION

OF

INSECTS.

EDITED BY
CHARLES OWEN WATERHOUSE.

LITHOGRAPHS BY
EDWIN WILSON.

VOL. I.

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PREFACE.

IN issuing this first volume of 'Aid,' I wish to call attention to the following sentence in my Prospectus, viz:—"There will be a Systematic Index, together with such remarks on the insects as may appear absolutely necessary, but the Editor is anxious to avoid adding to the already voluminous Entomological Literature; the present work being intended to elucidate that which has been already written." I mention this for the reason that some persons have wished that the Plates were accompanied by Letter-press or descriptions. To reproduce all the original descriptions would have added so greatly to the expense of producing the work, that it would have been impossible to have given the number of Plates at the small price now asked; and extracts from descriptions so frequently lead to error that I have determined in every case to refer to the original works for all information. In preparing the Plates, however, a few notes on some of the species have (as I anticipated) appeared to me to be necessary, and these I give at the end of the Systematic Index.

With the exception of Plates 1, 4, 16, 17, 20, 23, 27, 31, 32, 42, 48, 59, 61, 89 and 98, all the figures are taken from original types. Plate 18 is figured from the type in the University Museum at Oxford. Plates 30, 37, 39, 47, 70 and 97, are from types in the Museum of the

Royal Dublin Society. The remainder are from specimens in the possession of the following gentlemen, to whom I tender my sincere thanks for the kindness with which they have placed their specimens at my disposal, and for the interest which they have taken in the work.

Mr. H. W. Bates, plate 60.

Mr. A. G. Butler, plate 21.

Mr. W. L. Distant, plates 6, 7, 24, 41, 46, 49, 50, 58, 82, 91, 100.

Mr. T. Edmonds, plates 79, 80, 87, 96.

Mr. A. Fry, plates 2, 5, 14.

Rev. H. S. Gorham, plate 45.

Mr. Higlett, plate 88.

Mr. Horniman, plates 55, 69.

Baron Hügel, plate 36.

Mr. M. Jacoby, plates 54, 62.

Mr. E. W. Janson, plates 43, 51, 52, 53, 72, 73, 76, 84, 85, 86, 95.

Mr. O. Janson, plates 29, 59, 94.

Mr. W. F. Kirby, plate 38.

Mr. R. McLachlan, plates 65, 66, 67, 71, 90, 99.

Mr. R. Meldola, plate 63.

Mr. F. Moore, plates 8, 9, 10, 11, 12, 56, 68, 81.

Mr. F. P. Pascoe, plates 19, 28, 34, 35, 44, 74, 75, 77, 78, 83, 92, 93.

Mr. E. Saunders, plates 25, 33.

Sir Sidney Smith Saunders, plates 22, 40.

Colonel Shelley, plates 3, 13.

Lord Walsingham, plates 57, 64.

SYSTEMATIC INDEX.

COLEOPTERA.

GEODEPHAGA.

Cicindelidæ.

1. *Styphloderma asperatum* Plate 51.
2. *Tetracha australis* Plate 17.

Carabidæ.

3. *Casnonia aliena* Plate 92.
4. *Percosoma sulcipenne* Plate 1.

NECROPHAGA.

Colidiidæ.

5. *Rhytinotus squamulosus* Plate 42.

Parnidæ.

6. *Psephenus Darwinii* Plate 26.

LAMELLICORNIA.

Scarabæidæ.

7. *Cephalodesmius laticollis* Plate 93.

Dynastidæ.

8. *Brachysiderus quadrimaculatus* Plate 43.

Cetoniidæ.

9. *Eutelesmus simplex*... .. Plate 13.
10. *Ischnostoma rostrata* Plate 94.
11. *Eupœcila eburneoguttata* Plate 59.
12. *Coptomia opalina* Plate 18.

SERRICORNIA.

Buprestidæ.

13. *Chrysochroa Lordi* Plate 84.
14. *Nascio carissima* Plate 95.

		Elateridæ.				
15.	<i>Alaolacon cyanipennis</i>	...	...	...	...	Plate 52.
		Cebrionidæ.				
16.	<i>Genecerus cervinus</i>	...	...	...	...	Plate 73.
		Cleridæ.				
17.	<i>Clerus lepidus</i> ...	...	...	...	...	Plate 76.
18.	<i>Epiphloeus velutinus</i>	...	...	...	...	Plate 2.
19.	<i>Lemidia obliquefasciata</i>	...	...	...	...	Plate 14.
20.	<i>Callimerus pulchellus</i>	...	...	...	...	Plate 45.
		HETEROMERA.				
		Adesmiidæ.				
21.	<i>Adesmia eburnea</i>...	...	...	...	...	Plate 19.
		Zopheridæ.				
22.	<i>Nosoderma cordicolle</i>	...	...	...	...	Plate 3.
		Ulomidæ.				
23.	<i>Latheticus oryzæ</i> ...	...	...	...	...	Plate 15.
24.	<i>Toxicum grande</i> ...	...	...	...	...	Plate 34.
		RHYNCHOPHORA.				
		Apoderidæ.				
25.	<i>Apoderus tenuissimus</i>	...	...	...	...	Plate 28.
		Naupactidæ.				
26.	<i>Naupactus stauropterus</i>	...	...	...	...	Plate 27.
		Cyphidæ.				
27.	<i>Platymus cultricollis</i>	...	...	...	...	Plate 20.
		Entimidæ.				
28.	<i>Cydianirus ornatus</i> ...	...	...	...	...	Plate 74.
		Cholidæ.				
29.	<i>Cholus hæmatostictus</i>	...	...	...	...	Plate 35.

Zygopidæ.

30. *Copturus eximius* Plate 75.

LONGICORNIA.

Cerambycidæ.

31. *Plectogaster pectinicornis* Plate 60.
 32. *Epania pusio* Plate 77.
 33. *Earinis picta* Plate 78.
 34. *Pachyteria Hügeli* Plate 36.
 35. *Chenoderus tricolor* Plate 4.

Lamiidæ.

36. *Peribasis princeps* Plate 44.
 37. *Laehnia subineta* Plate 5.
 38. *Cyclopeplus cyaneus* Plate 61.

PHYTOPHAGA.

Chrysomelidæ.

39. *Doryphora porosa* Plate 54.
 40. *Doryphora costata* Plate 62.

Cassididæ.

41. *Dolichotoma gloriosa* Plate 53.

PSEUDOTRIMERA.

Coccinellidæ.

42. *Epilachna Buckleyi* Plate 86.

Erotylidæ.

43. *Pselaphicus nicaraguae* Plate 72.

Languriidæ.

44. *Callilanguria luzonica* Plate 85.

HYMENOPTERA.

Tenthredinidæ.

45. *Parastatis indica* Plate 68.
 46. *Hylotoma interstitialis* Plate 81.

		Chalcididæ.			
47.	Halticella osmicida ...	...	...	...	Plate 40.
		Chrysididæ.			
48.	Homalus nanus ...	...	...	...	Plate 22.
		LEPIDOPTERA.			
		Nymphalidæ.			
49.	Opsiphanes bogotanus ...	...	...	...	Plate 55.
50.	Diadema antevorta ...	...	...	...	Plate 69.
51.	Tanaëcia flora ...	...	...	...	Plate 21.
52.	Castalia chandra ...	...	...	...	Plate 8.
		Lycænidæ.			
53.	Scolitantides plumbea ...	...	...	...	Plate 79.
54.	Iolaus (Purlisa) gigantea ...	...	...	...	Plate 46.
		Pieridæ.			
55.	Thyca berinda ...	...	...	...	Plate 12.
		Hesperidæ.			
56.	Entheus Marshalli ...	...	...	...	Plate 37.
57.	Butleria sotoi ...	...	...	...	Plate 80.
58.	Butleria cauquenensis ...	...	...	...	Plate 87.
59.	Butleria vicina ...	...	...	...	Plate 96.
		Sphingidæ.			
60.	Pergesa castanea ...	...	...	...	Plate 56.
61.	Charocampa johanna ...	...	...	...	Plate 38.
62.	Charocampa aspersata ...	...	...	...	Plate 97.
63.	Pholus hesperidum ...	...	...	...	Plate 47.
64.	Protoparce dalica ...	...	...	...	Plate 70.
		Agaristidæ.			
65.	Ægocera tripartita ...	...	...	...	Plate 39.
		Arctiidæ.			
66.	Histiocæ Meldolæ ...	...	...	...	Plate 63.

Saturniidæ.

67. *Antheræa macrophthalma* Plate 88.
 68. *Eudæmonia argiphontes* Plate 30.

Lasiocampidæ.

69. *Brahmæa nigrans* Plate 29.
 70. *Ormiscodes crinita* Plate 98.
 71. *Catocephala?* *nigrosignata* Plate 89.

Noctuidæ.

72. *Gonophora indica* Plate 9.
 73. *Auchmis sikkimensis* Plate 13.
 74. *Calliodes lanipes* Plate 48.

Geometridæ.

75. *Euschema andamana* Plate 11.

Tortricidæ.

76. *Stigmonota erectana* Plate 64.

Tineidæ.

77. *Antispila Rivillei* Plate 57.

DIPTERA.

Syrphidæ.

78. *Volucella obesa* Plate 31.

NEUROPTERA.

Ascalaphidæ.

79. *Helcopteryx rhodiogramma* Plate 67.
 80. *Ascalaphus Ramburi* Plate 99.

Osmylidæ.

81. *Osmylus Langii* Plate 71.
 82. *Osmylus multiguttatus* Plate 90.

Libellulidæ.

83. *Palpopleura fasciata* Plate 32.

		Calopterygidae.			
84, 85.	<i>Euthore mirabilis</i>	...	...	...	Plates 65, 66.
		ORTHOPTERA.			
		Acridiidae.			
86.	<i>Opsomala filiformis</i>	...	...	...	Plate 23.
		HEMIPTERA.			
		Pentatomidae.			
87.	<i>Aplerotus maculatus</i>	...	...	...	Plate 16.
88.	<i>Bathycœlia distincta</i>	...	...	...	Plate 7.
		Edessidae.			
89.	<i>Tesseractoma æthiops</i>	...	...	...	Plate 49.
		Phyllocephalidae.			
90.	<i>Macrina dilatata</i>	...	...	...	Plate 6.
		Coreidae.			
91.	<i>Euagona junco</i>	...	...	...	Plate 82.
92.	<i>Alydus tangiricus</i>	...	...	...	Plate 33.
93.	<i>Harmostes incisuratus</i>	...	...	...	Plate 91.
		Capsidae.			
94.	<i>Myrmecoris Saundersi</i>	...	...	...	Plate 25.
		HOMOPTERA.			
		Cicadidae.			
95.	<i>Cicada kuruduadua</i>	...	...	...	Plate 100.
		Cercopidae.			
96.	<i>Tomaspis nyassæ</i>	...	...	...	Plate 24.
97.	<i>Cosmoscarta andamana</i>	...	...	...	Plate 58.
		Fulgoridae.			
98.	<i>Aphana novemmaculata</i>	...	...	...	Plate 50.
99.	<i>Polydictya maculata</i>	...	...	...	Plate 41.
		Flatidae.			
100.	<i>Pæcilloptera consociata</i>	...	...	...	Plate 83.

STYPHLODERMA ASPERATUM. Plate 5.

The specimen figured is a female. The male appears always to have two rusty yellow spots on each elytron. The anterior and posterior margins of the thorax are beset with minute granules, a character which distinguishes it from *S. lævicolle*, Waterhouse, which has a smooth thorax.

TETRACHA AUSTRALIS. Plate 17.

This beautiful species was found far in the interior of Australia in considerable numbers, by Mr. F. G. Waterhouse, the Curator of the South Australian Museum. The figure is taken from an example sent by him to the Editor. It was described in Australia by M. Castelnau under the name *Tetracha Waterhousei*; but specimens having been sent to Europe, it was first described by Baron Chaudoir, under the name *T. australis*.

CASNONIA ALIENA. Plate 92.

This species has an impressed arcuate line on each side of the thorax, a character in which it appears to differ from all the other species of the genus.

PERCOSOMA SULCIPENNE. Plate 1.

The specimen from which this insect is figured was one of the same series as that from which Mr. Bates obtained his example.

PSEPHENUS DARWINI. Plate 26.

The figure is taken from the specimen described by the Editor. It was taken by Dr. Darwin some fifty years ago in Rio Janeiro. He found some specimens in water under stones. The only example which has been preserved was until lately in Mr. G. R. Waterhouse's collection, but is now in the British Museum.

RHYTINOTUS SQUAMULOSUS. Plate 42.

This singular insect is figured from an example in Mr. Pascoe's collection.

BRACHYSIDERUS QUADRIMACULATUS. Plate 43.

This most interesting species is now in the possession of Mr. David Sharp, of Thornhill, Dumfries.

EUPECILA EBURNEOGUTTATA. Plate 59.

Figured from an example in Mr. Janson's collection. This species has received a second name, *Lenosoma incana*, Meleay, but M. Blanchard's has the priority. This species should be placed in the genus *Lenosoma*.

COPTOMIA OPALINA. Plate 18.

By the kindness of Professor Westwood, I am enabled to figure this species from the original type. It was described under the name *Cetonia opalina*, but in modern catalogues is placed in the genus *Coptomia*. In some continental collections this species is represented by a common species from Madagascar (*Coptomia mutabilis*, Waterhouse), from which it can at once be distinguished by the form of the sternal process (given on the right side of the plate), and by the striation of the pygidium, figured on the left side of the plate. The type specimen bears the label 'Mauritius?,' and I know of no authority for Madagascar as its true habitat, as given by Gory, although it seems more probable than Mauritius.

GENECERUS CERVINUS. Plate 73.

Specimens of this species have lately been received at the British Museum, from Arabia.

CLERUS LEPIDUS. Plate 76.

Besides the type specimen figured, Mr. Janson has a second, smaller example, which differs in the absence of the spots at the middle of the elytra. To facilitate the determination of the species enlarged drawings are given of the antenna, of the front tarsus (on the left of the plate), and of the posterior tarsus on the right of the plate.

LATHETICUS ORYZÆ. Plate 15.

It is impossible at present to decide whence this species originally came, but its natural food appears to be rice, although it has been found in other grain. It has been received from India and Arabia, and on one occasion was taken in a sweeping net in a corn field in England.

APODERUS TENUISSIMUS. Plate 28.

In the three males of this species which have come under my notice there is a slight variation in the length of the neck.

PLECTOGASTER PECTINICORNIS. Plate 60.

I consider this to be one of the most interesting species that I have had the opportunity of figuring. I only know of two specimens of the species, both females, in Mr. H. W. Bates' collection. The male is still unknown, and will probably have the antennæ still more strongly pectinated. There is in the British Museum an example (also a female), of an allied species from East Africa.

EPANIO PUSIO. Plate 77.

The hairs on the posterior femora are much longer than in the figure they are represented to be.

LACHNIA SUBCINCTA. Plate 5.

The type specimen of this species is in Mr. A. Fry's collection. It is an insect which appears to have been overlooked by modern authors, as no mention is made of it in Lacordaire's 'Genera des Coléoptères,' nor in Gemminger and von Harold's 'Catalogus Coleopterorum.' It should be placed next to the genus *Tybalmia*.

CYCLOPEPLUS CYANEUS. Plate 61.

This species is figured from an example in Mr. Janson's collection. Some specimens are entirely blue.

HALTICELLA OSMICIDA. Plate 40.

This insect is parasitic upon *Osmia tridentata*. The upper figure represents the female ; an enlarged view of the posterior leg is given on the right of the plate. The lower figure is the male.

HOMALUS NANUS. Plate 22.

This small but most beautiful insect is parasitic upon *Nitelopsis pisonoides*. The specimen from which the figure is taken was bred from that insect by Sir Sidney Smith Saunders.

ANTHERÆA MACROPHALMA. Plate 88.

This species is figured from the type specimen, which is in very bad condition, some parts of the wings being almost destitute of scales. I think, however, that Mr. Wilson has given a very good representation of the insect as 'restored.'

EUDÆMONIA ARGIPHONTES. Plate 30.

Some copies of this plate were issued in which a small detached spot in the front wings was accidentally omitted. It is very small and should be between the dark basal stripe and the four discoidal spots.

BRAHMÆA NIGRANS. Plate 29.

As there are important characters in the markings of the wings on the underside of this species, one pair of wings has been represented as detached and reversed.

GONOPHORA INDICA. Plate 9.

This species was figured from the type specimen, which has imperfect antennæ, and is otherwise not in good condition ; but it was the only example available.

CALLIODES LANIPES. Plate 48.

This species is figured from an example determined by Mr. Butler. The body of the specimen was much mutilated, but I think is faithfully restored.

EUSCHEMA ANDAMANA. Plate 11.

I have seen several specimens of this species from the Andaman Islands. They differ somewhat from each other and from the type.

STIGMONOTA ERECTANA. Plate 64.

This species is closely allied to *S. internana*. The figure is taken from the unique example in Lord Walsingham's collection. Mr. Barrett states that this specimen was "taken by the Hon. Beatrice de Grey among broom (*Spartium scoparium*) in Norfolk."

OSMYLUS MULTIGUTTATUS. Plate 90.

The specimens of this species in Mr. McLachlan's collection vary somewhat. The spots are frequently larger than in the one figured. The wings have a beautiful green and pink iridescence which it is impossible to represent in a drawing.

BATHYCELIA DISTINCTA. Plate 7.

The type specimen from which this species is figured, wants the two apical joints of the antennæ; these are, therefore, only indicated by dotted lines.

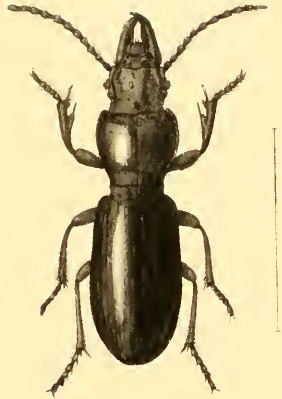
APHANA NOVEMMACULATA. Plate 50.

By an unfortunate oversight some copies of this plate were issued in which the *ninth* spot on the thorax was omitted. This should be at the extreme posterior point.

LONDON, *Feb. 24th, 1882.*

INDEX TO GENERA.

	PLATE		PLATE		PLATE
Adesmia ...	19	Cyclopeplus ...	61	Nosoderma ...	3
Ægocera ...	39	Cyodianirus ...	74	Opsiphanes ...	55
Alaolacon ...	52	Diadema ...	69	Opsomala ...	23
Alydus ...	33	Dolichotoma ...	53	Ormiscodes ...	98
Antheræa ...	88	Doryphora ...	54, 62	Osmylus ...	71, 90
Antispila ...	57	Earinis ...	78	Pachyteria ...	36
Aphana ...	50	Entheus ...	37	Palpopleura ...	32
Aplerotus ...	16	Epanea ...	77	Parastatis ...	68
Apoderus ...	28	Epilachna ...	86	Percosoma ...	1
Ascalaphus ...	99	Epiphloeus ...	2	Pergesa ...	56
Auchmis ...	10	Euagona ...	82	Peribasis ...	44
Bathycœlia ...	7	Eudæmonia ...	30	Pholus ...	47
Brachysiderus ...	43	Eupœcila ...	59	Platyomus ...	20
Brahmæa ...	29	Euschema ...	11	Plectogaster ...	60
Butleria ...	80, 87, 96	Eutelesmus ...	13	Pœcilopectera ...	83
Callilanguria ...	85	Euthore ...	65, 66	Polydictya ...	41
Callimerus ...	45	Genecerus ...	73	Protoparce ...	70
Calliodes ...	48	Gonophora ...	9	Pselaphacus ...	72
Casnomia ...	92	Halticella ...	40	Psephenus ...	26
Castalia ...	8	Harmostes ...	91	Purlisa (<i>Iolaus</i>) ...	46
Catocephala ...	89	Helcopteryx ...	67	Rhytinotus ...	42
Cephalodesmius ...	93	Histioëa ...	63	Scolitantides ...	79
Chærocampa ...	38, 97	Homalus ...	22	Stigmonota ...	64
Chenoderus ...	4	Hylotoma ...	81	Styphloderma ...	51
Cholus ...	35	Ischnostoma ...	94	Tanaëcia ...	21
Chrysochroa ...	84	Lachnia ...	5	Tesseratoma ...	49
Cicada ...	100	Latheticus ...	15	Tetracha ...	17
Clerus ...	76	Lemidia ...	14	Thyca ...	12
Cosmoscarta ...	58	Macrina ...	6	Tomaspis ...	24
Coptomia ...	18	Myrmecoris ...	25	Toxicum ...	34
Copturus ...	75	Nascio ...	95	Volucella ...	31
		Naupactus ...	27		



Fercosoma semicarpina
Bates, Aust Ent., II (1878), p. 207
Tasmania

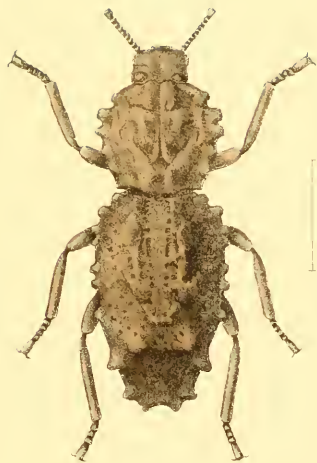


Epiphloeus velutinus.

Graham, Trans. Ent. Soc., 1877, p. 247

Amazons



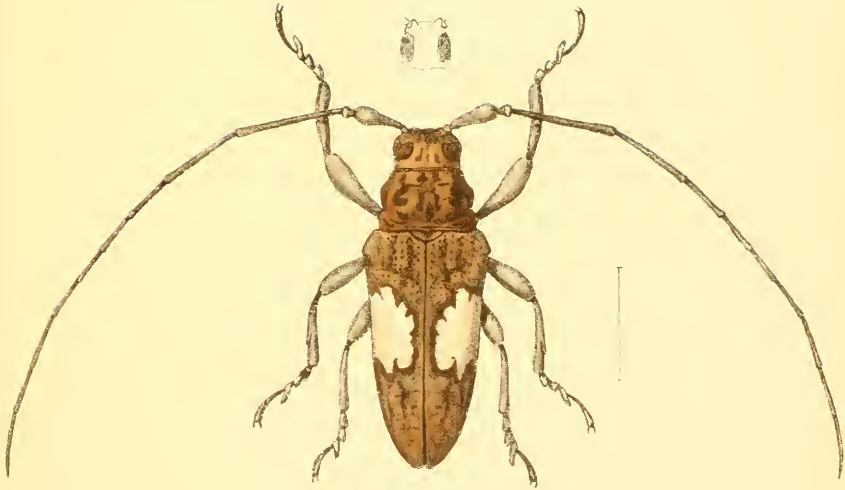


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Waterhouse and Magill, 1877, p. 214
 East Africa

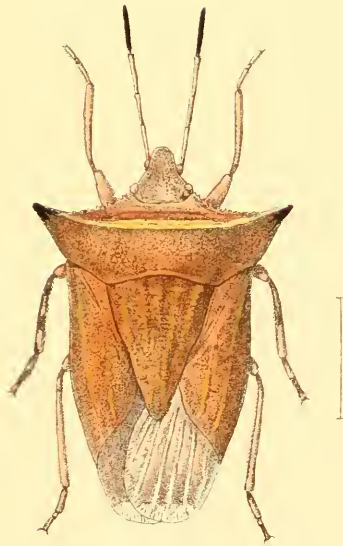




Chenoderus
Edwards, Ann. Soc. Ent. Fr. 1858, p. 50
Cm.

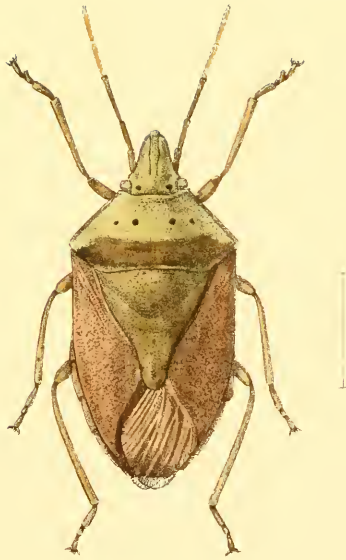


Lechia variegata,
Serville, *Ann. Soc. Ent. Fr.* (1835), p. 64.
Cayenne.



Macrina dilatata,
Distant Ann. & Mag. Nat. Hist., III, (1879), p. 52
W India

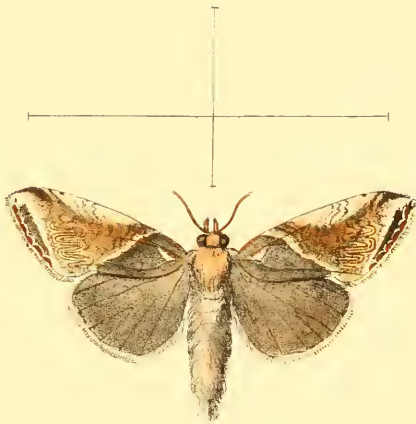
Aid



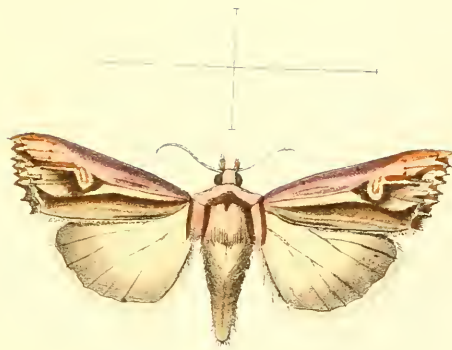
Bathycocelus distinctus,
Distans, Ent Mo Mag, xiv (1878) p 247.
W. Africa



Cassia Inochea, ♀,
Mour. Nat. Hist. Ind. Co. I. 1857, p. 77.
Nepal



Gonophora indica.
Moore. Proc Zool Soc. 1867, p.44
Darjeeling.

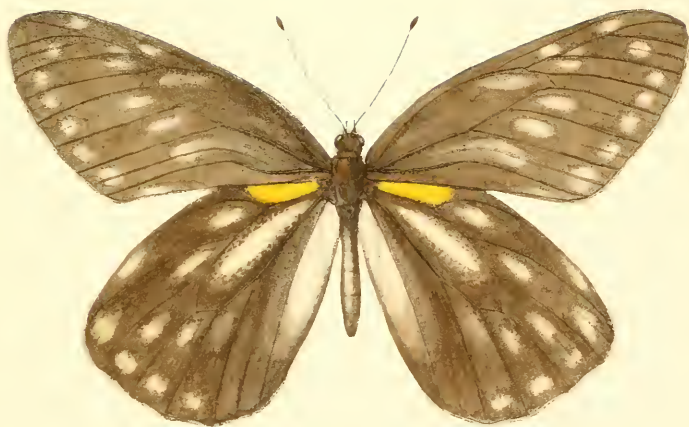


Anomima sikkimensis.
Ann. Proc. Zool. Soc. (1867) p49.
Darjeeling.

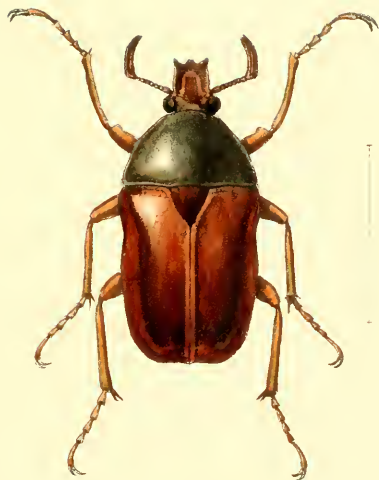




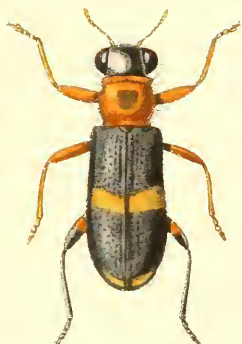
Euschema andamana,
Moore, Proc. Zool Soc., (1877), p. 599
Andaman Is.



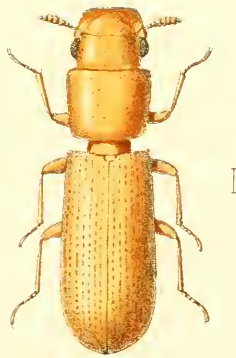
Pieris garinda, ♀,
Moore Proc. Ent. Soc. (1872), p. 566
Khaasia Hills



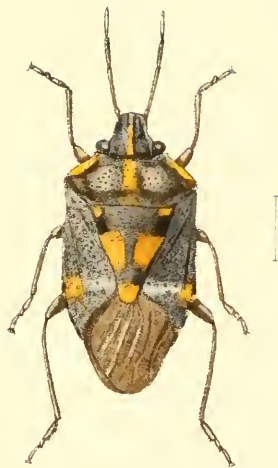
Eucinetus simplex.
Waterhouse, *Ann. Mag. N. Hist.*, 1859, VI, p. 33
East Africa



Lembia obliquefasciata,
Forster, *Trans Ent Soc* (1877), p. 57
N W Australia

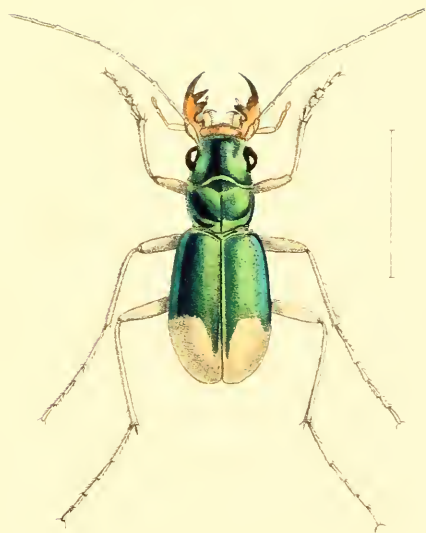


Latheticus oryzae.
Waterhouse, Ann & Mag. N. Hist., V (1880), p. 148.
India, England, &c.



Aplerctus maculatus.
Dallas, Cat. Hem. Brit. Mus., I. (1851), p. 256.
Australia

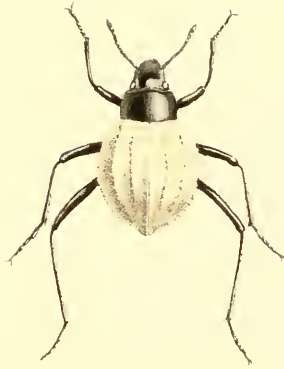




Tetracha australis.
Chaudoir, Cat. Coll. Cicind. (1865) p. 63.
Interior of Australia.

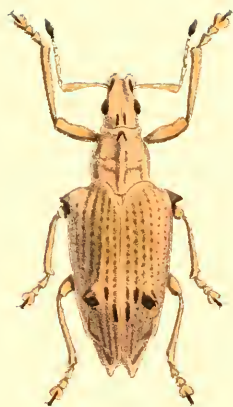


Eptonia spalina
Gory & Percheron, Monograph., (1833), p. 255.
 Mauritius



Adesmia eburnea
Pascoe, Journ. of Ent., II, (1866), p. 449
Lake N' Gami





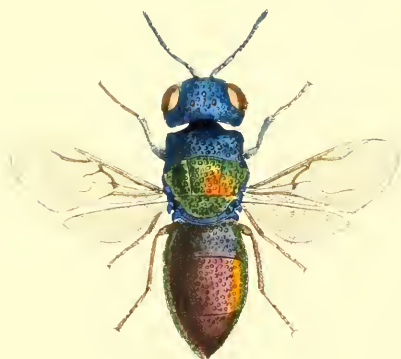
Platyomus cultricolis.
Germer, Irs. Sp. Nov., (1824), p. 432
Brazil.





Tanaëcia flora,
M.R. Butler, Proc. Zool. Soc., (1879), p. 235
Penang.

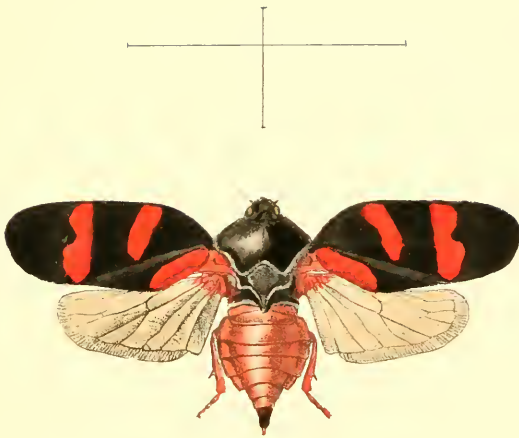




Homalium nanus,
Saunders, Trans. Ent. Soc., (1873), p. 41
 Ionian Islands.



Opsonia filiformis,
Cerville *Hist Nat Orthop* (1839), p. 596
Brazil



Tomaspis nyassæ.
Distant, Trans. Ent. Soc., (1878), p. 177.
Lake Nyassa.



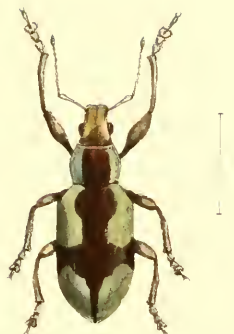
Aid



Myrmecoris Saundersi
Futon, Proc. Nov. Ent., (1874), p. 452.
Greece.

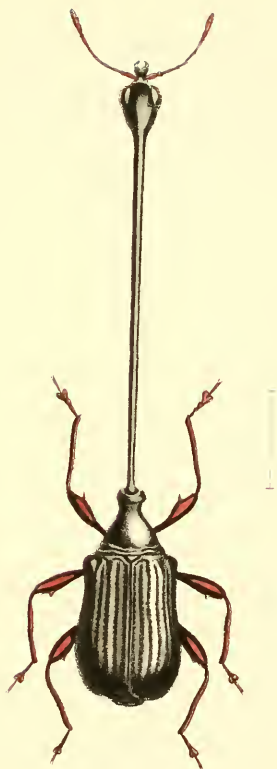


Psephenus L. arwini
Watershouse, Cust. Ent., II (1890), p. 503.
Rio Janeiro



Naupactus stauropus
Germar, Ins. Sp. Nov., (1824), p. 419.
Brazil.



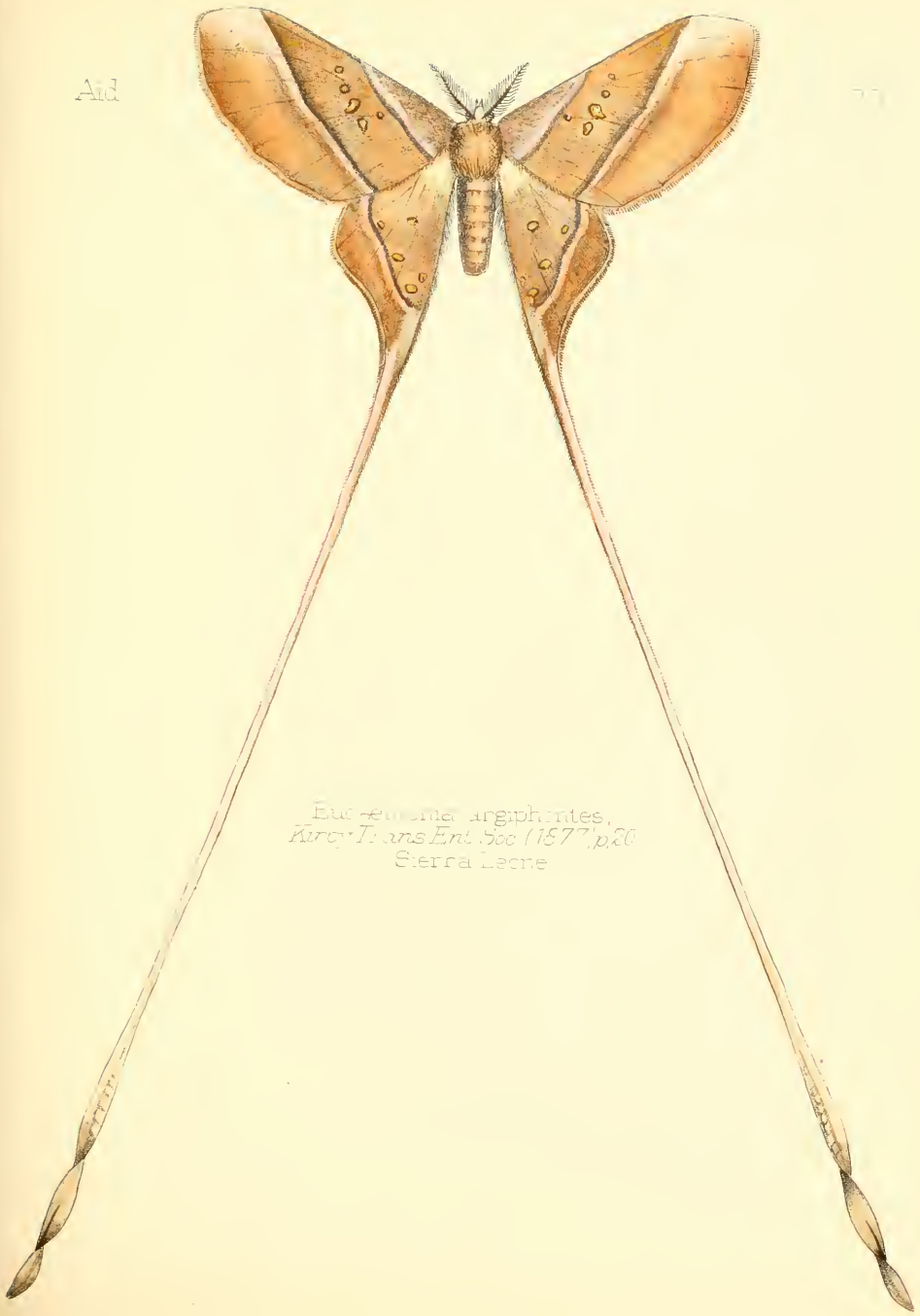


Apoderus leucostomus,
Pascos, Dist. Ent., II, 1831, p. 59c
Philippine Islands

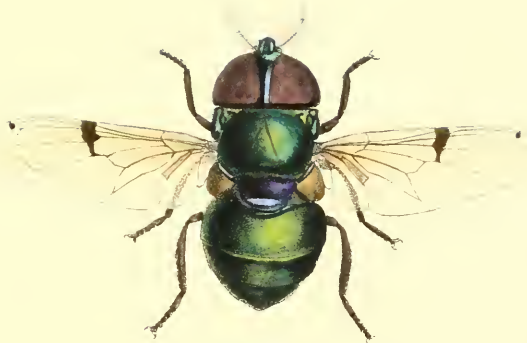




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Japan



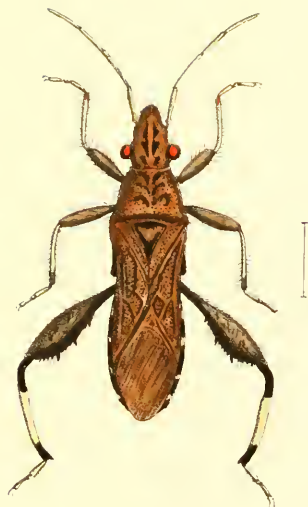
Euclyptus argiphantes,
Kirby, *Trans. Ent. Soc.* (1877), p. 26
Sierra Leone



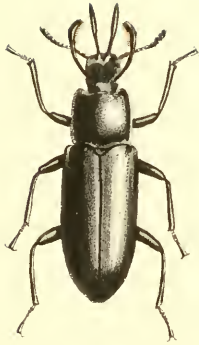
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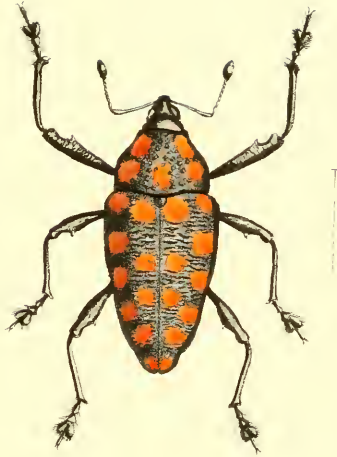
Polyura argyrea
Linn. Syst. Nat. II, 1758, p. 108.
Frans.



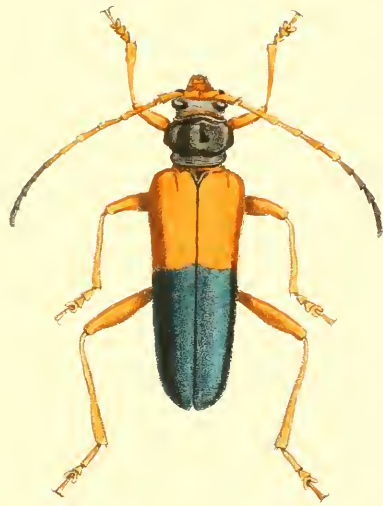
Alysius tangirois
Sav. & Pers. Ent. Mo. Mag. XIV, (1877) p. 104
Tangiers



Trox longicornis
Forst. & Mag. Nat. Hist. III, 1771, p. 365.
Borneo.



Cholus haematus
Pascoe, Journ. Linn. Soc., 1872, p. 469.
Bogota



Fachylisma Hugeni
Spec. Annot. & Mag. Nat. Hist. VII (1881), p. 98
Java



Entheus Marshalli
Kirby, Soc. Proc. Roy. Dublin, Soc. II (1830) p. 339
Trinidad



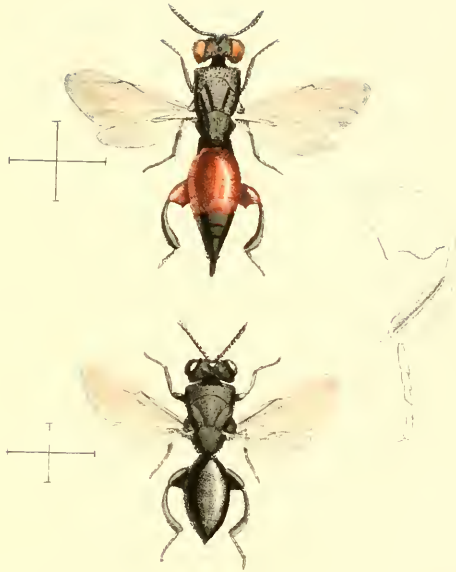


Phaenocarpa inflexa
Act. Trans. Ent. Soc. Lond., p. 241
Queensland

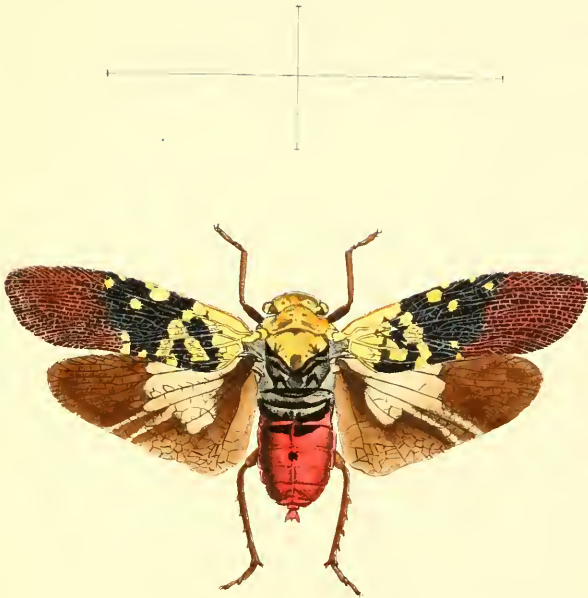




Egocera tripartita,
Kerby Sci. Proc. Roy. Dublin. Soc., II (1880), p. 339
India.



Halticella osmicida,
Saunders, Trans. Ent. Soc. (1873), p. 414
S Europe

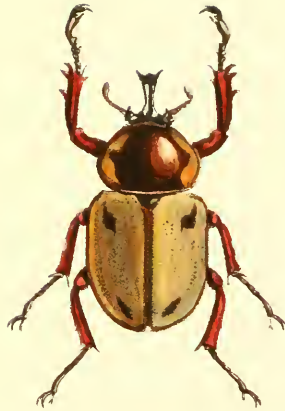


Polydictya maculata,
Listari. Trans. Ent. Soc., (1878), p. 323.
West Africa.



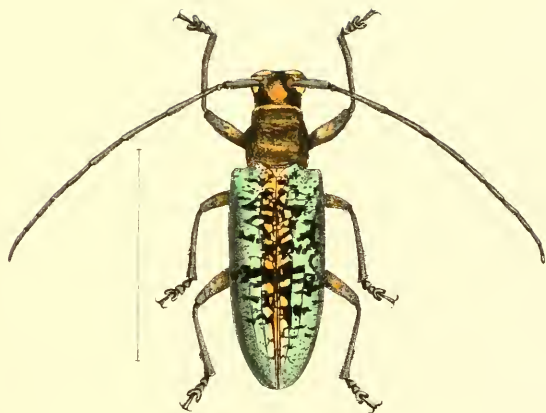
Rhytinotus squamulosus
Broun, Mon. N. Zeal. Coleopt., (1880), p. 204.
New Zealand





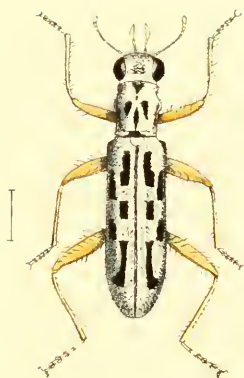
Brachysiderus quadrimaculatus.
Waterhouse, Ann. & Mag. N. Hist. VII, (1881), p. 410
Amazons.





Peribasis princeps,
Pascoe, Ann & Mag N Hist, II, (1878), p. 373
Labuan





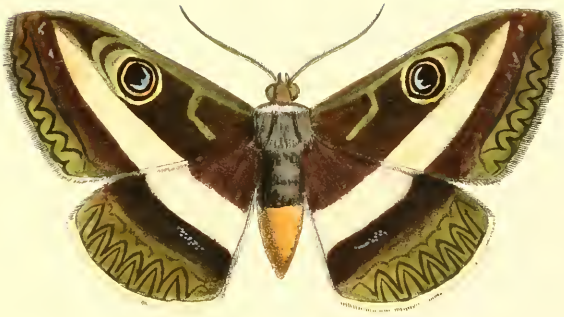
Callimerus pulchellus
Gorham, Cat. Ent. II (1876), p. 67.
Philippine Islands



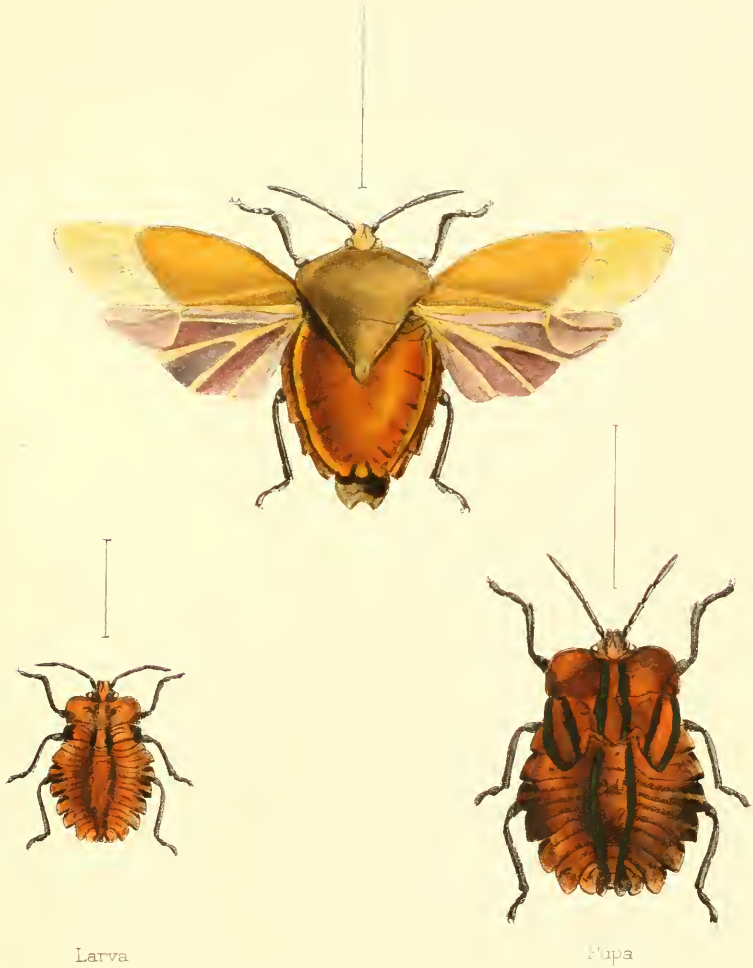
Furlisa gigantea,
Distant Ent. Mo Mag. XVII, (1881), p. 245
Penang



Phloxes vesperidum
Kirtz. Sci. Proc. Roy. Dublin Soc. II (1851) p. 539.
Jamaica



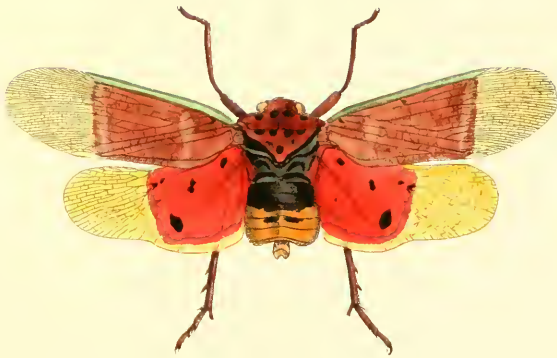
Calliodes lanipes,
Butler, Ent. Mo. Mag., XIV, (1877), p. 109.
Queensland



Larva

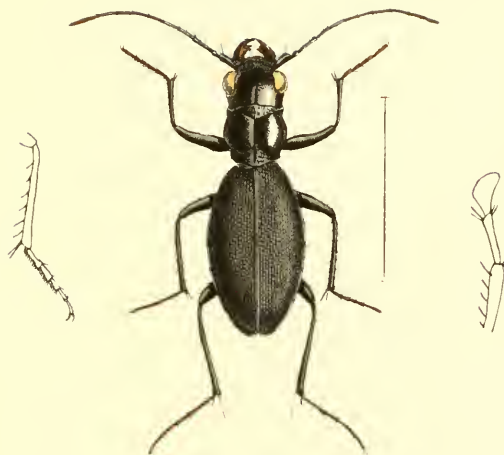
Pupa

Tesseratoma aethiops,
Distant Ent. Mo. Mag., XIV, (1877), p. 62.
W. Africa.

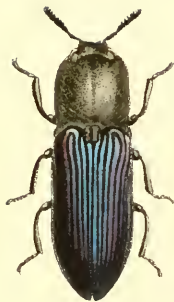


Aphaea novemmaculata
Distant, Trans Ent Soc., (1878), p 323
W Africa

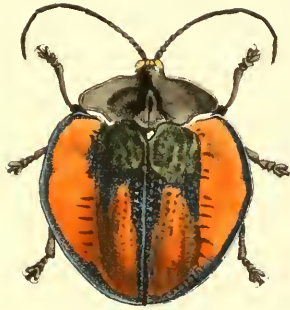




Styphloderma asperatum,
Waterhouse, Ann. & Mag. N. Hist., XX (1877), p. 424
Lake Nyassa.



Alaobion cyanipennis,
Cardèze, *Mem. Ac. Belg.*, XVII (1865) p. 25
Malacca.



Dolichotoma gloriosa
Baly, Trans Ent. Soc., V, (1859), p. 160
Peru

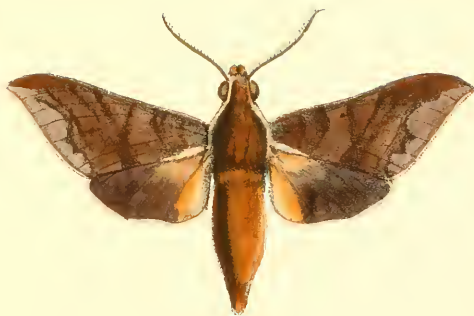


Doryphora porosa,
Jacoby Proc. Zool. Soc., (1873), p. 396
Colombia



Opsiphanes bogotanus,
Distant, Ent. Mo. Mag., XI. (1875) p. 203.
Bogota.





Pergesa castanea,
Moore, Proc. Zool. Soc., (1872), p. 56.
Bombay



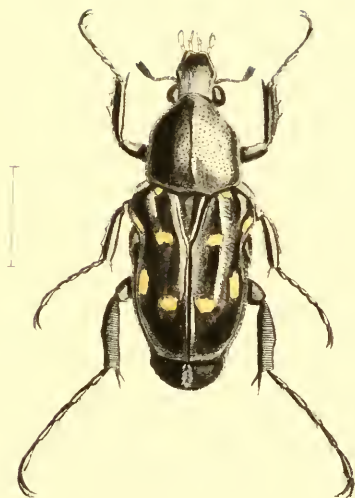
Antispila Fivillei,
Stanton, Trans Ent Soc, III. (1855) p 89.
S. Europe.





Cosmoscarta andamana,
Distant, Trans Ent. Soc., (1878), p. 175.
Andaman Is.

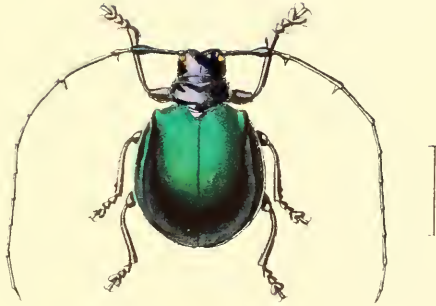




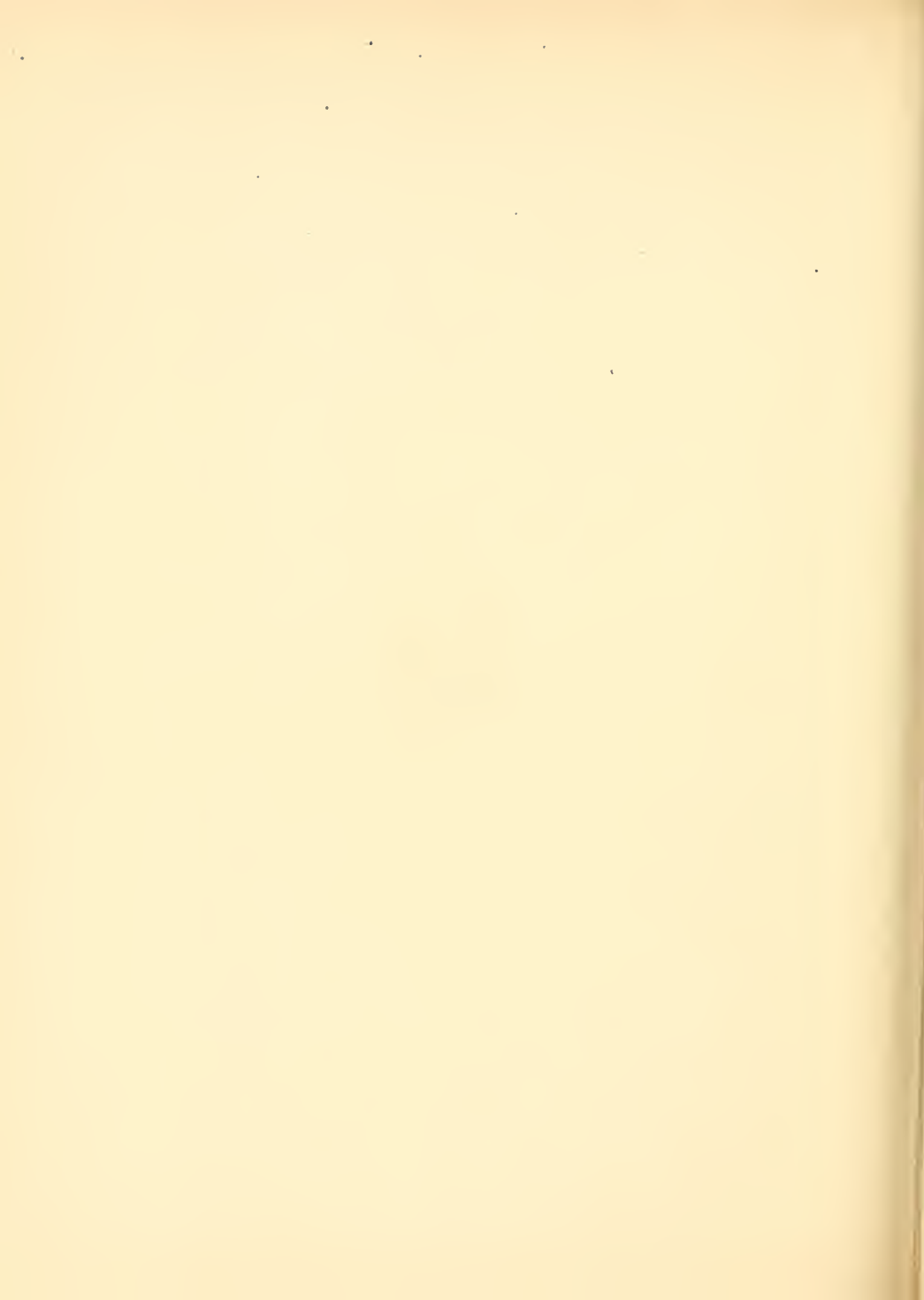
Eupœcila eburneoguttata,
Blanchard, Cat. Mus. Paris, (1850) p. 23
Queensland



Heterogaster pectator,
Ann. Trans. Ent. Soc., 1881, p. 110
Camaroons

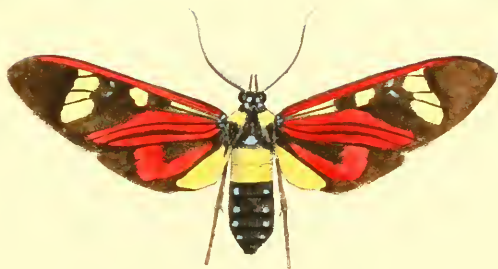


Cyclopeplus cyaneus,
Thomson, Classif. Longic., (1860), p. 33.
Amazons.

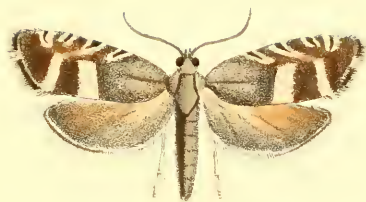




Doryphora costata,
Jacoby, Proc. Zool. Soc., (1876), p. 316,
Colombia.

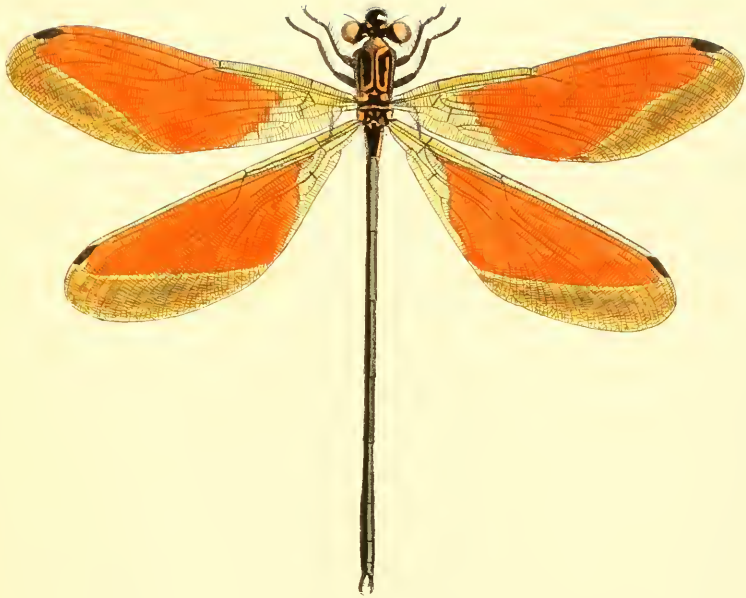


Hestioëa Meldolæ,
Butler Journ. Linn. Soc., XII (1876) p. 362.
Trinidad.



Stigmatala erectana,
Barrett, Ent. Mo. Mag., XIII. (1875), p. 8
England





Euthore mirabilis, ♂.
M. Lachlan, Trans. Ent. Soc., (1878) p. 87
Ecuador



Euthore mirabilis, ♀.
M^r Lachlan, Trans Ent Soc, (1878), p. 81
Ecuador.



Helcopteryx rhodiogramma,
Rambur, Hist. Nat. Ins. New., (1842) p 355.
Natal.



Parastatus indica,
Kirby, Ent. Mo. Mag., XVIII, (1881), p. 107.
India.



Diadema antevorta,
Distant, Proc Zool Soc., 1879, i: 703.
E Africa



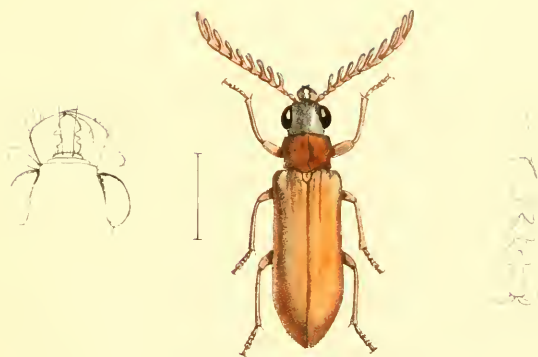
Protoparce dalica,
Kirby, Trans. Ent. Soc., (1877) p 243
Canada



Osmylus Langii,
Ms. Lachlan, Ent. Mo Mag., VI. (1870) p. 197.
Masuri.



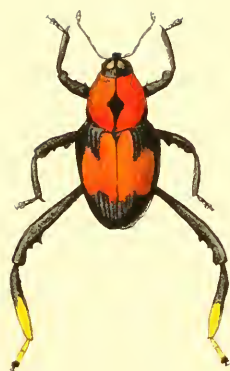
Pselaphacus nicaraguæ,
Crotch, Cist. Ent., I. (1873), p. 142
Nicaragua.



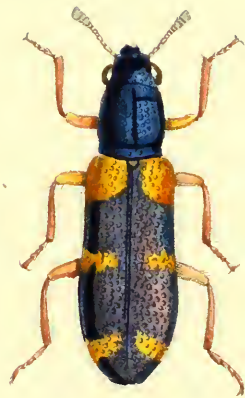
Genecerus cervinus,
Walker, Coleopt. collected by J. K. Lord, (1871), p. 74
Egypt



Cydianurus ornatus,
Pascoe, Ann. & Mag. Nat. Hist. VII, (1881), p. 200
Brazil



Copturus eximius,
Pascoe, Ann. & Mag. Nat. Hist., V. (1880) p. 498.
Colombia.

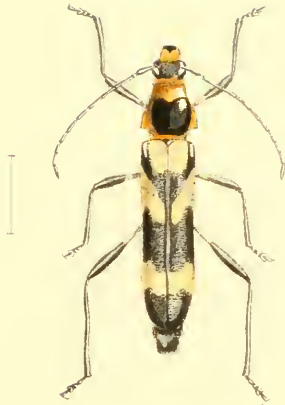


Clerus lepidus,
Walker, Collect. coll. by J. K. Lord, (1871) p. 14
Egypt





Epania pusio,
Fascoe, Trans. Ent. Soc. III, (1869), p. 567.
Singapore



Earias picta
Pasco, Ann. & Mag. Nat. Hist. NSW, 1871
New South Wales.



Scotantides plumbea,
Butler, Trans. Ent. Soc., (1881), p. 486.
Chili



Butleria sotoi,
Reed, Mon. Mariposas Chilenas, (1877), p. 86.
Chili.



Hylotoma interstitialis,
Cameron, Trans. Ent. Soc., (1877), p. 91.
India.



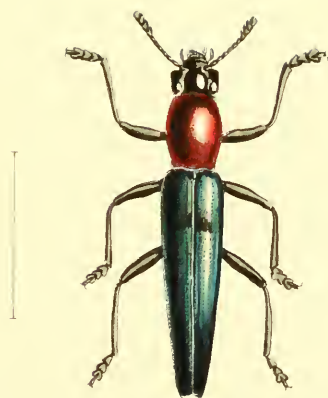
Euagona juno,
Distant, Trans. Ent. Soc., (1881), p. 394.
Peru



Pœciloptera consociata,
Walker, Journ. of Ent., I., (1862), p. 314.
Batchian.



Chrysochroa Lordi,
Walker, Coleopt. coll. by J. K. Lord, (1871), p. 13.
Egypt



Callilangunia luzonica,
rotch, *Cistula, Ent.*, I, (1875), p. 381.
Philippine Is



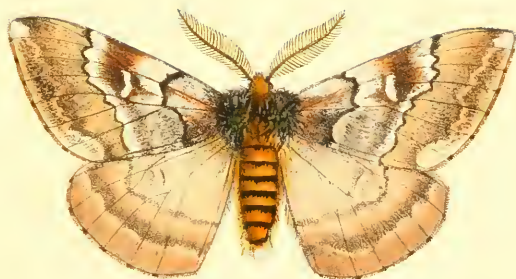
Scarabaeus *laevigatus*
Cast. Annot. Zool. Bot., 1824, p. 57
Ecuador.



Butleria cauquenensis,
Fees, *Mon. Mariposas Chilenas*, (1877), p. 87
Chili



Antheraea macroplatalma,
Kirby, *Ent. Mo. Mag.*, XVIII (1881), p. 146
West Africa.



Catocephala ? *nigrosignata*,
Philippi, Linn. Ent., XIV, (1860), p. 285.
Chil



Osmylus inuitigutata-
M^c Lachlan, Ent. Mo. Mag., VI, (1870), p. 195
Trebizond



Harmostes incisuratus,
Distant, Trans. Ent. Soc., (1881), p. 395.
Colombia



Casnoria aliena,
Pascoe, Journ. of Ent. I, ('860), p. 39
Moreton Bay

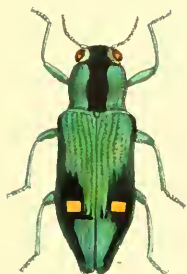


Exopalcaesmus laurionis,
Pisces, Journ. of Ent., II, (1866) p. 27
 Queensland.





Ischnostoma rostrata,
O. Janson, Cist. Ent., II, (1878), p. 299
Caffraria.



Nascio carissima,
Muirhouse, Ann. & Mag. Nat. Hist., IX, (1882) p. 50
North Australia.



Butleria vicina,
Feed. Mon. Mariposas, Chilenus, (1877), p. 88
Cruh



Chenopodipha asperata
Gray, *Trans. Ent. Soc.*, 1857, p. 241
Am. nat. Islands



Phalaena strigata,
Guichenot, *Ann. Soc. de Chil.* 12, (1854), p. 6.
 Chil.



Ascalaphus flammeus.
McLachlan, Trans Ent Soc. 11878, p. 177
Japan.



Cicada kuruduadua,
Australian Trans. Ent. Soc., (1882), p. 645
Fiji Islands.



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