

XII. *Descriptions of some new Species of Coleopterous Insects belonging to the Eupodous Phytophaga, Natives of the Old World and Australia.* By J. O. WESTWOOD, M.A., F.L.S., &c.

[Read 3rd September and 7th November, 1864.]

THE following pages contain descriptions of a number of new species of Coleopterous insects, belonging to the sub-families *Sagrides* and *Megalopides*, interesting for their geographical position. As the *Megalopides* are almost exclusively natives of the New World, the genera *Pœcilomorpha*, *Temnaspis* and *Leucastea* (to which the major part of the species subsequently described belong) may be considered as their Old World representatives. The species are generally of varied colours.

Genus MECYNODERA, Hope.

Sp. 1. *Mecynodera Balyi*.

Picta brevior et pro magnitudine latior; læte fulva, capite, antennis, pedibus (basi femorum excepta) et maculis prothoracis et elytrorum nigris; tota glabra, nitida, et fere lævis; prothorace subquadrato, macula magna discoidali, in qua lunula profunde impressa, angulisque anticis nigris; elytris macula scutellari, semicirculo nigro (lineam curvatam punctorum valde impressorum includentem), macula subhumerali, fascia ultra medium lateraliter profunde punctata, maculisque duabus subapicalibus, nigris; metasterno intra pedes medios valde porrecto.

Long. fere $\frac{1}{2}$ unc.

Habitat in Nova Hollandia, Hunter's River, D. Horsley. In Mus. Hopeiano Oxoniæ, olim nostro, Melly, H. Clark, &c.

Although I have been acquainted with this species more than twenty years, and had applied to it the specific name of *M. sculptilis*, I cordially adopt the name used above proposed for the species by the Rev. Hamlet Clark.*

* [Since the first part of this paper was read, a description and figure of *Mecynodera Balyi* have been published by the Rev. H. Clark in the Journ. of Entom. ii. 248.—*Sec. Ent. Soc.*]

Genus AMETALLA, Hope.

Sp. 1. *Ametalla W-nigra*.

A. Spinolæ brevior et robustior, et *A. stenodera* crassior et paullo major; prothorace subcordato, angulis posticis extus paullo productis; nigra, subtus cum pedibus vix griseo-sericans, antennis (apice nigris), tibiis tarsisque obscure rufis; facie carina tenui polita inter oculos; prothorace punctis minutis obsito, medio late at non profunde impresso, rufescenti, disco angulisque anticis nigris; elytris subconvexis, fulvis, macula magna basali irregulari W simulante, fascia irregulari media apicibusque nigris; femoribus obscure rufis, posticis permagnis, macula magna nigra media notatis.

Long. corp. lin. 4.

Habitat in Nova Hollandia, Swan River. In Mus. Hopeiano Oxoniæ.

Genus PÆCILOMORPHA, Hope.

Sp. 1. *Pæcilomorpha Westermanni*.

Oblonga; elytris elongatis; capite porrecto; antennis brevibus, nigro-setosis, articulis 3io et 4to brevibus, 7 ultimis incrassatis, serratis, ultimis paullo minoribus; fulva, aureo-setosa; labro, fascia clypei, linea verticali longitudinali et per medium pronoti extensa, antennis, scutello, maculaque apicali elytrorum nigris; elytris punctatis; corpore infra piceo, impunctato, nitido; metasterno impressione profunda postica; pedibus piceo-nigris, femoribus magis rufescentibus; coxis anticis et basi femorum subtus flavis.

Long. corp. lin. $5\frac{1}{2}$.

Habitat in Guinea. In Mus. D. Westermann.

The elongated elytra (two and half times as long as the broadest part of the prothorax), and the rather more attenuated 10th and 11th joints of the antennæ, separate this species from the typical *Pæcilomorphæ*.

Sp. 2. *Pæcilomorpha Balyana*.

Nigra, nitida, flavo-varia; capite nigro, facie macula biloba flava nigro-setosa; clypeo ad basim nigro, apice cum labro flavo; palpis et antennis fulvo-brunneis; pronoto flavo, crebre punctato, maculis duabus clavatis disci ad marginem posticum conjunctis; scutello, humeris, maculis duabus in medio disci alterisque duabus majoribus subapicalibus elytrorum nigris; corpore infra nigro, setis griseis adpressis dense vestito; femoribus piceis (anticis pallidioribus), griseo-setosis; tibiis tarsisque fulvis.

Long. corp. lin. 4.

Habitat in Africa australi. In Mus. Hopeiano Oxoniæ (D. Baly dedit.)

P. Afræ, Klug, proxima, at minor, colore pallide flavo, antennis pedibusque pallidis, setisque nigris in apicibus elytrorum.

Sp. 3. *Pæcilomorpha luteipennis*.

Oblonga, parallela, nigra, nitida, pilis griseis dense vestita; antennis serrato-pectinatis; elytris pallide albido-luteis punctatis; segmento ultimo abdominis semicirculariter in medio impresso; femoribus posticis crassis; capitis vertice impresso inter oculos; elytrorum latitudine longitudinem vix duplo excedenti.

Long. corp. lin. 4.

Habitat in Sierra Leonum. In Mus. Britann. et D. Rev. Hamlet Clark.

Sp. 4. *Pæcilomorpha Gerstaeckeri*.

Oblonga, subparallela, crebre punctata; elytris profundius punctatis, rufo-fulva, luteo-setosa, dimidio apicali elytrorum fulvo; mandibulis, articulis 7 ultimis antennarum, maculisque duabus rotundatis in medio elytrorum, metasterni lateribus cum pleuris, macula ovali externa femorum posticorum, et basi segmenti ultimi ventralis (integri) nigris; femoribus posticis magnis, subtus pone medium tuberculo brevi conico armatis; tibiis 4 posticis valde curvatis; metasterno valde convexo.

Long. corp. lin. 4.

Habitat in Java (D. Goring). In Mus. Reg. Berolinensi.

Sp. 5. *Pæcilomorpha Lacordairii*.

Lata, pronoti lateribus pone medium valde rotundato-productis, flavescenti-fulva, glaberrima; capite et pronoti lateribus parce punctulatis et nigro-setulosis; elytris atris, vage punctatis, capitis macula frontali impressa alteraque in medio disci pronoti nigris; antennis fuscis, basi fulvis, articulis 7 ultimis vix serratis; meso- et meta-sterni lateribus nigris; pedibus nigris; femoribus 4 anticis basi fulvis, femoribus posticis crassis, dente subapicali armatis, flavis, extus macula magna basali notatis; tibiis 2 posticis fulvis, apice tarsisque nigris.

Long. corp. lin. $5\frac{1}{2}$.

Habitat Old Calabar. In Mus. DD. Murray et Baly.

I have great pleasure in retaining the specific name proposed

by Mr. Baly for this species in honour of one of the most philosophical entomologists of this or any previous age, who, in addition to great powers of generalization, is endowed with a remarkable aptitude for seizing the minute discriminations of species.

Sp. 6. *Pæcilomorpha parvula*.

Subcylindrica; capite prothoracis latitudine, hujus lateribus in medio rotundatis, basi et apice linea impressa constrictis, luteo-fulva, nitida, capite et pronoto fere lævibus, supra setis luteis et nigris instructa; elytris vage punctatis; antennis nigris, extus latis, serratis, articulis longius nigro-setosis, articulo basali fulvo; abdomine subtus, tibiis tarsisque cum apice elytrorum nigris; femoribus posticis mediocriter incrassatis.

Long. corp. lin. $2\frac{1}{2}$.

Habitat Old Calabar. In Mus. D. Murray.

Sp. 7. *Pæcilomorpha murina*.

Brevis, prothorace subconico, elytris e basi ad apicem sensim attenuatis; nigra, subopaca, creberrime punctulata, pubescentia brevi olivacea induta, plagis duabus longitudinalibus inter oculos alterisque duabus disci pronoti, maculis duabus triangularibus submediis ad latera elytrorum, duabusque subapicalibus, subnudis relictis; antennis nigris, articulis ultimis latis, serratis; pedibus et corpore subtus dense pubescentibus; femoribus posticis magnis, subtus inermibus; tibiis posticis in mare elongatis, curvatis, et in medio infra angulatis.

Long. corp. lin. $4\frac{1}{2}$ —6.

Habitat Old Calabar. In Mus. D. Murray.

Var.—Elytris (detritis) obscure piceo-fulvis, margine et apice nigris, vel basi tantum rufescente, vel fascia tenui transversa pone medium, lutescenti.

The males in this species are larger than the females and are distinguished by having a slight angulation in the middle of the posterior tibiæ on the under-side.

Sp. 8. *Pæcilomorpha Calabarica*.

Parva, cylindrica, obscure fulva; capite et pronoto vix punctulatis, immaculatis; elytris chalybæo-nigris, punctatis; antennis apice serratis, nigris, articulo basali subtus fulvo; femoribus

fulvis, tibiis tarsisque nigris, fusco-hirtis; corpore subtus fulvo, abdomine nigro, apice segmentorum lutescenti.

Long. corp. lin. $3\frac{1}{4}$.

Habitat Old Calabar. In Mus. D. Murray.

This species is very close to the type *P. Passerinii*, but is considerably smaller, with black elytra and darker legs.

Sp. 9. *Pæcilomorpha variabilis*.

Subcylindrica; capite et prothorace æque latis et fere ejusdem magnitudinis, sublævibus; oculis magnis; elytris latioribus, humeris rotundatis, fere parallelis, vage punctatis; tota luteo-fulva vel fulva, nitida, vix pubescens; antennis nigris, articulis basalibus fulvis, apicalibus sublatis, subserratis, articulo 4to minimo; alis nigris; femoribus posticis vix incrassatis; tibiis curvatis. (Typus, vel *P. fulva*.)

Long. corp. lin. $3\frac{1}{2}$.

2^{da} varietas (vel *P. lutescens*). Tota pallide lutescens, oculis paullo majoribus.

Long. lin. $2\frac{1}{2}$ — $3\frac{1}{2}$.

3^{ia} varietas (vel *P. basalis*). Typo convenit, at elytrorum dimidio basali piceo-nigro, in colorem fulvum sensim pallescenti.

4^{ta} varietas (vel *P. subapicalis*). Typo convenit, at elytris piceo-nigris, regione scutellari et maculis duabus indistinctis subapicalibus fulvis, tibiis tarsisque nigris.

Long. lin. 2.

Habitat Old Calabar. In Mus. Hopeiano Oxoniæ et D. Murray.

After much consideration I feel induced to regard all the above-described insects as varieties of one species, their general form and punctation being identical.

Genus TEMNASPIS, Lacordaire.

Sp. 1. *Temnaspis arida*.

Robusta, prothorace (præsertim postice) capite multo latiori, angulis humeralibus elytrorum subacutis; tota fulva, crebre punctata, nitida, setis paucis pallidis vestita; elytris postice valde convexis; femoribus posticis crassis, piceo-castaneis, subtus magis rufis; corpore infra luteo-fulvo, metasterno obscuriori (magis castaneo), tuberculis duobus sat promi-

nentibus; abdomine piceo-nigro, basi (inter trochanteres posticos) pallide lutea.

Long. corp. lin. $5\frac{1}{2}$.

Habitat in Borneo. In Mus. D. Edw. Sheppard.

Sp. 2. *Temnaspis Cumingii* (Hope, MS.).

T. aridæ et *fervidæ* magnitudine et statura proxima: tota fulvo-lutea, nitida, supra vix setosa, sparsim punctata; capitis vertice impresso, prothorace postice latiori, angulis posticis rotundatis, humeris elytrorum prominentibus obliquis, antennarum articulis 7 ultimis tarsisque paullo obscurioribus; corpore toto infra fulvo-luteo; femoribus posticis versus apicem infra bispinosus, extus dimidio basali castaneo.

Long. corp. lin. $5\frac{1}{3}$.

Habitat in Manilla. D. Cuming. In Mus. Hopeiano Oxoniæ et D. Baly.

Obs.—Labium (sc. ligula) rotundatum et in medio marginis antici profunde semicirculariter incisum est.

Sp. 3. *Temnaspis chrysopyga*.

Elongata, fœmina breviori; capite lato, prothorace subrotundato, antice et postice vix constricto; nigra vel picea, vix nitida, mare brunneo, subtus nonnihil præsertim pedibus vario, fœmina obscuriori; valde setulosa setis griseis vel aureis, podice præsertim fœminæ dense vestito; elytris luteis, extus et apice obscuris, nigro-punctatis, punctis parvis, disco versus scutellum fere lævi; clypeo fulvo; antennis nigris, articulis apicalibus latis, serratis, articulo basali interdum subferrugineo; tibiis, præsertim posticis, in mare curvatis, podice ejusdem sexus in medio subcarinato, scutello nigro, apice late truncato.

Long. corp. ♂ lin. 7; ♀ lin. $5\frac{1}{2}$.

Habitat Old Calabar. In Mus. D. Murray.

The sexual distinctions in this species are more marked than in the majority of the insects of this genus, the head of the male being broader than the prothorax, and the body in this sex considerably more elongated than in the female and gradually attenuated to the extremity. In the specimens before me it is the female which has the extremity of the body so strikingly clothed with golden hairs.

Sp. 4. *Temnaspis Bengalensis*.

Fulva, nitida, sat rude punctata, luteo-hirta; capitis margine postico et macula antica brunneis; pronoto maculis duabus

magnis ante medium disci alteraque parva postica nigris; scutello brunneo; elytrorum humeris maculaque magna discoidali pone medium singuli nigris; prothorace subtus maculis duabus anticis; metasterno toto, fasciaque subapicali abdominis nigris; pedibus fulvis, femoribus posticis nigris, apice fulvis, subtus spinis duabus apicalibus armatis.

Long. corp. lin. 4.

Habitat in Ind. Orient., Bengal. In Mus. Hopeiano Oxoniæ.

Sp. 5. *Temnaspis lugubris*.

Nigra, subopaca, crebre punctatissima, griseo-setulosa; elytris in medio fasciis duabus indistinctis pallido-setosis; antennis pectinatis; pronoto linea media glabra; femoribus posticis valde incrassatis, unidentatis.

Long. corp. lin. $7\frac{1}{2}$.

Habitat in Madagascar. D. Goudot. In Mus. Reg. Berolinensi.

Corpus supra griseo-setosum, setis in maculas et fascias duas irregulares medias elytrorum dispositis, pilisque nigris varium. Antennæ articulis 7 ultimis clavam latam pectinatam formantibus. Clypeus cum tuberculo conico antico epistomatis lineaque media pronoti glabris et impunctatis. Prothorax antice et postice constrictus, parte latiori paullo pone medium sita. Elytra prope scutellum gibbosa, humeris prominentibus, basi fasciis duabus submediis maculisque duabus subapicalibus griseo-setosis. Corpus infra nigrum, setosum, lateribus metasterni coxisque posticis luteis. Femora incrassata, unidentata, in medio grisea. Tibiæ posticæ prope basin intus paullo dilatatæ et griseo-setosæ.

Genus LEUCASTEIA, Stål.

(*Pæcilomorpha*, pars, Baly.)

Sp. 1. *Leucasteia rubidipennis*.

Nigra, nitida, punctata; pedibus griseo-setosis; faciei maculis duabus intra-ocularibus labroque rufis; elytris rubido-ferrugineis; antennarum articulis 7 ultimis submoniliformibus, subgracilibus; scutelli apice subtruncato.

Long. corp. lin. 4.

Habitat in Natalia. In Mus. Britann.

Sp. 2. *Leucasteia Dohrni*, Stål, (Öfv. af K. Vet. Acad. Förhandl. 1855, p. 345.)

“Sordide lutescens, breviter pilosa, macula una frontis intra-
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oculari, unaque thoracis utrimque laterali, elytrisque nigricantibus; antennis, tibiis basi et a medio apicem versus, tarsisque nigro-fuscis. Long. $8\frac{1}{2}$ mill."

Habitat Port Natal.

Var.—Absque macula intra-oculari nigra, disco prothoracis immaculato, angulis lateralibus deflexis pronoti nigris, antennarum articulo basali subtus fulvo.

Long. 4 lin.

Habitat Zulu, Afr. merid. In Mus. D. Rev. Hamlet Clark.

Sp. 3. *Leucastea concolor*.

L. Dohrni omnino nisi coloribus convenit, elytrisque crebrius punctatis: tota sordide fulva, luteo-setosa; elytris magis lutescentibus; capite fulvo, macula parva intra-oculari antennisque nigris, harum articulo basali piceo; prothoracis disco ante medium maculis duabus rotundatis plus minusve obscuris; scutello nigro; capite infra macula nigra jugulari; prosterni lateribus, meso- et meta-sternis omnino nigris; abdomine fulvo, segmentis basalibus in medio nigro late maculatis; pedibus fulvis, geniculis, dimidio apicali tibiarum, tarsisque nigris.

Long. corp. lin. $4\frac{1}{2}$.

Habitat in Natalia. In Mus. Reg. Berlinensi.

2^{da} var. (vel *L. nigricornis*). Maculis prothoracis fere obsoletis, antennarum articulo basali infra fulvo, scutello fulvo, metasterno fulvo, basim versus fuscato, abdomine toto fulvo.

Long. lin. 4.

Habitat Zulu. In Mus. D. Rev. Hamlet Clark.

3^{ia} var. (vel *L. proxima*). Maculis prothoracis obsoletis, antennarum articulo basali infra fulvo, scutello nigro, apice truncato; pronoti angulis anticis deflexis, nigris; mesosterno anticè et lateribus nigris, nec non metapleuris et marginibus coxarum posticarum nigris.

Long. lin. 3.

Habitat in Natalia. In Mus. D. Baly.

Sp. 4. *Leucastea atripennis*.

Læte fulva, nitida; capite et pronoti lateribus vage punctatis, hujus disco lævi; elytris atris, regulariter punctatis; oblonga, capite prothorace minori, hujus lateribus rotundatis, basi et apice linea tenui subconstrictis; elytris latioribus, subparal-

lelis; antennis nigris, articulis 4 basalibus fulvis, apicalibus paullo crassioribus, subtrigonis; femoribus fulvis, posticis crassis, subtus in medio paullo angulatis; tibiis (2 posticis basi fulvis exceptis) tarsisque nigris.

Long. corp. lin. 4.

Habitat Old Calabar. In Mus. D. Murray.

This species might at first sight be mistaken for a large specimen of *Pœcilomorpha Malabarica*, but the structure of the antennæ at once indicates its distinction.

Sp. 5. *Leucastea dimidiata*.

L. Dohrni et *atripeni* statura et habitu proxima: cyaneo-nigra, nitida, parce setosa; capite et pronoto fulvis, clypeo macula rotunda intra-oculari fusca; antennis nigris; scutelli apice late truncato; thorace subtus cyaneo-nigro, nitido, griseo-villoso, margine postico pro- et meta-sterni fulvis; abdomine fulvo, segmento apicali integro; pedibus nigris, femoribus subtus plus minusve luteis, anticis fere omnino fulvis, posticis macula ovali utrinque fulva.

Long. corp. lin. 4.

Habitat in Natalia (Poeppig). In Mus. Reg. Berol.

Sp. 6. *Leucastea Westermanni*.

Præcedentibus statura et habitu convenit: tota picea, nitida, luteo-setosa, setis pedum longioribus; antennarum articulis basalibus apice rufescentibus; capite infra, metasterno, ventreque obscure fulvis, segmentorum marginibus pallidioribus; pedibus piceis, femoribus posticis subtus fulvis, subincrassatis, et in medio infra paullo angulatis.

Long. corp. lin. 4.

Habitat in Guinea. In Mus. D. Westermann.

Sp. 7. *Leucastea antica*.

Oblonga, prothoracis lateribus pone medium rotundatis, elytris subparallelis, capite et pronoto glabris, hoc fere lævi, elytris punctatis; fulva, elytris magis testaceis sparsim luteo-setosa, margine postico clypei maculaque in medio faciei et scutello obscuris; antennis nigris; thorace subtus nigro, nitido; abdomine fulvo; pedibus nigris, griseo-hirtis; femoribus anticis infra fulvis.

Long. corp. lin. 3.

Habitat in Natalia. In Mus. D. Rev. Hamlet Clark.

Sp. 8. *Leucastea ephippiata*.

Oblonga, nitida; prothoracis lateribus pone medium rotundatis et capite paullo latioribus; elytris pone medium parum latioribus; pallide fulva, capite et prothorace sublævibus, setosis; antennis fulvis; elytris fulvo-albidis, dimidio basali piceo-nigris; tarsorum apicibus fulvis.

Long. corp. lin. $3\frac{2}{3}$.

Habitat in Africa occidentali. In Mus. D. Hamlet Clark.

Genus PEDRILLIA, (n. g.).

Temnaspidi proximum; differt corpore parvo, breviori et crassiori: elytris postice valde convexis; pronoto pone medium valde constricto, antennis elongatis, ad medium elytrorum extensis, articulis e 3tio sensim incrassatis, haud serratis; palpis maxillaribus articulo ultimo conico; labii margine antico fere recte truncato; scutelli apice truncato; femoribus posticis incrassatis, haud spinosis, tibiis curvatis, unguibus tarsorum basi valde dilatatis.

Sp. 1. *Pedrillia longicornis*.

Testaceo-rufa, fulvo-setosa; capite et pronoto punctulatis; elytris punctatis; antennis nigris, articulo basali luteo basi obscuriori, 2ndo obscuro; pedibus nigris, tibiarum basi piceo-fusca; tarsis piceis; corpore infra ferrugineo; meso- et metasterni lateribus et segmento 5^{to} ventrali nigris.

Long. corp. lin. $2\frac{1}{4}$.

Habitat in Ind. Orient., Bombay. In Mus. Britann. et D. Baly.



Westwood, J. O. 1864. "Descriptions of some new species of coleopterous insects belonging to the eupodous Phytophaga, natives of the Old World and Australia." *Transactions of the Entomological Society of London* 1864, 271–280.

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