

PLATE XII.

DESCRIPTIONS OF SOME NEW GENERA OF AUSTRALIAN HETEROMEROUS
BEETLES IN THE COLLECTION OF THE REV. F. W. HOPE.

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CYPHALEUS, *Hope*.

Corpus oblongo-ovatum, elytris convexis rugosis lateribus parallelis. Caput mediocre, clypeo ante oculos utrinque prominente, basin antennarum tamen vix obtegente. Antennæ longitudine capitis cum dimidio thoracis, articulis apicalibus parum crassioribus et brevioribus. Mandibulæ subtrigonæ, externe rotundatæ, apice bifidæ, intus membrana in cavitate recepta, instructæ. Maxillæ lobo interno in hamum corneum acutum producto, lobo externo magno inermi setoso. Palpi max. articulo ultimo magno securiformi. Mentum subquadratum, antice latius angulis antice rotundatis: labium subquadratum angulis etiam rotundatis. Palpi lab. breves, in scapos parvos insidentes, articulo 3tio subsecuriformi. Prothorax postice latior, angulis acutis. Elytra magna, prothorace multo latiora, convexa, valde punctato-rugosa. Pedes longi simplices.

SPECIES I. *Cyphaleus formosus*, Hope. Niger, nigro-setosus, supra punctatus, elytrorum dimidio basali viridi, purpureo cincto, apice violaceo-nigricante, punctis elytrorum majoribus, et sæpe confluentibus.

Long. corp. lin. $11\frac{1}{2}$.

Obs.—The splendid purple oval edging to the green base of the elytra is a very peculiar character in this insect.

SPECIES II. *Cyphaleus iopterus*, Hope. Niger, nigro-setosus, supra punctatus, punctis elytrorum majoribus distinctis, apicem versus oblitteratis; elytris nitide violaceis.

Long. corp. lin. 10.

Obs.—The smaller size, more regular, and slighter punctation of the elytra, which are smooth behind, and their uniform violet-purple colour, are the chief differences between the two preceding insects.

SPECIES III. *Cyphaleus rugosus*. Totus ater, elytris rugoso-punctatis.

Helops ? rugosus, G. R. Gray, in Griffith, An. K. Ins. pl. 80, f. 5.

Helops aterrimus, G. R. Gray in ditto, pl. 74, fig. 5 (details), and Part 31, p. 22.

Long. corp. lin. 11.

CHARTOPTERYX, *Hope*.

Corpus ovatum convexum, antice attenuatum. Antennæ capite cum thorace longiores, graciles, articulis 4 apicalibus brevibus et vix crassioribus. Mandibulæ crassæ, apice acutæ, curvatæ, intus apicem bifidæ, spatio marginis interni membrana repleto. Maxillæ parvæ, lobo interno apice hamo parvo acuto corneo inflexo armato. Palpi max. articulo ultimo securiformi, mentum subcordato-truncatum, labium integrum ciliatum. Palpi lab. breves, articulo ultimo subsecuriformi. Prothorax sub-planus postice latior, lateribus rectis marginatis, Elytra basi vix pronoto latiora, gradatim dilatata convexa, postice areolata, apice acuto. Pedes longi graciles.

Obs.—The generic name is proposed in allusion to the map-like markings of the hind part of the elytra.

SPECIES I. *Chartopteryx Childrenii*, Hope. Æneo-niger nitidus, capite thoraceque tenuissime punctatis villosulo-lineatis, elytris magis æneis punctatis, parte postica in areas læves chalybæas formæ variæ lineis punctatissimis et villosis divisa.

Long. corp. lin. 8.

HEMICYCLUS, *Hope*.

Corpus hæmisphericum, marginatum, glabrum; Cassidas varias simulans. Antennæ capite cum thorace vix longiores, articulis 5 terminalibus brevioribus et parum dilatatis. Mandibulæ, maxillæ, palpi et instrumenta labialia ut in genere præcedente. Pronotum lunatum postice multo latior, lateribus fere rectis, angulis parum rotundatis. Elytra maxima fere rotundata, marginata, gibbosa, glaberrima. Pedes longitudine mediocres, graciles, simplices, tarsis angustis, articulis subtus productis.

Obs.—This genus, although so different in form, is more nearly allied to the preceding than to *Helæus*, or the hemispheric metallic *Diaperidæ*.

SPECIES I. *Hemicyclus grandis*, Hope. Æneo-niger, nitidissimus, capitis parte postica sub lente punctata; elytris metallicis, dorso purpurascente, lateribus magis virescenti-nitidis; pedibus antennisque nigris.

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

SPECIES II. *Hemicyclus metallicus*, Hope. Niger, nitidissimus, elytrorum dorso purpureo-nitido, tarsis quatuor anticis subdilatatis. An mas præcedentis?

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

LEPISPILUS, *Hope*.

Corpus oblongo-ovatum, squamoso-punctatum. Antennæ prothorace longiores, articulis quaque ultimis crassioribus brevioribus. Mandibulæ crassæ, apice indentem obtusum terminato, intus membrana ciliata instructæ. Maxillæ lobo interno haud unco corneo instructæ. Palpi max. articulo ultimo vix securiformi. Mentum transversum lateribus rotundatis ciliatis. Labium integrum; palpi lab. articulo ultimo securiformi. Prothorax transversus, lateribus rotundatis, angulis posticis acutis, dorso longitudinaliter canalicalutus. Elytra elongato-ovata, punctis majoribus sed parum impressis et villosis. Pedes mediocres, simplices, tibiis parum curvatis, unguibus longis.

SPECIES I. *Lepispilus sulcicollis*, Hope. Niger, elytris magis brunneo-purpureis, albo-villosis maculaque majori in medio marginis lateralis ejusdem coloris; capite thoraceque punctatis, hoc impressionibus duabus versus angulos posticos, lineaque impressa media longitudinali.

Long. corp. lin. 7.

Obs.—This insect is probably identical with the *Helops à corselet sillonné* of Boisduval, in the *Voyage de l'Astrolable* Col. pl. 7, fig. 5, but the figures in that work are so execrable, that it is impossible to determine the species with precision.

Obs.—The four genera above described belong to the great family *Helopidæ*, and are here published with the view of affording materials towards a revision of that group.

The plant figured in the plate is Australian *Epacris nivalis*.



Westwood, J. O. 1841. "Descriptions of some new genera of Australian heteromorous beetles in the collection of the Rev. F. W. Hope." *Arcana entomologica, or, Illustrations of new, rare, and interesting insects* 1, 43–44.

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