

*Description of Twenty New Species of Buprestidæ, belonging to the genus Stigmodera, from the Northern parts of Australia, by WILLIAM MACLEAY, JUN., ESQ., M.L.A.*

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The genus *Stigmodera* of Eschscholtz, though not entirely Australian, contains comparatively but few foreign species, and these I believe exclusively South American; while the number of those of New Holland may almost be said to be endless.

About one hundred and twenty species have already been described from this country; and it is rare indeed to find a collection, however small, of Sydney Insects which does not contain new species.

In the following paper I have described 20 species from Port Denison and other northern parts of the country, all of which are quite new to collections.

1.—STIGMODERA FULVIVENTRIS.

Cupreo-ænea, capite longitudinaliter impresso, thorace punctato, scutello æneo, elytris flavis striatis striis punctatis lateribus posticè serratis apice bidentatis suturâ ad basin maculâ utrinque quadratâ fasciâ pone medium latâ apiceque cyaneis, corpore subtus punctato parcè pubescente, ventre fulvo.

Long. 8 lin., lat. 3 lin.

Hab. Port Denison.

The head is brassy, and closely covered with punctures; the antennæ are of the same hue, with the exception of the peduncle of the first joint, which is red. The thorax, which is also brassy, with a coppery tinge, is covered with close fine punctures, excepting the basal part of the medial dorsal line; the scutellum is brassy, with a few very small punctures in the centre. The elytra are yellow, rather deeply striated, and covered with punctures; the sides for some distance from the apex are finely serrated, and the apex itself is minutely bidentated. The suture for nearly a fourth of its length from the scutellum is blue, and on each side there is a square spot of the same color. A post-medial, and an apical fascia joined together at the literal margins, are also blue.



The under surface and legs are brassy, with the exception of the belly, which is fulvous; the whole is punctate, and sparingly covered with a very short white pubescence.

## 2.—STIGMODERA VIOLACEA.

*Æneo-violacea*, capite profundè canaliculato, thorace punctato lineâ dorsali plagâque basali utrinque lævibus, scutello æneo, elytris punctato-sulcatis posticè unidentatis maculâ rotundatâ utrinque prope scutellum lineâ humerali fasciâque mediâ subapicalique flavis.

Long.  $7\frac{1}{2}$  lin., lat.  $2\frac{3}{4}$  lin.

Hab. Port Denison.

The whole insect is of a purplish brassy hue, the head is punctured, and deeply cleft in the middle; the thorax is closely punctured all over, with the exception of a narrow medial line, which is somewhat impressed near the base, and a small, somewhat triangular patch resting on the base on each side, about half-way between the dorsal line and the lateral margins; the scutellum is smooth and shining, the elytra are sulcate, or deeply striate, and punctured all over; the apex is unidentated with a small oblique truncation towards the suture. There is a round yellow spot at the base, on each side of the suture, and a short marginal posthumeral vitta of the same colour, two fascias extending from the sides to within a short distance of the suture, one medial, the other subapical are also yellow. The under surface, which is of the same color as the upper, only more brilliant, is punctured and clothed with a thin, short, white pubescence.

## 3.—STIGMODERA RUFIPES.

*Nigro-ænea*, capite flavo-lineato, thorace punctato lateribus maculâque basali mediâ parvâ lævi flavis, elytris flavis striato-punctatis posticè unidentatis maculâ humerali semicirculari basi suturâ fasciâ mediâ apiceque nigro-violaceis, corpore subtus flavo segmentorum abdominalium marginibus posticis maculisque lateralibus viridibus, femoribus rufis, tarsis cyaneis.

Long.,  $5\frac{1}{2}$  lin., lat. 2 lin.

Hab. Port Denison.

The head, which is of a brassy black, is punctured, and the



longitudinal impression between the eyes, so usual in the genus, seems in this species to be filled up with a yellow mass; the antennæ are blue, the thorax which is also of a brassy black, is punctured very finely, the dorsal line is smooth, and yellow towards the base, the sides are also yellow, as is a small part of the anterior margin near the anterior angle; the posterior angles are slightly tipped with black, the yellow margin also widens gradually towards the base. The elytra are yellow, and striatopunctate, rather broadly truncated, with a minute tooth at the external angle of the truncature, on each side behind the shoulder, there is a long semicircular spot of a violet black, a narrow basal margin, the suture, the apex, and a post-medial fascia are of the same colour; the sutural vitta swells out into a lozenge shaped spot, immediately behind the scutellum, and the dark apical portion is one-fourth of the whole length of the elytra. The under surface is mostly yellow, the sides of the mesosternum and abdominal segments are spotted with green, and the hinder margin of these last are of the same colour; the thighs are red; the tibiæ blue and red; the tarsi blue.

#### 4. STIGMODERA BIGUTTATA.

Miniata, capite nigro-æneo latè impresso, thorace subtiliter punctato disco nigro-æneo, elytris striatis punctatis maculâ basali triangulari guttis duabus apiceque nigro-cyaneis, corpore subtus chalybeo.

Long.  $5\frac{1}{2}$  lin., lat. 2 lin.

Hab. Port Denison.

The head is brassy black, and punctured, a broad impression extends along the face from near the vertex; the antennæ are blue; the thorax, which is very finely punctured, has a rounded transverse gibbosity in the centre, as in *S. gibbosa*, though not to such an extent; the centre of the thorax is of a brassy black, broadly margined laterally with red; the elytra are of a miniatous red, striated and punctured, towards the apex rounded and serrated with two very minute approximate dentations at the sutural angles, a large triangular almost black patch extends from the base to the middle of the elytra; a small spot a little behind the middle of each elytra, and the apex, are of the same hue. The whole under surface is of a brilliant steel blue.



## 5. STIGMODERA STRAMINEA.

Olivaceo-ænea capite latè impresso, thorace crebrè punctato, scutello parvo punctato, elytris stramineis striato-punctatis striis geminatis impressis posticè sub-bidentatis maculâ parvâ laterali pone medium apiceque nigro-violaceis, ventre flavo.

Long. 6 lin., lat  $2\frac{1}{4}$  lin.

Hab. Port Denison.

The head and thorax are of a brilliant golden olive, the former is punctured, and has a broad but not very deep frontal impression; the latter is thickly punctured and presents a somewhat granulated appearance; there is a deepish impression on the basal part of the dorsal line near the scutellum, the scutellum itself is small, and has a few punctures in the middle; the elytra are of a pale straw colour, striato-punctate, (the striæ appearing to run in pairs) and rounded towards the apex, which is indistinctly bidentated, the two indistinct dentations being very close together; a narrow dark coloured beading occupies the basal margin of the elytra, the tips are of a violet black, as are also two small lateral spots, one on each side, behind the middle. The under surface is more brilliant than the upper, the belly excepted, which is of a reddish yellow.

## 6.—STIGMODERA CINNAMOMEA.

Viridi-ænea capite profundè impresso, thorace punctato, scutello viridi disco punctato, elytris punctatis striatis cinnamomeis apice nigris posticè serratis, ventre flavo.

Long. 7 lin., lat.  $2\frac{3}{4}$  lin.

Hab. Port Denison.

Head and thorax brassy green, the former finely punctured and with the face rather deeply cleft, the throat is densely punctured, the dorsal line is indistinct with a slight impression at the base, the scutellum is green with a few punctures in the middle. The elytra are of a cinnamon colour, with the apex black; they are closely and deeply striated and covered with punctures, the lateral margins for some distance from the apex are serrated. The legs and whole under surface with the exception of the belly, which is yellow, are of a brilliant brassy green.



## 7.—STIGMODERA GIBBOSA.

*Æneo-viridis capite latè impresso, thorace gibbo punctato sanguineo maculis duabus semicircularibus discalibus viridibus, scutello viridi-æneo medio impresso, elytris posticè bidentatis striato-punctatis flavis extus subsanguineis humeris guttulâ discali guttâ laterali maculâ suturali subapicali apiceque extremo viridibus, ventre sanguineo.*

Long. 5 lin., lat. 2 lin.

Hab. Port Denison.

Head dark brassy green, pointed, broadly impressed in front and punctured; thorax deep blood red, with two green semicircular spots in the centre, it is elevated gradually across the middle and is covered with punctures, the scutellum, which is green, has a few punctures or impressions in the middle. The elytra are striated punctated, and yellow, with a blood-red lateral and apical margin; the basal margin, the shoulders, a small spot near the centre, a larger one near the side and behind the centre, and another on the suture near the apex, and the extreme point of the apex are green; two teeth terminate each elytron, the exterior one longest. The legs mesothorax and metathorax are green, the remainder of the under surface is sanguineous.

## 8.—STIGMODERA CARINATA.

*Nigro-ænea capite latè impresso, thorace subtiliter punctato dorso subcanaliculato, elytris ad suturam carinatis striatis punctatis rufis subsericeis suturâ fasciis duabus apiceque nigro-cyaneis, corpore subtus viridi pubescente.*

Long.  $5\frac{1}{2}$  lin., lat.  $2\frac{1}{4}$  lin.

Hab. Port Denison.

Brassy black; the head punctured; the frontal impression broad but not deep; the thorax is densely covered with fine punctures; the dorsal is line slightly but distinctly canaliculate; the scutellum is rather deeply impressed in the middle. The elytra are punctate and striated with a distinct elevated line on each side near the suture, they are of a silky dark red colour, with the suture, two fascias, and the apex dark blue, the latter part is rounded and almost without a trace of dentation. The whole under surface is green, thinly clothed with a short white pubescence.



## 9. STIGMODERA VIRIDIVENTRIS.

Viridi-ænea capite latè impresso, thorace posticè sinuato subtiliter punctato linea dorsali posticè profundè impresso, elytris punctatis sulcatis rufis apice nigris, corpore subtus viridi.

Long.  $4\frac{1}{4}$  lin., lat.  $1\frac{3}{4}$  lin.

Hab. Port Denison.

Brassy green, the head is punctured with the frontal impression broad and rather deep, the thorax is rather deeply sinuated at the base, and is finely punctured, the dorsal canal is distinct and deeply impressed towards the scutellum, which is punctured all over. The elytra are punctate, deeply striated, and bidentated at the apex, which is black, while the rest of the elytra is red. The whole under surface is of an uniform brilliant green.

## 10.—STIGMODERA NIGRIVENTRIS.

Nigra capite nigro-æneo canaliculato, thorace subtiliter punctato, elytris posticè bidentatis punctatis striatis testaceis apice latè nigris.

Long. 5 lin., lat. 2 lin.

Hab. Port Denison.

Black, the head somewhat brassy with the frontal impression small and canaliculate; the thorax is densely and finely punctured the dorsal line is indistinctly marked. The scutellum is small and punctured; the elytra, which are of a red color with the apical third black, are punctate, striated, and broadly bidentated at the apex. The whole under surface is of a shining black.

## 11.—STIGMODERA STRIGATA.

Viridi-ænea capite latè impresso, thorace punctulato, elytris striato-punctatis luteis fasciâ angustâ pone medium apiceque viridibus, corpore subtus viridi ventre subpurpureo.

Long. 6 lin., lat.  $2\frac{1}{4}$  lin.

Hab. Port Denison.

Head and thorax brassy and punctured, the former broadly impressed in front, the scutellum is also brassy and punctured. The elytra are striato-punctate and of a reddish yellow colour, with a very narrow basal marginal band, a narrow fascia behind the middle and the apex bluish green; for some distance from



the apex the sides are indistinctly serrated, and there is a small notch at the sutural angle which may be considered to form a minute bidentation. The legs and whole under surface are green, with the exception of the belly which is of a purplish yellow.

12.—STIGMODERA QUADRIGUTTATA.

Nigro-ænea capite canaliculato, thorace subtiliter punctato lineâ dorsali impresso, elytris posticè bidentatis subtiliter punctatis sulcatis testaceis guttis duabus lateralibus apiceque nigris.

Long. 4 lin., lat.  $1\frac{1}{2}$  lin.

Hab. Port Denison.

The head, thorax, and scutellum are of a brassy black hue, the first of these is canaliculate in front and punctured, the thorax is finely punctured with the dorsal line distinctly impressed, the scutellum is also impressed. The elytra are finely punctured, deeply striated, and of a testaceous colour with two small round black spots on each lateral margin, (one a little before, the other a little behind the middle); the apex is also black and is bidentated, the dentations are at the sutural angle and rather close together, the exterior one is the longest.

The under surface is of an uniform brassy black with a little short whitish pubescence.

13.—STIGMODERA TRIGUTTATA.

Æneo-viridis capite profundè impresso, thorace punctato posticè in medio impresso, elytris posticè bidentatis punctatis striatis testaceis maculâ suturali pone medium guttula utrinque apiceque nigris.

Long.  $3\frac{3}{4}$  lin., lat.  $1\frac{1}{2}$  lin.

Hab. Port Denison.

The head and thorax are of a brilliant metallic green, and closely punctured; the former has the face deeply and broadly impressed, the latter has the dorsal line deeply marked near the base; the scutellum is also punctured, impressed, and of a green colour. The elytra, which are bidentated at the apex much in the same way as in the last species, are punctured, striated, and of a testaceous colour, with a spot on the suture about one-third from the apex, a small spot on each side, and the apex black. The under surface is entirely green.



## 14.—STIGMODERA SEXGUTTATA.

*Æneo-viridis capite latè impresso, thorace subtilissimè punctato, elytris punctatis striatis flavis suturâ guttisque duabus suturalibus æneo-viridibus guttis duabus lateralibus nigris.*

Long. 3 lin., lat. 1 lin.

Hab. Port Denison.

The head and thorax are of a brilliant metallic green, and very finely punctured, the former with the face broadly impressed; the scutellum is also green, and punctured. The elytra, which are scarcely bidentated at the apex, are punctato-striate, and of a yellow colour, with the suture and two spots on the suture, one behind the middle the other apical, of a brilliant green; and two small marginal black spots, one a little behind the shoulder, the other behind the middle. The under surface is bright green, and slightly pubescent.

## 15.—STIGMODERA TRICARINATA.

*Aurantia capite bimaculato fronte impresso, thorace punctato medio posticè depresso subcarinato vittâ mediâ guttisque duabus utrinque nigris, elytris punctatis tricarinatis posticè unidentatis suturâ posticè apiceque nigro-cyaneis, mesothorace metathorace ventrequ subtus cyaneis, femoribus anticis ad basin flavis.*

Long. 7 lin., lat.  $2\frac{1}{2}$  lin.

Hab. Rockhampton.

The upper surface is orange coloured; the head is punctured with a deep impression, and a black spot in the middle of the face, there is also a black spot on the top of the head; the antennæ are black. The thorax is closely and minutely punctured; the medial dorsal line is broadly depressed, particularly towards the base, and is finely carinated in the centre, there is also a well marked impression near the posterior angles, a black vitta occupies the centre, with a small round spot on each side near the middle, and another on and almost below the lateral margin. The scutellum is impressed and punctured. The elytra are punctured, and have three elevated ridges extending along their whole length, one near the suture, the second taking its rise from the same place at the base, and running parallel to and near the first; and the third about half-way between the second and the



lateral margin, which is also a little elevated, the interstice between the first and second ridges is occupied by another towards the apex; there is a deep excavation at the humeral angle on each side; the apex is so slightly notched, as to give the appearance of only one tooth; the hinder part of the suture and the apex are of a bluish black. The whole under surface is blue, with the exception of the prothorax, and anterior thighs, which are orange coloured.

16.—*STIGMODERA FLAVO-SIGNATA*.

Nigro-viridis capite punctato latè impresso, thorace punctato flavo maculâ magnâ tridentatâ transversali basique nigro-viridibus, elytris striatis subtiliter punctatis fasciâ mediâ obliquâ strigâ subapicali lateribusque anticè flavis, corpore subtus flavo maculis lateralibus segmentisque abdominalibus anticè cyaneis.

Long. 7 lin., lat.  $2\frac{1}{2}$  lin.

Hab. Rockhampton.

Dark green and but slightly brassy, the head is punctured and broadly impressed in front, the thorax is also punctured, but finely, its colour is yellow with a broad transverse patch of dark green near the apical margin, and apparently extending to the margin in the centre, the patch is straight in front and trilobate behind, the basal margin is dark green, there is a deepish depression in the centre at the base, which extends over the scutellum. The elytra, which are dark green, have two narrow fascias and the lateral margins as far as the hinder fascia yellow; the first of these fascias is about the middle and slopes forward on each side towards the suture forming a kind of flat arch, the other fascia is near the apex, is still narrower and forms a sort of reversed arch. The elytra are closely punctured all over, striated, and rounded at the apex. The under surface is yellow with the exception of the head. The legs and some spots on the body and the anterior margins of the abdominal segments which are dark green, are black.

17.—*STIGMODERA VITICOLLIS*.

Testacea capite punctato viridi-æneo, thorace subtilissimè punctato basi utrinque emarginato vittâ mediâ nigrâ, elytris punctulatis striatis posticè bidentatis ad humerum lobatis



rugosis indeque punctorum lineis duabus ad apicem extensis margine basali fasciâ postmediali apiceque nigro-cyaneis, corpore subtus nigro-viridi, abdominis lateralibus apiceque flavis.

Long. 18 lin., lat. 7 lin.

Hab. Port Denison.

The head is of a dark brassy green, punctured, and but slightly depressed in the middle; the thorax is testaceous, finely punctured with a broad black central dorsal vitta, spreading out at the base, and an excised looking emargination at the base on each side of it. The scutellum is small, with a deep impression in the centre. The elytra are marked with 10 distinct striæ finely punctured; at the base are two rather pointed lobes fitting into the emarginations at the base of the thorax; there is a coarsely punctured and somewhat rugose patch near each shoulder, from which proceed two rows of coarse punctures, the outer reaching the apex, the other about two-thirds of the length of the elytra, the apex is broadly bidentated and almost truncated. In colour, the elytra are testaceous, with a very narrow basal fascia, a broad medial fascia, and the apex blue. The body beneath is dark green with the exception of the sides of the prothorax, a patch on the metathorax, and the apical segments of the abdomen and the sides of the others, which are yellow.

#### 18.—STIGMODERA EXCISICOLLIS.

*Æneo-viridis capite punctato canaliculato, thorace punctulato dorso subcanaliculato basi utrinque exciso, elytris striato-punctatis flavis apice subsanguineis bidentatis punctorum rugosorum lineâ ab humeris extensâ margine basali suturâque ad apicem cyaneis.*

Long. 12 lin., lat.  $4\frac{1}{4}$  lin.

Hab. Port Denison.

The whole upper and under surface, with the exception of the elytra, are of a brilliant metallic green; the head is punctured and canaliculated, the thorax is finely punctured, the dorsal line is not distinctly marked, and the base on each side of the central line is excised or acutely emarginated. The elytra are striated and finely punctured, a row of coarse rugose punctures extends from the shoulders down the middle of each elytron to the apex, which is



acutely bidentated, they are of yellow colour verging on sanguineous near the apex, with a very narrow basal margin and the apical portion of the suture blue.

19.—*STIGMODERA MACULIVENTRIS*.

Nigra capite punctato flavo-hirto, thorace punctato lineâ dorsali lævi basi utrinque impresso, elytris punctatis striatis ad humerum subrugosis posticè rotundatis flavis suturâ maculâ suturali pone scutellum fasciâ postmediali apiceque nigro-cyancis, corpore subtus nigro-æneo ventre flavo-maculato.

Long. 11 lin., lat. 4 lin.

Hab. Rockhampton.

The head and thorax are of a deep bluish black and punctured, the former with the forehead almost flat and covered with yellowish pubescence, the base of the thorax is slightly excised near the posterior angles. The elytra are striated, punctured, and of a yellow colour, verging upon sanguineous towards the apex, with a spot on the suture behind the scutellum, a broadish fascia immediately behind the middle, and an apical patch, of a dark blue; there is no vestige of dentation at the apex. The under surface is of a dark brassy green, with spots of yellow on the sides of all the abdominal segments, and on the middle of the two terminal ones.

20.—*STIGMODERA IMPRESSICOLLIS*.

Nigra capite profundè canaliculato, thorace punctato lineâ dorsali anticè posticèque profundè impresso foveolâ utrinque magnâ, elytris punctatis costatis testaceis suturâ fere ad apicem nigrâ.

Long. 5 lin., lat. 2 lin.

Hab. Manning River.

The head and thorax are of a brassy black and punctured, the former deeply impressed in the centre, the latter with very large deep impressions at the apical and basal portions of the central dorsal line and with two others larger and rounder, one on each side near the basal angles. The elytra are sulcated, the interstices, five in number, are prominent; the sulci are punctured. The colour is of a dull red with the suture black to within a very short distance of the apex.





Macleay, W J. 1863. "Descriptions of twenty new species of Buprestidae, belonging to the genus *Stigmodera*, from the northern parts of Australia." *Transactions of the Entomological Society of New South Wales* 1, 22–32.

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