

Colonial Museum and Geological Survey Department.

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DIRECTOR.

MANUAL

OF THE

NEW ZEALAND COLEOPTERA.

BY

CAPTAIN THOMAS BROWN.

PARTS III. AND IV.

PUBLISHED BY COMMAND.

NEW ZEALAND.

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PREFACE.

THIS is a further instalment of the work descriptive of the COLEOPTEROUS INSECTS indigenous to New Zealand, by Captain Thomas Broun, of which a first volume was issued by this department in 1880, and a second in 1881. A portion of the descriptions in the present volume—viz., Nos. 1322 to 1557—have already been printed in the *Journal of Science*, but the author desired the incorporation of these in the present work in order to render it complete for the purpose of reference. The alphabetical Index has been rearranged so as to refer to the whole work as if it were one volume, and thus supersedes the Index given with Part II.

JAMES HECTOR,

DIRECTOR.

*Colonial Museum, Wellington,
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GENERIC INDEX

TO

MANUAL OF NEW ZEALAND COLEOPTERA.

PARTS I.-IV.

ERRATA

FOR
PARTS III. AND IV.

- Page 803. Fifth line from bottom, "Belinophorus" should be "Novitas."
 " 805. "Dioedimorpha:" " left out over e.
 " 817. Line 2, "throat" should be "thorax."
 " 822. Line 19, "*F. fultoni*" should be "*T. fultoni*."
 " 851. "Echinopeptus" should be "Echinopeplus."
 " 852. Line 26, "point" should be "joint."
 " 882. Line 17, "pointed it out" should be "found it."
 " 889. Line 8, "7½" should be "1¼ lines long."
 " 896. Line 14, "expressions" should be "depressions."
 " 908. Line 7, comma omitted after "arched."
 " 925. Line 1, "being" left out before "much broader."
 " 937. Line 33, should be "J. Adams;" also on pp. 939 and 973.
 " 950. Line 15 from bottom, should be "*L. costatus*," not "*costalus*."
 " 956. "Elaterid" should be "Elateridae."

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1718 punctata, <i>Broun</i>	953	1743 aciphyllæ, <i>Broun</i>	965
1719 suffusa " "	953	Eugnomus—	
COPRIDÆ.		1744 monachus, <i>Broun</i>	966
Saphobius—		CRYPTORHYNCHIDÆ.	
1720 squamulosus, <i>Broun</i>	954	Acallos—	
		1745 floricola, <i>Broun</i>	966

Agacalles—	Page	Agastegnus—	Page
1746 formosus, <i>Broun</i>	967	1752 sericatus, <i>Broun</i>	970
Scelodolichus—		Glyphorhamphus—	
1747 altulus, <i>Broun</i>	968	1753 rarus, <i>Broun</i>	971
COSSONIDÆ.		Exomesites—	
Pentarthrum—		1754 optimus, <i>Broun</i>	972
1748 comatum, <i>Broun</i>	968	Pselactus—	
1749 morosum " "	969	1755 punctatus, <i>Broun</i>	972
Rhinanisis—		LAMIIDÆ.	
1750 sagax, <i>Broun</i>	969	Xylotoles—	
Agastegnus—		1756 angustulus, <i>Broun</i>	973
1751 femoralis, <i>Broun</i>	970		

NEW ZEALAND COLEOPTERA.

PART III.

Group—CNEMACANTHIDÆ.

Mecodema (p. 7).

1322. *M. rugicolle*, *n.s.* *Body* moderately glossy, brownish-black; legs and antennæ rufo-piceous; elongate, sub-parallel.

Head nearly smooth on the middle, longitudinally rugose in front, irregularly wrinkled laterally, its posterior portion covered with transversal linear impressions and punctures; labrum broadly rounded, bearing a row of coarse punctures and ferruginous bristles. *Prothorax* sub-depressed, its length and breadth about equal, widely rounded laterally, abruptly narrowed behind, its sides almost crenate; the surface has a distinct median groove not attaining the apex, many transversal furrows deepest near the sides, some abbreviated longitudinal striæ in front, and a row of obvious punctures, with elongated ferruginous bristles proceeding from them, along the rims; the basal foveæ are well defined, and placed close to the edges of the contracted part. *Elytra* cylindrical, slightly convex, each with three rows of distant punctures on the disc, the sides and apices more coarsely and irregularly punctured; their surface exhibits a few aciculate impressions, but no distinct striæ. *Underside* piceous; flanks of the *prosternum* punctate, those of the *mesosternum* similarly but more densely impressed; *abdomen* with distant shallow punctures near the sides; the *head* transversely rugulose.

Differs from all the other species of the genus having crenulated thoracic margins by the sculpture of the head and thorax, &c.

Length, 11 lines; breadth, $3\frac{1}{2}$.

Described from a mutilated specimen found by Mr. P. Stewart-Sandager near Taranaki.

Metaglymma (p. 10).

1323. *M. punctifer*, *n.s.* Elongate, slightly convex, medially narrowed, glossy-black, scarcely bronzed; tarsi and antennæ pitchy-black, tips of the palpi pale in colour.

Head moderate, longitudinally bi-impressed in front, a little constricted behind, and punctured in line with the back part of the eyes; these latter prominent. *Prothorax* longer than broad, margined, its sides but little curved, considerably contracted behind, with some-

NEW ZEALAND COLEOPTERA.

PART IV.

Group—CICINDELIDÆ.

Cicindela (p. 1).

1451. *C. campbelli*, *n.s.* Sub-depressed, sub-oblong; legs and antennæ bright aeneous, elytra variegate, head and throat cupreous, and, like the underside, bearing many white bristles.

Head densely, finely, and rugosely sculptured; labrum testaceous, with rounded angles, its middle part obtusely produced, with an acute median tooth. *Prothorax* transversely impressed near the base and apex, with a fine dorsal groove, its sculpture similar to that of the back part of the head. *Elytra* oblong, widest behind; each elytron emarginated at the apex, with a sutural spine not protruding beyond the extremity: the whitish band proceeds from the shoulder but a short distance, and is then obliquely prolonged inwardly to the middle, from thence it is continued nearly to the extremity; the lateral stripe is distinct from the humeral one, and is continued right round to the suture, sending forth a narrow band to unite with the central one, and is also prolonged inwardly from the outer part of the apex, thus insulating a narrow oblique space before the middle and a much larger longitudinal one behind: there are no tubercles on their surface, but they have the usual sutural row of green foveoles and others near the shoulders and sides.

Allied to *C. perhispidata*.

Length, 4-5 lines; breadth, $1\frac{3}{4}$.

Three individuals were caught at Waikato Heads by Mr. W. D. Campbell, of Ponsonby, Auckland; they are terribly mutilated, and covered with particles of sand and the entrails of some soft-bodied creatures that had been placed in the collecting-bottle with them. It has been a difficult matter to determine the coloration.

Group—CNEMACANTHIDÆ.

Mecodema (p. 7).

1452. *M. venator*, *n.s.* Elongate, somewhat convex; glossy pitchy-black, legs piceo-rufous, tips of palpi dilute in colour.

Head a little constricted behind the eyes, and on that part rugose-punctate; the occiput transversely, and its sides longitudinally, wrinkled. *Prothorax* cordate, broadly rounded laterally, very much

More rotundate than *A. altulus*; may be at once identified by the finely rugose elytra.

Length, $1\frac{1}{2}$ lines; breadth, nearly $\frac{7}{8}$.

Howick. Found on the ground.

Obs.—The characters of *Adolopus* (Sharp: Trans. Ent. Soc., 1884, Part iv., p. 478) are as follow: Corpus parvum, rotundato-ovale, superne convexum. Antennæ 9-articulatæ, clava elongata, laxè articulata; palpi maxillares breves, articulis tribus ultimis longitudine subæqualibus, articulo pseudo-basali crassiore, mentum transversim quadratum, anterius late depressum. Prosternum in medio longitudinaliter carinatum. Coxæ intermediæ distant, metasterno inter eas longius productum, cum processu triangulari mesosterni sutura recta conjunctum, processu hoc ad latera marginato. Femora posteriora subtus glabra; abdomen densissime subtilissime punctato-pubescent, segmento basali in medio carinato. Tarsi posteriores parum elongati et parum crassi, articulo basali brevi, secundo parum elongato sed quam præcedente evidenter longiore.

No. 150 should become *Saphydrus oblongus*. The genus was published at p. 467 of the Trans. Ent. Soc. 1884, Part iv.

Exydrus.

Nov. gen.

Agrees in most respects with Dr. Sharp's genus *Hydrostygnum* (Trans. Ent. Soc., Part iv., p. 475), but differentiated by the following characters: *Labrum* small, obliquely excised on the left side of the apex. *Epistome* truncate in front. *Eyes* more prominent and distinctly faceted. Middle of *metasternum* not prominent and not more coarsely sculptured than elsewhere. Posterior *femora* finely punctate and covered with obvious yellow hairs.

The genus is instituted for Nos. 153 and 154, which become *Exydrus flavicornis* and *E. gibbosus*.

Cercyodes.

Nov. gen.

Antenna elongate, 9-jointed; basal joint long, cylindric; second nearly as stout as first, about half its length; third as long as second but much more slender; joints 4-6 decrease in length; club compact, very large, tri-articulate. Maxillary *palpi* not elongate, basal joint small, second moderately stout, the terminal longer than third, narrowed towards and truncate at the extremity. *Legs* short and stout, posterior femora nude; anterior tibiæ rounded and fringed with short spines at the apex and there furnished with short straight spurs, their lower and inner face excavated for the tarsi; *tarsi* short, posterior somewhat compressed, very sparsely pilose, basal joint very short, 2-4 equal, fifth longest.

Allied to *Cercyon*, anterior *coxa* less prominent; *prosternum* without a distinct process, merely gradually raised to the level of the carinate middle portion; *epipleura* narrow, and on the same plane as the breast; middle of *metasternum* a little elevated, nearly

impunctate, shining, not much contracted behind, not limited by any linear impression, but by the closely sculptured and minutely pubescent lateral portions; basal segment of *abdomen* carinate.

1692. *C. lævigatus*, *n.s.* Sub-ovate, only moderately convex, nude above, minutely and densely sculptured, with a few scattered, inconspicuous punctures; slightly glossy, piceous, elytra often reddish, legs dark-rufous, tarsi, palpi, and antennæ testaceous, club darker.

Head broader than long, nearly plane; *epistome* truncate in front; eyes not prominent. *Thorax* transverse, base and apex somewhat bisinuate, sides nearly straight and finely margined, narrowed towards the front. *Scutellum* small, triangular. *Elytra* slightly broader than thorax at the base, moderately narrowed posteriorly, side rims fine, still finer near the apices, without striæ or distinct punctures. *Tibiæ* stout, densely and finely sculptured, and bearing short, distant spines. *Underside* pitchy, its depressed parts finely and densely sculptured; thighs shining; hind *coxa* covered with minute brassy setæ.

Length, 1 line; breadth, quite $\frac{1}{2}$.

Found amongst sea-weeds on Mokohinau Island, by Mr. P. Stewart-Sandager.

Group—ALEOCHARIDÆ.

Calodera (p. 93).

1693. *C. algophila*, *n.s.* Narrow and elongate, densely clothed with long, slender, yellow hairs; head and thorax usually opaque, the former pitchy-brown, the latter paler; elytra infuscated; abdomen variegated-castaneous, fifth segment darkest; legs and antennæ fulvous; palpi infuscate.

Head elongate, oviform, its punctation rather coarse and close but not deep; forehead rufescent and nearly smooth; eyes moderate; maxillary palpi pilose, penultimate joint rather thick, the last minute. *Antennæ* elongate, the two basal joints equally elongate; third longer than the following ones, obconical; 8-10 transverse. *Thorax* scarcely larger than head, sub-oblong, slightly narrowed behind; its punctation close but fine. *Elytra* less than twice the width of thorax, not much longer than broad, apices obliquely truncate, their sculpture rather close and shallow. *Hind-body* long, gradually dilated posteriorly, the apex of each (except the last) with numerous broad short grooves separated by carinate intervals. *Legs* slender; tibiæ linear, bearing conspicuous yellow hairs; hind claws elongate. *Underside* moderately glossy, castaneous, sternum pitchy, finely sculptured and densely pubescent.

Nos. 171, 172, 173, 174, and 175 belong to this genus, of which the name *Dasynotus* proves to be a synonym. This is the only species without thoracic depressions.

Length, $1\frac{1}{2}$ - $1\frac{3}{4}$ lines; breadth, $\frac{3}{8}$.

I am indebted to Mr. P. Stewart-Sandager for this species. It lives amongst sea-weeds on Mokohinau Island.

Group—XANTHOLINIDÆ.

Cafius (p. 101).

1694. *C. caviceps*, *n.s.* Black, bearing some long, erect, fuscous hairs; elytra sub-opaque, and, like the hind-body, densely clothed with depressed ash-coloured hairs.

Head large, quadrate, front of forehead obliquely emarginated; broadly concave from the front to the middle, this cavity bifoveolate; vertex very densely and minutely granulated, its sides and hind angles, and to a less extent the back part also, with many round depressions having in each a puncture with raised margins; mandibles robust, not much arched, pitchy-red. Terminal joint of maxillary palpi usually red. *Antennæ* (except the three shining, rufo-piceous, basal joints) opaque and densely pubescent. *Thorax* rather longer than broad, rounded and broadest near the front, widely sinuously narrowed backwards; with a row of moderately large punctures not reaching base nor apex down each side of the middle, a smaller series on each side, and another short row near the front angle. *Scutellum* and *elytra* densely sculptured, the apices of these latter obliquely rounded towards the suture; they are longer than broad. *Hind-body* narrower than the elytra, finely and densely sculptured. *Legs* moderate, tibiæ setose externally, the four basal joints of the front tarsi dilated and pilose. *Underside* blackish, densely covered with small cinereous hairs; fourth, fifth, and sixth abdominal segments bipunctate.

♂. Length, $6\frac{1}{2}$ lines; breadth, $1\frac{1}{8}$.

♀. Head much smaller, quadrate, nearly plane, with two inter-ocular foveæ, its punctation similar to that of the male. ($5\frac{3}{4}$ lines \times 1.)

Found by Mr. P. Stewart-Sandager amongst algæ on Mokohinau Island.

Obs.—Lacordaire considers *Cafius* to be the same as *Othius*. Nos. 201 and 202 belong to this genus.

Group—HOMALIDÆ.

Homalium (p. 115).

1695. *H. litoreum*, *n.s.* Fuscous; palpi and legs, the last and the greater portion of the penultimate dorsal segments, a large basal space on each elytron, and the first two joints of the antennæ fulvous or chestnut-red; the other antennal joints black; clothed with short, semi-erect, yellowish hairs; two round spots on the second dorsal segment formed of minute brassy setæ, and the first similarly ciliated; moderately glossy.

Head feebly, longitudinally, bi-impressed in front, its middle part nearly smooth, the sides finely and closely sculptured, but with only a few fine punctures; the ocelli simple, yellow; eyes large and prominent. *Antennæ* elongate, basal joint as long as third, stout; second quite half as long as first; third elongate, slender at base; fourth and fifth equal; joints 4–10 pubescent, decreasing in length but becoming broader, the point of articulation of each slender;

eleventh sub-ovate. *Prothorax* transverse, finely marginated, sides rounded in front but nearly straight behind, base a little sinuous, hind angles obtusely rectangular; disc convex, with a few fine punctures, which become more numerous near the sides; its whole surface, like the scutellum, more or less closely and finely sculptured. *Elytra* rather longer than broad, wider than thorax, obtusely rounded behind, with fine sutural striæ, their punctation fine but not close. *Hind-body* finely sculptured, impunctate. *Tibiæ* linear, with fine yellow bristles; claws thickened at base. *Underside* (barring the two reddish ventral segments) dark-brown, densely and finely sculptured; metasternum sparingly punctured; clothed with short yellow hairs; basal segment carinate on the middle, last segment deeply and broadly grooved, the edges of the groove carinate.

♂. Length, $1\frac{3}{4}$ lines; breadth, quite $\frac{1}{2}$.

Habitat, Mokohinau, amongst sea-weeds. Mr. Sandager.

Obs.—Nos. 219, 220, and 221 belong to *Ischnoderus*.

Group—PSELAPHIDÆ.

Pselaphus (p. 122).

1696. *P. cæcus*, *n.s.* Slender, much narrowed anteriorly, a little convex; shining, red, legs and antennæ rufo-fulvous, tarsi and palpi yellow; clothed with very fine brassy hairs.

Head very elongate, scarcely rounded laterally, comparatively coarsely punctured, nearly plane in front, the occiput convex, with a shallow, smooth impression proceeding from between the tubercles to the vertex. *Eyes* exceedingly minute, hardly distinguishable. *Palpi* very slender, second joint long, a little thickened at base, more so at the extremity; third small; fourth thickened at the base, but becoming very slender, its club stout. *Antennæ* shorter than the palpi, moderately stout, basal articulation cylindrical; second almost as stout, but one-third shorter; joints 3–7 nearly equal; eighth and ninth sub-oblong; tenth somewhat transverse; eleventh large. *Thorax* elongate-oval, obsoletely punctate. *Elytra* not greatly exceeding the thorax in length, very much narrowed towards the shoulders, impunctate, sutural striæ distinct and very much expanded and deepened at the base, apices widely incurved, with a small but deep sutural notch. *Hind-body* not punctured. *Legs* elongate, tibiæ a little expanded and curved towards the extremity. *Metasternum* deeply concave, its apex ciliated; basal segment broadly impressed.

The abortive eyes and peculiarly elongate, coarsely-punctured head are quite distinctive.

Length, $\frac{5}{8}$ line; breadth, nearly $\frac{1}{4}$.

Found amongst vegetable matter on the ground, near Howick.

1697. *P. delicatus*, *n.s.* Sanguineous, tarsi and palpi yellow, antennæ red, but becoming paler towards the extremity; shining, clothed with longish, slender, yellow hairs.

Head elongate, oviform, punctate, the inter-antennal channel continuous, with two inter-ocular foveæ; eyes small but prominent, composed apparently of three large facets. *Palpi* long and slender,