

A NEW AUSTRALIAN SPECIES OF *CALODEMA* (COLEOPTERA: BUPRESTIDAE)

by S. BARKER

Summary

BARKER, S. (1993) A new species of Australian *Calodema* (Coleoptera: Buprestidae). *Trans. R. Soc. S. Aust.* 117(4), 191–192, 30 November, 1993.

A new species of *Calodema*, *C. rubrimarginatum* sp.nov. is described from Queensland. The species is spectacularly coloured and increases to four the number of recognised species in Australia.

KEY WORDS: Coleoptera, Buprestidae, new species, *Calodema*.

Introduction

The genus *Calodema* LaPorte & Gory, 1837, erected to accommodate *C. regale*, comprises a number of large and spectacular species found in rainforest in Australia and New Guinea and some adjacent islands. Adults feed on flowering trees high in the canopy of the forest and are particularly difficult to collect. The species described below has been collected recently in Queensland for the first time. A revision of the genus is in preparation.

Calodema rubrimarginatum sp.nov.

FIG. 1

Holotype: ♂, Rex Ra., Qld, 3.ii.1993, J. Hasenpusch, Queensland Museum T13006.

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Allotype: ♀, same data as allotype, A. Hay, Queensland Museum T13007.

Colour. Head green with purple reflections. Antennae green with gold reflections. Pronotum and scutellum green with purple reflections. Elytra yellow with narrow black basal margin; triangular blue-green mark with truncated apex at spines; red margin commencing at humeral callus, thickening apically.

Shape and sculpture. Head punctuation fine, even, dense; median impressed basal line; frons moderately hairy. Pronotum normal, L:W 0.65, punctuation fine, moderately dense, stronger and denser laterally; sides rounded from base to $\frac{1}{3}$ distance to apex, then explanate and converging anteriorly; anterior margin bisinuate, basally feebly bisinuate; median lobe truncate, median impressed line from base to $\frac{1}{4}$ distance to anterior margin. Scutellum scutiform, anterior margin straight, concave, without punctures,



Fig. 1a. Habitus illustration and b. Lateral view of *Calodema rubrimarginatum* sp.nov. holotype. Scale bar = 1 cm.

0.16 width of elytron. Elytra slightly wider than thorax; elytral interneurs long, jointed basally, with fine, shallow, dense punctuations, scutellary striae weak; short secondary interneurs inserted between primaries 1 and 2, longer between primaries 3 and 4, 5 and 6, 7 and 8 with additional punctuations on shoulders; intervals flat, sides subparallel then tapering to pre-apical areas; apex bisinuate, both spines small, interval between sinuous and projecting close to medial spine, lateral spine anterior to medial spine. Prosternum hairy, smooth medially almost devoid of hair; hairy and finely punctuated at the sides. Conical process with well defined anterior projection in female, smaller in male; proepisternum with coarser punctuations, dense medially, very sparse almost smooth laterally, with deep smooth fossa in posterior angle. Mesosternum and metasternum smooth medially, hairy with fine moderately dense punctuation laterally. Abdomen smooth and shiny, punctuations very fine; S7: male deeply concave; female truncate.

Size: Male 34.0 × 13.5 mm (l). Female 36.3 × 14.3 mm (l).

Remarks: This species differs from the three Australian congeners in the following ways: *C. regale* and *C. wallacei*, have round colour spots on the pronotum and neither has a red margin; *C. plebeium* has an entirely red pronotum and red elytra with black fascia.

Etymology: Derived from *rubrico* L., red and *margino* L., margin.

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Reference

- LAPORTE, F. L. & GORY, H. (1837) "Histoire naturelle et iconographie des Insects Coleopteres" vol. 2 Suite aux Buprestides (P.Dumenil, Paris).



Barker, Shelley. 1993. "A new Australian species of *Calodema* (Coleoptera: Buprestidae)." *Transactions of the Royal Society of South Australia, Incorporated* 117, 191–192.

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