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A new species of *Cyphogastra DEYR.* (Coleoptera: Buprestidae) from Borneo

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Introduction

The very next day after the publication of my recent paper (HOŁYŃSKI 2023) supplementing the hitherto elaborated parts of my **Review**, I received a parcel with two specimens of *Cyphogastra DEYR.* kindly sent me for examination by Vincent DUCHATEAU. These specimens, labelled as originating from the northwestern part of Borneo, proved to represent a new species (perhaps the only known Bornean representative of *Cyphogastra DEYR.*: the occurrence of *C. impressa borneensis KERR.* at the southeastern angle of the island needs confirmation), closely resembling (and evidently related to) geographically remote *C. incolans HOŁ.* of the *Satrapa*-circle (HOŁYŃSKI 2021). Having received these specimens too late to include the description in the just closed "*Addenda & corrigenda*" (HOŁYŃSKI 2023) I must publish it separately herein.

Conventions

Like in my other publications (unless "corrected" by editors...), I follow the very useful conventions of applying (of course, except wordly citations, where the original form must be retained) SMALL CAPS to ***all*** [irrespective of context and full *vs.* abbreviated version: inconsistent use deprives the display of any sense!] personal FAMILY- (***not*** given-) names, *italicizing* species- and genus-group names (as well as citations and words in languages different from that of the main text), and writing the suprageneric taxon-names in **Bold** [the latter is not a generally accepted custom, but is often important, as some of such names (*e.g.* of the subtribes **Buprestina LEACH**, **Melobasina BÍLÝ** or **Coraebina BED.**) are (or may easily become) "homonymous" (but valid!) with [sub-]generic ones (*Buprestina OBB.*, *Melobasina KERR.*, *Coraebina KERR.*)]

Labels of type-specimens are quoted as exactly as possible, including *italics* and ***handwriting*** (represented by ***bold italics***), CAPITAL LETTERS, SMALLCAPS, framing, colour of text and approximate colour of the label. Individual labels are cited in quotation marks "", separation of consecutive rows on labels marked by ||. Determination (white, in the form like "***Cyphogastra duchateaui HOŁ.***, det. R. HOŁYŃSKI" with year of determination written vertically on the left side) and type-designation [red for primary types, *e.g.* "***Cyphogastra duchateaui HOŁYŃSKI***, HOLOTYPE", green for paratypes, *e.g.* "***Cyphogastra duchateaui HOŁYŃSKI***, PARATYPE"] labels added by me are not cited.

Abbreviations:

H	=	width of head with eyes
V	=	width of vertex between eyes
BP***	=	(*e.g.* BPm-w): specimen-identifying signature in my collection
≈	=	approximately equal
||	=	sign separating data in different rows on the quoted labels

Collection acronyms:

DF	=	David FRANK, Prague [CZECHIA]
RBH	=	Roman B. HOŁYŃSKI, Milanówek, POLAND
VD	=	Vincent DUCHATEAU, Hautmont, FRANCE

[*for other followed conventions, explanations of terms, abbreviations &c. please – if needed – consult earlier parts of the Review*].

Cyphogastra DEYR.

C y p h o g a s t r a D E Y R. s. s t r.

Cyphogastra DEYROLLE 1864: 36-37

[type-species: *Buprestis foveicollis BOISDUVAL 1835 =Cyphogastra ventricosa (OLIVIER 1790)*]

Cyphogastra (s.str.) duchateaui sp.n.

Material examined:

Holotype: "Cyphogastra sp || Mt Bawang 1350m – W.Kalimantan || INDONESIE || IV.2022" [♂ (VD)]

Paratype: "***Cyphogastra sp.*** || ***Mt Bawang 1350m – W.Kalimantan*** || ***INDONESIA*** || ***IV.2022***" [♂ (RBH: BPm-v)]

Additional material: none

Holotype [Fig. 1]: Male 25×7.5 mm. Head and pronotum dull golden-green with bronzy reflexions; elytra purplish with dark violaceous-blue apical half of sutural interstriae, black apices, and cupreous apical halves of two perimarginal striae separated by indefinite greenish stripe from disk; ventral side golden-green. Dfp areas covered with dense, recumbent whitish pubescence and ochraceous pulverulence; median sulcus of prosternal process and anterior part of metasternal sulcus filled with very dense but short erect pubescence; body otherwise glabrous.

Epistome broadly arcuately emarginate; poorly elevated epistomal ridge trapezoidal; supraepistomal carina biarcuate, transverse depression below it deep, finely punctulated. Front wider than long, sides divergent; frontal depression deep, triangular, reaching distinctly beyond upper margins of eyes; anterior cavity broadly triangular, rather finely but densely punctured, otherwise punctulation of front very fine and sparse, that of vertex behind the eyes somewhat coarser and denser; median groove deep and broad anteriorly, vanishing upwards; lateral ridges blunt; periocular sulci broad and deep but short, abruptly ending at ocular midlength; V:H≈0.5. 1. antennal joint club-shaped, robust, *ca.* twice longer than thick; 2. somewhat wider than long, *ca.* 5× shorter and much thinner than 1.; 3. flattened, elongately triangular, as long as wide but narrower than 1.; 4. as long as 3. but much wider, twice longer than wide; 5.– 9. progressively shorter and narrower: 10. only *ca.* half as long and *ca.* 0.7× as wide as 3.; 11. *ca.* 1.5× longer than 10., asymmetrically subovate.

Pronotum transverse, sides straight, parallel; basal angles acute and slightly directed outwards; anterolateral well marked but not protruding; collar indefinite; base bisinuate, prescutellar lobe shallowly arcuate; anterior margin inconspicuously sinuate on both sides of broadly truncated median lobe. Median depression moderately deep, not distinctly striated but finely, not very densely punctulated at bottom; puncturation of elevated parts of disk fine and

very sparse; laterobasal fossae elongately c-shaped, sparsely irregularly punctured, not dfp; anterior foveae not individualized; prehumeral relief very elongate, irregularly quadrangular, neither very coarsely nor very densely punctured. Scutellum trapezoidal, as long as wide, almost impunctate, medially sulcate.

Elytra without subhumeral protrusion, sides slightly divergent in basal sixth, parallel to near midlength, then very shallowly sinuately convergent to inconspicuously caudate, jointly rounded and sharply denticulate apices. Elytral puncturation moderately coarse at base, gradually finer backwards, arranged into not quite regular longitudinal rows; no trace of dfp depressions or sulci.

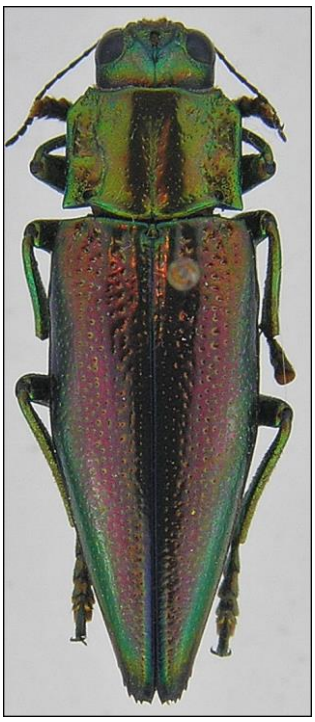

Fig. 1
Cyphogastra duchateaui sp.n.
HT ♂ [VD], Borneo: Mt. Bawang

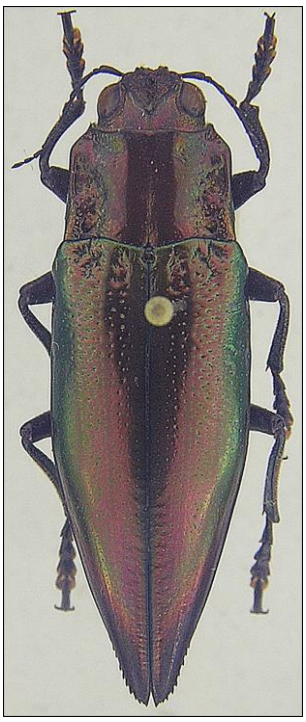

Fig. 2
Cyphogastra incolans HOŁ.
HT ♂ [DF], New Guinea: Fakfak

Proepisterna entirely dfp; median sulcus of prosternal process very broad, cuneately tapering to apex, dfp at bottom; lateral rims very narrow, almost impunctate; metasternum deeply sulcate along midline anteriorly, narrowly furrowed in apical $^{2}/_{3}$, disk very finely and sparsely punctured, sides extensively dfp. Abdominal plaque finely but not very sparsely elongately punctulate, rather low, roundedly right-angled in profile; sides of abdomen entirely dfp (lateral dfp bands not separated from middiscals), puncturation along midline rather fine but moderately dense; apex of anal sternite deeply triangularly emarginated.

Variability: Paratype male almost identical to the holotype in general outlook but somewhat smaller (24×7 mm.), with elytral disk more golden, cupreous perimarginal stripe indistinct, proepisterna with extensive elevated non-dfp parts, sulcus of prosternal process narrower, abdomen less extensively dfp: perimarginal and middiscal bands distinctly separated. Female unknown.

Geographical distribution [Map 1]: Known only from the type-series collected on Mt. Bawang (W-Borneo: $0^{0}55$ N-$109^{0}23$ S).

Remarks: *C. duchateaui sp.n.* seems to belong to the *Satrapa*-circle, its closest relative being apparently *C. incolans* HOŁ. **[Fig. 2]** from Fakfak (Bomberai Peninsula, westernmost New Guinea) differing in uniform bronzed colouration, distinct subhumeral protrusions, finer punctulation and acute apices of elytra, and some minor details. Besides somewhat uncertain occurrence of *C. impresa borneensis* KERR. in SE Borneo it is the only known inhabitant of that island, probably (with its apparent "sister" *C. incolans* HOŁ.) a remnant of a primitive group ancestral to both the *Satrapa*- and *Javanica*-circles, outcompeted by more derived descendans in the center of dispersal and dislodged to peripheries (centroactive evolution – HOŁYŃSKI 1999, 2009).

Map 1
Geographical distribution of the *C. incolans* HOŁ. group
● – *C. duchateaui sp.n.*; ● – *C. incolans* HOŁ.

Acknowledgements:

I am greatly indebted to Vincent DUCHATEAU for having kindly sent me these interesting specimens for examination and study.

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