

Notes on the the genus *Cyphogastra*
(Coleoptera: Buprestidae: Chrysochroinae)
with description of two new subspecies from Indonesia

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Abstract. Two new subspecies of the genus *Cyphogastra* (Coleoptera: Buprestidae: Chrysochroinae) from Indonesia are described: *Cyphogastra (Cyphogastra) javanica skalarosenbaumi* subsp. nov.: from Molu Island and *C. (C.) staudingeri holynskii* subsp. nov.: from Teon Island. Both new subspecies belong to *Cyphogastra javanica* species-group. Lectotypes are designated for following taxa to provide the objective standard of reference for the application of the name they bear: *Cyphogastra abdominalis* Waterhouse, 1892; *C. splendens* Waterhouse, 1884 and *C. staudingeri* Kerremans, 1900. Distributional records for *C. (C.) javanica javanica* Saunders, 1871; *C. (C.) javanica skalarosenbaumi* subsp. nov.; *C. (C.) staudingeri staudingeri*; *C. (C.) staudingeri holynskii* subsp. nov. and *C. (C.) strandi* Obenberger, 1922 are provided. Habitus and male genitalia of all treated taxa are illustrated with colour photographs.

INTRODUCTION

Deyrolle (1864) established the genus *Cyphogastra* for fifteen species all of which remain in the genus today. Early 20th century Kerremans (1909, 1910) revised *Cyphogastra* in his monograph where the genus was split into two years. The first page [160] was published as a final page of 'Livraison 5' which was published in 1909. Following part of the genus *Cyphogastra* is in 'Livraison 6' (starting from page 161, 16-page printing sheet number 11) published in 1910 (Bellamy, 1998b). Hołyński has been revising this genus continuously since 1992 until present (1992a-b, 2019, 2020a-d, 2021a-c, 2022a-b, 2023a-c, 2024a-b, 2025), and establishes species-groups in his works.

MATERIAL AND METHODS

The descriptions are based on the study of type material and additional available specimens.

The length of body was measured as the distance between the anterior margin of head and the apex of elytra. The width of body was measured at the widest point across elytra. The length of aedeagus was measured as the distance between its base and the apex of parameres. The width of aedeagus was measured at its widest point. Values in brackets indicate unusual minimum or maximum values present in one or two specimens of a respective taxon.

Map of distribution (Fig. 32) was produced and edited in QGIS Desktop 3.30.2. For map layers, free level 0 and level 1 data from Global Administrative Areas (<http://www.gadm.org>, ver. 2.8) and Natural Earth (<http://naturalearthdata.com>, Cross Blended Hypso with Relief, Water, Drains, and Ocean Bottom) were used. The map was finalized in Zoner Photo Studio X.

Authors of photographs are following: Svatoslav Vrabec (Figs. 5-6, 15-20, 23-26, 29, 31) and David Frank (Figs. 1-4, 7-8, 9-14, 21-22, 27-28, 30).

The names of states and provinces mentioned in the examined material, and the length in lines (English = 2.12 mm, French = 2.26 mm) follow the conventions used by Wikipedia (en.wikipedia.org). All old maps were studied on <https://www.oldmapsonline.org/>.

Verbatim label data are cited for all type specimens: a double vertical line (||) divides the data

on different labels and a single vertical line (|) divides the data in different rows. Type localities are cited in the original spelling. Other comments and remarks are placed in square brackets: [p] - preceding data are printed, [h] - preceding data are handwritten, [w] - white label, [r] - red label, [y] - yellow label. Old labels which are not bright white but white-brown or creamy coloured are indicated [w(c)].

All examined type specimens were provided with an additional red printed label (with handwritten date) expressing the type status of each specimen. Their design is shown in Figs. 21 and 22 and the exact wording is cited at the 'Type material examined' of each taxon.

Some of determination labels have a handwritten number on underside. The numbers have no special meaning and refer only to my private database.

Examined specimens are deposited in following collections:

- BMNH Natural History Museum, London, United Kingdom (Maxwell V. L. Barclay, Michael Geiser);
DFPC David Frank collection, Prague, Czech Republic;
JPCC Jiří Prokop collection, Chodov, Czech Republic;
MNHN Muséum National d'Histoire Naturelle, Paris, France (Antoine Mantilleri);
NMPC National Museum, Prague, Czech Republic (Lukáš Sekerka);
RHMP Roman B. Hołyński collection, Milanówek, Poland;
SJPC Stanislav Jákł collection, Prague, Czech Republic;
VDHF Vincent Duchateau collection, Hautmont, France.

TAXONOMY

Cyphogastra Deyrolle, 1864

Eubiotes [nomen oblitum] Gistel, 1848: 36 (type species: *Chrysodema semipurpurea* Laporte de Castelnau & Gory, 1837 by monotypy).

Cyphogastra Deyrolle, 1864: 36 (type species: *Buprestis foveicollis* Boisduval, 1835 [= *C. (C.) ventricosa* (Olivier, 1790)] fixed by subsequent designation: Bellamy (1998a): 10). [Note: name placed on Official List of Generic Names in Zoology with type species 'foveicollis' by ICZN (2002): Opinion 2008]

subgenus *Guamia* Théry, 1930: 50 (type species: *Cyphogastra auripennis* Saunders, 1867 fixed by subsequent designation: Hołyński (1992): 24).

subgenus *Hivaia* Hołyński, 2024b: 48 (type species: *Cyphogastra taitina* Kerremans, 1919 by original designation).

subgenus *Pleiona* Deyrolle, 1864: 12 (type species: *Chrysodema tayautii* Guérin-Méneville, 1847 by monotypy).

Cyphogastra (*Cyphogastra*) Deyrolle, 1864

Eubiotes [nomen oblitum] Gistel (1848): 127 (original description); Bellamy (2003): 33 (catalogue, as synonym of *Cyphogastra*); Bellamy (2006a): 150 (explanation of nomen oblitum); Bellamy (2008): 482 (catalogue, in synonymy of *Cyphogastra*).

Cyphogastra Deyrolle (1864): 12 (key to genera), 36 (original description), 37 (key to species); Saunders (1868): 7 (Australian genera); Gemminger & Harold (1869): 1360 (catalogue); Saunders (1871): 17 (catalogue); Kerremans (1885): 46 (catalogue); Masters (1888): 313 (catalogue); Kerremans (1892): 46 (catalogue); Kerremans (1893): 106 (key to genera); Kerremans (1900a): 287 (species synonymization); Kerremans (1903): 86 (catalogue); Heyne & Taschenberg (1908): 133 (selected taxa, noted); Kerremans (1909): 160 (monograph); Kerremans (1910): 161 (monograph), 162 (key of species); Kerremans (1911): 294 (synonymization, new taxa); Carter (1921): 304 (key to genera); Bernet Kempers (1923): 90 (wing venation); Obenberger (1926): 115 (catalogue); Théry (1926): 67 (synonymization, new taxa); Obenberger (1928a): 100 (noted); Obenberger (1928b): 31 (noted); Carter (1929): 300 (catalogue); Bellamy (1985): 414 (catalogue); Bellamy (1986): 594 (catalogue); Cobos (1986): 15 (noted); Hołyński (1993): 13 (catalogue); Hołyński (1994): 69 (noted); Bellamy (1998a): 10 (type species designation); Akiyama & Ohmomo (2000): Pl. 46-48, Figs. 491-520 (iconography); Hołyński (2001): 52 (noted, distribution); Volkovitsh (2001): 46 (classification, phylogeny); ICZN (2002): 128 (names conserved); Bellamy (2002): 53 (Australian species); Bellamy (2006a): 53 (explanation of nomen protectum); Bellamy (2006b): 23 (noted); Hołyński (2014a): 373 (noted); Hołyński (2014b): 387 (noted); Hołyński (2018): 18 (noted); Štrunc (2022): 172 (iconography); Williams, Mitchell & Sundholm (2024): 7 (monograph, bionomy).

Cyphogastra (*Cyphogastra*): Théry, 1930: 50 (noted); Hołyński (1992a): 21 (revision of sg. *Pleiona*); Hołyński (1992b): 29 (revision of *suturalis*- circle); Hołyński (1997): 183 (noted), 188 (catalogue); Bellamy (2003): 33 (catalogue); Bellamy (2008): 482 (catalogue); Hołyński (2009): 292 (redescription); Hołyński (2016): 56 (new species descriptions); Hołyński

(2019): 26 (revision of *albertisi*- circle); Holyński (2020a): 23 (supplementary notes); Holyński (2020b): 29 (revision of *tinianica*-, *armata*-, *uxorismaeae*-, *bruyini*- and *flavimana*- circles); Holyński (2020c): 67 (revision of *tuberculata*-, *satrapa*- and *collarti*- circles); Holyński (2020d): 101 (revision of *gestroi*- and *javanica*- circles); Holyński (2021a): 7 (supplementary notes); Holyński (2021b): 15 (revision of *satrapa*- circle); Holyński (2021c): 19 (revision of *farinosa*- and *canaliculata*- circles); Holyński (2022a): 1 (revision of *modesta*-, *obloquens*-, *ventricosa*- and *pistor*- circles); Holyński (2022b): 39 (supplementary notes); Holyński (2023a): 1 (addenda & corrigenda); Holyński (2023b): 13 (new species description); Holyński (2023c): 17 (supplementary notes); Holyński (2024a): 1 (revision of *gloriosa*- and *woodlarkiana*- circles); Holyński (2024b): 47 (supplementary notes); Holyński (2025): 1 (supplementary notes).

Type-species: *Buprestis foveicollis* Boisduval, 1835 [= *C. (C.) ventricosa* (Olivier, 1790)] fixed by subsequent designation: Bellamy (1998a): 10. [Note: name placed on Official List of Generic Names in Zoology with type species '*foveicollis*' by ICZN (2002): Opinion 2008]

Cyphogastra javanica species-group

Cyphogastra javanica 'circle' [species-group] was established (for 14 species) and revised by Holyński (2020d) including keys to species-groups and species of *C. javanica* species-group. Later Holyński (2023a) described *C. (C.) kubaryi* and (2025) three more species. Two new subspecies are described herein.

Cyphogastra javanica species-group contains following taxa (18 species and 2 subspecies): *Cyphogastra (Cyphogastra) aerata* Holyński, 2025; *C. (C.) alicunde* Holyński, 2025; *C. (C.) angulicollis* Deyrolle, 1864; *C. (C.) calepyga* (J. Thomson, 1857); *C. (C.) cribrata* Deyrolle, 1864; *C. (C.) javanica javanica* Saunders, 1871; *C. (C.) javanica skalarosenbaumi* **subsp. nov.**; *C. (C.) kubaryi* Holyński, 2025; *C. (C.) lateralis* Kerremans, 1898; *C. (C.) plana* Holyński, 2020; *C. (C.) rollei* Théry, 1908; *C. (C.) romanensis* Théry, 1926; *C. (C.) rothschildi* Kerremans, 1911; *C. (C.) rudior* Holyński, 2025; *C. (C.) semipurpurea* (Laporte de Castelnau & Gory, 1837); *C. (C.) staudingeri staudingeri* Kerremans, 1900; *C. (C.) staudingeri holynskii* **subsp. nov.**; *C. (C.) strandi* Obenberger, 1922; *C. (C.) transmarina* Holyński, 2020; *C. (C.) wetteriana* Théry, 1935.

Cyphogastra (Cyphogastra) javanica javanica Saunders, 1871

(Figs. 1-8, 27, 32)

Chrysodema ventricosa [misidentification, see 'Remarks']: Laporte de Castelnau & Gory (1837): 20 (redescription, incl. colour fig. 27, Pl. 5).

Cyphogastra ventricosa [name misapplication]: Saunders (1871): 17 (catalogue, 'name cited in error' under *Cyphogastra javanica*); Kerremans (1885): 128 (catalogue, as synonym of *C. javanica*); Ritsema (1885): 16 (in synonymy of *C. javanica*); Kerremans (1892): 48 (catalogue); Kerremans (1895): 357 (catalogue, as synonym of *C. javanica*); Kerremans (1900a): 287 (in synonymy of *C. javanica*); Kerremans (1903): 87 (catalogue, in synonymy of *C. javanica*); Kerremans (1910): 211 (monograph, in synonymy of *C. javanica*); Obenberger (1926): 118 (catalogue, in synonymy of *C. javanica*);

Cyphogastra (Cyphogastra) ventricosa [name misapplication]: Bellamy (2008): 491 (catalogue, unavailable name under *C. (C.) javanica*); Holyński (2020d): 111 (available name in synonymy of *C. (C.) javanica*).

Cyphogastra javanica Saunders (1871): 17 (catalogue, nomen novum for *Cyphogastra ventricosa* sensu Laporte de Castelnau & Gory, 1837); Kerremans (1885): 128 (catalogue); Ritsema (1885): 16 (synonymization of *C. ventricosa* and *C. splendens*); Kerremans (1892): 48 (catalogue, as synonym of *C. ventricosa* (Laporte de Castelnau & Gory, 1837)); Kerremans (1895): 357 (noted, catalogue); Kerremans (1900a): 287 (noted); Kerremans (1903): 87 (catalogue); Kerremans (1910): 166 (key of species), 211 (redescription); Obenberger (1926): 118 (catalogue); Obenberger (1936): 108 (key to varieties); Akiyama & Ohmomo (2000): Pl. 48, Figs. 514-1, 514-2 (iconography).

Cyphogastra (Cyphogastra) javanica: Bellamy (2008): 491 (catalogue); Holyński (2020d): 108 (key to species), 111 (redescription).

Cyphogastra splendens Waterhouse (1884): 215 (original description, incl. colour Fig. 2, Pl. 16); Ritsema (1885): 16 (as synonym of *C. javanica*); Kerremans (1892): 48 (catalogue); Kerremans (1895): 357 (catalogue, as synonym of *C. javanica*); Kerremans (1900a): 287 (in synonymy of *C. javanica*); Kerremans (1903): 87 (catalogue, in synonymy of *C. javanica*); Kerremans (1910): 211 (monograph, in synonymy of *C. javanica*); Obenberger (1926): 118 (catalogue, in synonymy of *C. javanica*);

Cyphogastra (Cyphogastra) splendens: Bellamy (2008): 491 (catalogue, in synonymy of *C. (C.) javanica*); Holyński (2020d): 111 (in synonymy of *C. (C.) javanica*).

Cyphogastra prasinicollis Obenberger (1922): 65 (original description); Obenberger (1926): 119 (catalogue); Obenberger (1936): 108 (as abberation of *C. javanica*).

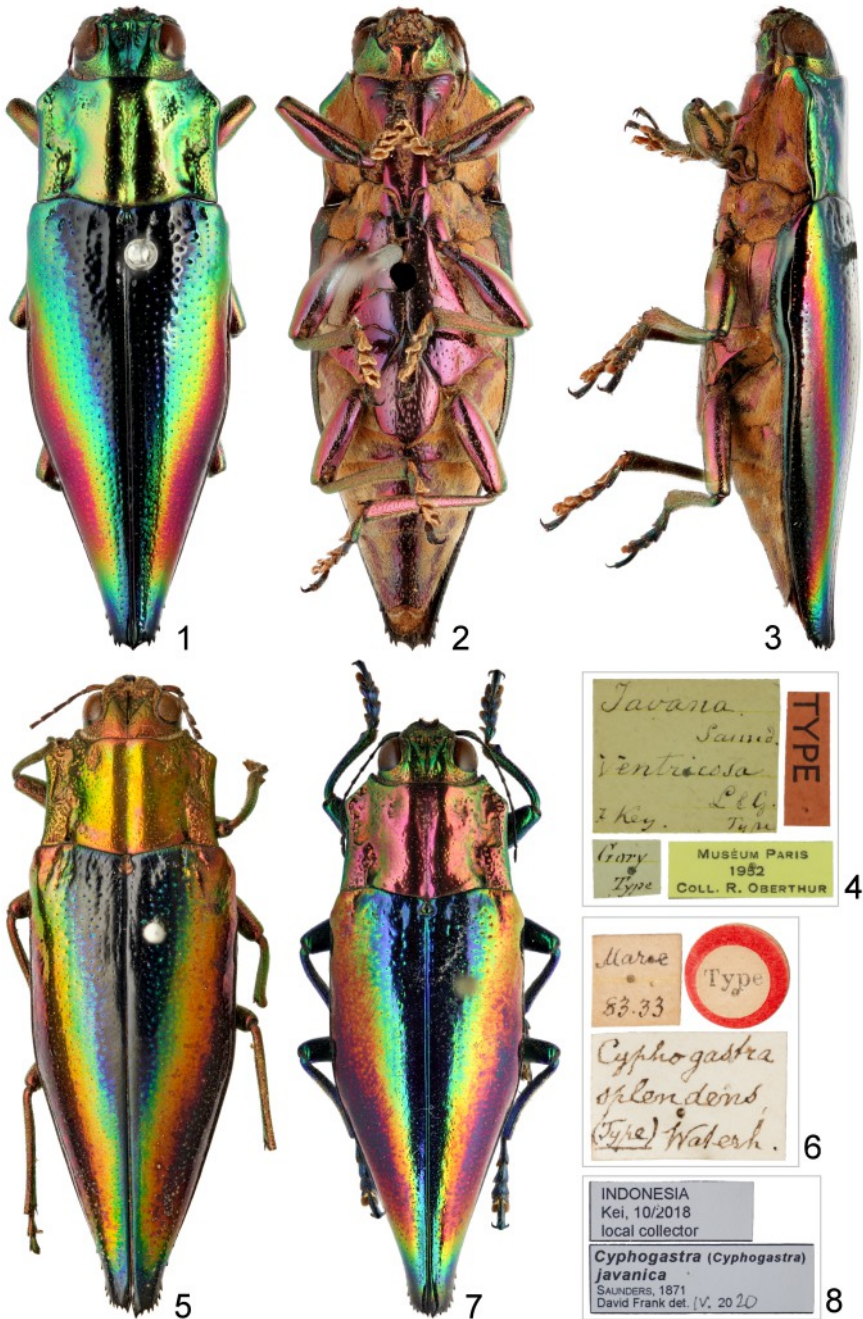
Cyphogastra (Cyphogastra) prasinicollis: Bellamy (2008): 491 (catalogue, in synonymy of *C. (C.) javanica*); Holyński (2020d): 111 (in synonymy of *C. (C.) javanica*).

Cyphogastra javanica ab. *Embrikiella* Obenberger (1936): 109 (unavailable infrasubspecific name).

Cyphogastra (Cyphogastra) javanica ab. *embrikiella*: Bellamy (2008): 491 (catalogue, as unavailable name under *C. (C.) javanica*); Holyński (2020d): 111 (revision, as unavailable name under *C. (C.) javanica*).

Cyphogastra javanica ab. *embrik-strandina* Obenberger (1936): 109 (unavailable infrasubspecific name).

Cyphogastra (Cyphogastra) javanica ab. *embrikstrandina*: Bellamy (2008): 491 (catalogue, as unavailable name under *C. (C.) javanica*); Holyński (2020d): 111 (revision, as unavailable name under *C. (C.) javanica*).



Figs. 1-8. 1-4 - *Cyphogastra (Cyphogastra) javanica javanica* Saunders, 1871 (syntype, ♂ 29.00 mm, MNHN, Kei Isls.). 5, 6 - *C. (C.) splendens* Waterhouse, 1884 (lectotype, ♀ 38.75 mm, BMNH, Maru Is.) = *C. (C.) javanica javanica*. 7, 8 - *C. (C.) javanica javanica* (♂ 32.00 mm, DFPC, Kei Isls.). 1, 5, 7 - dorsal view; 2 - ventral view; 3 - lateral view; 4, 6, 8 - labels.

Type localities. *Cyphogastra javanica*: 'Java [sic]'; *C. splendens*: 'Maroe' [Indonesia, Maluku Province, Tanimbar Islands, Maru Island (ca 6°53'28"S, 131°29'10"E)]; *C. prasinicollis*: 'Key Island' [Indonesia, Maluku Province, Kei Islands (ca 5°40'4"S, 132°42'35"E)].

Type material examined. *Cyphogastra ventricosa* [replaced by *C. javanica*]: SYNTYPE: ♂ (29.00 × 9.25 mm; Figs. 1-4), 'Javana | Saund. | Ventricosa | L & G. | I. Key. Type [w, h] | Gory | Type [w, h] | TYPE [r, p] | MUSÉUM PARIS | 1952 | COLL. R. OBERTHUR [y, p]' (MNHN).

The specimen was provided with an additional red printed label: 'SYNTYPE ♂ | *Chrysodema ventricosa* | LAPORTE DE CAST. & GORY, 1837 | David Frank labelled V.2025 [date handwritten]' and also white printed label '*Cyphogastra (Cyphogastra) javanica javanica* | SAUNDERS, 1871 | David Frank det. V. 2025 [date handwritten]'.

Cyphogastra splendens: LECTOTYPE (present designation): ♀ (38.75 × 13.00 mm; Figs. 5-6), 'Maroe | 83.33 [w(c), h; yellow line at center] | Type [w, p; round, red border] | *Cyphogastra splendens* | (Type) Waterh. [w, h]' (BMNH).

The specimen was provided with an additional red printed label: 'LECTOTYPE ♀ | *Cyphogastra splendens* | WATERHOUSE, 1884 | David Frank des. V.2025 [date handwritten]' and also white printed label '*Cyphogastra (Cyphogastra) javanica javanica* | SAUNDERS, 1871 | David Frank det. V. 2025 [date handwritten]'.

Additional material examined (50 ♂♂, 56 ♀♀): INDONESIA: MALUKU PROV.: Kei Islands: Key, 1 ♀ (NMPC, ex coll. Kubáň); Maluku, Kai Isl., May 2001, 1 ♂ (NMPC, ex coll. Kubáň); Key Isl., 12 ♂♂, 4 ♀♀ (NMPC); Key-Inseln, 1 ♀ (NMPC); Key Isles, 1 ♀ (NMPC); Iles Key, 1 ♀ (NMPC); Key Insel, 2 ♀♀ (NMPC); Key Islands, 1900, 1 ♂ (NMPC); Key-Insel, 1 ♀ (NMPC, ex coll. Bílý); Key Ins., 1 ♀ (NMPC, ex coll. Bílý); Kei, Mei.2001, 1 ♀ (NMPC, ex coll. Kabourek); Kei, 10/2018, 11 ♂♂, 13 ♀♀ (DFPC). Kei Kecil Island: Indonesia, Kei-Isl., 10 km W. of Tual City, S 5°37'13" E 132°39'20"E, 17-20.ii.2011, O. Mehl. Leg., 3 ♂♂, 2 ♀♀ (2 ♂♂, 2 ♀♀ NMPC, ex coll. Kubáň; 1 ♂ DFPC); Kei Kecil, 05/[20]15, 1 ♀ (DFPC). Kei Besar Island: Kei Islands, Kei Besar, August 1993, 1 ♀ (NMPC, ex coll. Kabourek); Indonesia, Kei Besar Isl., ii.2005, 1 ♂ (NMPC, ex coll. Kabourek); Indonesia, Maluku, Kai Besar, Feb. 2017, 1 ♀ (DFPC). Dullah Island: Key-Inseln, Tual, C. Ribbe, 1 ♂ (NMPC, ex coll. Kubáň); Key-Inseln, Tual, C. Ribbe 1884, 1 ♀ (NMPC, ex coll. Nonfried); Key-Inseln, Tual, 1 ♂ (NMPC, ex coll. Bílý); Toael, Key, 1 ♀ (NMPC). Tayandu Island: Tayandu, Feb.2004, 2 ♀♀ (DFPC); KEI ISLS., Tayandu, Feb.2004, 1 ♀ (DFPC); Tayandu, Aug.2004, 1 ♀ (NMPC, ex coll. Kabourek); Tayandu, May 2015, 1 ♂, 2 ♀♀ (DFPC); Tayandu, Aug.2015, 1 ♀ (DFPC); Tayandu, Sep.2016, 12 ♂♂, 6 ♀♀ (DFPC); Tayandu, Oct.2016, 4 ♀♀ (DFPC); Tayandu, Mar.2017, 4 ♂♂ (DFPC). Kur Island: Kur, Aug.2004, 1 ♀ (NMPC, ex coll. Kubáň); Indonesien, Molukken, Kai-Archipel, Insel Kur, 8/2004, 2 ♀♀ (NMPC, ex coll. Kabourek); Indonesien, Kei Archipelago, Kur Island, viii/2004, 2 ♂♂, 1 ♀ (1 ♂, 1 ♀ NMPC, ex coll. Kabourek; 1 ♂ DFPC). Tanimbar-Kai Island: Indonesia, Tanimbar Kei Is., v.2000, 2 ♀♀ (NMPC, ex coll. Bílý).

Redescription of syntype (MNHN). Preserved ♂ specimen, right antenna missing from antennomere III and left from antennomere X. Length 29.00 mm, width 9.25 mm, length/width ratio: 3.14.

Body boldly navicular, abdominal part raising up to apex in lateral view, elytra colourful dark blue-black at center, green, copper and red stripes on sides, head and pronotum green, metallic and shiny, ventral side and legs violet with greenish reflections.

Head green with blue reflections, macropunctate, micropunctate and sparsely pubescent. Eyes large, oval. Frons 2.14× as wide as diameter of eye, impressed with deep medial sulcus. Labrum dark brown, pubescent. Antennae serrate from antennomere IV. Antennomere I (scape) and II (pedicel) dark green, metallic, sparsely macropunctate and pubescent, radícula (base of scape) and antennomeres from III brown, sparsely pubescent. Antennomere II ca. 4× shorter than III. Maxillae, labium, maxillary palpi and labial palpi brown, densely pubescent.

Pronotum green and shiny, rectangular, chamfered at anterior third, with very slightly biconcave sides, 1.38× as wide as long. Anterior margin arcuate, lobe moderately protruding, densely pubescent. Macropunctures dense and coarse on sides, finer at centre. Medial sulcus developed, deepest at base, macropunctured. Two small round impressions beside medial sulcus before anterior margin, impressions along lateral margins with sharp edge on outer side, very deep at base. Lateral margin green-violet, shiny. Basal margin bisinuate.

Scutellum small, almost triangular, green-black, with very slender medial sulcus.

Elytra slightly wider than pronotum at base, almost parallel-sided at basal half, strongly narrowing from mid-length, moderately caudate, sinuate in lateral view, serrate at apical part. Elytra colourful, discal dark blue-black triangular area reaching almost to apex is lined by: blue (very narrow), green, golden and dark red (widest) stripes, with colourful apex, macropunctate and sparsely micropunctate. Epipleura horizontal, green at basal half, green-violet at apical half, macropunctate and pubescent.

Legs violet with green reflections. Femora sparsely macropunctate and pubescent, fore and mid tibiae densely macropunctate and pubescent on inner side, sparsely on outer side, hind tibiae sparsely macropunctate and pubescent on inner side, densely on outer side. Tibiae with two apical ventral spurs. Tarsi metallic dark green-violet, pubescent, tarsal claws divergent and simple.

Ventral side dark green with blue reflections, metallic and shiny. Hypomeron very densely pubescent and covered by brown wax. Anterior margin of prosternum densely pubescent. Prosternal process biconcave-sided, arcuately narrowed at apex, approximately 2.6× as long as wide, macropunctate at central part, sparsely pubescent. Metasternum and abdominal ventrites II-V sparsely macropunctate and pubescent at central part, on sides very densely pubescent. Ventrite I split by metasternal process. Apical margin of ventrite V bisinuate.

Variation. Body ♂♂ (n = 35) length: 22.00-32.00 (average 27.38) mm, width: 7.00-10.50 (average 8.81) mm, length/width ratio: 3.00-3.28 (average 3.11); ♀♀ (n = 45) length: 25.00-43.00 (average 32.61) mm, width: 8.00-13.50 (average 10.72) mm, length/width ratio: 2.87-3.21 (average 3.04). Very variable in colour of pronotum, head and ventral side. They can be green, green-golden or violet in various combinations, but always metallic and shiny, and with green or greenish areas on head. Dark discal triangular area usually reaches almost to apex, it can be shortened but reaching at least to the second third. Aedeagus (n = 10) length: 6.09-6.82(7.23) (average 6.50) mm, width: 0.91-1.09(1.23) (average 1.06) mm, length/width ratio: 5.58-6.70 (average 6.18). Parameres slightly biconvex-sided, opened at apical third, apices of parameres rounded, pubescent; penis navicular, widest at mid-length, apex narrowed to a point and turned up from lateral view (Fig. 27).

Differential diagnosis. See Differential diagnosis under *C. (C.) javanica skalarosenbaumi* subsp. nov.

Distribution. Indonesia, Maluku Province, Kei Islands: Kei Kecil, Dullah, Kei Besar, Tayandu, Kur and Tanimbar-Kai islands, and probably also Tanimbar Islands: Maru Island [see 'Remarks'] (Fig. 32).

Remarks. Olivier (1790) described *Buprestis ventricosa* and the name was subsequently mentioned by Fabricius (1792, 1801) with reference to Olivier (1790). Laporte de Castelnau & Gory (1837) mentioned 'CHRYSODEMA VENTRICOSA. Fabr. Java.' (Fabricius has never described this taxon) but listed works of various authors in reference including Olivier (1790). According to descriptions and illustrations it is obvious that Laporte de Castelnau & Gory treated different taxon than Olivier. Saunders (1871) noticed this discrepancy and proposed a new name *Cyphogastra javanica* for the taxon mentioned by Laporte de Castelnau & Gory.

Laporte de Castelnau & Gory did not specify explicitly how many specimens they examined. They mentioned only depository in 'Du cabinet de M. Chevrolat', a single length and width measurement 'Long. 15 lig. Larg. 4 lig. ¼ [33.90 × 9.61 mm]' and a locality 'Java'. I found a male specimen in MNHN which corresponds to the description and is labelled as type (Figs. 1-4) but this specimen is different in size. Moreover, according to Horn & Kahle (1935) Buprestidae from Chevrolat's collection should be deposited via Kerremans in BMNH (but a specimen corresponding to the description was not found there) and also Cambefort (2006) did not mention Chevrolat's Buprestidae in MNHN collection. Therefore it is not entirely sure that the specimen truly belonged to the type series, however it was provided with a label 'Gory Type' by Deyrolle. I consider the specimen a syntype for the time being but restrain from lectotype designation until I have opportunity to study in detail all other collections potentially containing Chevrolat's material. The locality 'Java' is probably incorrect because

this species occurs on Kei Islands.

Waterhouse (1884) did not specify explicitly how many specimens he had at his disposal when describing *Cyphogastra splendens*. He mentioned only a single size 'Length. 17 ½ lines [37.10 mm]' and a locality 'Maroe'. I examined a female specimen labelled as type from BMNH (Figs. 5-6) with similar size (38.75 × 13.00 mm) and locality label 'Maroe'. The small difference could be due to measurement error or conversion from lines to millimeters, and this specimen is designated as a lectotype in order to conserve the status of this taxon and avoid any further misinterpretations.

Cyphogastra splendens is described from Maru Island but I have never seen another specimen from this island, it would be desirable to confirm the occurrence by more specimens. However, *C. splendens* is described from Maru Is. which is very near to Molu Is. where *C. javanica skalarosenbaumi* subsp. nov. occurs, the type specimen of *C. splendens* is within variability of *C. javanica javanica*. Therefore *C. splendens* is kept in synonymy of *C. javanica javanica*. Waterhouse in his description did not compare *C. splendens* with *C. javanica* (or *C. ventricosa* (Laporte de Castelnau & Gory, 1837)) but only with *C. angulicollis* Deyrolle, 1864.

Obenberger (1922) described *Cyphogastra prasinicollis* from Key Island as a species between *C. javanica* and *C. calepyga* J. Thomson, 1857. He mentioned two type specimens (34 and 36 mm) from his collection, which is deposited in NMPC, but these specimens were not found in this collection. Théry (1926) probably knew the type(s) and synonymised (downgraded to variety) this species with *C. javanica* ('*C. prasinicollis* OBNB. (type) = *C. javanica* SAUND. var.'). This concept was kept also by following authors (Bellamy, 2008; Hołyński, 2020d) although probably without studying of type material, and it is still kept in synonymy but also without studying of type material.

Obenberger (1936) described *Cyphogastra javanica* ab. *embrikstrandina* and *C. javanica* ab. *embrikiella*, however, in the same work he mentioned also subspecies *Acmaeodera virgo* subsp. *divinula* Obenberger, 1917 and *A. virgo* subsp. *nigribasis* Obenberger, 1928 and several varieties. Therefore the aberrations are infrasubspecific names according to the Article 45.6.4 (ICZN 1999). Nor was it validated before 1985 (Article 45.6.4.1) and hence it is an unavailable name according to ICZN (1999). These descriptions were in the Key to aberrations of *C. javanica*. Although 'ab. *Embrik-strandina* n.' is mentioned as new, Obenberger's name is mentioned for 'ab. *Embrikiella* Obenb.', so it looks that this aberration had already been described before. It is probably just (printing?) error because the name *Embrikiella* has never been used before.

Cyphogastra (Cyphogastra) javanica skalarosenbaumi subsp. nov.

(Figs. 9-11, 21, 28, 32)

Type locality. Indonesia, Maluku Province, Tanimbar Islands, Molu Island, Tutunametal env. (ca 6°47'42"S, 131°31'27"E).

Type material examined. Holotype (♂): (32.00 × 10.50 mm; Figs. 9-11, 21, 28), 'Indonesia, S. Moluccas | TANIMBAR ISLS, MOLU ISL | TUTUNAMETAL vill env | 11.2008, local collectors lgt [w, p]' (DFPC).

Paratypes (75 ♂♂, 56 ♀♀): INDONESIA: MALUKU PROV.: Molu Island: 7 ♂♂, 11 ♀♀ the same data as holotype (2 ♂♂, 2 ♀♀ DFPC; 4 ♂♂, 9 ♀♀ SJPC; 1 ♂ JPCC); 9 ♂♂, 4 ♀♀ 'Indonesia, S MOLUCCAS | MOLU ISLAND, 2.2008 | N of Tanimbar isls | local collectors lgt [w, p]' (1 ♂, 1 ♀ DFPC; 8 ♂♂, 3 ♀♀ SJPC); 1 ♂, 1 ♀ 'Indonesia, S MOLUCCAS | MOLU ISLAND, 2.2008 | N of Tanimbar isls | local collectors lgt [w, p] || ex coll. S. Bílý | National Museum | Prague, Czech Republic [w, p]' (NMPC, ex coll. Bílý); 1 ♂, 2 ♀♀ 'Molu | Mei.2008 [w, p]' (DFPC); 1 ♀ 'Molu | Mei.2008 [w, p] || RBH: BpM-c' (RHMP); 2 ♂♂, 1 ♀ 'INDONESIA, S. Moluccas | MOLU ISL., 0 - 100 m alt. | Tuhunameta env., V.2008 | local collector leg. [w, p]' (DFPC); 5 ♂♂, 3 ♀♀ 'Molu | April. 2009 [w, p]' (DFPC); 24 ♂♂, 17 ♀♀ 'INDONESIA, SE Moluccas | MOLU ISLAND, X.2012 | N of Tanimbar Islands | local collector leg. [w, p]' (3 ♂♂ DFPC; 21 ♂♂, 17 ♀♀ SJPC); 14 ♂♂, 13 ♀♀ 'INDONESIA, SE Moluccas | Tanimbar Isls., MOLU ISLAND | Tutunametal vill. env., 0-50m | XI.2012, Local collector lgt. [w, p]' (1 ♂, 1 ♀ DFPC; 13 ♂♂, 12 ♀♀ SJPC); 1 ♂ 'MOLU | Feb.2013 [w, p] || RBH: BpM-d' (RHMP); 8 ♂♂, 2 ♀♀ 'MOLU | Feb.2013 [w, p]' (DFPC); 1 ♂ 'MOLU | Feb.2013 [w, p] || RBH: BpM-d' (RHMP); 2 ♂♂, 1 ♀ 'INDONESIA, S. MOLUCCAS | Tanimbar Is., 10 m alt. | MOLU I., (N of Yamdena) | XII.2018, local collector leg. [w, p]' (SJPC).

All specimens were provided with an additional red printed label: 'HOLOTYPE [or PARATYPE respectively] [sex] | *Cyphogastra* (*Cyphogastra*) | *javanica* | *skalarosenbaumi* ssp. nov. | David Frank det. V. 2025 [date handwritten]'.

Description of holotype. Preserved ♂ specimen, terminal right antennomere, left antenna from antennomere VIII, terminal right hind tarsomere and claws on left hind leg missing. Length 32.00 mm, width 10.50 mm, length/width ratio: 3.05.

Body navicular, abdominal part raising up to apex in lateral view, elytra colourful dark blue-black at center, golden-green and red-dark violet stripes on sides, head and pronotum uniformly dimly coppery-violet, ventral side and legs red-violet with greenish reflections.

Head coppery-violet, macropunctate, micropunctate and sparsely pubescent. Eyes large, oval. Frons 2.46× as wide as diameter of eye, impressed with deep medial sulcus. Labrum brown, pubescent. Antennae serrate from antennomere IV. Antennomere I and II coppery-violet, sparsely macropunctate and pubescent, radicula and antennomeres from III brown, sparsely pubescent. Antennomere II ca. 3× shorter than III. Maxillae, labium, maxillary palpi and labial palpi brown, densely pubescent.

Pronotum coppery-violet, rectangular, chamfered at anterior third, biconcave-sided, 1.42× as wide as long. Anterior margin arcuate, lobe moderately protruding, densely pubescent. Macropunctures coarse on sides. Medial sulcus developed, macropunctured. Two small round impressions beside medial sulcus before anterior margin, impressions along lateral margins coarsely punctured, deep at base. Lateral margin coppery-violet. Basal margin bisinuate.

Scutellum small, trapezoidal, coppery, with very slender medial sulcus.

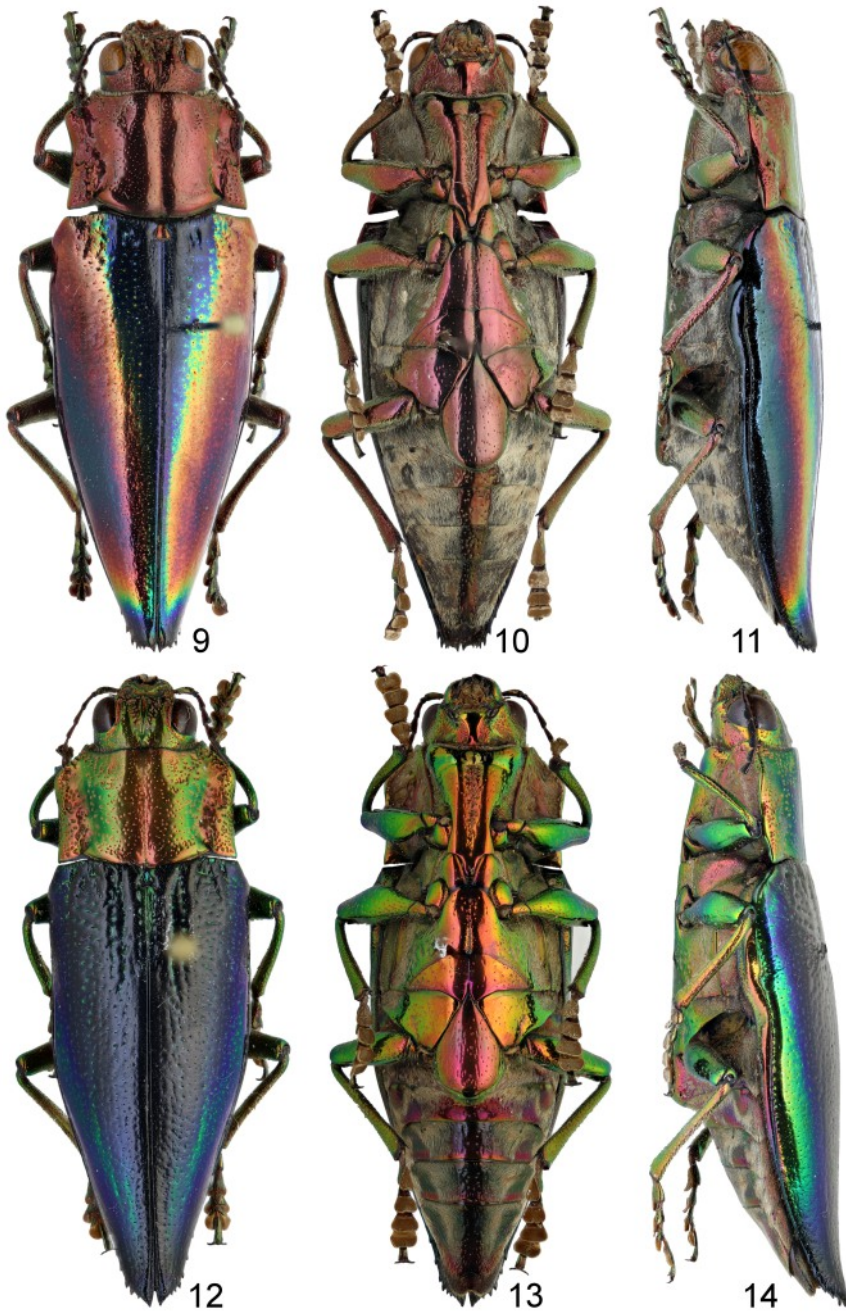
Elytra slightly wider than pronotum at base, almost parallel-sided at basal half, evenly narrowing from mid-length, sinuate in lateral view, serrate at apical part. Elytra colourful, discal black triangular area extends moderately beyond mid-length, and is lined by slightly indicated blue-green-golden and wide dark red to black stripes, with colourful apex, macropunctate and sparsely micropunctate. Epipleura horizontal, black with greenish reflections, macropunctate and pubescent.

Legs coppery-violet, femora sparsely macropunctate and pubescent, fore and mid tibiae densely macropunctate and pubescent on inner side, sparsely on outer side, hind tibiae sparsely macropunctate and pubescent on inner side, densely on outer side. Tibiae with two apical ventral spurs. Tarsi metallic dark green with coppery reflections, pubescent, tarsal claws divergent and simple.

Ventral side coppery-violet, metallic. Hypomeron densely finely punctured and pubescent. Anterior margin of prosternum with greenish reflections, densely pubescent. Prosternal process slightly biconcave-sided, arcuately narrowed at apex, approximately 2.6× as long as wide, macropunctate and pubescent at central part. Metasternum and abdominal ventrites II-V sparsely macropunctate and pubescent at central part, very densely and finely on sides. Ventrite I split by metasternal process. Apical margin of ventrite V bisinuate.

Aedeagus navicular, widest at two-thirds, length: 7.27 mm, width: 1.27 mm, length/width ratio: 5.71. Parameres opened at apical two fifth, apices of parameres on outer sides roundly narrowed, densely pubescent; penis slightly biconvex-sided widest at mid-length, apex narrowed to a point and almost straight from lateral view (Fig. 28).

Variation. Body ♂♂ (n = 31) length: 25.75-40.50 (average 31.51) mm, width: 8.00-13.00 (average 10.23) mm, length/width ratio: 2.92-3.22 (average 3.08); ♀♀ (n = 34) length: 30.25-41.00 (average 36.17) mm, width: 9.75-13.75 (average 12.00) mm, length/width ratio: 2.82-3.16 (average 3.02). Pronotum and head from dimly copper to dark violet-brown, but not very shiny. Narrow colour stripes on elytra variable in width and visibility, elytra rarely very dark. Aedeagus (n = 8) length: 6.27-7.27 (average 6.75) mm, width: 1.09-1.27 (average 1.20) mm, length/width ratio: 5.37-5.92 (average 5.63).



Figs. 9-14. 9-11 - *Cyphogastra (Cyphogastra) javanica skalarosenbaumi* subsp. nov. (holotype, ♂ 32.00 mm, DFPC, Molu ls.). 12-14 - *C. (C.) staudingeri holynskii* subsp. nov. (holotype, ♂ 30.50 mm, DFPC, Teon ls.). 9, 12 - dorsal view; 10, 13 - ventral view; 11, 14 - lateral view.

Differential diagnosis. *Cyphogastra* (*C.*) *javanica skalarosenbaumi* subsp. nov. can be distinguished from nominate subspecies *C. (C.) javanica javanica* by uniformly dimly coppery-violet pronotum and head (similar to *C. (C.) angulicollis* which has uniformly dark elytra; see Holyński (2020d: 109, 110), [*C. (C.) javanica javanica* has metallic and shiny pronotum and head, head always with green or greenish areas], dark triangular area on disc of elytra usually shorter, extends only moderately beyond mid-length [in *C. (C.) javanica javanica* it reaches to behind two-thirds or almost to apex]. Generally, *C. (C.) javanica skalarosenbaumi* is less colourful and darker, elytra evenly narrowed from mid-length to apex, not caudate. Aedeagi are variable, but the apex of the penis is only moderately rounded up in lateral view. *Cyphogastra (C.) javanica* is very specific in colours which distinguishes it from other species of this group. For additional characters see Key to *C. javanica* species-group in Holyński (2020d: 108).

Etymology. This species is dedicated to Jiří Skála-Rosenbaum M.D. (Prague, Czech Republic), in appreciation of his medical care of my knees.

Distribution. Indonesia, Maluku Province, Tanimbar Islands: Molu Island (Fig. 32).

Cyphogastra (Cyphogastra) staudingeri staudingeri Kerremans, 1900 (Figs. 15-20, 29, 32)

Cyphogastra abdominalis Waterhouse (1892): 412 (original description) [preoccupied: *Cyphogastra abdominalis* Waterhouse, 1885: 381]; Kerremans (1903): 88 (catalogue); Obenberger (1926): 120 (catalogue, noted under *C. abdominalis* Waterhouse, 1885); Théry (1926): 72 (as synonym of *C. abdominalis* Waterhouse, 1892); Blair (1928): 106 (in synonymy of *C. staudingeri*).

Cyphogastra (Cyphogastra) abdominalis: Bellamy (2008): 500 (as synonym of *C. (C.) waterhousei*); Holyński (2020d): 115 (as synonym of *C. (C.) staudingeri*).

Cyphogastra Staudingeri Kerremans (1900b): 65 (original description); Kerremans (1903): 87 (catalogue); Kerremans (1910): 166 (key of species), 212 (redescription); Obenberger (1926): 120 (catalogue); Blair (1928): 106 (noted); Akiyama & Ohmomo (2000): Pl. 48, Figs. 519-1, 519-2 (iconography).

Cyphogastra (Cyphogastra) staudingeri: Bellamy (2008): 490 (catalogue, as synonym of *C. (C.) gloriosa* Gestro, 1877 [sic!]), 498 (listed as synonym of *C. (C.) waterhousei*); Holyński (2020d): 108 (key to species), 115 (redescription).

Cyphogastra Waterhousei Théry (1926): 72 (nomen novum for *Cyphogastra abdominalis* Waterhouse, 1892 [nec *Cyphogastra abdominalis* Waterhouse, 1885])

Cyphogastra (Cyphogastra) waterhousei: Bellamy (2008): 500 (catalogue); Holyński (2020d): 115 (as synonym of *C. (C.) staudingeri*).

Type localities. *Cyphogastra staudingeri*: 'Ille Dammer'; *C. abdominalis* [Waterhouse, 1892]: 'Damma Island'. [Indonesia, Maluku Province, Damar Island [ca 7°8'6"S, 128°36'50"E]].

Type material examined. *Cyphogastra staudingeri*: LECTOTYPE (present designation): ♂ (24.75 × 8.25 mm; Figs. 15-18, 29), 'Dammer | Stauding. [w, h (Kerremans' handwriting)] || SYN- | TYPE [w, p; round, blue border] || Kerremans. | 1903-59. [w, p] || Staudingeri | Kerr. | Type [w, h (Kerremans' handwriting)]' (BMNH).

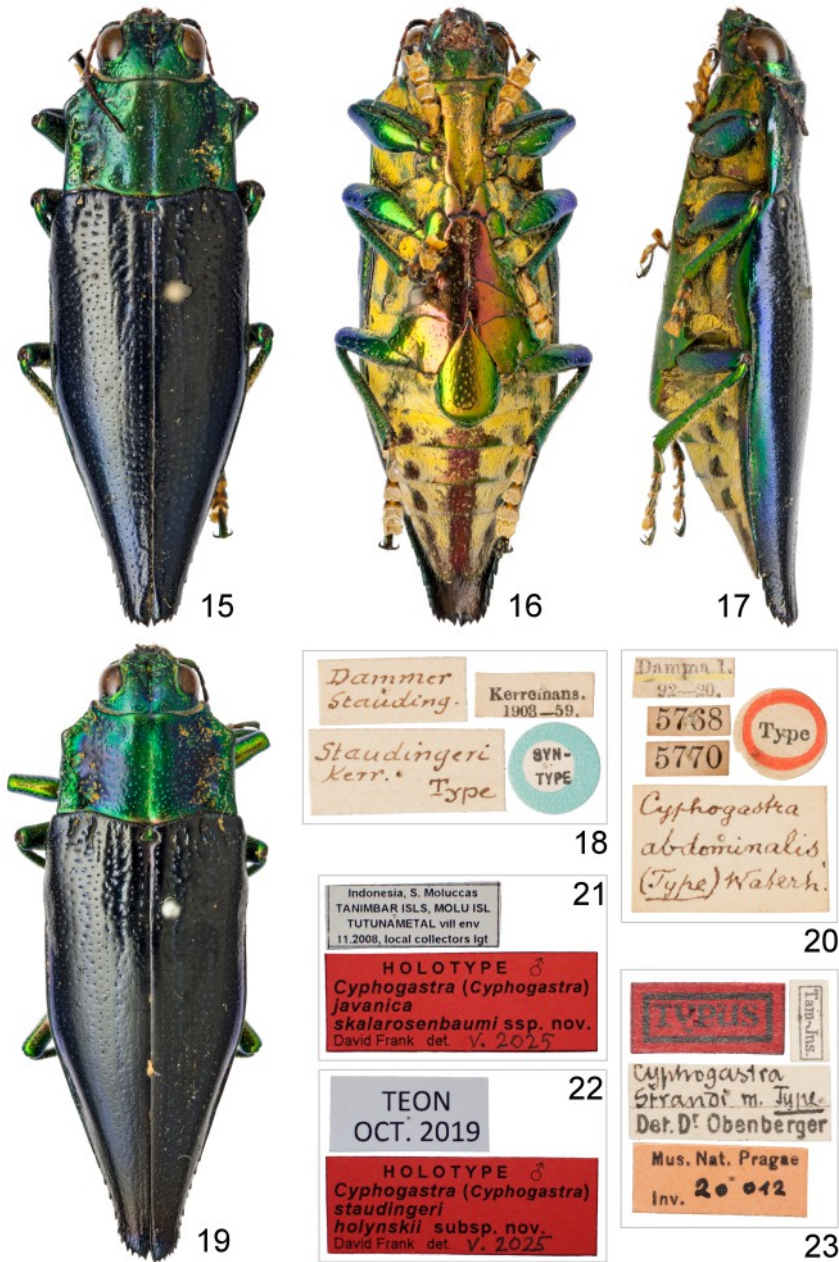
The specimen was provided with an additional red printed label: 'LECTOTYPE ♂ | *Cyphogastra* | *staudingeri* | KERREMANS, 1900 | David Frank des. V.2025 [date handwritten]'

Cyphogastra abdominalis [Waterhouse, 1892]: LECTOTYPE (present designation): ♀ (34.50 × 11.75 mm; Figs. 19-20), 'Damma I. | 92-20 [w, h; yellow line at center] || Type [w, p; round, red border] || 5768 [w(c), p] || 5770 [w(c), p] || *Cyphogastra* | *abdominalis* | [Type] Waterh. [w, h]' (BMNH).

PARALECTOTYPE (present designation): ♀ (31.75 × 10.50 mm), 'Damma I. | 92-20 [w, h; yellow line at center] || 5772 [w(c), p] || *abdominalis* | type var. 2. W. [w, h]' (BMNH).

Both specimens were provided with an additional red printed label: 'LECTOTYPE [or PARALECTOTYPE respectively] [sex] | *Cyphogastra* | *abdominalis* | WATERHOUSE, 1892 | David Frank des. V. 2025 [date handwritten]' and white printed label '*Cyphogastra (Cyphogastra) staudingeri staudingeri* | KERREMANS, 1900 | David Frank det. V. 2025 [date handwritten]'

Additional material examined (7 ♂♂, 9 ♀♀): INDONESIA: MALUKU PROV.: Damar Islands: Damar, 1 ♂, 1 ♀ (NMPC, ex coll. Nickler); Damar, 1 ♀ (NMPC); Dammer, 1 ♀ (NMPC); Dammer, 1 ♂ (NMPC, ex coll. Kubán); Insel Dammer, 1 ♂, 2 ♀♀ (NMPC); Indonesia, Damer Is., 1 ♂ (NMPC, ex coll. Kabourek); Damer, 5/[20]03, 1 ♂ (DFPC); Indonesia, SW Moluccas, Barat Dhaya Islands, Damar I., Wulur vill. env., 50 m, ii.2018, 2 ♂♂, 4 ♀♀ (DFPC).



Figs. 15-23. 15-18 - *Cyphogastra (Cyphogastra) staudingeri staudingeri* Kerremans, 1900 (lectotype, ♂ 24.75 mm, BMNH, Damar Is.). 19, 20 - *C. (C.) abdominalis* Waterhouse, 1892 (lectotype, ♀ 34.50 mm, BMNH, Damar Is.) = *C. (C.) staudingeri staudingeri*. 21 - *C. (C.) javanica skalarosenbaumi* subsp. nov. (holotype, DFPC). 22 - *C. (C.) staudingeri holynskii* subsp. nov. (holotype, DFPC). 23 - *C. (C.) strandi* Obenberger, 1922 (holotype, NMPC). 15, 19 - dorsal view; 16 - ventral view; 17 - lateral view; 18, 20-23 - labels.

Redescription of lectotype. Well preserved ♂ specimen, right antenna from antennomere VI and two terminal tarsomeres on right mid leg missing. Length 24.75 mm, width 8.25 mm, length/width ratio: 3.00.

Body navicular, abdominal part raising up to apex in lateral view, elytra dark blue, head, pronotum, ventral side and legs dark green with blue reflections.

Head green with blue reflections, macropunctate, micropunctate and sparsely pubescent. Eyes large, oval. Frons 2.25× as wide as diameter of eye, impressed with deep medial sulcus. Labrum dark brown, pubescent. Antennae serrate from antennomere IV. Antennomere I and II dark green-blue, metallic, sparsely macropunctate and pubescent, radícula and antennomeres III-V pale brown, from VI dark brown, sparsely pubescent. Antennomere II ca. 3× shorter than III. Maxillae, labium, maxillary palpi and labial palpi brown, densely pubescent.

Pronotum green-blue, rectangular, chamfered at anterior third, with almost parallel sides, 1.46× as wide as long. Anterior margin arcuate, lobe moderately protruding, densely pubescent. Macropunctures dense and coarse on sides, finer at centre. Medial sulcus well developed, macropunctured. Two small impressions beside medial sulcus before anterior margin, two small round impressions before basal margin. Impression along lateral margin coarsely punctured, very deep at base. Lateral margin green-blue. Basal margin bisinuate.

Scutellum small, trapezoidal, green-blue, with very slender medial sulcus.

Elytra slightly wider than pronotum at base, almost parallel-sided at basal half, strongly narrowing from mid-length, sinuate in lateral view, serrate at apical part. Elytra dark blue-black, with small green areas along lateral margins, macropunctate and sparsely micropunctate. Epipleura horizontal, green at basal half, green-black at apical half, macropunctate and pubescent.

Legs green with blue reflections. Femora sparsely macropunctate and pubescent, fore and mid tibiae densely macropunctate and pubescent on inner side, sparsely on outer side, hind tibiae sparsely macropunctate and pubescent on inner side, densely on outer side. Tibiae with two apical ventral spurs. Tarsi partly metallic dark green, partly yellow-brown, pubescent, tarsal claws divergent and simple.

Ventral side green, golden-green and violet, metallic. Hypomeron green, very densely pubescent and covered by yellow wax. Anterior margin of prosternum densely pubescent. Prosternal process golden, moderately biconcave-sided, arcuately narrowed at apex, approximately 2.6× as long as wide, macropunctate at central part, sparsely pubescent. Metasternum and abdominal ventrites II-V violet, partly green, sparsely macropunctate and pubescent at central part, on sides very densely pubescent and covered by yellow wax. Ventrite I split by green metasternal process. Apical margin of ventrite V bisinuate.

Aedeagus widest in the two-thirds, length: 5.86 mm, width: 1.09 mm, length/width ratio: 5.38. Parameres slightly biconcave-sided, opened almost to mid-length, apices of parameres rounded, on outer sides flattened and translucent; penis widest at base, apex roundly narrowed (Fig. 29).

Variation. Body ♂♂ (n = 8) length: 24.75-32.50 (average 27.88) mm, width: 8.00-11.00 (average 9.25) mm, length/width ratio: 2.92-3.14 (average 3.02); ♀♀ (n = 11) length: 28.00-35.50 (average 32.16) mm, width: 9.50-12.00 (average 10.80) mm, length/width ratio: 2.90-3.10 (average 2.98). Colour of pronotum head from green-blue to blue with greenish small areas and macropunctures, elytra almost uniform. Proportion of green and violet on ventral side variable. Aedeagus (n = 3) length: 5.86-7.75 (average 6.62) mm, width: 1.09-1.32 (average 1.20) mm, length/width ratio: 5.38-5.66 (average 5.53).

Differential diagnosis. See Differential diagnosis under *C. (C.) staudingeri holynskii* subsp. nov.

Distribution. Indonesia, Maluku Province, Barat Daya Islands: Damar Island (Fig. 32).

Remarks. Waterhouse (1885) described *Cyphogastra abdominalis* from 'Duke-of-York Island'. In 1892 he described *Cyphogastra abdominalis* again from 'Damma Island', therefore the later name is primary homonym. Théry (1926) replaced this second name by *C. waterhousei*, but Kerremans (1900b) had described *C. staudingeri* from 'Ile Dammer' and this name must be used by the Principle of Priority (Articles 23, 24, ICZN, 1999).

Kerremans (1900b) did not specify explicitly how many specimens he had at his disposal when describing *C. staudingeri* but he had more specimens than one because he mentioned males as well as females and range of measures 'Long. 25-35; larg. 7-11 mill.'. I found a male specimen (24.75 × 8.25 mm) in BMNH with Kerremans' handwriting type label 'Staudingeri | Kerr. | Type [w, h]' (Fig. 18). The slight difference in length was probably just a measurement error and this specimen is designated as a lectotype in order to conserve the status of this taxon and avoid any further misinterpretations.

Waterhouse (1892) did not specify explicitly how many specimens he had at his disposal when describing *Cyphogastra abdominalis* but according to the description he had minimum five specimens in the size range 'Length. 13-16 lines [27,56-33,92 mm]'. I examined two female specimens from BMNH labelled as types with identical locality labels 'Damma I.'. The first specimen (34.50 mm) has type label 'Cyphogastra | abdominalis | (Type) Waterh. [w, h]' (Fig. 20). The small difference in size could be due to measurement error or conversion from lines to millimeters, and this specimen is designated as a lectotype in order to conserve the status of this taxon and avoid any further misinterpretations. The second specimen (31.75 mm) has type label 'abdominalis | type var. 2. W. [w, h]', and this specimen is designated as a paralectotype.

***Cyphogastra (Cyphogastra) staudingeri holynskii* subsp. nov.**
(Figs. 12-14, 22, 30, 32)

Cyphogastra (s.str.) sp.n.: Holyński (2023c): 26 (noted).

Cyphogastra (s.str.) *staudingeri* ssp.n.: Holyński (2025): 6 (noted).

Type locality. Indonesia, Maluku Province, Teon Island (ca 6°58'12"S, 129°8'40"E).

Type material examined. Holotype (♂): (30.50 × 10.00 mm; Figs. 12-14, 22, 30), 'TEON | OCT. 2019 [w, p]' (DFPC). Paratypes (47 ♂♂, 18 ♀♀): INDONESIA: MALUKU PROV.: Teon Island: 8 ♂♂, 4 ♀♀ same data as holotype (7 ♂♂, 4 ♀♀ DFPC; 1 ♂ SJPC); 1 ♂ 'Ile de Teon | Indonésie | X-2019 [w, p] | CYPHOGASTRA | STAUDINGERI [w, p]' (VDHF); 1 ♂ 'TEON | JAN. 2019 [w, h]' (SJPC); 14 ♂♂, 6 ♀♀ 'TEON | JAN. 2019 [w, p]' (13 ♂♂, 5 ♀♀ SJPC; 1 ♂, 1 ♀ DFPC); 23 ♂♂, 8 ♀♀ 'INDONESIA, SW Moluccas, | Bharat Daya Islands, | TEON I., X. 2019 | local collectors leg, [w, p]' (22 ♂♂, 7 ♀♀ SJPC; 1 ♂, 1 ♀ DFPC).

All specimens were provided with an additional red printed label: 'HOLOTYPE [or PARATYPE respectively] [sex] | *Cyphogastra (Cyphogastra) | staudingeri | holynskii* subsp. nov. | David Frank det. V. 2025 [date handwritten]'.

Description of holotype. Preserved ♂ specimen, right antenna missing from antennomere IX and left from antennomere VIII, and left fore tarsus missing. Length 30.50 mm, width 10.00 mm, length/width ratio: 3.05.

Body navicular, abdominal part raising up to apex in lateral view, elytra dark blue with green reflections, head, pronotum, and legs copper with green reflections, ventral side violet.

Head red-coppery with green reflections, macropunctate and sparsely pubescent. Eyes large, oval. Frons 2.23× as wide as diameter of eye, impressed with deep medial sulcus. Labrum dark brown, pubescent. Antennae serrate from antennomere IV. Antennomere I green-coppery, II brown-coppery, metallic, sparsely macropunctate and pubescent, radícula and antennomeres from III dark brown, sparsely pubescent. Antennomere II ca. 3× shorter than III. Maxillae, labium, maxillary palpi and labial palpi pale brown, densely pubescent.

Pronotum rectangular, chamfered at anterior third, biconcave-sided, 1.52× as wide as long.

Anterior margin arcuate, lobe moderately protruding, densely pubescent. Macropunctures dense and coarse on sides, finer at centre. Medial sulcus shallow but well developed, only slightly indicated before anterior margin, macropunctured. Impression along lateral margin split at mid-length, shallow at lateral part, deep at base. Lateral margin green with golden reflections, shiny. Basal margin bisinuate.

Scutellum small, triangular, green-blue, with very slender medial sulcus.

Elytra slightly wider than pronotum at base, almost parallel-sided at basal half, narrowing from mid-length, slightly caudate, sinuate in lateral view, serrate at apical part. Elytra dark blue-violet, with green areas and macropunctures along suture at basal fifth, basal margin, and on sides, macropunctate and sparsely micropunctate. Epipleura horizontal, green with golden reflections at basal third, violet at mid third, and blue-black at apical third, macropunctate and pubescent.

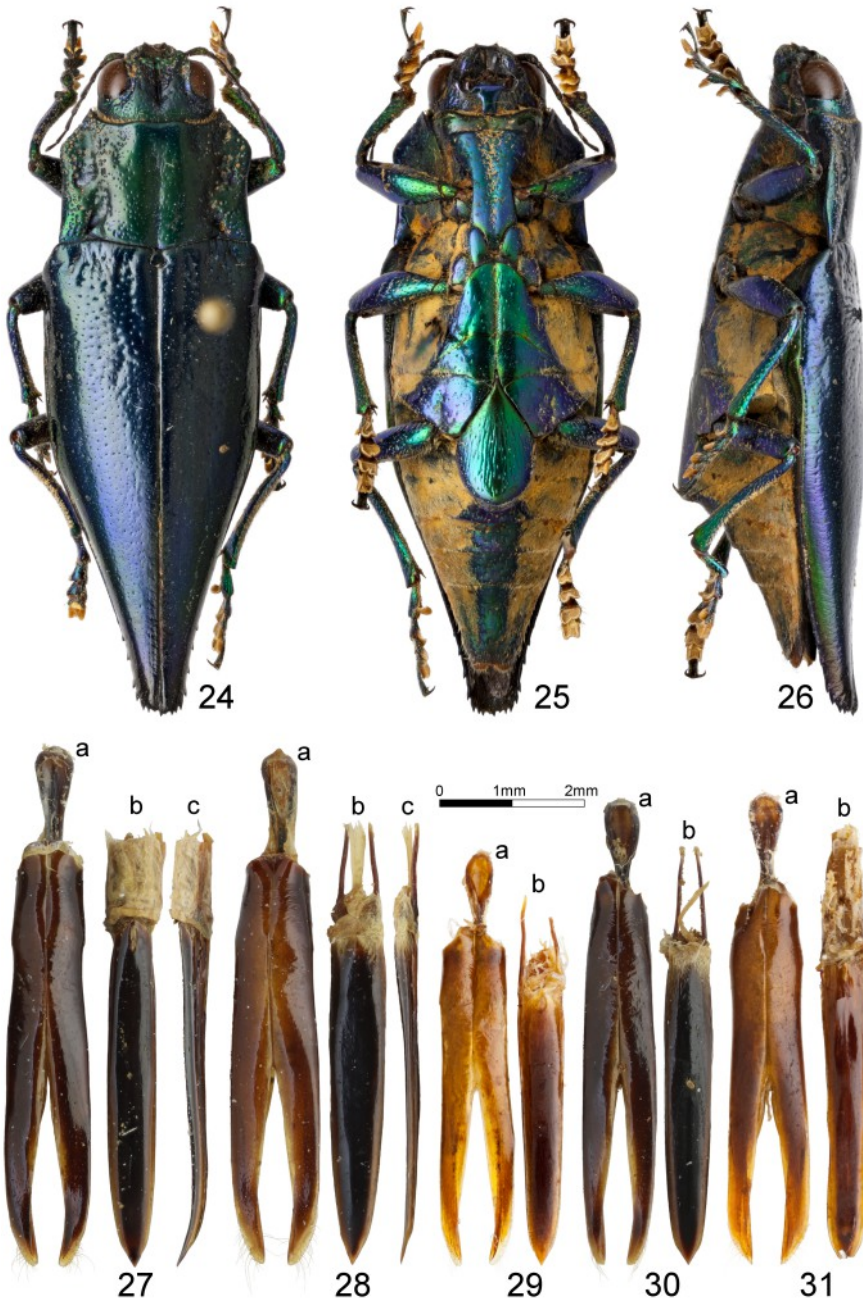
Legs green with golden reflections on femora, red-coppery on tibiae. Femora sparsely macropunctate and pubescent, fore and mid tibiae densely macropunctate and pubescent on inner side, sparsely on outer side, hind tibiae sparsely macropunctate and pubescent on inner side, densely on outer side. Tibiae with two apical ventral spurs. Tarsi partly metallic dark green, tarsal claws divergent and simple.

Ventral side green-violet with golden reflections, and very shiny on sternum, dark violet with dark green-black spots on abdominal ventrites. Hypomeron sparsely macropunctate, pubescent. Anterior margin of prosternum densely pubescent. Prosternal process biconcave-sided, arcuately narrowed at apex, approximately 2.4× as long as wide, macropunctate at central part, sparsely pubescent. Metasternum and abdominal ventrites II-V violet, sparsely macropunctate and pubescent at central part, on sides very densely pubescent. Ventrite I split by golden-violet metasternal process. Apical margin of ventrite V bisinuate.

Aedeagus slightly biconvex-sided, widest in the two-thirds, length: 6.55 mm, width: 1.09 mm, length/width ratio: 6.00. Parameres, opened at apical two fifth, apices of parameres on outer sides roundly narrowed to a point, pubescent; penis navicular, widest at mid-length, apex roundly narrowed (Fig. 30).

Variation. Body ♂♂ (n = 46) length: 23.00-30.75 (average 26.24) mm, width: 7.50-10.50 (average 8.71) mm, length/width ratio: 2.85-3.13 (average 3.02); ♀♀ (n = 16) length: 27.50-33.75(37.75) (average 31.69) mm, width: 9.00-11.50(12.50) (average 10.63) mm, length/width ratio: 2.78-3.07 (average 2.98). Colour of pronotum and head from green with golden reflections to green-bronze, but always shiny. Size of lateral green areas on elytra variable, rarely large along lateral margin. Ventrites from violet to dark violet-black. Tarsi partly metallic or (rarely) completely brown. Aedeagus (n = 9) length: 6.09-6.64(7.23) (average 6.47) mm, width: 1.00-1.09(1.23) (average 1.08) mm, length/width ratio: 5.67-6.32 (average 6.00).

Differential diagnosis. *Cyphogastra* (*C.*) *staudingeri holynskii* can be distinguished from nominate subspecies *C.* (*C.*) *staudingeri staudingeri* by shiny green to green-bronze pronotum and head; larger green areas on elytra; darker (violet-black) abdominal ventrites; and not flattened and translucent outer sides of apices of parameres [in *C.* (*C.*) *staudingeri staudingeri* are head and pronotum dim, from green-blue to blue; green areas on elytra are small, only on sides and missing on disc; abdominal ventrites green-violet; apices of parameres rounded, on outer sides flattened and translucent]. From similar *Cyphogastra* (*C.*) *strandii* can be distinguished by only partly metallic (or not at all) tarsi, and not so caudate apex of elytra. Also green-blue *C.* (*C.*) *nigripennis* Deyrolle, 1864 from *Cyphogastra satrapa* species-group is slender, with 'C' shaped impressions along lateral margins and different aedeagus. For additional characters see Key to species-groups and Key to *C. javanica* species-group in Hołyński (2020d: 103, 108).



Figs. 24-31. 24-26, 31 - *Cyphogastra (Cyphogastra) strandi* Obenberger, 1922 (holotype, ♂ 28.00 mm, NMPC, Taam Is.). 27 - *C. (C.) javanica javanica* (DFPC). 28 - *C. (C.) javanica skalarosenbaumi* subsp. nov. (holotype). 29 - *C. (C.) staudingeri staudingeri* (lectotype). 30 - *C. (C.) staudingeri holynskii* subsp. nov. (holotype). 24 - dorsal view; 25 - ventral view; 26 - lateral view; 27-31 - male genitalia: a - parameres dorsal, b - penis dorsal, c - penis lateral.

Etymology. This species is dedicated to my friend and colleague Roman B. Hołyński (Milanówek, Poland), a specialist in Buprestidae, who continuously works on the genus *Cyphogastra*.

Distribution. Indonesia, Maluku Province, Barat Daya Islands: Teon Island (Fig. 32).

***Cyphogastra (Cyphogastra) strandi* Obenberger, 1922**
(Figs. 23-26, 31-32)

Cyphogastra Strandii Obenberger (1922): 66 (original description); Obenberger (1926): 120 (catalogue).

Cyphogastra (Cyphogastra) strandi: Bellamy (2008): 498 (catalogue); Hołyński (2020d): 108 (key to species), 113 (redescription).

Type locality. 'Insel Tam' [Indonesia, Maluku Province, Taam Island (5°45'0"S, 132°11'5"E)].

Type material examined. Holotype (by monotypy): ♂ (28.00 × 9.50 mm; Figs 23-26, 31), 'Tam-Ins. [w, p (black border)] || TYPUS [r, p (black border)] || Mus. Nat. Pragae | Inv. 20 012 [orange, p/h] || *Cyphogastra* | *Strandi* m. Type | Det. D' Obenberger [w, h/p]' (NMPC).

The specimen was provided with an additional red printed label: 'HOLOTYPE (by monotypy) | *Cyphogastra* | *strandii* ♂ | OBENBERGER, 1922 | David Frank labelled V.2025 [date handwritten]'.

Redescription of holotype. Preserved ♂ specimen, right antenna missing from antennomere X and left from antennomere IX, and two terminal tarsomeres on left hind leg missing. Length 28.00 mm, width 9.50 mm, length/width ratio: 2.95.

Body boldly navicular, caudate, abdominal part raising up to apex in lateral view, elytra dark blue, head, pronotum, ventral side and legs dark green with blue reflections.

Head dark green with blue reflections, macropunctate, micropunctate and pubescent. Eyes large, oval. Frons 2.00× as wide as diameter of eye, impressed with deep medial sulcus. Labrum black, pubescent. Antennae serrate from antennomere IV. Antennomere I green-violet, II brown- violet, metallic, sparsely macropunctate and pubescent, radicula and antennomeres from III brown, sparsely pubescent. Antennomere II ca. 3× shorter than III. Residua of maxillae, labium, maxillary palpi and labial palpi brown, densely pubescent.

Pronotum rectangular, chamfered at anterior third, with biconcave sides, 1.54× as wide as long. Anterior margin arcuate, lobe moderately protruding, densely pubescent. Macropunctures dense and coarse on sides, finer at centre. Medial sulcus shallow but well developed, only slightly indicated before anterior margin, macropunctured. Impressions along lateral margins split at mid-length, very deep at base. Lateral margin green-blue, shiny. Basal margin bisinuate.

Scutellum small, trapezoidal (almost triangular), dark green-blue, with very slender medial sulcus.

Elytra slightly wider than pronotum at base, almost parallel-sided at basal half, strongly narrowing from mid-length, caudate, sinuate in lateral view. Lateral margins arcuate below humeral calli, serrate at apical part. Elytra dark blue, with green to green-violet lateral stripe, macropunctate and sparsely micropunctate. Epipleura horizontal, green at basal third, green-violet at mid third, and blue-black at apical third, macropunctate and pubescent.

Legs green with blue reflections. Femora sparsely macropunctate and pubescent, fore and mid tibiae densely macropunctate and pubescent on inner side, sparsely on outer side, hind tibiae sparsely macropunctate and pubescent on inner side, densely on outer side. Tibiae with two apical ventral spurs. Tarsi metallic dark green, pubescent, tarsal claws divergent and simple.

Ventral side dark green with blue reflections, metallic. Hypomeron macropunctate more densely than prosternum, finely, at anterolateral parts coarsely. Anterior margin of prosternum densely pubescent. Prosternal process biconcave-sided, arcuately narrowed at

apex, approximately $2.7\times$ as long as wide, macropunctate at central part, sparsely pubescent. Metasternum and abdominal ventrites II-V sparsely macropunctate and pubescent at central part, on sides densely pubescent and covered by yellow-brown wax. Ventrite I split by metasternal process. Apical margin of ventrite V dark, bisinuate.

Aedeagus widest before apex, length: 6.64 mm, width: 1.18 mm, length/width ratio: 5.62. Parameres slightly biconcave-sided, opened in apical third, apices of parameres on outer sides roundly narrowed to a point, pubescent; penis widest before base, very slightly biconcave-sided, apex narrowed (Fig. 31).

Differential diagnosis. *Cyphogastra* (*C.*) *strandi* can be distinguished from similar *C.* (*C.*) *staudingeri staudingeri* and *C.* (*C.*) *staudingeri holynskii* by metallic tarsi and caudate apex of elytra. For additional characters see Key to *C. javanica* species-group in Holyński (2020d: 108).

Distribution. Indonesia, Maluku Province, Kei Islands: Taam Island (Fig. 32).

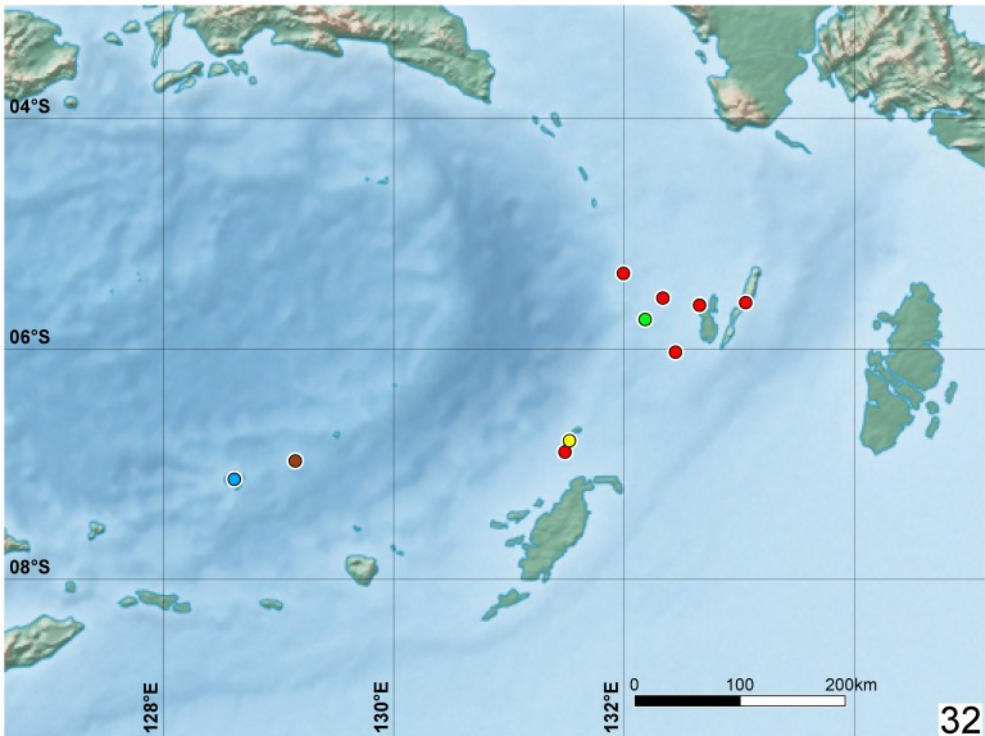


Fig. 32 - map of distribution: *Cyphogastra* (*Cyphogastra*) *javanica javanica* - red; *C.* (*C.*) *javanica skalarosenbaumi* subsp. nov. - yellow; *C.* (*C.*) *staudingeri staudingeri* - blue; *C.* (*C.*) *staudingeri holynskii* subsp. nov. - brown; *C.* (*C.*) *strandi* - green.

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