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Research Article

## A new species of *Apriona* Chevrolat 1852 (Coleoptera: Cerambycidae: Lamiinae) from Western New Guinea

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### Abstract.

Una nuova specie di *Apriona* Chevrolat, 1852 (Coleoptera: Cerambycidae: Lamiinae) da West Papua viene descritta come nuova: *Apriona herlinae* sp. nov. Adulto e genitali sono illustrati.

A new species of *Apriona* Chevrolat, 1852 (Coleoptera: Cerambycidae: Lamiinae) from West Papua is described as new: *Apriona herlinae* sp. nov. The adult and genitalia are depicted.

**KEY WORDS: WEST PAPUA; LAMIINAE; APRIONA; NEW SPECIES**

**Introduction.** *Apriona* Chevrolat, 1852 is a genus of Batocerini Thomson, 1864 (Cerambycidae: Lamiinae) occurring in South-east Asia and including 40 species (Jiroux, 2011). Jiroux (2011) revised the genus and established the following species groups: *A. swainsoni* (Hope, 1840), *A. rixator* (Newman, 1842), *A. tigris* (Thomson, 1878) and *A. germari* (Hope, 1831).

The *A. rixator* species group includes 10 species: *A. brunneomarginata* Breuning, 1948, *A. buruensis* Ritsema, 1898, *A. jossoi* Jiroux, 2011, *A. moratii* Jiroux, 2011, *A. rixator* Newman, 1842, *A. ammiralis* Breuning, 1935, *A. cylindrica* Thomson, 1857, *A. hageni* De Jong, 1936, *A. irma* Kriesche, 1919, *A. minettii* Jiroux, 2011 and probably, *A. pascoei* Gilmour, 1958 (species inquirenda).

Herein, a new species of the *A. rixator* species group from Jayapura area located in West Papua, Indonesia, is described.



### Figure 1

Overview of *Apriona herlinae* sp. nov.,  
Holotype. Photograph credits:  
ActionKlavier studio. Scale bar = 5 mm.



# A

b b r e v i a t i o n s

MGC Matteo Grasso collection, Torino, IT  
 CAC Carlo Arrigo Casadio collection, Imola, IT  
 YKC Yoshikawa collection, Indonesia, ID  
 NHML Natural History Museum London, London, UK

## Material and Methods

This study is based on analysis of 3 specimens collected in Jayapura area, Indonesia. Morphological examination and measurements were taken to the nearest 0.1 mm with a Zeiss Stemi 305 stereomicroscope. Body length was measured from the apex of the head to the apex of the abdomen and body width was measured across the humeri. Habitus illustrations were made using a Hasselblad CFV 50C digital back (51.3 MP), and genitalia with a Stemi 305 integrated camera. All images were enhanced with Photoshop CC 2019.

## Results

### Systematics

#### Tribe Batocerini Thomson, 1864

Batoceritae J. Thomson, 1864: 74 [stem: *Batocer-*]

#### Type genus. *Batocera* Dejan, 1835

Genus *Batocera* Dejan, 1835

Type species. *Cerambyx* (*Batocera*) *rubus*

Linnaeus, 1758 (Blanchard's designation, 1845)

#### Genus *Apriona* Chevrolat, 1852

Type species. *Lamia* (*Apriona*) *germari* Hope, 1831

**Distribution** (according to Jiroux, 2011).

**Bangladesh:** Sylhet; Bhoutan; **Cambodia;** **China:** Anhui, Guandong, Guangxi, Guizhou, Hunan, Jiangxi, Qinghai, Shadong, Sichuan, Xizang, Yunnan, Zhejiang, Hainan; **India:** Assam, Uttar Pradesh; **Indonesia:** Alor, Bali, Buru, Flores, Java, Lombok, Misool, Morotai, Nias, Peleng, Plantar, Sangeang, Sanghir, Sangir, Siberut, Sorong, Sula, Sulawesi, Sumatra, Sumba, Sumbawa, Talaud, Tukangbesi, Waigeo, Java; **Japan:** Ishigakishima, Okinawa; **Laos;** **Malaysia:** Borneo, Sabah, Sarawak; **Myanmar;** **Nepal;** **North Korea;** **Pakistan:** Puenjab; **Papua New Guinea:** Admiralty Islands in Manus province; **Philippines:** Leyte, Luzon, Marinduque, Mindanao, Mindoro, Palawan, Samar; **South Korea** (under probation); **Taiwan;** **Thailand;** **Vietnam:** Hanoi, Saigon;



## Taxonomy

### *Apriona herlinae* sp. nov. (figs. 1-3, 5-6)

Holotype: adult female from South Gresi, (-2.642, 140.182, expressed in decimal degrees), Klaisu, Jayapura province, Irian Jaya, Indonesia. The collecting area is at an altitude of 500 m. Collected by Olif Nefsonwadi, on VIII.2019. In MGC

Paratype: adult female from Jayapura. Collected by W. Stüber, on V.1934. In NHML

**Additional material:** 1 adult female: Takar, Sarmi district, Irian Jaya, Indonesia. Collected by a local collector on V.2020. In YKC collection.

**Diagnosis:** An *Apriona* species with dispersed and swollen tubercles on the elytra base, which is marked by a two-tone pilosity.

**Description:** Holotype, female, total length 43.1 mm; pronotum+elytra 39 mm.

Head with lower eyes lobes as wide as high. Distance between eyes 6.2 mm.

Antenna total length 57.6 mm, reddish brown, thin and not ringed, with moderately sturdy and flat scape. Apex of antennomeres glabrous. Third article 3 mm longer than fourth article; antennomeres covered at the base with ochre setae that become finer after article 5.

Pronotum base 9.5 mm, 7.1 mm height; long axis crossed by carinae, posteriorly interspersed with glabrous, dark, shiny brown tubercles. Lateral thorns parallel to humeri and quite cylindrical and sharp.

Scutellum U-shaped, 3.2 mm wide at base; covered by the same whitish ochre pilosity that medially covers the elytra.

Elytra elongated, reddish brown, covered by whitish ochre pilosity on the middle, darker at sides, and with glabrous shiny reddish brown tubercles dispersed at the base and more scattered towards the apex. Distance between humeri 15 mm, with lateral spines quite sharp. Apex convergent with two spines for each elytron; lateral spines are less pointed than sutural spines.

Prosternum covered by brown setae; mesosternum and metasternum with grayish ochre setae, laterally covered with dense chalky-white stripes, starting from the apex of epimer up to sternite VII. Legs colored as the antennae; setae more elongated on the tibia and tarsi.

Genitalia. Tergite VIII subtriangular with scattered setae on the sides and two lobes at the apex, and a small fosse on the middle. Apodeme elongated and thinner on the proximal side, rounded at the base. Proctiger trapezoidal. Ventral valves weakly sclerotized. Vitellarium elongated and subcylindrical. Spermatheca gland rounded suboval, thinner at duct junction.

Eggs [three well developed eggs taken during dissection] strongly elongated, ovate. Corium purplish (at time of dissection), rugose, with hexagonal micro-sculptures.

**Differential diagnosis:** *A. herlinae* sp. nov. belongs to the *A. rixator* species group as defined by Jiroux (2011). The new species is related to *Apriona ammiralis*. It differs from a paratype in the CAC collection (figs. 8-10), by the lateral chalky-white ventral band, which ends at sternite VII (ends at sternite III in *A. ammiralis*) and in the elytra disc lighter up to suture (uniformly colored in *A. ammiralis*). The new species has lateral pronotal spines which are blunter than those of *A. cyrindrica*.

**Distribution:** Indonesia, West Papua, Sentani area (fig. 4).

**Etymology:** The new species is named in honor of Mrs. Herlina Menufandu in recognition of the invaluable help she gave to the authors.

## Discussion

Reports of the genus *Apriona* from New Guinea are rare. The only species reported from the country to date is *Apriona novaeguineae* Gilmour, 1958 and this taxon may in fact be just a synonym of *A. flavescens* (Jiroux, 2011). Besides having no exact collecting location (the labels report just vague data) and belonging to the *A. germari* species group, *A. novaeguineae*, is distinguished by the following characters: "A fairly robust species, with humeral angles exhibiting a small spine; concolorous elytra ranging from red-brown to brown-gray, or even olive-brown; antennal sections ringed, the base of the antennomeres being generally covered with a gray pubescence, and the rest of the section being either brown or black, depending on the specimens". In contrast, *A. herlinae* does not show a ringed base to the antennomeres, has a different elytral apex and the habitus is distinct.

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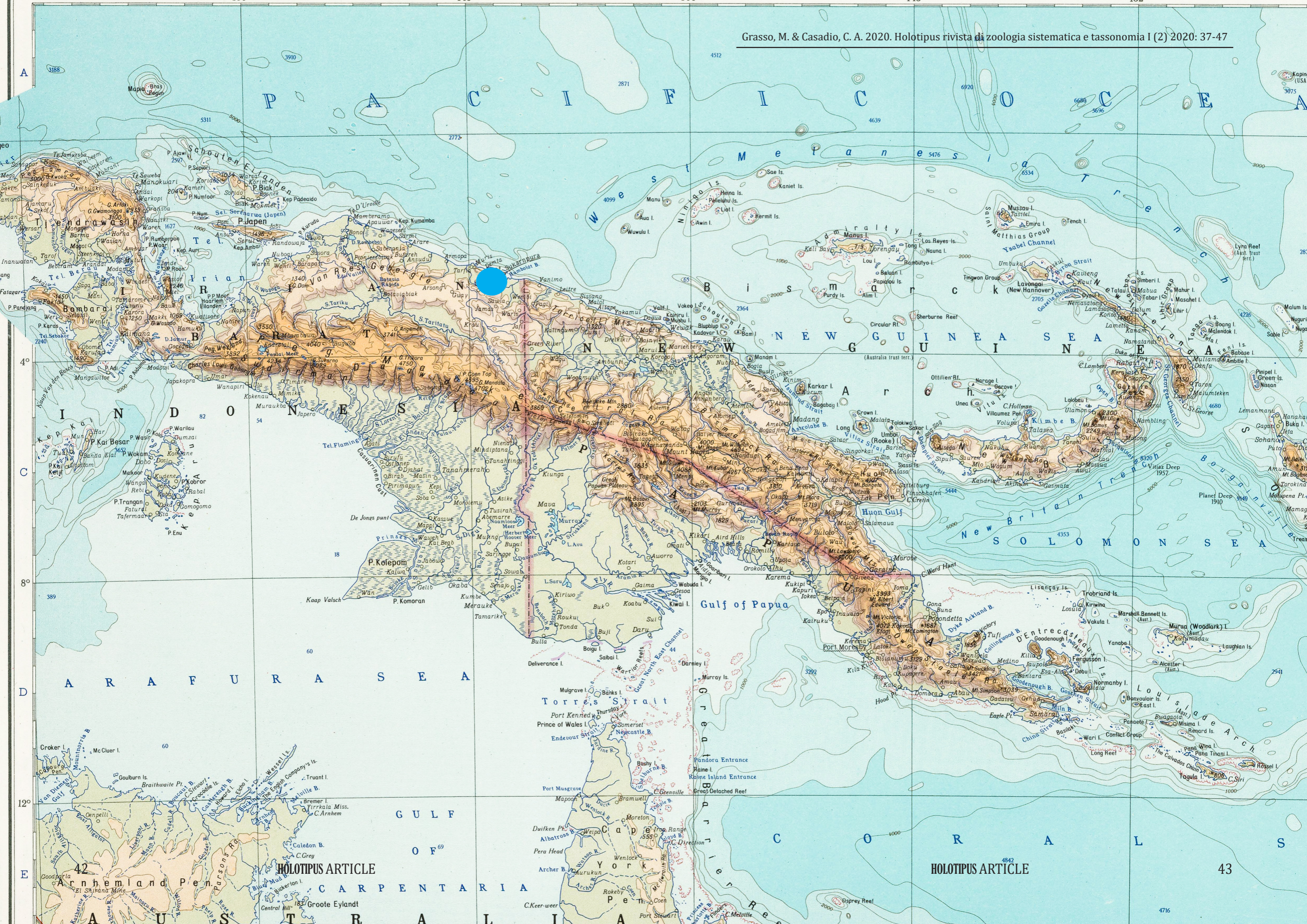
## Figures 2-3

Holotype of *Apriona herlinae* sp. nov., ventral and lateral view. Scale bar = 5 mm.

## Figure 4

Geographic distribution of *A. herlinae* (Circle: type locality).

Photograph credits:  
David Rumsey Historical Map Collection.



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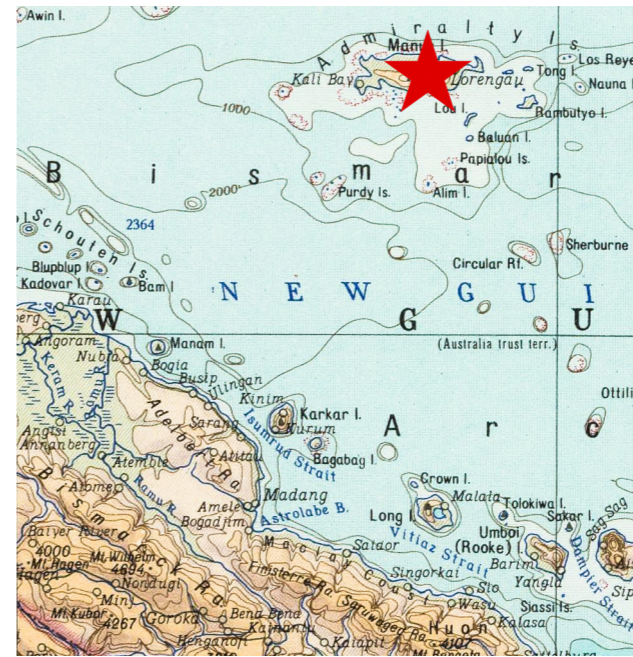


**Figure 5**  
Holotype of *A. herlinae*, egg.  
Scale bar = 1 mm.



**Figure 6**  
Holotype of *A. herlinae*, ovipositor.  
Scale bar = 1 mm.

**Figure 7**  
Geographic distribution of *Apriona ammiralis*  
(Star: type locality).



**Figure 9**  
Paratype of *A. ammiralis*, dorsal view.  
Photograph credits:  
Carlo Arrigo Casadio.



**Figure 8**  
Paratype of *Apriona ammiralis*, labels.

Coll. IRSNB  
ex. échangé avec  
Carlo A. CASADIO  
I.G.: 31.787

*Apriona ammiralis*  
n. sp. Paraty  
Breuning det.

PARATYPE

*Apriona ammiralis*  
St. Gabriel

**Figure 10**  
Paratype of *A. ammiralis*, lateral view.



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**Figure 11**  
Overview of *Apriona herlinae* sp. nov.,  
Paratype. Photograph credits:  
Carlo Arrigo Casadio.