

# A Revision of the Genus *Holopsis* Broun (Insecta: Coleoptera: Corylophidae) from Japan

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The genus *Holopsis* Broun, 1883 from Japan is revised. Five species including two newly recorded species and one new species are described: *H. punctipennis* (Matthews, 1899), *H. kirejtshuki* Bowstead, 2003 (new record), *H. kurilensis* Bowstead, 2003 (new record), *H. lewisei* Bowstead, 2003, and *H. ryukyuensis* sp. n. Males of *H. punctipennis* and *H. lewisei* are described for the first time.

**Key Words:** Coleoptera, Corylophidae, *Holopsis*, revision, Japan.

## Introduction

Members of the corylophid beetle genus *Holopsis* Broun, 1883 are characterized mainly by having open procoxal cavities, complete postcoxal lines, and wings with a medial fleck (Ślipiński *et al.* 2009). More than 30 species of this genus have been described from throughout the world except for the Afrotropical and Antarctic regions; in Japan, however, members of this genus have been poorly researched, and only *Holopsis punctipennis* (Matthews, 1899) and *H. lewisei* Bowstead, 2003 have been recorded until now. Both of these species were clearly described with some illustrations by Bowstead (2003), but the descriptions were based only on female specimens. In this paper, I revise the genus *Holopsis* from Japan based on many specimens from museum collections in Japan; specimens from my private collection are likewise included. Furthermore, I describe and illustrate both male and female morphology for all five represented species.

## Materials and Methods

Dried and ethanol-preserved specimens were used. Dissections were carried out mainly in glycerol using a Nikon SMZ800 stereoscopic microscope. Dissected body parts, including aedeagi and spermathecae, were cleaned in 10% KOH solution. Aedeagi and spermathecae were stained with chlorazol black solution. Observations were performed using a Nikon SMZ800 stereoscopic microscope and a Nikon E800 compound light microscope. Photographs were taken using a Nikon DIGITAL SIGHT DS-Fi1, and illustrations were made based on the photographs with Adobe Illustrator CS5. SEM photographs were taken using a Hitachi S-2250N scanning electron microscope.

Measurements were made using a micrometer as follows: body length, from the apical margin of the pronotum

to the apex of the elytra along the median line; body width and width of the elytra, across the elytra at their widest part; length of the pronotum, along the median line; width of the pronotum, at its widest part; length of the elytra, along the median line; length of the metaventrite, along the median line; width of the metaventrite, at its widest part.

Dissected parts were covered with euparal on a small slide glass based on the method of Maruyama (2004), or preserved in genitalia tubes or microtubes with glycerol, and pinned under the specimen.

Type specimens were deposited in the following collections. EUMJ: Ehime University, Matsuyama, Japan; SEHU: Systematic Entomology, Hokkaido University, Sapporo, Japan; BMNH: The Natural History Museum, London, United Kingdom; SBCC: S. Bowstead Collection; SMNS: Staatliches Museum für Naturkunde, Stuttgart, Germany; MZH: Finnish Museum of Natural History, Helsinki, Finland; ZIN: Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia.

Label data of the type material examined in this study follow the original spellings between quotation marks. A forward slash indicates a subsequent line of the label and a double forward slash indicates separate labels. If label data were written in Japanese, the words are transliterated into Roman characters, followed by the words “in Japanese” between parentheses, and enclosed in square brackets. For type material not examined in this study, only the locality and depository are shown; more detailed information is shown in Bowstead (2003). The terminology in this study follows that of Bowstead (1999) and Ślipiński *et al.* (2010).

## Genus *Holopsis* Broun, 1883

*Holopsis* Broun, 1883: 498 [type species: *Holopsis nigellus* Broun, 1883, designated by Bowstead (1999)].

*Corylophodes* Matthews, 1885: 160 [type species: *Corylophodes punctipennis* Matthews, 1899, designated by Paulian (1950)].