

# HETERO CERIDAE: Checklist of the taxa recorded from Indonesia and the Southwest Pacific

(Coleoptera)

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## Abstract

All Heteroceridae (Coleoptera) known from the Southeast Asian islands and the southwestern Pacific are summarized. Only one species, *Heterocerus flindersi* BLACKBURN, 1888, is recorded from New Caledonia.

**Key words:** Coleoptera, Heteroceridae, South Pacific, Polynesia, Melanesia, Indonesia

## Introduction

The heterocerid fauna of Indonesia and the Southwest Pacific is not very diverse. A total of 18 species and subspecies in two genera, *Heterocerus* FABRICIUS, 1792 and *Augyles* SCHIÖDTE, 1866, have been recorded from the islands between Sumatra and New Zealand.

In the checklists below all specimens known from Indonesia islands and the Southwest Pacific are listed. The data are based mainly on literature records. Unpublished material from New Caledonia (Grande Terre) is included.

The specimens examined are deposited in the following collections:

|       |   |
|-------|---|
| CAM   | Collection Alessandro Mascagni, Scandicci, Firenze, Italy                             |
| CEH   | Collection Ernst Heiss, Innsbruck, Austria  |
| CSH   | Collection Andre Skale, Hoff, Germany   |
| CSU   | Collection Stanislav Skalický, Ústí nad Orlicí, Czech Republic                        |
| IRSNB | Institut royal des Sciences naturelles de Belgique, Brussels, Belgium                 |
| MNB   | Museum für Naturkunde, Berlin, Germany; M. Uhlig                                      |
| MNHN  | Muséum national d'Histoire naturelle, Paris, France                                   |
| MZLU  | Museum of Zoology, Lund University, Sweden  |
| NHML  | The Natural History Museum, London, U.K. (formerly British Museum of Natural History) |
| NMB   | Naturhistorisches Museum, Basel, Switzerland (Collection Frey)                        |
| NME   | Natural History Museum, Erfurt, Germany   |
| NMP   | Národní muzeum v Praze, Czech Republic  |
| NMW   | Naturhistorisches Museum Wien, Vienna, Austria  |
| SMNS  | Staatliches Museum für Naturkunde, Stuttgart, Germany                                 |

Separate labels are indicated by double slashes.

### List of Localities

(Locs. 2001/NC: leg. Balke & Wewalka, Loc. 2009/NC: leg. Schuh)

- Loc. 2001/NC 9** (see JÄCH & BALKE 2010: Fig. 10): 15 km NE Voh, 50 m a.s.l., 6.XI.2001. Almost stagnant river, 10–15 m wide and max. 1 m deep, gravelly, partly shaded, edge with dense mats of submerged vegetation; backflows with leaf packs.
- Loc. 2001/NC 10**: 1 km SW Camp Minier, 20 m a.s.l., 7.XI.2001. Coastal lowland, with low shrubs and eucalypts, small stream (in ca. 50 cm deep gully), rocky/gravelly, fully sun exposed, slowly flowing and partly interrupted, max. 2 m wide.
- Loc. 2009/NC 12** (Fig. 1): ca. 10 km NW Nouméa, ca. 2 m a.s.l., 22°09'50.4"S/166°25'33.8"E, 25.XI.2009. Swamp in River Dumbéa flood plain.



Fig. 1: Loc. 2009/NC 12, R. Schuh collecting *Heterocerus flindersi*.

## Checklist of the Heteroceridae from Indonesia and the Southwest Pacific

### Sumatra

#### *Heterocerus nepalensis* MASCAGNI, 1993

49 exs. (CAM, NMB): “SW Borneo, leg. Grabowsky” (MASCAGNI & SFORZI 1999).

### Java

#### *Augyles gabriellae* (MASCAGNI, 1993)

1 ex. (CSU): “JAVA Pangandaran Nat. Park (lamp) 20.iii.2003 W. Becker lgt” (SKALICKÝ 2005).

#### *Augyles isabelae* SKALICKÝ, 2005

3 exs. (CSU): “JAVA Pangandaran Nat. Park (lamp) 20.iii.2003 W. Becker lgt” (SKALICKÝ 2005).

#### *Augyles quinquemaculatus* (GROUVELLE, 1896)

1 ex. (MNHN): “Hekmeyer Ardjoena Java or” [oval label] // “Type” [originally red label] // “Flajom from I esoom Java” // “Lectotypus *Heterocerus quinquemaculatus* ♂ Charpentier 1960” [red handwritten label] // “Museum Paris” // “*Heterocerus 5-maculatus* Notes Grouv.”; 1 ex. (MZLU): “Valck Lucassen Slawi Tegal Java 1909” // “Museum Leiden collectie F. T. Valck Lucassen” // “*Heterocerus 5-maculatus* Gr. det. R. Charpentier”; 5 exs. (MZLU): “Valck Lucassen Slawi Tegal Java 1909” // “Museum Leiden collectie F. T. Valck Lucassen”; 4 exs. (MZLU): “Djombang Soerabaia” // “Museum Leiden collectie F. T. Valck Lucassen”; 37 exs. (CSU, MZLU): “Kadlri. JAVA. deVos.” // “Museum Leiden verz. J.J. devos tot Nederveen Cappel”; 1 ex. (MZLU): “Kadlri. JAVA. deVos.” // “Museum Leiden verz. J.J. devos tot Nederveen Cappel” // “*Heterocerus quinquemaculatus* Gr. det. Charpentier 1966” (SKALICKÝ 2005).

#### *Augyles rarus* SKALICKÝ, 2005

1 ex. (CSU): “JAVA Pangandaran Nat. Park (lamp) 20.iii.2003 W. Becker lgt” (SKALICKÝ 2005).

#### *Augyles stefani* SKALICKÝ, 2005

3 exs. (CSU): “JAVA Pangandaran Nat. Park (lamp) 20.iii.2003 W. Becker lgt” (SKALICKÝ 2005).

#### *Augyles stevei* SKALICKÝ, 2005

3 exs. (CSU): “JAVA Pangandaran Nat. Park (lamp) 20.iii.2003 W. Becker lgt” (SKALICKÝ 2005).

#### *Heterocerus philippensis javanicus* (GROUVELLE, 1896)

1 ex. (MNHN): “Java” // “Hevr Heyer Batavi[a]” [hardly legible, oval label] // “Type” [red label] // “Museum Paris 1917 coll. Grouvelle” [yellow label] // “*Heterocerus javanicus* Grouv.” // “Lectotypus *Heterocerus javanicus* (Gr.) Charpentier 1960” [red handwritten label]; 1 ex. (SMNS): “INDONESIA, E JAWA Baluran Nat. P. 50 m Wonorejo 24.5.1994 Bolm leg” [yellow label] // “*Heterocerus philippensis javanicus* Grou. det. A. Mamitza”; 2 exs. (MZLU): “Valck Lucassen Slawi Tegal Java 1909” // “Museum Leiden collectie F. T. Valck Lucassen”; 1 ex. (MZLU): “Djatibarang Tegal Java” // “Museum Leiden collectie F. T. Valck Lucassen” // “*Heterocerus javanicus* Gr. Det. R. Charpentier”; 10 exs. (CSU, MZLU): “Soerakarta JAVA, deVos” // “Museum Leiden verz. J.J. devos tot Nederveen Cappel” (SKALICKÝ 2005).

#### *Heterocerus virgatus* MAMITZA, 1933

7 exs. (CSU): “JAVA Pangandaran Nat. Park (lamp) 20.iii.2003 W. Becker lgt” (SKALICKÝ 2005).

### Borneo

#### *Heterocerus jacoudi* MASCAGNI, 2007

49 exs. (CAM, ZMHB): “SW Borneo, leg. Grabowsky” (MASCAGNI & SKALICKÝ 2007).

## Sulawesi

### *Heterocerus flindersi* BLACKBURN, 1888

3 exs. (MFT): “Celebes” [Sulawesi] (CHARPENTIER 1968).

### *Heterocerus jacoudi* MASCAGNI, 2007

10 exs. (SMNS, CAM): “Sulawesi Ujung Pandang, 5.VII.1996, leg. Schüle & Stüben”; 9 exs. (SMNS, CAM) “Sulawesi: 17 km E Pendolo 800m, 120°45'49" E / 2°06'33" S, 4/9.VII.1999, leg. Bolm” (MASCAGNI & SKALICKÝ 2007).

### *Heterocerus philippensis philippensis* GROUVELLE, 1896

8 exs. (NMW, CAM): “Sulawesi Limboto See Gorontalo (N Sulawesi), 25.IV.1992, leg. M. Jäch” (MASCAGNI & SKALICKÝ 2007).

## New Guinea

### *Heterocerus balkei* SKALICKÝ, 2002

2 exs. (NME): “INDONESIA, Irian Jaya, Jayapura district Geniem 50m NN, IV. – V. 1999, leg. M. Balke” (SKALICKÝ 2002).

### *Heterocerus flindersi* BLACKBURN, 1888

1 ex. (MFT): “Dory 59.58”; 1 ex. (MFT): “Duke of York” // “Mus. Godeffroy, No. 16891” (CHARPENTIER 1968).

### *Heterocerus heissi* SKALICKÝ, 2006

2 exs. (CSH): “W-PAPUA Manokwari Prov. Ransiki, Motel, 01°30.37'S 134°10.27'E 02.III.2007 leg. A. Skale at light”; 35 exs. (CEH, CSU): “PAPUA NEW GUINEA East Sepik Prov. LF Sepik at Kariwari river 29.viii.2004, E. HEISS lgt” (SKALICKÝ 2006).

### *Heterocerus sinicorniger* SKALICKÝ, 2006

4 exs. (CEH, CSU): “PAPUA NEW GUINEA East Sepik Prov. LF Sepik at Kariwari river 29.viii.2004, E. HEISS lgt” (SKALICKÝ 2006).

## New Caledonia

### *Heterocerus flindersi* BLACKBURN, 1888

NORTH PROVINCE: 1 ex. (IRSNB): “Koné” // “syntype H. caledoniae R. I. ScN. B. 17.479” // “A. Fauvel” (CHARPENTIER 1968).

39 exs. (NMW): Loc. 2001/NC 9; 3 exs. (NMW): Loc. 2001/NC 10.

SOUTH PROVINCE: 2 exs. (CSU, NMP): “New Caledonia S.P. Paita 20.3.1999 S. Bílý leg.”; 1 ex. (IRSNB): “Anse Vata, marais Vade diche avril” // “lectotype H. caledoniae R.I. Sc. N. B. 17.479” // “A. Fauvel”.

1 ex. (NMW): Loc. 2009/NC 12 (collected by R. Schuh).

DISTRIBUTION (Fig. 2): In New Caledonia this species is rather widely distributed along the west coast of Grande Terre.

## Fiji

### *Heterocerus fijiensis* CHARPENTIER, 1968

1 ex. (NHML): “Fiji 30.XI.1956 R. Rewa” // “E. S. Brown coll B.M. 1958 – 79” // “5812, corn Inst. Ent.” (CHARPENTIER 1968); 1 ex. (NHML): “FIJI Suva R.A. LEVER 22.2.41 C 1110” // “Heterocerus” // “Pres. By Comm Inst. Ent. B.M. 1981-315”.

Endemic to Fiji.

## New Zealand

### *Heterocerus debilipes* BLACKBURN, 1903

1 ex. (NHML): “New Zealand B.M. 1984-80 P.M. Hammond” // “AK: Bethells Beach. 5.xi.1983” // “Sandy Shore”.

### *Heterocerus novaeselandiae* CHARPENTIER, 1968

2 exs. (MFT): “New Zealand” (CHARPENTIER 1968); 4 exs. (NHML): “Wedderburn Lewis, Sharp coll. 1905-313 coll. B. M” // “368a”; 3 exs. (NHML): “Wedderburn” // “Lewis send to Sharp” // “Broun coll., coll. BM (1922-482)”; 2 exs. (CSU, NHML): “New Zealand B.M. 1984-80 P.M. Hammond” // “AK: Bethells Beach. 5.xi.1983” // “Sandy Shore”; 3 exs. (NHML): “NEW ZEALAND B. M. 1984-80 P.M.Hammond” // “AK: Bethells Beach. 5.xi.1983” // “Hollows Sand by tidal river”; 2 exs. (NHML): “NEW ZEALAND B. M. 1984-80 P.M.Hammond” // “AK:Whatipu 30.ix.1983” // “Bracker”.

Endemic to New Zealand.

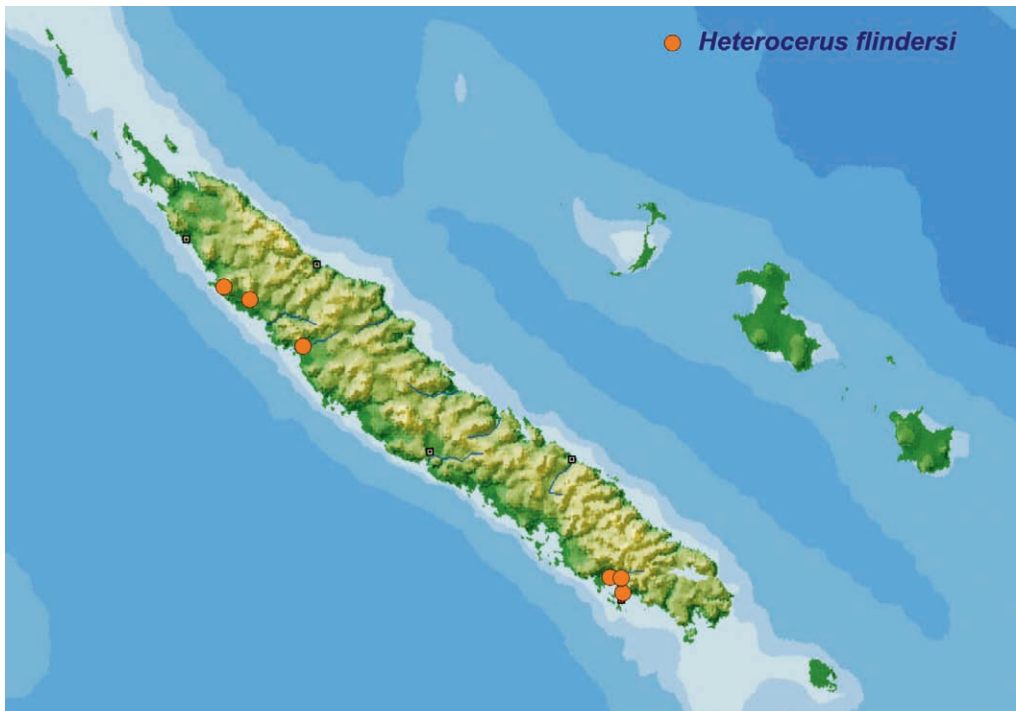


Fig. 2: Geographical distribution of *Heterocerus flindersi* in New Caledonia.

## Discussion

Compared to the highly diverse heterocerid fauna of continental Asia this family is rather poorly represented in the islands treated herein. With eight species, the highest diversity is found in Java, where there are almost as many species as in Australia (9 spp.).

Only two species are endemic: *Heterocerus fijiensis* (Fiji) and *Heterocerus novaeselandiae* (New Zealand).

No heterocerids have ever been recorded from Micronesia or Polynesia east of Fiji.

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