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Studies on the genus *Intybia* Pascoe (Coleoptera: Malachiidae) I. Some nomenclatorial acts and faunistic records

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Abstract

A contribution to the taxonomy and faunistics of the genus *Intybia* Pascoe, 1866, is given. 28 taxa described as members of *Laius* Guérin-Meneville, 1830, are transferred to *Intybia*. Two new country records and three new provincial records are included: *Intybia championi* Wittmer, 1997 from Vietnam; *I. nuristanica* (Wittmer, 1989) comb.n. from Pakistan; and *I. jaechi* (Wittmer, 1996) comb.n. and *I. planicornis* (Wittmer, 1982) also occur on Java and in Jiangxi respectively. In addition, the original spelling of *I. pelegrini* (Pic, 1910) is emphasized.

Key words: Coleoptera, Malachiidae, *Intybia*, *Laius*, taxonomy, generic placement.

Zusammenfassung

Es wird ein Beitrag zur Taxonomie und Faunistik der Gattung *Intybia* Pascoe, 1866 gegeben. 28 Taxa, die in der Gattung *Laius* Guérin-Meneville, 1830 beschrieben worden sind, werden zu *Intybia* transferiert. Zwei Länder-Erstnachweise und drei Provinz-Erstnachweise werden mitgeteilt: *Intybia championi* Wittmer, 1997 wird aus Vietnam und *I. nuristanica* (Wittmer, 1989) comb.n. aus Pakistan gemeldet. *Intybia jaechi* (Wittmer, 1996) comb.n. und *I. planicornis* (Wittmer, 1982) kommen auch auf Java bzw. in Jiangxi vor. Außerdem wird die Originalschreibweise von *I. pelegrini* (Pic, 1910) hervorgehoben.

Introduction

The genus *Intybia* Pascoe, 1866, has been erected for *I. guttata* Pascoe, 1866 by monotypy. Champion (1921) synonymised *Intybia* with *Laius* Guérin-Meneville, 1830. Since then numerous species have been described under *Laius*. Evers (1994) re-diagnosed *Laius* and revalidated *Intybia*. This act has been immediately accepted (Wittmer 1995, 1997, 1999) and followed by subsequent workers. The recent contributions to the knowledge of the genera *Laius* by Hiroyuki Yoshitomi (Sato & al. 2006, Yoshitomi 2008, 2010, Yoshitomi & Lee 2010) and *Dicranolaius* Champion, 1921, by Makoto Asano (Asano & Kawashima 2010, Asano 2012) make numerous nomenclatorial acts, namely adjustments of generic placement, formally necessary. The problem is the high number of taxa currently listed as members of *Laius* which are virtually members of *Intybia*. The present contribution to the knowledge of the genus *Intybia*, start this task. Subsequent studies will probably reveal synonymies or different generic placements, e.g., in *Dicranolaius* or *Stenolaius* Wittmer, 1995.

Material

During the study of determined and undetermined material of Malachiidae in the beetle collections of the Museum for Natural History at the Humbold University of Berlin (MNHUB) and of the International Research Institute for Entomology at the Natural History Museum of Vienna (NMW), the author was able to study numerous specimens of species known or unknown to science that belong to *Intybia* and *Laius*. Furthermore, original type material, some of species described as members of *Laius*, could be studied in those collections, or were borrowed from the Natural History Museum of Basel (NMB), the Senckenberg German Entomological Institute Müncheberg (SDEI), or the private collection of Rudolf Schuh, Wiener Neustadt (cRS).

Type material of the following species not mentioned below was examined:

Intybia eversi (Hicker, 1948) (holotype, 4 paratypes; NMB)

Intybia hamata (Wittmer, 1996) (holotype; NMW)

Intybia krali (Wittmer, 1996) (holotype, 5 paratypes; NMB)

Intybia latefasciata (Pic, 1919) (lectotype; SDEI)

Intybia sulawesiensis (Wittmer, 1996) (holotype, 1 paratype; NMW)

Laius ambonensis Wittmer, 1996 (holotype, 29 paratypes; NMW)

Laius satoi Yoshitomi, 2008 (3 paratypes; NMW)

This and the identification of species allied to species currently unknown to (i.e. not seen by) the author, resulted in the necessity of the nomenclatorial acts detailed below. New species discovered during the afore-mentioned determination work will be described in follow-up studies.

Methods

For those species listed herein of which no material was examined, the original descriptions were checked if they meet the criteria of the genus concept of *Intybia* by Evers (1994). If characteristic features diagnostic for *Intybia* were found to be illustrated or expressed clearly in words, a new combination of the species in question is proposed.

The lists of synonymy and taxonomic references were compiled by the author (I) from original descriptions, redesriptions and taxonomic notes in the works (see references below) of Asano, Champion, Evers, Pic, and Wittmer; (II) from three catalogues (Greiner 1937, Wittmer 1941, Mayor 2007); and (III) from four papers on faunistics of Egypt (El-Torkey & al. 2012), Iran (Arefnia & Tshernyshev 2004, Ghahari & al. 2008), and Laos (Asano & al. 2011). The resulting references under a proposed new genus combination are not intended to be exhaustive, and should not be considered complete.

Results

Intybia Pascoe, 1866

Intybia Pascoe, 1866: 448. – Champion 1921: 323 (synonymisation). – Evers 1994: 171 ff. (revalidation). – Mayor 2007: 417.

Intibia [incorrect subsequent spelling]: Sato & al. 2006: 349.

Notes on the used genus concepts: The genera *Intybia* and *Laius* belong to the tribe Apalochrini of the subfamily Malachiinae, and the species of both genera possess

simple five-segmented front tarsi and modified third antennomeres (antennal excicators). They can easily be separated from each other at first sight through the combination of the following characters: The species of *Intybia* possess simple front legs in the male sex, a coarse and clearly visible puncturation, a suberect pubescence, and a pear-shaped pronotum. In addition, the elytra of many species are bicolorous. The species of *Laius* possess modified front femora and front tibiae in the male sex, a hardly visible puncturation, a velvety pubescence composed of short decumbent setae, and a broad pronotum. Most of all, the taxa in question differ extremely in life history: Species of *Laius* are maritime shore beetles inhabiting the intertidal zone, whereas the species of *Intybia* can be found in terrestrial habitats.

Notes on classification: *Intybia* can be further divided into species groups based upon chromatic features of the elytra (Wittmer 1997). Furthermore, relationships within species groups can be inferred from the similarity of antennomeres 1 - 3 of the males (Wittmer 1997), eidonomy of the frontoclypeal region, sculpture of elytra, and structures of the terminalia. Four species groups have already been established by Wittmer (1986, 1989, 1997), nearly twenty could be possible (Plonski, unpubl. data).

New combinations and faunistics

***Intybia afghanistanica* (Wittmer, 1956) comb.n.**

Laius foveicornis afghanistanicus Wittmer, 1956: 155.

Laius afghanistanicus: Wittmer 1986: 224. – Mayor 2007: 417.

***Intybia bengalensis* (Wittmer, 1986) comb.n.**

Laius bengalensis Wittmer, 1986: 230. – Mayor 2007: 417.

***Intybia birmanica* (Champion, 1921)**

Laius birmanicus Champion 1921a: 338. – Champion 1921b: 207. – Greiner 1937: 149.

Intybia birmanica: Wittmer 1997: 205. – Mayor 2007: 417. – Asano & al. 2011: 405.

Material examined: 2 ♂♂, 1 ♀ (NMW) "S. SHAN States \ Burma 1500 m \ Taunggyi 1.VIII- \ 22.IX.[19]34 Malaise", "Laius \ amoenus \ […] \ det. Rich. Hicker"; 1 ♂, 2 ♀♀ (NMW) "CHINA – Yunnan 22.5.-2.6. \ 100 km W Kunminng \ Diaolin Nat. Res., 1993 \ E. Jendek & O. Sausa leg."; 1 ♂ (NMW) "CHINA: Yünnan, Xishuangbanna \ ca. 12km NW Manghai \ 11.11.1999, ca. 1000m \ leg. Jäch, et al. (CWBS 376)"; 9 ♂♂, 15 ♀♀ (MNHUB) "CHINA: Yunnan [CH07-12] \ Baoshan Pref., Longchuan river bank, \ 24 km SE Tengchong, 1210 m, \ 24°53'32"N, 98°40'34"E, sandy river \ bank, 31.V.2007, M. Schülke"; 12 ♂♂, 3 ♀♀ (MNHUB) "CHINA: Yunnan, Baoshan Pref., \ creek valley 21 km S Tangchan, \ 1358 m, 24°50'22"N, 98°27'1"E, \ washed from creek boarder and \ gravel bank, 30.VIII.2009, \ leg. M. Schülke [CH09-20]"; 48 ♂♂, 40 ♀♀ (MNHUB) "CHINA: Yunnan, Lincangg Pref., \ Nanding He river bank, \ 24°07'44,2"N, 100°04'32,0"E \ 1108 m, washed from gravel and sand \ from roots of vegetation, 7.IX.2009, \ leg. M. Schülke [CH09-34]"; 3 ♂♂, 8 ♀♀ (MNHUB) "CHINA: Yunnan, Lincang Pref., \ Nanding He river bank, 17 km N \ Lincang, 1288 m, washed from gravel \ and sand, from roots of vegetation, \ 24°02'11,9"N, 100°04'56,8"E, 10.IX. \ 2009, leg. M. Schülke [CH09-41]".

Distribution: So far, recorded from China, Laos, Myanmar, and Thailand (Champion 1921, Wittmer 1997, Asano & al. 2011).

***Intybia brancuccii* (Wittmer, 1989) comb.n.**

Laius brancuccii Wittmer, 1989: 234. - Mayor 2007: 417.

***Intybia burmensis* (Wittmer, 1986) comb.n.**

Laius burmensis Wittmer, 1986: 226.

Material examined: 1 ♀ (NMW) "MYANMAR: Mandalay Division \ Mt. Popa, 26.10.1998 \ below Popa village \ 20°55.613'N 95°11,602'E \ leg. Schillhammer (35)".

***Intybia canaliculata* (Wittmer, 1986) comb.n.**

Laius canaliculatus Wittmer, 1986: 222. - Mayor 2007: 417.

***Intybia caeruleipennis* (Pic, 1914) comb.n.**

Laius caeruleipennis Pic, 1914: 16. – Greiner 1937: 149. – Wittmer 1956: 155. – Wittmer 1989: 231. – Mayor 2007: 417.

***Intybia championi* Wittmer, 1997**

Intybia championi Wittmer, 1997: 206.

Laius birmanicus [partim]: Champion 1921a: 338f.

Material examined: 18 ♂♂, 32 ♀♀ (NMW) "S-VIETNAM \ 14km SW Bao Loc \ 16.-29.5.1994 \ Pacholatko & Dembicky".

Distribution: Described after specimens from Myanmar (Wittmer 1997: 206). First record for Vietnam.

***Intybia cribrosa* (Pic, 1937) comb.n.**

Laius cribrosus Pic, 1937b: 139. – Wittmer 1941: 1126. – Wittmer 1996: 320.

Material examined: 1 ♀ (NMW) "JAVA, 28.1. \ S Bogor \ Cizarua", "INDONESIA 1989 \ leg. Schillhammer", "Laius \ cribrosus \ Pic \ det. W. Wittmer".

***Intybia denticollis* (Wittmer, 1990) comb.n**.

Laius denticollis Wittmer, 1990: 119.

Material examined: 1 ♂ (NMW) "INDONESIA, SE-Sulawesi \ Kendari Airport 11.-14.3. \ 30 km W Kendari 1994 \ leg. M. Strba & I. Jenis".

***Intybia fossigera* (Wittmer, 1990) comb.n.**

Laius fossigerus Wittmer, 1990: 118.

***Intybia foveicornis* (Pic, 1917) comb.n.**

Laius foveicornis Pic, 1917: 5. – Greiner 1937: 151. – Wittmer 1986: 229. – Wittmer 1994: 13. – Mayor 2007: 417.

***Intybia jaechi* (Wittmer, 1996) comb.n.**

Laius jaechi Wittmer, 1996: 319.

Type material examined: Holotypus (♂, NMW): "Lombok 4.2.88 \ Suranadi \ leg. Jäch (15)" [w, p], "858" [w, hwr], "HOLOTYPUS" [r, p], "Laius \ jaechi \ Wittm. [all lines hwr, MS Wittmer]\ det. W. Wittmer [p]" [w].

Additional material examined: 1 ♂, 8 ♀♀ (NMW) "E-JAVA: 23.9.1995 \ 50km S Surabaya, 1000m \ Tretes, Alap Alap WF \ leg. Schillhammer (4)". 3 ♂♂, 12 ♀♀ (NMW) "INDONESIA: W Java \ Gn. Salak, 8 km S Bogor \ Sungai Ciapus, ca. 800m \ leg. Schuh 17.8.1994".

Distribution: Described after a unique male from Lombok Island (West Nusa Tenggara province, Indonesia). First record for the island of Java, and the West and East Java provinces of Indonesia respectively.

***Intybia jocelynae* (Wittmer, 1986) comb.n.**

Laius jocelynae Wittmer, 1986: 226.

***Intybia juengeri* (Wittmer, 1986) comb.n.**

Laius juengeri Wittmer, 1986: 218.

***Intybia kanarensis* (Pic, 1917) comb.n.**

Laius kanarensis Pic, 1917: 4. – Champion 1921: 332 (synonymisation). – Wittmer 1986: 220 (revalidation).

Laius plagiatus var. *kanarensis*: Greiner 1937: 153.

***Intybia kurosawai* (Wittmer, 1986) comb.n.**

Laius kurosawai Wittmer, 1986: 217.

***Intybia lueoendi* (Wittmer, 1986) comb.n.**

Laius lueoendi Wittmer, 1986: 227.

***Intybia nitidicollis* (Wittmer, 1994) comb.n.**

Laius nitidicollis Wittmer, 1994: 13. – Mayor 2007: 417.

***Intybia nodifrons* (Champion, 1921) comb.n.**

Laius nodifrons Champion, 1921: 327. – Greiner 1937: 152. – Wittmer 1989: 229. – Mayor 2007: 418.

***Intybia nuristanica* (Wittmer, 1989) comb.n.**

Laius nuristanicus Wittmer, 1989: 232. – Mayor 2007: 418.

Material examined: 1 ♂ (MNHUB) "Pakistan (Chitral) \ Bumburet (Kalash- \ vall.) 2100/ 2600m \ Heinz leg. 8./10.VIII.[19]97".

Distribution: Described after specimens from Afghanistan (Wittmer 1989). First record for Pakistan.

***Intybia pakistanica* (Wittmer, 1986) comb.n.**

Laius pakistanicus Wittmer, 1986: 225. – Mayor 2007: 418.

***Intybia partepolita* (Wittmer, 1986) comb.n.**

Laius partepolitus Wittmer, 1986: 223. – Mayor 2007: 418.

***Intybia pashtun* (Wittmer, 1989) comb.n.**

Laius pashtun Wittmer, 1989: 231. – Mayor 2007: 418.

***Intybia planicornis* (Wittmer, 1982)**

Laius planicornis Wittmer, 1982: 370.

Intybia planicornis: Wittmer 1997: 204. – Mayor 2007: 417.

Material examined: 1 ♂ (NMW) "CHINA Jiangxi \ JINGGANG SHAN \ Ciping env. \ 2.-14.VI.1994".

Distribution: Described after specimens from Taiwan (Wittmer 1982). Recorded for China (viz. Fujian) by Wittmer (1997). Second record for China, and first record for the Jiangxi province.

***Intybia plagiata* (Walker, 1858) comb.n.**

Malachius plagiatus Walker, 1858: 283.

Laius plagiatus: Bourgeois 1905: 130. – Champion 1921: 332. – Greiner 1937: 153. – Wittmer 1986: 217.

***Intybia schillhammeri* (Wittmer, 1996) comb.n.**

Laius schillhammeri Wittmer, 1996: 320.

Type material examined: Holotypus: 1 ♂ (NMW) "W-Sumatra 14.2. \ 50km s Padang \ Pantai Bungus" [w, p], "INDONESIEN \ 1991 \ Schillhammer" [w, p], "859" [w, MS], "HOLOTYPUS" [r, p], "Laius \ schillhammeri \ Wittm. [all lines hwr, MS Wittmer] \ det. W. Wittmer [p]".

***Intybia schuhi* (Wittmer, 1994) comb.n.**

Laius schuhi Wittmer, 1994: 12. – Mayor 2007: 418.

Type material examined: Paratypus: 1 ♂ (cRS) "India: Uttar Prad. \ Nainital 2300m \ 28.6.1989" [w, hwr, MS Schuh], "PARATYPUS" [r, p], "Laius \ schuhi \ Wittm. [all lines hwr, MS Wittmer] \ det. W. Wittmer [p]", "Intybia (s.str.) \ schuhi \ (Wttm., 1994) \ \ rev. I. Plonski [20]'10" [w, hwr, MS Plonski].

***Intybia takaraensis* (Nakane, 1955)**

Laius takaraensis Nakane, 1955: 376.

Intybia takaraensis: Wittmer 1997: 194.

Material examined: 1 ♂ (NMW) "USSR, Primorskij kr. \ ARSENEV env. \ 27.V.-5.VII.1991 \ O. Sausa".

Note: This specimen has been compared with the material (12 specimens in NMB) studied by Wittmer (1997).

Distribution: So far, recorded from China (Fujian), Japan (Tokara islands), and Russia (Primorye) (Wittmer 1997).

***Intybia testaceipes* (Pic, 1911) comb.n.**

Laius testaceipes Pic, 1911: 107. – Greiner 1937: 155. – Wittmer 1989: 229.

Laius atripalpis Pic, 1937a: 108. – Wittmer 1941: 1126. – Wittmer 1989: 229 (synonymy).

***Intybia variolosa* (Bourgeois, 1905) comb.n.**

Laius variolosus Bourgeois, 1905: 131. – Greiner 1937: 155. – Wittmer 1986: 229.

***Intybia venusta* (Erichson, 1840) comb.n.**

Laius venustus Erichson, 1840: 63 . – Champion, 1921: 335. – Greiner 1937: 155. – Evers 1986: 97. – Arefnia & Tshernyshev 2004: 32. – Mayor 2007: 418. – Ghahari & al. 2008: 739. – El-Torkey & al. 2012: 286.

Laius abyssinicus Pic, 1917: 5. – Greiner 1937: 148. – Evers 1986: 97-98 (synonymy).

Malachius bifasciatus Laporte de Castelnau, 1840: 280 (synonymy by Greiner 1937: 155).

Laius rugosiceps Pic, 1922: 159. – Greiner 1937: 154. – Evers 1986: 97 (synonymy by Mayor 2007: 418).

Laius venustus var. *letourneuxi* Pic, 1928: 5 (synonymy by Greiner 1937: 155).

Laius venustus var. *bedforti* Pic, 1928: 5. - Greiner 1937: 149 (synonymy by Evers 1986: 98).

Material examined: 1 ♂ (NMW) "Aegypt \ V. M. Duchon", "Luxor \ V. M. Duchon"; 2 ♂♂, 2 ♀♀ (NMW) "PYRAMIDS \ OCT [19]12".

Nomenclature

***Intybia pelegrini pelegrini* (Pic, 1910), *I. pelegrini longior* Wittmer, 1997, and *I. pelegrini*-group of species**

Note: Pic (1910: 62) originally wrote "*pelegrini*" in the description. This was followed by, e.g., Champion (1921: 331) and Pic (1921: 19). Greiner (1937: 152) used the incorrect subsequent spelling "*pellegrini*", which was followed by Wittmer (1997: 191 ff.).

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