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Revision of the *Scirtes flavoguttatus* species-group (Coleoptera: Scirtidae: Scirtinae)

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Table of contents

Abstract	4
Introduction	4
Materials and Methods	4
Systematics	5
<i>Scirtes flavoguttatus</i> species-group	5
<i>Scirtes flavoguttatus</i> Champion, 1918	7
<i>Scirtes decemnotatus</i> Champion, 1918	10
<i>Scirtes septemmaculatus</i> Yoshitomi & Ruta, sp. n.	12
<i>Scirtes luteomaculatus</i> Pic, 1935	14
<i>Scirtes teruhisai</i> Yoshitomi & Ruta, sp. n.	16
<i>Scirtes maxi</i> Yoshitomi & Ruta, sp. n.	18
<i>Scirtes schawalleri</i> Yoshitomi & Ruta, sp. n.	19
<i>Scirtes kodadai</i> Yoshitomi & Ruta, sp. n.	23
<i>Scirtes tanahratensis</i> Yoshitomi & Ruta, sp. n.	26
<i>Scirtes malaccanus</i> Yoshitomi & Ruta, sp. n.	27
<i>Scirtes malcolmi</i> Yoshitomi & Ruta, sp. n.	29
<i>Scirtes basifasciatus</i> Pic, 1938	31
<i>Scirtes curtelineatus</i> Pic, 1936	33
<i>Scirtes philippinensis</i> Yoshitomi & Ruta, sp. n.	34
<i>Scirtes flavocinctus</i> Champion, 1918	36
<i>Scirtes bidentatus</i> Yoshitomi & Ruta, sp. n.	38
<i>Scirtes laosensis</i> Yoshitomi & Ruta, sp. n.	39
<i>Scirtes Chiangmaiensis</i> Yoshitomi & Ruta, sp. n.	43
<i>Scirtes niisatoi</i> Yoshitomi & Ruta, sp. n.	44
<i>Scirtes satoi</i> Yoshitomi & Ruta, sp. n.	46
<i>Scirtes nigrofasciatus</i> Yoshitomi & Ruta, sp. n.	47
<i>Scirtes tambdaensis</i> Yoshitomi & Ruta, sp. n.	48
<i>Scirtes balehensis</i> Yoshitomi & Ruta, sp. n.	50
<i>Scirtes maramagensis</i> Klausnitzer, 2006	52
<i>Scirtes sulcigerus</i> Champion, 1918	52
<i>Scirtes crassicornis</i> Champion, 1918	54
<i>Scirtes patkainus</i> Champion, 1918	56
<i>Scirtes malayanus</i> Champion, 1918	57
<i>Scirtes cameroni</i> Yoshitomi & Ruta, sp. n.	59
<i>Scirtes sabahensis</i> Yoshitomi & Ruta, sp. n.	60
<i>Scirtes brancuccii</i> Yoshitomi & Ruta, sp. n.	62
<i>Scirtes rufotinctus</i> Champion, 1918	63
<i>Scirtes curvans</i> Yoshitomi & Ruta, sp. n.	65
<i>Scirtes dichrous</i> Champion, 1918	66
<i>Scirtes sakaii</i> Yoshitomi & Ruta, sp. n.	68
Zoogeographical remarks	70
List of the species of <i>flavoguttatus</i> species-group	71
Key to species of <i>Scirtes flavoguttatus</i> species-group	72
Acknowledgements	74
References	74

Abstract

Scirtes flavoguttatus Champion and allied species (*flavoguttatus* species-group in this paper) are revised. In total 38 species are recognized including 23 new species; *Scirtes balehensis* sp. n. (Borneo), *S. bidentatus* sp. n. (Borneo), *S. brancuccii* sp. n. (Laos); *S. cameroni* sp. n. (Malaysian Penins.), *S. chiangmaiensis* sp. n. (Thailand), *S. curvans* sp. n. (Mindanao), *S. kodadai* sp. n. (Borneo), *S. laosensis* sp. n. (Laos), *S. malaccanus* sp. n. (Malayan Penins.), *S. malcolmi* sp. n. (Borneo), *S. maxi* sp. n. (Borneo), *S. nigrofasciatus* sp. n. (Sumatra), *S. niisatoi* sp. n. (Laos), *S. philippinensis* sp. n. (Mindanao), *S. sabahensis* sp. n. (Borneo); *S. sakaii* sp. n. (Thailand), *S. satoi* sp. n. (Malaysian Penins.), *S. schawalleri* sp. n. (Sumatra), *S. schawalleroides* sp. n. (Sumatra), *S. septemmaculatus* sp. n. (Borneo), *S. tamdaoensis* sp. n. (Vietnam), *S. tanahratensis* sp. n. (Borneo), and *S. teruhisai* sp. n. (Borneo). The twelve previously known species; *Scirtes basifasciatus* Pic, 1938, *S. crassicornis* Champion, 1918, *S. curtelineatus* Pic, 1936, *S. decemnotatus* Champion, 1918, *S. dichrous* Champion, 1918, *S. flavocinctus* Champion, 1918, *S. flavoguttatus* Champion, 1918, *S. luteomaculatus* Pic, 1935, *S. malayanus* Champion, 1918, *S. patkainus* Champion, 1918, *S. rufotinctus* Champion, 1918, and *S. sulcigerus* Champion, 1918, are redescribed. *Scirtes curvans* Champion, 1918 is synonymised with *Scirtes patkainus* Champion, 1918. A key to species and the species list of the species-group are provided.

Key words: Coleoptera, Scirtidae, *Scirtes flavoguttatus* species-group, taxonomy, new species, Oriental Region

Introduction

Scirtes Illiger is the second largest genus of the family Scirtidae and the largest genus of saltatorial Scirtidae, represented by ca. 360 species distributed worldwide. A great majority of species is known from old descriptions, and nothing is known on the morphology of their genitalia. Two subgenera were proposed by Pic: *Explanatoscirtes* Pic, 1952 to accommodate five Afrotropical species and *Curtoscirtes* Pic, 1924 (elevated to a generic rank in Pic 1952b) including six Oriental species. Both subgenera were poorly defined and have not been redescribed. Some authors divide remaining *Scirtes* s. str. into informal species-groups on the basis of genitalia morphology, i. e. *japonicus* (Nyholm 2002, Klausnitzer 2005a), *haemisphaericus*, *tsumaguro* (Yoshitomi 2005) *micronesianus*, *tigmanensis*, *gressitti*, *zerchei* and *elegans* (Yoshitomi 2009); other specialists drew attention to named groups of very closely related forms, hardly distinguishable on the basis of external characters (e. g. “*helmsi*-like” species in Watts 2004).

About 130 species of *Scirtes* were described by Bourgeois, Champion, Fairmaire, Klausnitzer, and Motschulsky from the Oriental Region (based on our unpublished database). Most of the old descriptions are laconic, and no redescriptions are available, the only exception is *Scirtes flavonotatus* Champion, which was redescribed in Yoshitomi 2008. In the present paper, we define and review the *Scirtes flavoguttatus* species-group. Females are often unidentifiable. As it is impossible to assign most of them to species, only a few descriptions of females are included in the present study.

Materials and Methods

Genitalia of several specimens were mounted on permanent slides, which are stored together with the rest of the specimen (numbers of slides indicated in the text).

The terminology refers to Nyholm (2002) and Yoshitomi (2005) for genitalia.

Holotype and lectotype labels are printed on red paper, paratype labels on yellow paper according to the following scheme: “HOLOTYPE (LECTOTYPE, PARATYPE), Genus species sp. n., des. Yoshitomi & Ruta 2009”.

The holotypes, lectotypes and paratypes designated in the present paper are deposited in the collections of:

BORNEENSIS Collection of Institute for Tropical Biology & Conservation, Sabah University (ITBC), Department of Biodiversity and Evolutionary Taxonomy, Wrocław (DBET),