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Records on Phalacridae (Coleoptera) new to the Swiss fauna

ZDENIK ŠVEC¹ AND IVAN LÖBL²

The following nine species of Phalacridae are recorded from Switzerland for the first time: *Phalacrus fimetarius* (FABRICIUS, 1775), *P. championi* GUILLEBEAU, 1892, *Olibrus koltzei* FLACH, 1888, *O. reitleri* FLACH, 1888, *O. norvegicus* MUNSTER, 1901, *O. guttatus* TOURNIER, 1889, *O. particeps* MULS. & REY, 1861, *O. stierlini* FLACH, 1888, and *Stilbus pannonicus* FRANZ, 1968. TOURNIER's identifications of Swiss material of Phalacridae are corrected.

Key-words: Coleoptera, Phalacridae, distribution, Switzerland

INTRODUCTION

Phalacridae are one of the smaller families of cucujiform beetles, containing worldwide 605 species. Adults and larvae of some species are associated with flower heads of Compositae, some species feed on rust, smuts and pyrenomycete fungi but the biology of most species is unknown. Adult phalacrids may be easily recognized by their characteristic shape of body and antennae, and are commonly found in field, in particular by sweeping vegetation. In spite of large amount of material accumulated in collections, the taxonomic treatment of the group is not adequate. The identification of many species is based on keys lacking reliable species specific characters, and only few species were redefined by recent authors (CANEPARI 1995; FRANZ 1968; ŠVEC 1992a, 1992b; ŠVEC & ANGELINI 1996, THOMPSON 1958). Therefore, many records in older papers are unreliable.

The Swiss fauna appears to be particularly poorly known, as far as Phalacridae are concerned. At present, only 16 species were recorded from Switzerland (LUCHT 1987, ŠVEC & ANGELINI 1996). The examination of large collections of phalacrids housed in Switzerland and France provided numerous new data. The present paper is limited to report nine species new to the Swiss fauna and to list all phalacrid species known to occur in Switzerland.

MATERIAL AND METHODS

The Muséum d'histoire naturelle, Geneva (MNHG) holds an extensive material of Swiss Phalacridae. In addition, the senior author identified Swiss material preserved in the collections of the Naturhistorisches Museum in Basel, Naturhistorisches Museum in Bern, Naturmuseum in Luzern (NML), Muséum Zoologique in Lausanne, private collection of Mr. P. SCHERLER, Clarens (PCS), Hospice Grand St. Bernard, and Muséum National d'Histoire Naturelle, Paris [H. TOURNIER's collection] (MNHN) was identified by the senior author. Collections referred to in the present study are provided with acronyms. The geographic information is arranged alphabetically. The names of the Swiss cantons are in French. Eventual erroneous

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label data, and incomplete names of localities and/or collectors are given corrected and completed.

RESULTS

***Phalacrus fimetarius* (FABRICIUS)**

Sphaeridium fimetarium FABRICIUS, 1775: 68

Material examined. SWITZERLAND, GENÈVE: Corsier-Douane, 18.VII.85, C. Besuchet, 1 (MHNG); Genève, 15.II.60, L. Rappo, 3 (MHNG); Les Bailleys, 22.VII.85, C. Besuchet, 1 (MHNG); Moulin-de-Vert, 15.V.89, C. Besuchet, 7 (MHNG); Moulin-de-Vert, 13.VI.70, Scherler, 3 (PCS); Roulave, 30.VI.92, C. Besuchet, 1 (MHNG); VALAIS: Ardon, 800m, 6.V.80, G. Toumayeff, 1 (MHNG); Ausserberg, 1000m, 26.VI.91, C. Besuchet, 3 (MHNG); Branson, 5.VI.60, P. Scherler, 2 (PCS); Châteauneuf, 1.VIII.88, C. Besuchet, 3 (MHNG); Dorénaz, 26.V.74, P. Scherler, 1 (PCS); Gampel, 31.V.96, C. Besuchet, 2 (MHNG); Grimisuat, 900m, 13.V.92, C. Besuchet, 5 (MHNG); Hohtern, 29.V.90, P. Scherler, 1 (PCS); above Inden, 1300-1400m, 8.X.88, C. Besuchet, 1 (MHNG); Raron, 12.V.92, C. Besuchet, 4 (MHNG); Savièse-Binii, 1000m, 13.V.92, C. Besuchet, 2 (MHNG); VAUD: Bois de Chênes, 7.VI.76, P. Scherler, 1 (PCS).

Distribution: Algeria, Austria, Belgium, Bulgaria, Czech Republic, Denmark, England, France, Germany, Greece, Hungary, Italy (Sicily incl.), Latvia, Netherlands, Poland, Romania, Sweden, Switzerland, Transcaspian Region, Turkey, Ukraine. **New species for Switzerland.**

***Phalacrus championi* GUILLEBEAU**

Phalacrus championi GUILLEBEAU, 1892: 158

Material examined. SWITZERLAND: GENÈVE: Peney, 1 labeled: "var. grandis, comparé au type de Brisout", "Coll. M. Pic/Tournier", identified as "brunnipes" (MNHP); Chancy, 6.X.1960, M. Rehfoos, 2 (MHNG); La London, 7.1971, G. Toumayeff, 1 (MHNG); Moulin-de-Vert, 4.VII.1979, C. Besuchet, 1 (MHNG); Sézégny, 28.XI.1984, C. Besuchet, 1 (MHNG); Roulave, 3.V.94, C. Besuchet, 1 (MHNG); VALAIS: Savièse, 1050m, V.82, G. Toumayeff, 1 (MHNG); Savièse-Binii, 13.V.1979, 1000m, C. Besuchet, 1 (MHNG); Sion, 9.VIII.1966, A. Spälti, 1 (MHNG); Vex, 4.VI.67, P. Scherler, 1 (PCS); VAUD: Dugny, 30.X.84, 1 (PCS); TESSIN: Mte S. Giorgio, 21.VI.85, P. Scherler, 1 (PCS).

Distribution: Austria, England, Germany, Netherlands, Poland, Russia, Sweden, Switzerland. **New species for Switzerland.**

Comments: HODGE & JONES (1995) stated that *Phalacrus brunnipes* BRISOUT, 1863 "Resembling *P. championi* GUILLEBEAU but with weaker microsculpture. *P. championi* has actually been deleted from the British list, all specimens being referable to *P. brunnipes*."

This statement is in contradiction to the fact that *P. championi* was described from England.

***Olibrus guttatus* TOURNIER**

Olibrus guttatus TOURNIER, 1889: 89

Material examined. SWITZERLAND: BERNE: Angenstein, 14.VIII.18, E. Frey-Gessner, 1 male (MHNG).

Distribution: Morocco, Switzerland, Turkey. **New species for Switzerland and also for Europe.**

***Olibrus koltzei* FLACH**

Olibrus koltzei FLACH, 1888: 70

Material examined. SWITZERLAND, VALAIS: Liddes, 1300m, 10.IX.1996, C. Besuchet, 1 male (MNHG).

Distribution: Azerbaijan, Bulgaria, Georgia, Kazakhstan, Switzerland. **New species for Switzerland.**

***Olibrus norvegicus* MÜNSTER**

Olibrus norvegicus MÜNSTER, 1901: 34

Material examined. SWITZERLAND, TESSIN: Iragna, VII 82, 970 m, G. Toumayeff, 1 male (MHNG).

Distribution: Algeria, Bulgaria, "Caucasus", Denmark, Estonia, Finland, Germany, Greece, Israel, Latvia, Lithuania, Norway, Poland, Far East of Russia, Slovakia, Sweden, Switzerland, Turkey, Turkmenistan. **New species for Switzerland.**

***Olibrus particeps* Mulsant & Rey**

Olibrus particeps MULSANT & REY, 1861: 127

Material examined. SWITZERLAND, GENÈVE: Peney, H. Tournier, 1 male (MNHN)

Distribution: Algeria, Cyprus, East Siberia, Egypt, England, France (Corsica incl.), Greece, Israel, Italy (Sardinia, Sicily incl.), Japan, Lebanon, Morocco, Portugal, Spain (Balears incl.), Switzerland, Tunisia. **New species for Switzerland.**

***Olibrus reitteri*, FLACH**

Olibrus reitteri, FLACH, 1888: 71

Material examined. SWITZERLAND, GENÈVE: Veyrier, Arve, 29.IX. 96, 1 male; Mategnin, 14.IV. 63, 1; La Louvière, 21.VI. 1985 1. All leg. C. Besuchet and in MHNG.

Distribution: Algeria, Croatia, Egypt, France (Corsica incl.), Greece (Corfu incl.), Italy (Elba, Sardinia, Sicily incl.), Malta, Morocco, Spain, Switzerland, Tunisia, Turkey. **New species for Switzerland.**

***Olibrus stierlini* FLACH**

Olibrus stierlini FLACH, 1888: 73

Material examined. SWITZERLAND, GENÈVE: labeled: "Genf" 1 male ex coll. G. Huguenin (ETHC).

Distribution: Algeria, Bulgaria, France (Corsica, incl.), Greece (Corfu incl.), Italy (Elba, Sicily, Sardinia incl.), Portugal, Romania, Spain (Balears incl.), Switzerland, Tunisia, Turkey. **New species for Switzerland.**

***Stilbus pannonicus* Franz**

Stilbus pannonicus FRANZ, 1968: 169

Material examined. SWITZERLAND, GENÈVE: Veyrier, E. Poncy coll., 1 male, 1 female (MHNG); LUZERN: Neudorf, Vogelmoos, 775m, vii. 1988, LF, Resbanyai-Reser lgt. (NML).

Distribution: Afghanistan, Austria, Czech Republic, France, Germany, Greece, Hungary, Italy, Kazakhstan, Macedonia, Poland, Slovakia, Spain, Switzerland, Turkey, Ukraine. **New species for Switzerland.**

Checklist of the Swiss Phalacridae

The Phalacridae presently known to occur in Switzerland are listed below.
(* = new to Switzerland)

Phalacrus PAYKULL, 1800

- P. corruscus* (PANZER, 1797)
- P. fimetarius* (FABRICIUS, 1775) *
- P. grossus* ERICHSON, 1848
- P. championi* GUILLEBEAU, 1813 *
- P. substriatus* GYLLENHAL, 1813
- P. nigrinus* (MARSHAM, 1802)

Olibrus ERICHSON, 1845

- O. aeneus* (FABRICIUS, 1792)
- O. koltzei* FLACH, 1888 *
- O. baudueri* FLACH, 1888
- O. millefolii* (PAYKULL, 1800)
- O. corticalis* (PANZER, 1792)
- O. pygmaeus* (STURM, 1807)
- O. particeps* MULSANT & REY, 1861 *
- O. flavicornis* (STURM, 1807)
- O. norvegicus* MUNSTER, 1901 *
- O. affinis* (STURM, 1807)
- O. liquidus* ERICHSON, 1848
- O. guttatus* TOURNIER, 1889 *
- O. bicolor* (FABRICIUS, 1792)
- O. bimaculatus* KÜSTER, 1848
- O. reitteri* FLACH, 1888 *
- O. stierlini* FLACH, 1888 *

Stilbus SEIDLITZ, 1872

- S. pannonicus* FRANZ, 1968 *
- S. testaceus* (PANZER, 1797)
- S. atomarius* (LINNÉ, 17967)
- S. oblongus* (ERICHSON, 1848)

DISCUSSION

The Phalacridae species newly recorded from Switzerland may be easily identified by their male genital characters. THOMPSON (1958, Figs 19 and 22) illustrated the aedeagi of *Phalacrus championi* and *P. fimetarius*; ŠVEC (1992a, Figs 2, 3, 7-18 and 20, 21 and 1992 b, Figs 14 and 15) the aedeagi of *Olibrus koltzei* and *O. stierlini*; ŠVEC & PONEL (1999, Figs 7, 8) the aedeagus of *O. guttatus*; ŠVEC & ANGELINI (1996, Figs 5, 6) the aedeagus of *O. reitteri*; LOHSE & LUCHT (1992, Fig. 55, 2: 8a) the aedeagus of *O. norvegicus* and FRANZ (1968, Figs 1a, 1b) the aedeagus of *Stilbus pannonicus*. The genital characters of *Olibrus particeps* were neither illustrated or described.

The type material of species described by TOURNIER (1889) was studied by ŠVEC (1999). In addition, the senior author studied all Swiss phalacrids which are

in the H. TOURNIER's collection and were published by TOURNIER (1889). The revision of that material gives an insight of H. TOURNIER's taxonomic treatment of the group.

TOURNIER did not provide the identified specimens with identification labels. The respective species names (and eventually, the names of subspecies and infra-specific forms) were subsequently written at the bottom of the drawers, below the pines bearing the specimens. Therefore, the relevant genus names are given below in square brackets.

<u>TOURNIER's identification</u>	<u>Present identification</u>
[<i>Phalacrus</i>] <i>humberti</i> TOURNIER, (8 spec.)	<i>Phalacrus coruscus</i> (PANZER, 1797)
[<i>Phalacrus</i>] <i>quercus</i> TOURNIER (7 spec., incl. the lectotype)	<i>Phalacrus coruscus</i> (PANZER, 1797)
[<i>Phalacrus</i>] <i>brunnipes</i> (1 spec.)	<i>Phalacrus championi</i> GUILLEBEAU, 1892
[<i>Phalacrus</i>] <i>rufipes</i> TOURNIER (1 spec.)	<i>Phalacrus coruscus</i> (PANZER, 1797)
[<i>Phalacrus</i>] <i>minutus</i> TOURNIER (1 spec.)	<i>Phalacrus substriatus</i> GYLLENHAL, 1813
[<i>Olibrus</i>] <i>affinis</i> (3 spec.)	<i>O. liquidus</i> ERICHSON, 1845
[<i>Olibrus</i>] <i>bimaculatus</i> (6 spec.)	<i>Olibrus bimaculatus</i> KÜSTER, 1848 (2 spec.)
	<i>Olibrus bicolor</i> (FABRICIUS, 1792) (4 spec.)
[<i>Olibrus</i>] <i>helveticus</i> TOURNIER (9 spec.)	<i>Olibrus flavicornis</i> (STURM, 1807) (8 spec.)
	<i>Olibrus affinis</i> (STURM, 1807) (1 spec.)
[<i>Olibrus</i>] <i>millefolii</i> (5 spec.)	<i>Olibrus millefolii</i> (PAYKULL, 1800)
[<i>Olibrus</i>] <i>minutus</i> TOURNIER (5 spec.)	<i>Olibrus affinis</i> (STURM, 1807) (4 spec.)
	<i>Olibrus particeps</i> MULSANT & REY, 1861 (1 spec.)
[<i>Olibrus</i>] <i>pygmaeus</i> (4 spec.)	<i>Olibrus pygmaeus</i> (STURM, 1807)
[<i>Olibrus</i>] <i>sulcatus</i> (1 spec.)	<i>Olibrus liquidus</i> ERICHSON, 1845
[<i>Olibrus</i>] <i>aeneus</i> (4 spec.)	<i>Olibrus aeneus</i> (FABRICIUS, 1792)
[<i>Olibrus</i>] <i>affinis minor</i> (8 spec.)	<i>Olibrus affinis</i> (STURM, 1807)

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