

Linzer biol. Beitr.	49/1	21-28	28.7.2017
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A catalogue of the family Stephanidae (Stephanoidea) of the Malagasy subregion (Insecta: Hymenoptera)

Michael MADL

A b s t r a c t : In the Malagasy subregion 12 species of Stephanidae are recorded only from Madagascar. The genus *Foenatopus* SMITH, 1860, is represented by six species, the genus *Madegafoenus* BENOIT, 1951 by one species, the genus *Megischus* BRULLÉ, 1846 by three species and the genus *Profoenatopus* VAN ACHTERBERG, 2002 by two species.

Key words: Insecta, Hymenoptera, *Foenatopus*, *Madegafoenus*, *Megischus*, *Profoenatopus*, Madagascar.

Introduction

In the Malagasy subregion the occurrence of the family Stephanidae is restricted to Madagascar. There are no records whether from the granitic islands of the Seychelles nor from the large volcanic islands of the Comores, Mayotte and the Mascarenes (Réunion, Mauritius, Rodrigues), where there are suitable habitats. Until now 12 species of four genera (*Foenatopus* SMITH, 1860 (six species), *Madegafoenus* BENOIT, 1951 (one species), *Megischus* BRULLÉ, 1846 (three species), *Profoenatopus* VAN ACHTERBERG, 2002 (two species)) have been recorded from Madagascar.

Species of Stephanidae are known as parasitoids of wood boring larvae of Coleoptera (e.g. Buprestidae, Cerambycidae) and Hymenoptera (e.g. Siricidae), but nothing is known about the biology of the Malagasy species.

How to use the catalogue

The systematic part of the catalogue is organized alphabetically. Subgenera are in brackets. Synonyms are marked with an asterisk (*) and printing errors with an exclamation mark (!). Only genera described from the Malagasy subregion are mentioned under synonyms and the number of valid species is also restricted to the Malagasy subregion.

The known records from Madagascar are listed province by province from North to South.

Abbreviations

cat.....	catalogue
descr.....	description
ed.....	editor
fig. (figs).....	figure (figures)
pl.....	plate
syn.....	synonym
tax.....	taxonomy
typ. gen.....	typus generis

Annotated catalogue

Genus *Foenatopus* SMITH, 1860

Description: SMITH 1860: 58.

Typus generis: *Stephanus indicus* WESTWOOD, 1841.

Synonym: *Neostephanus* KIEFFER, 1904: 1.

Typus generis: *Neostephanus alluaudi* KIEFFER, 1904.

Distribution: Afrotropical, Australian, Oriental and Palaearctic regions.

Valid species: 6.

Foenatopus alluaudi (KIEFFER, 1904)

Neostephanus Alluaudi n.sp.: KIEFFER 1904a: 1 (typ. gen.), 2 (key, descr. ♀, Madagascar).

Neostephanus alluaudi KIEFFER, 1904: KIEFFER 1904b: 474 (tax.), 478 (footnote: cat.).

Neostephanus alluaudi KIEFFER, 1904: ENDERLEIN 1905: 476 (cat.).

Neostephanus alluaudi KIEFFER, 1904: KIEFFER 1908: 7 (cat.).

Neostephanus alluaudi KIEFFER, 1904: VIERECK 1914: 100 (cat. typ. gen.).

Neostephanus alluaudi KIEFFER, 1904: ELLIOTT 1922: 777 (key, tax., descr. ♀, Madagascar).

Neostephanus alluaudi KIEFFER, 1904: BENOIT 1951: 272 (tax., Madagascar), 284 (key).

Neostephanus alluaudi KIEFFER, 1904: BENOIT 1957: 119 (key), 120 (Madagascar).

Neostephanus alluaudi KIEFFER, 1904: BENOIT 1984: 216 (tax., descr. ♂, Madagascar).

Neostephanus alluaudi KIEFFER, 1904: BASIBUYUK & QUICKE 1997: 1582 (without data).

Foenatopus alluaudi (KIEFFER, 1904): NARENDRAN ET AL. 2001: 81 (tax.). **not seen**

Foenatopus alluaudi (KIEFFER, 1904): VAN ACHTERBERG 2002: 188 (tax., Madagascar), 189 (figs 633-640).

Foenatopus alluaudi (KIEFFER, 1904): AGUIAR 2004: 18 (tax., Madagascar, cat.).

D i s t r i b u t i o n : Madagascar: Prov. Antsiranana: Antsiranana, Fizoana, Vallée du Sambirano – Prov. Antananarivo: Mandraka – Prov. Toamasina: Ambodivoangy, Andasibe (Perinet), S Baie d'Antongil, Manambato (Anove), Maroantsetra, Nosy Boraha (Sainte Marie) – Prov. Fianarantsoa: Mananara – Prov. Toliara: Bekily, Ivondro (leg. Seyrig).

Endemic. The locality Sainte Marie de Madagascar in AGUIAR (2004: 18) is in fact Nosy Boraha. The record from Nigeria (MEDLER 1980: 443) is probably a misidentification.

***Foenatopus berlandi* (BENOIT, 1951)**

Neostephanus Berlandi nov.sp.: BENOIT 1951: 275 (descr. ♂ ♀, Madagascar), 276 (figs 5.7,8), 284 (key).

Neostephanus berlandi BENOIT, 1951: BENOIT 1957: 120 (key), 121 (Madagascar).

Foenatopus berlandi (BENOIT, 1951): VAN ACHTERBERG 2002: 188 (tax.).

Foenatopus berlandi (BENOIT, 1951): AGUIAR 2004: 20 (tax., cat.).

D i s t r i b u t i o n : Madagascar: Prov. Toliara: S Befasy, Behara, Bekily.

Endemic.

***Foenatopus collaris* (BENOIT, 1951)**

Neostephanus collaris nov.sp.: BENOIT 1951: 272 (descr. ♀, Madagascar), 273 (figs 3.2,3), 284 (key).

Neostephanus collaris BENOIT, 1951: BENOIT 1957: 120 (key).

Foenatopus collaris (BENOIT, 1951): AGUIAR 2004: 23 (tax., cat.).

D i s t r i b u t i o n : Madagascar: Prov. Toliara: Behara.

Endemic.

***Foenatopus longicaudatus* (BENOIT, 1951)**

Neostephanus longicaudatus nov.sp.: BENOIT 1951: 273 (descr. ♂ ♀, figs 4.4-6, Madagascar), 284 (key).

Neostephanus longicaudatus BENOIT, 1951: BENOIT 1957: 120 (key).

Foenatopus longicaudatus (BENOIT, 1951): AGUIAR 2004: 30 (tax., cat.).

D i s t r i b u t i o n : Madagascar: Prov. Toliara: Bekily.

Endemic.

***Foenatopus micans* (BENOIT, 1951)**

Neostephanus micans nov.sp.: BENOIT 1951: 276 (figs 5.9,10), 277 (descr. ♂ ♀, Madagascar), 284 (key).

Neostephanus micans BENOIT, 1951: BENOIT 1957: 119 (key).

Foenatopus micans (BENOIT, 1951): AGUIAR 2004: 31 (tax., cat.).

D i s t r i b u t i o n : Madagascar: Prov. Toliara: Behara, Bekily.

Endemic.

***Foenatopus pauliani* (BENOIT, 1957)**

Neostephanus pauliani nov.sp.: BENOIT 1957: 120 (key, descr. ♂ ♀, Madagascar).

Foenatopus pauliani (BENOIT, 1957): AGUIAR 2004: 33 (tax., cat.).

D i s t r i b u t i o n : Madagascar: Prov. Toliara: S Befasy.

Endemic.

Genus *Madegafoenus* BENOIT, 1951

Description: BENOIT 1951: 278.

Typus generis: *Madegafoenus seyrigi* BENOIT, 1951.

D i s t r i b u t i o n : Malagasy Subregion.

Valid species: 1.

***Madegafoenus seyrigi* BENOIT, 1951**

Madegafoenus Seyrigi nov.sp.: BENOIT 1951: 278 (typ. gen.), 279 (descr. ♂ ♀, figs 6.11-13), 284 (key).

Madegafoenus seyrigi BENOIT, 1951: VAN ACHTERBERG 2002: 47 (figs 294, 295), 190 (tax., Madagascar), 191 (figs 641-646).

Madegafoenus seyrigi BENOIT, 1951: AGUIAR 2004: 46 (Madagascar, cat.).

D i s t r i b u t i o n : Madagascar: Prov. Toliara: Behara.

Endemic.

Genus *Megischus* BRULLÉ, 1846

Description: BRULLÉ 1846: 537.

Typus generis: *Stephanus furcatus* LEPELETIER DE SAINT-FARGEAU & SERVILLE, 1825.

D i s t r i b u t i o n : All zoogeographical regions.

Valid species: 3.

***Megischus bekilyanus* (BENOIT, 1951)**

Madegafoenus bekilyanus nov.sp.: BENOIT 1951: 279 (figs 6.15-17 as *Madegafoenus Bekilyarum*, footnote: tax.), 281 (descr. ♂ ♀, Madagascar), 284 (key).

Madegafoenus bekilyanus BENOIT, 1951: VAN ACHTERBERG 2002: 190 (tax., Madagascar).

Megischus bekilyanus (BENOIT, 1951): AGUIAR 2004: 50 (tax., Madagascar, cat.).

D i s t r i b u t i o n : Madagascar: Prov. Toliara: Behara, Bekily.

Endemic.

***Megischus occiputalis* (BENOIT, 1951)**

Madegafoenus occiputalis nov.sp.: BENOIT 1951: 279 (figs 6.14,18,19, footnote: tax.), 282 (descr. ♀, Madagascar), 284 (key).

Madegafoenus occiputalis BENOIT, 1951: VAN ACHTERBERG 2002: 190 (tax., Madagascar).

Megischus occiputalis (BENOIT, 1951): AGUIAR 2004: 60 (tax., Madagascar, cat.).

D i s t r i b u t i o n : Madagascar: Prov. Toliara: Ivondro (leg. Seyrig).

Endemic.

***Megischus seyrigi* (BENOIT, 1951)**

Stephanus Seyrigi nov.sp.: BENOIT 1951: 270 (descr. ♂ ♀, fig. 1, Madagascar), 271 (fig. 2.1).

Stephanus seyrigi BENOIT, 1951: BENOIT 1957: 121 (tax., Madagascar).

Stephanus seyrigi BENOIT, 1951: VAN ACHTERBERG 2002: 199 (tax.).

Megischus seyrigi (BENOIT, 1951): AGUIAR 2004: 62 (tax., Madagascar, cat.).

D i s t r i b u t i o n : Madagascar: Prov. Antsiranana: Vallée du Sambirano – Prov. Toliara: Bekily, Zombitsy Special Reserve.

Endemic.

***Megischus* sp.**

Madegafoenus sp.: VAN ACHTERBERG 2002: 190 (tax., without locality), 192 (figs 647-654).

D i s t r i b u t i o n : Madagascar: without locality.

Genus *Profoenatopus* VAN ACHTERBERG, 2002

Description: VAN ACHTERBERG 2002: 191.

Typus generis: *Stephanus elliotti* CEBALLOS, 1926.

Distribution: Afrotropical region.

Valid species: 2.

***Profoenatopus elliotti* (CEBALLOS, 1926)**

Stephanus elliotti n.sp.: CEBALLOS 1926: 139 (descr. ♀, Madagascar), pl. 4 (fig. 1).

Stephanus elliotti CEBALLOS, 1926: CEBALLOS 1943: 162 (fig. 131a).

Stephanus elliotti CEBALLOS, 1926: BENOIT 1951: 270 (tax., desc. ♂, Madagascar).

Stephanus elliotti CEBALLOS, 1926: BENOIT 1957: 121 (Madagascar).

Stephanus elliotti CEBALLOS, 1926: BENOIT 1984: 217 (tax., desc. ♂, Madagascar).

Stephanus elliotti CEBALLOS, 1926: REY DEL CASTILLO & IZQUIERDO 1990: 262 (tax., Madagascar, cat. Museo Nacional de Ciencias Naturales de Madrid).

Profoenatopus (Profoenatopus) elliotti (CEBALLOS, 1926): VAN ACHTERBERG 2002: 48 (figs 296-304), 191 (tax., typ. gen.), 194 (figs 662-664).

Profoenatopus (Profoenatopus) elliotti (CEBALLOS, 1926): AGUIAR 2004: 73 (cat.).

Profoenatopus elliotti (CEBALLOS, 1926): VAN ACHTERBERG & QUICKE 2006: 217 key).

Distribution: Madagascar: Prov. Antananarivo: Anjozorobe – Prov. Toamasina: Andasibe (Perinet).

Endemic.

***Profoenatopus paulyi* VAN ACHTERBERG, 2002**

Profoenatopus (Profoenatopus) paulyi spec.nov.: VAN ACHTERBERG 2002: 195 (descr. ♀, Madagascar), 198 (figs 678-683).

Profoenatopus (Profoenatopus) paulyi VAN ACHTERBERG, 2002: AGUIAR 2004: 73 (cat.).

Profoenatopus (Profoenatopus) paulyi VAN ACHTERBERG, 2002: VAN ACHTERBERG & QUICKE 2006: 217 key).

Distribution: Madagascar: Prov. Toamasina: Mahavelona (Foulpointe).

Endemic.

Doubtful taxa

The species mentioned below were only figured by DE SAUSSURE (1890), but he has never described them. The type localities and repositories of the types are unknown. The species are not listed in DE DALLA TORRE (1901-1902) and KIEFFER (1908).

***Foenatopus phoberopus* (DE SAUSSURE, 1890)**

Megischus phoberopus n.sp.: DE SAUSSURE 1890: pl. 16 (figs 10, 10a, ♀).

Foenatopus phoberopus (DE SAUSSURE (!), 1890): AGUIAR 2004: 34 (tax., cat.).

Distribution: Unknown.

It is not possible to recognize the specific status.

***Profoenatopus oberthueri* (DE SAUSSURE, 1890)**

Megischus Oberthüri n.sp.: DE SAUSSURE 1890: pl. 16 (figs 9, 9a-c,p,t, ♀).

Stephanus oberthüri (!) (DE SAUSSURE, 1892): SCHULZ 1906: 102 (tax.).

Megischus oberthuri (!) DE SAUSSURE, 1890: AGUIAR 2004: 60 (tax., cat.).

Profoenatopus (Profoenatopus) oberthueri (DE SAUSSURE, 1890): VAN ACHTERBERG & QUICKE 2006: 217 (key), 219 (tax.).

D i s t r i b u t i o n : Unknown.

The specific status has been recognized by VAN ACHTERBERG & QUICKE (2006). Oberthür is a German surname.

Acknowledgements

I am greatly indebted to my colleagues Wolfgang Brunnbauer and Manuela Vizek (both Naturhistorisches Museum Wien, Austria) for their support in compilation of this catalogue.

Zusammenfassung

Die Familie Stephanidae ist in der Madegassischen Unterregion nur von Madagaskar mit 12 Arten nachgewiesen. Die Gattung *Foenatopus* SMITH, 1860 ist mit sechs Arten vertreten, die Gattung *Madegafoenus* BENOIT, 1951 mit einer Art, die Gattung *Megischus* BRULLÉ, 1846 mit drei Arten und die Gattung *Profoenatopus* VAN ACHTERBERG mit zwei Arten.

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Valid names are printed in bold, synonyms (including misspellings) in italics and identifications to genus level in normal letters.

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Author's address: Michael MADL
 2. Zoologische Abteilung
 Naturhistorisches Museum
 Burgring 7
 A-1010 Wien, Austria
 E-mail: michael.madl@nhm-wien.ac.at

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Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Linzer biologische Beiträge](#)

Jahr/Year: 2017

Band/Volume: [0049_1](#)

Autor(en)/Author(s): Madl Michael

Artikel/Article: [A catalogue of the family Stephanidae \(Stephanoidea\) of the Malagasy subregion \(Insecta: Hymenoptera\) 21-28](#)