



# *Entomofauna*

ZEITSCHRIFT FÜR ENTOMOLOGIE

---

Band 31, Heft 23: 365-372    ISSN 0250-4413    Ansfelden, 19. November 2010

---

## **A Catalogue of the Cephidae (Cephoidea), Orussidae (Orussoidea), Tenthredinidae (Tenthredinoidea) of the Malagasy Subregion (Hymenoptera, Symphyta)**

**Michael MADL**

### **Abstract**

In the Malagasy subregion three families of Symphyta (Cephidae, Orussidae, Tenthredinidae) are represented. Two species of each family are recorded only from Madagascar.

**Key words:** Cephidae, Orussidae, Tenthredinidae, Malagasy subregion, catalogue.

### **Zusammenfassung**

Die Symphyta oder Blattwespen sind in der Madagassis mit drei Familien vertreten: Cephidae, Orussidae und Tenthredinidae. Ihr Vorkommen ist auf Madagaskar beschränkt, wo jede Familie mit zwei Arten nachgewiesen ist.

## Introduction

The informal hymenopteran group Symphyta or saw flies comprises more than 8.000 species in all zoogeographical regions. In the Malagasy Subregion only three families restricted to Madagascar are represented: Cephidae, Orussidae and Tenthredinidae. Larvae of the family families Cephidae and Tenthredinidae are phytophagous and can cause economic damage. Members of the family Orussidae are rarely collected and unique in their biology. They are parasitoids of wood-boring larvae of Coleoptera and Hymenoptera.

### How to use the catalogue

The catalogue is organized alphabetically and not taxonomically. Printing errors are marked with (!).

### Abbreviations

biol. .... biology  
cat..... catalogue  
descr..... description  
distr. .... distribution  
fig. (figs) ..... figure (figures)  
pl. .... plate  
tab. .... table  
tax. .... taxonomy  
typ. gen. ....typus generis

### Acknowledgements

I am indebted to Wolfgang Brunnbauer and Manuela Vizek (both Naturhistorisches Museum Wien, Austria) for their support in preparing the catalogue.

## Annotated Catalogue

### Family C e p h i d a e

#### Subfamily A t h e t o c e p h i n a e

#### Genus *Athetocephus* BENSON 1935

Description: BENSON 1935: 541.

Typus generis: *Athetocephus madecassus* BENSON 1935.

Distribution: Malagasy Subregion.

Valid species: 2.

### ***Athetocephus maculatus* BENSON 1935**

*Athetocephus maculatus* n.sp.: BENSON 1935: 549 (descr. ♂, Madagascar).

*Athetocephus maculatus* BENSON 1935: KLIMA 1937: 48 (cat.).

*Athetocephus maculatus* BENSON 1935: BENSON 1946: 105 (cat.).

*Athetocephus maculatus* BENSON 1935: QUINLAN 1974: 231 (tax., Madagascar).

*Athetocephus maculatus* BENSON 1935: MUCHE 1981: 243 (key), 244 (tax., descr. ♂, Madagascar).

*Athetocephus maculatus* BENSON 1935: CHEVIN 1984: 305 (tax., descr. ♂ ♀, Madagascar), 306 (key).

*Athetocephus maculatus* BENSON 1935: MAGIS & PAULY 2001: 112 (biol., Madagascar).

**Distribution:** Madagascar: Prov. Toliara: Belanda, Fort-Dauphin, Ifaty.

Endemic.

### ***Athetocephus madecassus* BENSON 1935**

*Athetocephus madecassus* n.sp.: BENSON 1935: 538 (fig. 1), 541 (key), 542 (figs 5, 5a), 543 (fig. 8), 546 (fig. 16), 548 (typ. gen., descr. ♂ ♀, fig. 18, Madagascar).

*Athetocephus madecassus* BENSON 1935: KLIMA 1937: 48 (cat.).

*Athetocephus madecassus* BENSON 1935: BENSON 1946: 105 (cat.).

*Athetocephus madecassus* BENSON 1935: PAULIAN 1961: 201 (fig. 77).

*Athetocephus madecassus* BENSON 1935: QUINLAN 1974: 231 (tax., Madagascar).

*Athetocephus madecassus* BENSON 1935: MUCHE 1981: 243 (key, tax., descr. ♂ ♀, Madagascar).

*Athetocephus madecassus* BENSON 1935: CHEVIN 1984: 306 (key, tax., Madagascar).

*Athetocephus madecassus* BENSON 1935: ABE & SMITH 1991: 11 (cat., typ. gen.).

*Athetocephus madecassus* BENSON 1935: BASIBUYUK & QUICKE 1997: 1581 (Madagascar).

**Distribution:** Madagascar: Prov. Antsiranana: Vallée du Sambirano, Nosy Mitsio.

Endemic.

### **References**

- ABE M. & D.R. SMITH (1991): The Genus-group Names of Symphyta (Hymenoptera) and Their Type Species. – *Esakia* **31**: 115 pp.
- BASIBUYUK H.H. & D.L.L. QUICKE (1997): Hamuli in the Hymenoptera (Insecta) and their phylogenetic implications. – *Journal of Natural History* **31** (10): 1563-1585.
- BENSON R.B. (1935): On the Genera of the Cephidae, and the Erection of a new Family Syntexidae (Hymenoptera, Symphyta). – *Annals and Magazine of Natural History*, 10<sup>th</sup> series **16** (95): 535-553.
- BENSON R.B. (1946): Classification of the Cephidae. – *Transactions of the Royal Entomological Society of London* **96** (6): 89-108.
- CHEVIN H. (1984): Note sur les Hymenopteres Tenthredinoides (XI). – *Bulletin de la Societe Linneenne de Lyon* **53** (9): 303-309.
- KLIMA A. (1937): Cephidae – Syntexidae. – In: HEDICKE H. (ed.), *Hymenopterorum Catalogus* **2**: 53 pp.
- MAGIS N. & A. PAULY (2001): Captures récentes du Cephide *Athetocephalus maculatus* BENSON, 1935 (Hymenoptera, Symphyta). – *Notes Fauniques de Gembloux* **44**: 112.

- MUCHE W.H. (1981): Die Cephidae der Erde (Hym. Cephidae). – Deutsche Entomologische Zeitschrift, Neue Folge **28** (4-5): 239-295.
- PAULIAN R. (1961): La zoogéographie de Madagascar et des îles voisines. – Faune de Madagascar **13**: 484 pp.
- QUINLAN J. (1974): The nominal taxa described by R.B. BENSON and their types, with a bibliography of his works (Hymenoptera). – Bulletin of the British Museum (Natural History), Entomology **30** (4): 215-265.

## Family **O r u s s i d a e**

### Genus **Chalinus** KONOW 1897

Description: KONOW 1897: 605.

Typus generis: *Oryssus plumicornis* GUÉRIN-MÉNEVILLE 1848.

Distribution: Ethiopian and Palaearctic Region.

Valid species: 1.

### **Chalinus oberthueri** (de SAUSSURE 1890)

*Oryssus oberthueri* n.sp.: de SAUSSURE 1890: pl. 20 (figs 5, 5a-d, p, t ♀).

*Oryssus oberthueri* (de SAUSSURE 1892): SCHULZ 1906: 103 (tax.).

*Mocsarya oberthuri* (!) (de SAUSSURE 1890): BENSON 1935: 7 (tax.).

*Mocsarya oberthuri* (!) (de SAUSSURE 1890): BENSON 1936: 2 (cat.).

*Mocsarya oberthuri* (!) (de SAUSSURE 1890): BENSON 1938: 3 (cat.).

*Mocsarya oberthueri* (de SAUSSURE 1890): GUIGLIA 1945: 91 (tax., cat.).

*Oryssus oberthueri* de SAUSSURE 1892: PAULIAN 1961: 201 (cat.).

*Mocsarya oberthueri* (de SAUSSURE 1892): GUIGLIA 1965: 4 (cat.).

*Chalinus oberthueri* (de SAUSSURE 1890): VILHELMESEN 2001: 367 (cat.), 375 (tax.).

*Chalinus oberthueri* (de SAUSSURE 1890): VILHELMESEN 2007: 117 (tax.).

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

Endemic. Record is doubtful.

### Genus **Leptorussus** BENSON 1955

Description: BENSON 1955: 19.

Typus generis: *Leptorussus africanus* BENSON 1955.

Distribution: Ethiopian Region.

Valid species: 1.

### **Leptorussus madagascariensis** VILHELMESEN 2007

*Leptorussus madagascariensis* sp.n.: VILHELMESEN 2007: 117 (descr. ♀, Madagascar), 118 (figs A-F, tab. 1: tax.).

D i s t r i b u t i o n : Madagascar: Prov. Toliara: Beza Mahafaly Reserve.

Endemic.

## References

- BENSON R.B. (1935): On the genera of Orussidae. With an Account of the African Species (Hymenoptera Symphyta). – Occasional Papers of the Rhodesian Museum **4**: 1-10.
- BENSON R.B. (1936): A new species of *Moscarya* KONOW in Syria (Hymenoptera Symphyta). – Proceedings of the Royal Entomological Society of London, B, **5** (1): 2-3.
- BENSON R.B. (1938): On the Australian Orussidae, with a Key to the Genera of the World (Hymenoptera, Symphyta). – Annals and Magazine of Natural History, 11<sup>th</sup> series, **2** (7): 1-15.
- GUIGLIA D. (1945): Catalogo degli Orissidi di tutto il mondo. – Annali del Museo Civico di Storia Naturale Giacomo Doria **62**: 85-111.
- GUIGLIA D. (1965): Orussidae. – In: FERRIÈRE Ch. & J. van der VECHT (eds), Hymenopterorum Catalogus (nova editio) **1**: 18 pp.
- PAULIAN R. (1961): La zoogéographie de Madagascar et des îles voisines. – Faune de Madagascar **13**: 484 pp.
- SAUSSURE H. de (1890): Histoire Naturelle des Hyménoptères. – In: GRANDIDIER A.(ed.), Histoire physique, naturelle et politique de Madagascar Volume **XX**: I-XXI, 1-176, pls 1-20.
- SCHULZ W.A. (1906): Strandgut. – In: SCHULZ W.A., Spolia Hymenopterologica. – Paderborn (JUNFERNMANNsche Buchhandlung Albert PAPE): 76-269.
- VILHELMSSEN L. (2001): Systematic revision of the genera *Chalinus* KONOW, 1897 and *Moscarya* KONOW, 1897 (Hymenoptera: Orussidae). – Insect Systematics and Evolution **32** (4): 361-380.
- VILHELMSSEN L. (2007): The Phylogeny of Orussidae (Insecta: Hymenoptera) Revisited. – Arthropod Systematics and Phylogeny **65** (2): 111-118.

## Family Tenthredinidae

### Subfamily Allantinae

#### Genus *Athalia* LEACH 1817

Description: LEACH 1817: 126.

Typus generis: *Tenthredo spinarum* FABRICIUS 1793.

Distribution: Ethiopian, Oriental and Palaearctic Region.

Valid species: 1.

#### *Athalia malagassa* de SAUSSURE 1892

*Athalia malagassa* n.sp.: de SAUSSURE 1892: pl. 27 (figs 15, 15a, b Madagascar).

*Athalia malagassa* de SAUSSURE 1892: KONOW 1905: 94 (cat.).

*Athalia malagassa* de SAUSSURE 1892: SCHULZ 1906: 103 (tax.).

*Athalia malagassa* de SAUSSURE 1892: KONOW 1908: 164 (key), 166 (tax., descr. ♂ ♀, Madagascar).

*Athalia malagassa* de SAUSSURE 1892: ENDERLEIN 1919: 355 (Madagascar).

*Athalia malagassa* de SAUSSURE 1892: FORSIUS 1931: 6 (Madagascar).

*Athalia malagassa* de SAUSSURE 1892: PAULIAN 1950a: 351 (biol., Madagascar).

*Athalia malagassa* de SAUSSURE 1892: PAULIAN 1950b: 375 (tax., descr. ♂ ♀ larva, biol., Madagascar), 376 (fig. 19), 377 (figs 20a-e), 378 (figs 21a-e), 379 (figs 22a, b), 380 (figs 23a-h), 381 (fig. 24).

*Athalia malagassa* de SAUSSURE 1892: PAULIAN 1961: 201 (cat., Madagascar), 360 (tax.), 410.

*Athalia malagassa* de SAUSSURE 1890: BENSON 1962: 337 (tax., biol., Madagascar), 340 (cat., biol.), 346 (tax., cat.), 368 (key), 370 (cat.).

*Athalia malagassa* de SAUSSURE: RECKHAUS 1997: 139(tax., descr., biol., Madagascar), 153.9 (figs. 31a, b), 153.10 (fig. 32), 159 (biol.), 262 (biol.), 329 (biol.).

**D i s t r i b u t i o n :** Madagascar: Prov. Antananarivo: Ambodimanga, surroundings of Antananarivo – Prov. Toliara: Fort Dauphin.

Endemic.

## **Subfamily Selandriinae**

### **Genus *Dulophanes* KONOW 1907**

Description: KONOW 1907: 132.

Typus generis: *Dulophanes morio* KONOW 1907.

Distribution: Ethiopian Region.

Valid species: 1.

### ***Dulophanes atratus* (ENDERLEIN 1913)**

*Phanodules tenuis* PASTEELS 1949: PASTEELS 1950: 278 (Madagascar).

**D i s t r i b u t i o n :** Madagascar: Prov. Antananarivo: Antananarivo.

Known from the Ethiopian Region.

## **References**

BENSON R.B. (1962): A revision of the Athaliini (Hymenoptera: Tenthredinidae). – Bulletin of the British Museum (Natural History), Entomology, **11** (7): 335-382.

ENDERLEIN G. (1919): Symphytologica II. Zur Kenntnis der Tenthredininen. – Sitzungsberichte der Gesellschaft Naturforschender Freunde Berlin **1919** (9): 347-374.

FORSIUS R. (1931): Notes on a Collection of Ethiopian Oryssoida and Tenthredinoidea (Insecta: Hymenoptera). – Annals and Magazine of Natural History, 10<sup>th</sup> series, **8** (43): 1-36.

KONOW F.W. (1905): Hymenoptera. Fam. Tenthredinidae. – In: WYTSMAN A. (ed.), Genera Insectorum **29**: 176 pp.

KONOW W. (1908): Ueber die bisher bekannten *Athalia*-Arten Afrikas (Hym). – Zeitschrift für Systematische Hymenopterologie und Dipterologie **8** (3): 164-169.

PASTEELS J.J. (1950): Sur les Tenthredinoidea Africains du Muséum National d'Histoire Naturelle. – Revue Française d'Entomologie **17** (4): 271-280.

PAULIAN R. (1950a): Recherches sur les Insectes d'importance biologiques de Madagascar I: Les Chenilles du Chou à Madagascar. – Mémoires de l'Institut Scientifique de Madagascar, Série A, **3** (3): 347-352.

- PAULIAN R. (1950b): Recherches sur les Insectes d'importance biologique de Madagascar VII: *Athalia malagassa* SAUSS., la Tenthède Malgache de la rave (Hymenopt. Symph.). – Mémoires de l'Institut Scientifique de Madagascar, Série A, **3** (3): 375-382.
- PAULIAN R. (1961): La zoogéographie de Madagascar et des îles voisines. – Faune de Madagascar **13**: 484 pp.
- RECKHAUS P. (1997): Maladies et ravageurs des cultures maraichères. A l'exemple de Madagascar. – Weikersheim (MARGRAF): 402 pp.
- SAUSSURE H. de (1892): Histoire Naturelle des Hyménoptères. – In: GRANDIDIER A. (ed.), Histoire physique, naturelle et politique de Madagascar Volume **XX**: 177-590, pls 21-27.
- SCHULZ W.A. (1906): Strandgut. – In: SCHULZ W.A., Spolia Hymenopterologica. — Paderborn (Junfermannsche Buchhandlung Albert PAPE): 76-269.

### Notes on *Cibdela janthina* (KLUG 1834) (Argidae)

*Cibdela janthina* (KLUG 1834) was successfully introduced for biological control of *Rubus alceifolius* POIRET (Rosaceae) into Réunion in 2007 and 2008. The introduction causes a serious economic problem in the honey production. As the political discussion is still going on, *Cibdela janthina* is not included in the catalogue.

### Index

Valid species and genera are printed in bold and invalid names in normal letters.

#### Index to genera

<b>Athetocephus</b> BENSON.....	366
<b>Chalinus</b> KONOW .....	368
<b>Leptorussus</b> BENSON .....	368
<b>Athalia</b> LEACH .....	369
<b>Dulophanes</b> KONOW .....	370

#### Index to species

<b>atratus</b> ENDERLEIN, Dulophanes.....	370
<b>maculatus</b> BENSON, Athetocephus.....	367
<b>madecassus</b> BENSON, Athetocephus .....	367
<b>oberthueri</b> de SAUSSURE, Chalinus.....	368
<b>madagascariensis</b> VILHELMSSEN, Leptorussus .....	368
<b>malagassa</b> de SAUSSURE, Athalia.....	369
tenuis PASTEELS, Phanodules.....	370
oberthuri de SAUSSURE, Mocsarya.....	368
oberthüri de SAUSSURE, Mocsarya.....	368
oberthüri de SAUSSURE, Oryssus .....	368

Author's address:

Michael MADL  
Internationales Institut für Entomologie  
Naturhistorisches Museum  
Burgring 7  
A-1010 Wien, Austria  
E-mail: [michael.madl@nhm-wien.ac.at](mailto:michael.madl@nhm-wien.ac.at)

---

Druck, Eigentümer, Herausgeber, Verleger und für den Inhalt verantwortlich:

Maximilian SCHWARZ, Konsulent f. Wissenschaft der Oberösterreichischen Landesregierung, Eibenweg 6, A-4052 Ansfelden, E-Mail: [maximilian.schwarz@liwest.at](mailto:maximilian.schwarz@liwest.at).

Redaktion: Erich DILLER, ZSM, Münchhausenstraße 21, D-81247 München;  
Roland GERSTMEIER, Lehrstuhl f. Tierökologie, H.-C.-v.-Carlowitz-Pl. 2, D-85350 Freising  
Fritz GUSENLEITNER, Lungitzerstr. 51, A-4222 St. Georgen/Gusen;  
Wolfgang SCHACHT, Scherrerstraße 8, D-82296 Schöngesing;  
Wolfgang SPEIDEL, MWM, Tengstraße 33, D-80796 München;  
Thomas WITT, Tengstraße 33, D-80796 München.

Adresse: Entomofauna, Redaktion und Schriftentausch c/o Museum Witt, Tengstr. 33, 80796 München, Deutschland, E-Mail: [thomas@witt-thomas.com](mailto:thomas@witt-thomas.com); Entomofauna, Redaktion c/o Fritz Gusenleitner, Lungitzerstr. 51, 4222 St. Georgen/Gusen, Austria, E-Mail: [f.gusenleitner@landesmuseum.at](mailto:f.gusenleitner@landesmuseum.at)



# ZOBODAT - [www.zobodat.at](http://www.zobodat.at)

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Entomofauna](#)

Jahr/Year: 2010

Band/Volume: [0031](#)

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

Artikel/Article: [A Catalogue of the Cephidae \(Cephoidea\), Orussidae \(Orussoidea\), Tenthredinidae \(Tenthredinoidea\) of the Malagasy Subregion \(Hymenoptera, Symphyta\) 365-372](#)