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A catalogue of the Bethylidae (Hymenoptera, Chrysidoidea) of Eritrea

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A b s t r a c t : In Eritrea the family Bethylidae is represented by six species of the subfamilies Epyrinae and Pristocerinae. Five species of Epyrinae representing the genera *Epyris* WESTWOOD, 1832 (two species), *Holepyris* KIEFFER, 1905 (one species), and *Trachepyrus* KIEFFER, 1905 (two species) and one species of the genus *Pristocera* KLUG, 1808 (Pristocerinae) are catalogued.

K e y w o r d s : Epyrinae, *Epyris*, *Holepyris*, *Rhabdepyris*, *Trachepyrus*, Pristocerinae, *Pristocera*

Introduction

In the Afrotropical Region the family Bethylidae is represented by five subfamilies. Bethylids are known as parasitoids of Coleoptera and Lepidoptera. As the hosts can be of economic importance, some species are used in biological control.

In Eritrea the family Bethylidae is represented by the subfamilies Epyrinae and Pristocerinae, of which only six species are known. The Epyrinae are represented by the genera *Epyris* WESTWOOD, 1832 (one species), *Holepyris* KIEFFER, 1905 (one species), *Rhabdepyris* KIEFFER, 1904 (one species) and *Trachepyrus* KIEFFER, 1905 (two species). The Pristocerinae is represented only by the genus *Pristocera* KLUG, 1808 (one species). There are no host records from Eritrea.

Abbreviations

ann.....annexe
 cat.....catalogue
 descr.....description
 fig. (figs)figure(s)
 typ. gen.....typus generis
 syn.....synonym
 tax.taxonomy

Annotated catalogue

Subfamily Epyrinae

***Epyris geniculatus* KIEFFER, 1904**

Epyris geniculatus n.sp.: KIEFFER 1904: 396 (key), 406 (descr. ♂, Keren).

Epyris geniculatus KIEFFER, 1904: KIEFFER 1908: 28 (world cat.).

Epyris geniculatus KIEFFER, 1904: KIEFFER 1910: 101 (cat. Equatorial Africa).

Epyris geniculatus KIEFFER, 1904: KIEFFER 1914: 311 (key), 332 (tax., descr. ♂, Keren), 333 (fig. 141).

Epyris geniculatus KIEFFER, 1904: GORDH 1990: 94 (world cat.).

Epyris geniculatus KIEFFER, 1904: AZEVEDO, ALENCAR & BARBOSA 2010: 410 (ann. 1: cat. Arabian Peninsula and surrounding countries).

Epyris geniculatus KIEFFER, 1904: AZEVEDO et al. 2018: 160 (world cat.).

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

Epyris geniculatus is recorded also from the Democratic Republic of Congo.

***Epyris laticeps* KIEFFER, 1913**

Rhabdepyris laticeps n.sp.: KIEFFER 1913: 106 (descr. ♂, Eritrea without locality).

Rhabdepyris (Rhabdepyris) laticeps KIEFFER, 1913: KIEFFER 1914: 348 (key), 354 (tax., descr. ♂, Eritrea without locality).

Rhabdepyris laticeps KIEFFER, 1913: GORDH 1990: 148 (world cat.).

Rhabdepyris laticeps KIEFFER, 1913: AZEVEDO, ALENCAR & BARBOSA 2010: 411 (ann. 1: cat. Arabian Peninsula and surrounding countries).

Epyris laticeps KIEFFER, 1913: AZEVEDO et al. 2018: 163 (tax., world cat.).

D i s t r i b u t i o n : no exact locality.

Epyris laticeps is recorded also from the Democratic Republic of Congo.

***Holepyris africanus* KIEFFER, 1904**

Holepyris africanus n.sp.: KIEFFER 1904: 390 (key), 391 (descr. ♂, Keren).

Holepyris (Holepyris) africanus KIEFFER, 1904: KIEFFER 1908: 29 (tax., typ. gen., world cat.).

Holepyris africanus KIEFFER, 1904: KIEFFER 1910: 101 (cat. Equatorial Africa).

Holepyris africanus KIEFFER, 1904: KIEFFER 1914: 371 (typ. gen.), 372 (key), 386 (tax., descr. ♂, Keren).

Holepyris africanus KIEFFER, 1904: GORDH 1990: 111 (world cat.).

Holepyris africanus KIEFFER, 1904: AZEVEDO, ALENCAR & BARBOSA 2010: 410 (ann. 1: cat. Arabian Peninsula and surrounding countries).

Holepyris africanus KIEFFER, 1904: AZEVEDO et al. 2018: 170 (world cat.).

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

Holepyris africanus is known only from Eritrea.

***Trachepyris appendiculatus* KIEFFER, 1913**

Planepyris appendiculatus n.sp.: KIEFFER 1913: 105 (descr. ♂, Eritrea without locality).

Planepyris appendiculatus KIEFFER, 1913: KIEFFER 1914: 369 (tax., descr. ♂, Eritrea without locality).

Planepyris appendiculatus KIEFFER, 1913: GORDH 1990: 137 (world cat.).

Trachepyris appendiculatus KIEFFER, 1913: ALENCAR & AZEVEDO 2009: 1 (tax., descr. ♂, Massawa), 5 (figs 1-5), 8 (figs 6-11).

Planepyrus apendiculatus (!) KIEFFER, 1913: AZEVEDO, ALENCAR & BARBOSA 2010: 411 (ann. 1: cat. Arabian Peninsula and surrounding countries).

Trachepyrus apendiculatus KIEFFER, 1913: AZEVEDO et al. 2018: 180 (world cat.).

**Planepyrus* sp. KIEFFER 1905 (In: KIEFFER & MARSHALL): 249 (footnote 2: Eritrea without locality).

Planepyrus sp.: KIEFFER 1910: 101 (Eritrea without locality, cat. Equatorial Africa).

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

Trachepyrus apendiculatus is known only from Eritrea.

***Trachepyrus spiniscapus* (KIEFFER, 1904)**

Epyris spiniscapus n.sp.: KIEFFER 1904: 395 (key), 400 (descr. ♂, Keren).

Epyris spiniscapus KIEFFER, 1904: KIEFFER 1908: 28 (world cat.).

Epyris spiniscapus KIEFFER, 1904: KIEFFER 1910: 101 (cat. Equatorial Africa).

Acanthepyrus spiniscapus (KIEFFER, 1904): KIEFFER 1914: 402 (key), 403 (tax. descr. ♂, Keren), 404 (figs 147, 148).

Acanthepyrus spiniscapus (KIEFFER, 1904): TURNER 1928: 135 (tax.).

Trachepyrus spiniscapus (KIEFFER, 1904): GORDH 1990: 169 (world cat.).

Trachepyrus spiniscapus (KIEFFER, 1904): AZEVEDO, ALENCAR & BARBOSA 2010: 411 (ann. 1: cat. Arabian Peninsula and surrounding countries).

Trachepyrus spiniscapus (KIEFFER, 1904): AZEVEDO et al. 2018: 180 (world cat.).

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

Trachepyrus spiniscapus is known only from Eritrea.

Subfamily P r i s t o c e r i n a e

***Pristocera rufiventer* (KIEFFER, 1913)**

Neurepyris rufiventer n.sp.: KIEFFER 1913: 107 (descr. ♂, Eritrea without locality).

Neurepyris rufiventer KIEFFER, 1913: KIEFFER 1914a: 370 (typ. gen., key, tax, descr. ♂, Eritrea without locality).

Neurepyris rufiventer KIEFFER, 1913: GORDH 1990: 135 (world cat.).

Neurepyris rufiventer KIEFFER 1913: AZEVEDO, ALENCAR & BARBOSA 2010: 411 (ann. 1: cat. Arabian Peninsula and surrounding countries).

Pristocera rufiventer (KIEFFER., 1913): ALENCAR & AZEVEDO 2011: 2 (tax., descr. ♀, Eritrea without locality), 3 (figs 1A-F), 4 (fig. 2), 5 (figs 3A-D).

Pristocera rufiventer (KIEFFER., 1913): AZEVEDO et al. 2018: 110 (world cat.).

**Neurepyris* sp.: KIEFFER 1905 (In: KIEFFER & MARSHALL): 251 (footnote 1: Eritrea without locality).

Neurepyris sp.: KIEFFER 1910: 101 (Eritrea without locality, cat. Equatorial Africa).

D i s t r i b u t i o n : no exact locality.

Pristocera rufiventer is known only from Eritrea.

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Zusammenfassung

Die Familie Bethyridae ist in Eritrea mit sechs Arten der Unterfamilien Epyrinae und Pristocerinae vertreten. Die Epyrinae sind mit fünf Arten der Gattungen *Epyris* WESTWOOD, 1832 (zwei Arten), *Holepyris* KIEFFER, 1905 (eine Art) und *Trachepyrus* KIEFFER, 1905 (zwei Arten) nachgewiesen und die Pristocerinae mit einer Art der Gattung *Pristocera* KLUG, 1808.

References

- ALENCAR I.D.C.C. & C.O. AZEVEDO (2009): Rediscovery of *Planepyrus* KIEFFER: a new synonym of *Trachepyrus* KIEFFER (Hymenoptera, Bethyridae). — *Doriana* **8**/364: 1-11.
- ALENCAR I.D.C.C. & C.O. AZEVEDO (2011): Review of *Neurepyris* KIEFFER, 1905 (Hymenoptera, Bethyridae), a new synonym of *Pristocera* KLUG, 1808. — *European Journal of Taxonomy* **4**: 1-12.
- AZEVEDO C., ALENCAR I.D.C.C. & D.N. BARBOSA (2010): Order Hymenoptera, family Bethyridae. — *Arthropod Fauna of the United Arab Emirates* **3**: 388-411.
- AZEVEDO C., ALENCAR I.D.C.C., RAMOS M.S., BARBOSA D.N., COLOMBO W.D., VARGAS J.M.R. & J. LIM (2018): Global guide of the flat wasps (Hymenoptera, Bethyridae). — *Zootaxa* **4489**/1: 294 pp.
- GORDH G. (1990): A Catalog of the world Bethyridae (Hymenoptera: Aculeata). With a treatment of the Mesitiinae by László MÓCZÁR. — *Memoirs of the American Entomological Institute* **46**: VII+364 pp.
- KIEFFER J.J. (1904): Descriptions de nouveaux Dryininae et Bethylinae du Musée de Gènes. — *Annali del Museo Civico di Storia Naturale di Genova* **41**: 351-412.
- KIEFFER J.J. (1908): Hymenoptera Fam. Bethyridae. — In: WYTSMAN P. (ed.), *Genera Insectorum* **76**: 50 pp., 3 pls.
- KIEFFER J.J. (1910): Serphidae, Cynipidae, Chalcididae, Evaniidae und Stephanidae aus Äquatorialafrika. — In: *Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907-08 unter Führung Adolf Friedrichs, Herzogs zu Mecklenburg*. Band 3, *Zoologie* **1/2**: 91-119.
- KIEFFER J.J. (1913): Microhyménoptères de l'Afrique équatoriale. — *Bollettino del Laboratorio di Zoologia Generale e Agraria della R. Scuola Superiore d'Agricoltura di Portici* **7**: 105-112.
- KIEFFER J.J. (1914): Hymenoptera Proctotrupeidea Bethyridae. — In: SCHULZE F.E. (ed.), *Das Tierreich* **41**: XXV+595 pp.
- KIEFFER J.J. & T.A. MARSHALL (1904-1906): Proctotrypidae. — In: ANDRÉ Ed. & E. ANDRÉ (eds), *Species des Hyménoptères d'Europe & Algérie* Tome **9**: 1-64 (0.01.1904); 65-144 (01.04.1905); 145-288 (01.11.1905); 289-368 (31.01.1906); 369 till end (01.10.1906).

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