

Linzer biol. Beitr.	50/1	655-659	27.7.2018
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A catalogue of the family Andrenidae (Hymenoptera: Apoidea) of Eritrea

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A b s t r a c t : In Eritrea the family Andrenidae is represented by two species of the genus *Andrena* FABRICIUS, 1775 (subfamily Andreninae) and one species each of the genera *Borgatomelissa* PATINY, 2000 and *Meliturgula* FRIESE, 1903 (both subfamily Panurginae). The record of the genus *Andrena* is doubtful.

K e y w o r d s : Andrenidae, Andreninae, *Andrena*, Panurginae, *Borgatomelissa*, *Meliturgula*, Eritrea.

Introduction

In the Afrotropical region the family Andrenidae is represented by more than 30 species (EARLEY & URBAN 2010).

The Eritrean fauna of the family Andrenidae is poorly known. The knowledge is based on the material collected by J.K. Lord in 1869 and by P. Magretti in 1900. No further material is known. Up to date two species each of the subfamilies Andreninae (genus *Andrena* FABRICIUS, 1775) and Panurginae (genera *Borgatomelissa* PATINY, 2000 and *Meliturgula* FRIESE, 1903) have been recorded from Eritrea.

Abbreviations

Afr. reg.....	Afrotropical region
biogeogr.	biogeography
biol.	biology
cat.....	catalogue
descr.....	description
fig. (figs)	figure (figures)
syn.....	synonym
tab.	table
tax.	taxonomy
typ. gen.....	typus generis

Annotated Catalogue

Subfamily A n d r e n i n a e

The records of *Andrena disparilis* WALKER, 1871 and *Andrena munda* WALKER, 1871 from Eritrea by INNES BEY (1911), who listed the remains of the Hymenoptera of the Lord-Collection in Cairo, are doubtful, because WALKER (1871), who studied the original material, described both species from Egypt (Cairo).

***Andrena arsinoe* SCHMIEDEKNECHT, 1900**

Andrena (Graecandrena) arsinoe SCHMIEDEKNECHT, 1900: GUSENLEITNER & SCHWARZ 2002: 97 (tax., descr. ♂ ♀, world cat. *Andrena*), 473 (map 34).

**Andrena disparilis* WALKER, 1871: INNES BEY 1911: 105 (Massawa, cat. Lord Collection).

Distribution: Massawa.

The record from Eritrea is not mentioned in GUSENLEITNER & SCHWARZ (2002) and EARDLEY & URBAN (2010).

***Andrena savignyi* SPINOLA, 1838**

Andrena savignyi SPINOLA, 1838: DYLEWSKA 1983: 17-8 (key ♀), 18 (key ♂), 20 (fig. 6), 25 (tax., descr. ♂ ♀, Eritrea not mentioned).

Andrena (Suandrena) savignyi SPINOLA, 1838: GUSENLEITNER & SCHWARZ 2002: 663 (tax., descr. ♂ ♀), 1165 (map 418).

**Andrena munda* WALKER, 1871: INNES BEY 1911: 105 (Massawa).

Andrena munda WALKER, 1871: DYLEWSKA 1983: 25 (? syn.).

Andrena munda WALKER, 1871: GUSENLEITNER & SCHWARZ 2002: 663 (? syn.).

Distribution: Massawa.

The record from Eritrea is not mentioned in GUSENLEITNER & SCHWARZ (2002) and EARDLEY & URBAN (2010).

Subfamily P a n u r g i n a e

***Borgatomelissa brevipennis* (WALKER, 1871)**

Andrena brevipennis n.sp.: WALKER 1871: 46 (descr. ♀, Harkeko).

Anthrena (!) *brevipennis* WALKER, 1871: DE DALLA TORRE 1896: 107 (world cat. (Djibouti, Eritrea, not Egypt)).

Andrena brevipennis WALKER, 1871: INNES BEY 1911: 105 (without locality, cat. Lord Collection).

Andrena brevipennis WALKER, 1871: DYLEWSKA 1983: 25 (? syn. of *Andrena savignyi* SPINOLA, 1838).

Meliturgula brevipennis (WALKER, 1871): PATINY 1999a: 28 (tax.).

Meliturgula brevipennis (WALKER, 1871): PATINY 1999b: 263 (tax., footnote 3: tax.), 265 (tax.).

Meliturgula brevipennis (WALKER, 1871): PATINY 2000a: 69 (tax., biogeogr.), footnote 3: tax.).

Meliturgula brevipennis (WALKER, 1871): PATINY & GASPAR 2000: 3 (tax.), 4 (footnotes 2, 3: tax.), 5 (tab. 1: tax.), 6 (tax., Harkeko (WALKER (1871), Eritrea, not Ethiopia)), 18 (map 1), 19 (map 2), 21 (map 6), 27 (tax., biogeogr.), 30 (biogeogr.), 32 (tax.), 35 (biogeogr.), 36 (tax., biogeogr.), 40 (biogeogr.), 41 (biogeogr.).

Borgatomelissa brevipennis (WALKER, 1871): PATINY 2000b: 101 (tax., typ. gen., descr. ♂ ♀, without locality (= Harkeko)), 104 (map 1).

Meliturgula brevipennis (WALKER, 1871): MICHENER 2000: 279 (tax.).

Meliturgula brevipennis (WALKER, 1871): GUSENLEITNER & SCHWARZ 2002: 846 (tax., world cat. (Eritrea, not Egypt)).

Borgatomelissa brevipennis (WALKER, 1871): PATINY 2004b: 905 (biogeogr.).

Borgatomelissa brevipennis (WALKER, 1871): GUSENLEITNER et al. 2005: 460 (tax.).

Borgatomelissa brevipennis (WALKER, 1871): PATINY & MICHEZ 2007: 26 (tab. 1: cat. biogeogr.), 29 (biogeogr., fig. 9: map), 31 (biogeogr.).

Borgatomelissa brevipennis (WALKER, 1871): EARDLEY, KUHLMANN & PAULY 2010: 28 (fig. 11C).

Distribution: Harkeko.

Borgatomelissa brevipennis is known from the Afrotropical (Djibouti, Eritrea, Mauritania, Niger) and Palaearctic region. This species is not mentioned in EARDLEY & URBAN (2010).

***Meliturgula scriptifrons* (WALKER, 1871)**

Nomia scriptifrons sp.n.: WALKER 1871: 44 (descr. ♀, Massawa).

Nomia scriptifrons WALKER, 1871: DE DALLA TORRE 1896: 169 (world cat. (Eritrea, not Egypt)).

Osmia scriptifrons (WALKER, 1871): INNES BEY 1911: 105 (Massawa, cat. Lord Collection).

Meliturgula (Meliturgula) scriptifrons (WALKER, 1871): PATINY 1999a: 28 (tax.).

Meliturgula (Meliturgula) scriptifrons (WALKER, 1871): PATINY 1999c: 248 (tax.).

Meliturgula (Meliturgula) scriptifrons (WALKER, 1871): PATINY 2000a: 63 (biogeogr.), 64 (tax., descr. ♂ ♀, Massawa).

Meliturgula (Meliturgula) scriptifrons (WALKER, 1871): PATINY & GASPAR 2000: 16 (tax. Massawa), 25 (map 14), 32 (footnote 11: tax.), 33-34 (tax., biogeogr., footnote 12: tax.), 39 (biogeogr.), 41 (biogeogr.), 68 (tax.).

Meliturgula (Meliturgula) scriptifrons (WALKER, 1871): PATINY 2000c: 303 (tab. 1: world cat.).

Meliturgula scriptifrons (WALKER, 1871): MICHENER 2000: 279 (tax.).

Meliturgula (Meliturgula) scriptifrons (WALKER, 1871): PATINY 2004a: 2 (tab. 1: cat. Afr. reg.), 7-8 (key ♀), 9 (key ♂), 10 (map 1).

Meliturgula (Meliturgula) scriptifrons (WALKER, 1871): PATINY 2004b: 902 (tab. 1: cat. Afr. reg.), 904 (map 3), 905-6 (biogeogr.).

Meliturgula (Meliturgula) scriptifrons (WALKER, 1871): PATINY & MICHEZ 2007: 24 (fig. 4a: map), 25 (biogeogr., map 5).

Meliturgula scriptifrons (WALKER, 1871): EARDLEY, KUHLMANN & PAULY 2010: 27 (biogeogr.), 28 (figs 11G, H).

Meliturgula scriptifrons (WALKER, 1871): EARDLEY & URBAN 2010: 41 (cat. Afr. reg.).

**Meliturga (!) minima* FRIESE, 1912: MAGRETTI 1906: 10 (Sabarguma).

Distribution: Massawa, Sabarguma.

Meliturgula scriptifrons is known from the Afrotropical (e.g. Ethiopia and Sudan) and Palaearctic (Saudi Arabia) regions.

Acknowledgements

I am greatly indebted to Fritz Guselein (Biologiezentrum des Oberösterreichischen Landesmuseums in Linz (Austria)) and Maximilian Schwarz (Ansfelden, Austria), who kindly sent copies of papers. I also thank Manuela Vizek (Naturhistorisches Museum Wien, Austria) for her support in compiling the catalogue.

Zusammenfassung

Die Familie Andrenidae ist in Eritrea mit zwei Arten der Gattung *Andrena* FABRICIUS, 1775 (Unterfamilie Andreninae) vertreten und je einer Arten der Gattungen *Borgatomelissa* PATINY, 2000 und *Meliturgula* FRIESE, 1903 (beide Unterfamilie Panurginae). Das Vorkommen der Gattung *Andrena* ist zweifelhaft.

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

Jahr/Year: 2018

Band/Volume: [0050_1](#)

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

Artikel/Article: [A catalogue of the family Andrenidae \(Hymenoptera: Apoidea\) of Eritrea 655-659](#)