



189

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Taxonomy and distribution of West Palaearctic Anthomyzidae (Diptera), with special regard to the Mediterranean and Macaronesian faunas

ABSTRACT

Seventeen species of Anthomyzidae from the western Palearctic area are treated with new records, taxonomic, distributional and biological notes. *Anthomyza baezi* sp.n. (endemic to Madeira) is described and its relationships are discussed. Description of *Amygdalops rufior* Roháček & Freidberg, 1993, *Anthomyza anderssoni* Roháček, 1984 (new female) and *Cercagnota collini* (Czeray, 1928) are supplemented and the species are newly diagnosed. The composition of Mediterranean and Macaronesian faunas of Anthomyzidae is analyzed and the zoogeography of species autochthonous in these subregions is discussed.

INTRODUCTION

The preparation of the present paper was stimulated by a number of new taxonomic and distributional data on the W. Palaearctic Anthomyzidae obtained during past the five years, which could not be incorporated in the author's most recent study (Roháček 1998a). Therefore, supplementary information is presented here dealing with taxonomy, distribution and biology of the majority of genera and species occurring in the area under study, with the exception of *Paranthomyza nitida* (Meigen, 1838), *Anthomyza albimana* (Meigen, 1830) and an unnamed species from Great Britain which have been found to be related and will be dealt with in a subsequent revisionary paper.

The recent publication of a number of regional check lists (Belgium - De Bruyn 1991; Italy - Papp 1995; Czech Republic and Slovakia - Roháček 1997; Great Britain and Ireland - Roháček 1998b; Germany -

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Amygdalops thomasseti Lamb, 1914

Material examined:

Spain: Canary Is.: Tenerife, Las Aguas. 2 ♀ 25.10.1985; Tenerife, Santa Ursula, 1 ♀ 21.6.1981; Gran Canaria, **Arguineguin**, 1 ♀ 22.9.1993, all M. Báez leg. (ULT). Italy: W. Calabria: Santa Maria del Cedro, 4 km NW, near coast, 2 ♀ 5.6.1997, 1 ♂ 2 ♀ 8.6.1997. 3 ♀ 12.6.1997, sweeping over boggy meadow; Santa Maria del Cedro, 3 km NW, Abatemarco river, 2 ♀ 4.6.1997, riverside vegetation, all J. Roháček leg. (SMO, MRT, some with genit. prep.). Malta: Chadwick Lakes, 1 ♂ 2 ♀ 8.9.1992; Buskett, 1 ♀ 5.7.1992, woods and freshwater; Babria, 1 ♂ 21.6.1992, 3 ♂ 12.6.1994, freshwater course, all M. J. Ebejer leg. (MEB, 2 ♂ SMO). Egypt: Cairo, Goio Island, along Nile river (29.58 N, 31.15 E), 1 ♀ 21.3.1996, yellow pan traps; Cairo, El-Marg (30.16 N, 31.23 E), 1 ♀ 22.3.1996, orange orchard, both M. Barták leg. (MBP); Giro. 1 ♂ 28.-29.3.1978; Axiandria, 1 ♂ 2 ♀ 8.-9.3.1978, 3 ♂ 1 ♀ 31.3.-2.4.1978, all G. Bächli leg. (GBZ, 1 ♀ SMO, some with genit. prep.). Israel: Hula, 3 ♂ 7 ♀ 1.7.1993; Qaiya, 2 ♂ 1 ♀ 22.11.1995, all A. Freidberg leg. (TAU).

Discussion: The species is more variable in coloration than formerly described (Roháček & Freidberg 1993). Particularly, some of the females listed above from Egypt were unusually pale, with lightly spotted T3-T6, for example T6 with large pale lateral spots, only medially dark, thus rather resembling that of *A. rufior*; also its thorax was paler, somewhat intermediate between that of typical *A. thomasseti* and that of *A. rufior*. However, their head (with dark medial band, extended from ocellar triangle to postlinal suture) and postabdominal structures clearly confirmed that they belong to *A. thomasseti*.

Biology: New collecting data confirmed that the species is associated with marshy habitats, particularly those with growths of *Phragmites australis*, *Arundo donax* and *Scirpus maritimus* along freshwater streams and canals. Adults were recorded from March to December (including data by Roháček & Freidberg 1993).

Distribution: The species seems to be widespread in the Afrotropical Region (mostly unpublished records) and in southern Palaearctic areas (see Roháček & Freidberg 1993; Roháček 1998a): Canary Is., Spain, Greece, Egypt, Israel, Oman, Seychelles. However, the precise localities from Canary Is. and Egypt are listed here for the first time, together with first records from Malta and Italy (the above records from Calabria represent the new northernmost limit of the species) and additional localities from Israel.

Anagnota bicolor (Meigen, 1838)

Material examined:

Italy: W. Calabria: Santa Maria del Cedro. 4 km NW, near coast. 1 ♀ 8.6.1997, sweeping over boggy meadow. J. Roháček leg. (SMO, genit. prep.). Switzerland: CH: Limpach-Tal bei Solothurn, Fensterfalle, 1 ♀ 30.7.1987, Stöckli & Duelli leg. (BMZ).

Distribution: The species is only known from western Palaearctic: Great Britain, The Netherlands, Germany, Italy, Czech Republic, Slovakia, Hungary, Poland, Sweden (Roháček 1998a). New to Switzerland the above record from southern Italy (Calabria) is important in as much as it represents a new southernmost occurrence of the species. The only other known Italian finding (Roháček & Freidberg 1993) from S. Benedetto lies more than 3" more northerly.

Anagnota coccinea Roháček & Freidberg, 1993

Material examined:

Israel: Akko, 1 ♂ 25.10.1994, swamp, A. Freidberg leg. (TAU).

Distribution: Only known from Israel (Roháček & Freidberg 1993). An additional locality (and phenological record) of this rare species.

Anthomyza anderssoni Roháček, 1984

(Figs 4-9)

Anthomyza anderssoni Roháček, 1984a: 388.

Material examined:

Italy: W. Calabria: Santa Maria del Cedro, 3 km W. near coast, 1 ♂ 3 ♀ 6.6.1997, 1 ♂ 10.6.1997, sweeping over boggy meadow, J. Roháček leg. (SMO, MRT). Greece: Corfu, Halikiopoulou, 7 ♂ 1 ♀ 30.4.1980, marsh, I. F. G. McLean leg.; Corfu, Tzavrou, 1 ♂ 1 ♀ 5.5.1972, A. E. Stubbs leg. (BMNH). Bulgaria: Kiten (42.14N, 27.48 E), 1 ♂ 17.7.1987, salty meadow; Irakli (42.47N, 27.54 E), 1 ♀ 16.7.1987, damp meadow, both M. Barták leg. (MBP). Czech Republic: Bohemia: Cerhonice (distr. Písek), Nový rybník (pond), 2 ♂ 3 ♀, sweeping over *Typha* growth, J. Roháček leg. (SMO); S. Moravia: Nové Mlýny, Křivé jezero reserve (distr. Břeclav), 3 ♂ 4 ♀ 26.5.1997, sweeping over boggy meadow, J. Roháček leg. (SMO). Slovak Republic: E. Slovakia: Zboj env. (distr. Humenné), 15 ♂ 8 ♀ 15.6.1996, sweeping over *Typha* growth, J. Roháček leg. (SMO, MRT). Sweden: Sk. Daiby (loc. 211), 3 ♂ 22.6.1989, same locality, 1 ♂ 1 ♀ 7.5.1990, ex *Typha*, H. Andersson leg. (MZL) most of specimens with genit. prep.