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The present situation of the Vespidae-fauna (Hymenoptera, Aculeata) of Turkey

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A b s t r a c t : This study is based upon material of family Vespidae collected from different localities of Turkey between 2007 and 2008, and the other related studies on the Vespidae in Turkey were reviewed. Including the new taxa determined in this study a total of 301 species and subspecies from 52 genera were recorded from Turkey up to now. *Paragymnomerus spiricornis* (SPINOLA 1808) and *Eumenes modestus* GUSENLEITNER 2006 are new records for Turkish fauna. In addition, new localities have been found for some species and subspecies which have already been reported in Turkey

K e y w o r d s : Hymenoptera, Vespidae, fauna, new records, Turkey.

Introduction

Total 298 species and subspecies belonging to 52 genera of Vespidae were recorded from Turkey (YILDIRIM & GUSENLEITNER 2007). *Hemipterochilus bicoloricornis* (GIORDANI SOIKA 1952) recorded from Antalya (Payalar, Konaklı) (DVORAK & CASTRO 2007). A total 299 species and subspecies belonging to 52 genera belonging to four subfamilies Vespinae, Polistinae, Eumeninae and Masarinae of Vespidae were recorded in Turkey. Separately, the type localities of two genera, 70 species and 17 subspecies from Vespidae are situated in Turkey (YILDIRIM 2008).

In this study, the present situation of Vespidae species and subspecies of Turkey were evaluated. Including the new taxa determined in this study a total of 301 species and subspecies belonged to 52 genera from family Vespidae were recorded from Turkey up to now.

The material of the Vespidae was collected from different localities of Turkey in 2007-2008. Provinces of the collected specimens are given in alphabetical order in the following list. The material is deposited in the Entomology Museum, Erzurum, Turkey (EMET).

Results

Subfamily Vespiniae

Vespa orientalis LINNÉ 1771

M a t e r i a l e x a m i n e d : Adana: Ceyhan, Botaş, 13.VII.2007, 3♂♂; Antalya: 15.VIII.2008, 3♂♂.

Vespula (Paravespula) germanica (FABRICIUS 1793)

M a t e r i a l e x a m i n e d : Adana: Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, 2♀♀; Aksaray: 15.VII.2008, 2♀♀; Erzurum: Oltu, Sarisaz, 1400 m, 25.V.2007, 9♀♀; 20.VI.2007, 3♀♀; 25.VII.2007, 2♀♀.

Dolichovespula sylvestris (SCOPOLI 1763)

M a t e r i a l e x a m i n e d : Adana: Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, 8♀♀; Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, 3♂♂.

Subfamily Polistinae

Polistes atrimandibularis ZIMMERMANN 1930

M a t e r i a l e x a m i n e d : Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♂.

Polistes biglumis alpium BLÜTHGEN 1957

M a t e r i a l e x a m i n e d : Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, 3♂♂, 6♀♀; Erzurum: Oltu, Sarisaz, 1400 m, 25.V.2007, 2♂♂, 4♀♀.

Polistes gallicus (LINNÉ 1767)

M a t e r i a l e x a m i n e d : Adana: Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, 5♀♀; Adiyaman: Hasancık, 650 m, 3.VII.2008, 4♀♀; Erzurum: Oltu, Sarisaz, 1400 m, 25.V.2007, 3♀♀.

Polistes nimpha (CHRIST 1791)

M a t e r i a l e x a m i n e d : Adana: Ceyhan, Botaş, 13.VII.2007, 3♂♂; Antalya: 15.VIII.2008, 2♂♂, ♂; Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, 2♂♂; Erzurum: Oltu, Sarisaz, 1400 m, 25.VII.2007, 2♀♀, 4♀♀.

Polistes sulcifer ZIMMERMANN 1930

M a t e r i a l e x a m i n e d : Erzurum: Oltu, Sarisaz, 1400 m, 25.VII.2007, 2♀♀.

Subfamily Eumeniae

Paragymnomerus s. spiricornis (SPINOLA 1808)

M a t e r i a l e x a m i n e d : Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♀.

Distribution in Turkey: New for the Turkish fauna.

Distribution in the world: Europe, eastward to Armenia.

***Gymnomerus laevipes* (SHUCKARD 1837)**

Material examined: Erzurum: Oltu, Vocational Training School fields, 1345 m, 25.V.2007, ♂, Sarisaz, 1400 m, 25.VII.2007, ♀.

***Leptochilus (Neoleptochilus) regulus* (SAUSSURE 1855)**

Material examined: Aksaray: 8.VII.2008, ♂.

***Leptochilus neutralis* (GIORDANI SOIKA 1943)**

Material examined: Adana: Ceyhan, Botaş, 13.VII.2007, ♀; Adiyaman: Nemrut, 1650 m, 2.VII.2008, ♀.

***Tachyancistrocerus rhodensis* (SAUSSURE 1855)**

Material examined: Adana: Ceyhan, Botaş, 13.VII.2007, 6♂♂.

***Jucancistrocerus jucundus* (MOCSARY 1883)**

Material examined: Erzurum: Oltu, Sarisaz, 1400 m, 25.VI.2007, ♀.

***Eustenancistrocerus israelensis* GIORDANI SOIKA 1952**

Material examined: Erzurum: Olur, 1600 m, 20.VII.2007, ♀.

***Antepipona iconia* (BLÜTHGEN 1951)**

Material examined: Adiyaman: Hasancık, 650 m, 3.VII.2008, 4♂♂.

***Parodontodynerus ephippium* (KLUG 1817)**

Material examined: Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, 2♀♀; Erzurum: Oltu, Sarisaz, 1400 m, 20.VII.2007, 2♀♀.

***Allodynerus delphinalis* (GIRAUD 1866)**

Material examined: Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♀; Erzurum: Oltu, Sarisaz, 1400 m, 20.VIII.2007, ♀.

***Pseudepipona herrichii* (SAUSSURE 1856)**

Material examined: Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♀.

***Euodynerus dantici* (ROSSI 1790)**

Material examined: Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, 2♂♂.

***Euodynerus hellenicus* BLÜTHGEN 1942**

Material examined: Adiyaman: Hasancık, 650 m, 3VII.2008, ♂.

***Euodynerus curictensis* BLÜTHGEN 1940**

M a t e r i a l e x a m i n e d : Adana: Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, 6♂♂.

***Euodynerus disconotatus* (LICHENSTEIN 1884)**

M a t e r i a l e x a m i n e d : Adana: Ceyhan, Botaş, 13.VII.2007, ♂, Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, ♂.

***Ancistrocerus parietum* (LINNAEUS 1758)**

M a t e r i a l e x a m i n e d : Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, 8♂♂.

***Symmorphus crassicornis* (PANZER 1798)**

M a t e r i a l e x a m i n e d : Erzurum: Oltu, Sarısaz, 1400 m, 25.VII.2007, 2♀♀.

***Eumenes coarctatus* (LINNAEUS 1758)**

M a t e r i a l e x a m i n e d : Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♀, 4♂♂.

***Eumenes mediterraneus* KRIECHBAUMER 1879**

M a t e r i a l e x a m i n e d : Adana: Ceyhan, Botaş, 13.VII.2007, 5♂♂, Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, 5♀♀, 4♂♂; Adiyaman: Hasancık, 650 m, 3VII.2008, 4♂♂; Antalya: 15.VIII.2008, 3♂♂.

***Eumenes modestus* GUSENLEITNER 2006**

M a t e r i a l e x a m i n e d : Hakkari: 25 km SW, 1200 m, 30.V.1980, ♂, leg. K. Warncke, W Serpil, Mt. Cilo, 1800 m, 6.VIII.1982, ♂, leg. K. Warncke, S Varegöz, Mt. Sat, 1750 m, 6.VIII.1986, ♂, leg. K. Warncke, Sat Mt., Varegöz SW Yüksekova, 1700m, 4.-8.VIII.1983, 2♂♂, leg. W. Schacht.

Distribution in Turkey: New for the Turkish fauna.

Distribution in the world: Iran (GUSENLEITNER 2006).

***Eumenes pedunculatus* (PANZER 1799)**

M a t e r i a l e x a m i n e d : Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♂.

***Eumenes pomifomis* (FABRICIUS 1781)**

M a t e r i a l e x a m i n e d : Bayburt: Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♂.

***Eumenes sareptanus* ANDRE 1884**

M a t e r i a l e x a m i n e d : Adana: Karaisalı, Kızıldağ, Akpınar, 1650 m, 22.VII.2007, 3♀♀, 4♂♂.

***Katamenes flavigularis* (BLÜTHGEN 1951)**

M a t e r i a l e x a m i n e d : Erzurum: Olur, 1600 m, 20.VIII.2007, ♂.

Subfamily M a s a r i n a e

***Ceramius cyprius smyrnensis* RICHARDS 1962**

M a t e r i a l e x a m i n e d : Adana: Ceyhan, Botas, 13.VII.2007, 4♀ ♀, 4♂ ♂.

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