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

E. YILDIRIM & J. GUSENLEITNER

**A b s t r a c t :** The present situation of Vespidae species of Turkey were evaluated. Including the new taxa determined in this study, a total of 289 species and subspecies belonging to 52 genera were recorded up to now. From subfamily Eumeninae and Masarinae *Quartinia popovi* GUSSAKOVSKII 1936, *Jucancistrocerus caspicus* GIORDANI SOİKA 1970, *Microdynerus (Microdynerus) aegaeicus* GUSENLEITNER 1998 and *Odynerus fulvitaris* (MORAWITZ 1895) are new records for the Turkish fauna. In addition, new localities were found for some species and subspecies previously known in Turkey.

**K e y w o r d s :** Hymenoptera, Vespidae, Eumeninae, Polistinae, Vespinae, Fauna, Turkey.

### Introduction

Total 280 species and subspecies belonging to 52 genera of Vespidae were recorded from Turkey (YİLDİRİM & KOJIMA 1999).

GUSENLEITNER (2000a, 2000b) recorded *Microdynerus aegaeicus* GUSENLEITNER 1998 from Muđla (Fethiye, Patara) and described *Stenodynerus haladaorum* GUSENLEITNER 1999 from Kahramanmara, *Microdynerus rubiculus* GUSENLEITNER 2000 from Kahra (Adiyaman), *Acanthodynerus multimaculatus* GUSENLEITNER 2000 from Nemrut Dagi mt., 50 km NE of Kanta, *Hemipterochilus simplex* GUSENLEITNER 2000 from Hakkari, (Yüksekova), Sivas (Gürün), Bitlis (Adilcevaz), Ağrı, Van (Gevaş, Başkale) in Turkey. ÖZBAY & BILGIN (1997) recorded *Paravespa quadricolor* MORAWITZ, 1885 (no locality) from Turkey. GUSENLEITNER (2000a) recorded *Parodontodynerus ephippium anatoliae* GIORDANI SOİKA 1952 as a synonym of *P. e. ephippium* (KLUG 1817).

TÜZÜN & TANYOLAÇ (1988a, b) reported a study about Eumenidae species found in Aegean Region of Turkey depending on the translation of BERLAND (1928) work without respecting scientific data or findings. On the basis of our experience and knowledge, the existence of the most of species in Turkey described by TÜZÜN & TANYOLAÇ (1988a, b) is questionable, or may even not be possible. We believed that the same mistake was repeated by TÜZÜN et al. (2000). Thus, the scientific conflicts in the article of TÜZÜN et al. (2000) were criticised by GUSENLEITNER (2001) in great detail.

In this study, the last situation of Vespidae species of Turkey were evaluated. Including the new taxa determined, a total of 288 species and subspecies belonging to 52 genera were recorded up to now. The material of the family Vespidae was collected from different localities of Turkey in the last years.

## Results

### M a s a r i n a e

#### ***Quartinia popovi* GUSSAKOVSKII 1936, New for Turkish fauna**

**M a t e r i a l e x a m i n e d :** Van: Gevas, 2.7.2000, 2♀ ♀, 1♂ ♂, leg. M. Halada, coll. Biologiezentrum des Oberösterreichischen Landesmuseum, Linz.

Until now this species was known only from Central Asia.

### E u m e n i n a e

#### ***Alastor (Alastor) mocsaryi* (ANDRE 1884)**

Synonym: *Alastor (Alastor) bieglebeni* GIORDANI SOİKA 1942

**M a t e r i a l e x a m i n e d :** Kars: Sankamuş, 1700 m, 17.VIII.1998, ♂; Konya: Güneysınır, Gurağaç, 1017 m, 8.VII.2000, ♀, ♂.

#### ***Ancistrocerus claripennis ponticus* GIORDANI SOİKA 1970**

**M a t e r i a l e x a m i n e d :** Rize: Çamlıhemşin, Ayder, 1200 m, 30.VII.2000, ♀, İkizdere, Çamlık, 1600 m, 29.VII.2000, ♀, Ovit Mt., 2600 m, 29.VII.2000, ♂.

#### ***Ancistrocerus o. oviventris* (WESMAEL 1836)**

**M a t e r i a l e x a m i n e d :** Rize: Ballıköy, 2300 m, 5.VIII.1998, ♂, Çamlıhemşin, 1200 m, 30.VII.2000, ♂.

#### ***Ancistrocerus scoticus* (CURTIS 1826)**

**M a t e r i a l e x a m i n e d :** Rize: İkizdere, Ovit Mt., 2600 m, 11.VIII.2000, 4♀ ♀, 18♂ ♂.

#### ***Antepipona o. orbitalis* (HERRİCH-SCHAEFFER 1839)**

**M a t e r i a l e x a m i n e d :** Rize: İkizdere, Çamlık, 1600 m, 29.VII.2000, ♀.

#### ***Brachodynerus kurdasi* GUSENLEİTNER 1967**

**M a t e r i a l e x a m i n e d :** Bitlis: Adilcevaz, 1850 m, 20.VII.1999, ♂; Konya: Güneysınır, Gurağaç, 1017 m, 3.IX.2000, ♂.

#### ***Eumenes c. coarctatus* LINNAEUS 1758**

**M a t e r i a l e x a m i n e d :** Konya: Güneysınır, Gurağaç, 1017 m, 3.IX.2000, ♂.

#### ***Eumenes coronatus detonsus* BLÜTHGEN 1943**

**M a t e r i a l e x a m i n e d :** Niğde: Ulukışla, Çiftahan, 1050 m, 8.VIII.1999, 2♀ ♀.

#### ***Euodynerus (Euodynerus) hellenicus* BLÜTHGEN 1942**

**M a t e r i a l e x a m i n e d :** Bitlis: Adilcevaz, 1850 m, 20.VII.1999, ♂.

***Euodynerus (Euodynerus) s. semisaecularis* DALLA TORRE 1889**

**Material examined:** Konya: Güneysınır, Gurağaç, 1017 m, 11.VI.1999, ♂, 4.VII.1999, ♀.

***Eustenancistrocerus (Parastenancistrocerus) a. amadanensis* (SAUSSURE 1885)**

**Material examined:** Konya: Güneysınır, Gurağaç, 1017 m, 3.IX.2000, 4 ♀♀, 3 ♂♂.

***Jucancistrocerus caspicus* GIORDANI SOİKA 1970, New for the Turkish fauna**

**Material examined:** Bingöl: Solhan, 2120 m, 25.VII.2000 m, ♀.

**Distribution in the world:** Iran, Daghestan (GIORDANI SOİKA 1970; VECHT & FISCHER 1972).

***Katamenes sichelii tauriae* (GIORDANI SOİKA 1960)**

**Material examined:** Konya: Güneysınır, Gurağaç, 1017 m, 11.VI.1999, ♀, 3.IX.2000, ♀.

***Microdynerus (Microdynerus) aegaeicus* GUSENLEİTNER 1998,**

**New for the Turkish fauna.**

**Material examined:** Antalya: Beldibi, 23.4.-5.5.1988, ♂, leg. H. Wolf; Side, 23.4.1973, ♂, leg. K. Warncke; Muğla: Fethiye, Patara, 14.4.1998, 5 ♂♂, leg. W. Arens.

Until now this species was known only from Samos.

***Microdynerus (Alastorynerus) microdynerus* (DALLA TORRE 1889)**

**Material examined:** Kars: Sankamış, Karakurt, 1500 m, 2.VI.1999, ♂.

***Microdynerus (Microdynerus) longicollis* MORAWİTZ 1895**

**Material examined:** Kars: Sankamış, Karakurt, 1500 m, 2.VI.1999, ♀.

***Odynerus (Spinicoxa) albopictus calcaratus* (MORAWİTZ 1885)**

**Material examined:** Kars: Sankamış, Karakurt, 1500 m, 2.VI.1999, ♀; Sivas: Türkkeşlik, 1700 m, 16.VII.1999, ♀, 5 ♂♂.

***Odynerus fulvitaris* (MORAWİTZ 1895), New for the Turkish fauna.**

**Material examined:** Erzurum: Uzundere, 1100 m, 13.V.2000, ♂.

**Distribution in the world:** Transcaucasia, Kazakhstan (VECHT & FYSCHER 1972).

***Onychopterocheilus h. hellenicus* MORAWİTZ 1885**

**Material examined:** Kars: Sankamış, Karakurt, 1500 m, 2.VI.1999, ♀.

***Paravespa g. grandis* (MORAWİTZ 1885)**

**Material examined:** Konya: Güneysınır, Gurağaç, 1017 m, 8.VII.2000, ♂, 21.VIII.1998, ♂.

***Pseudepipona (Deuterepipona) ionia clausa* GIORDANI SOİKA 1943**

**Material examined:** Konya: Güneysınır, Gurağaç, 1017 m, 3.IX.2000, ♀.

***Raphiglossa e. eumenoides* S.S.SAUNDERS 1850**

**M a t e r i a l e x a m i n e d :** Bitlis: Adilcevaz, Yıldız, 1950 m, 15.VII.1999, 2♂♂.

***Stenodynerus fastidiosissimus difficilis* (MORAWITZ 1867)**

**M a t e r i a l e x a m i n e d :** Bitlis: Adilcevaz, Yıldız, 1950 m, 15.VII.1999, ♂.

***Symmorphus (Symmorphus) gracilis* (BRULLÈ 1832)**

**M a t e r i a l e x a m i n e d :** Konya: Güneysınır, Güragaç, 1017 m, 8.VII.2000, ♀.

***Syneodynerus e. egregius* (HERRICH-SCHAEFFER 1839)**

**M a t e r i a l e x a m i n e d :** Kars: Sankamış, Karakurt, 1700 m, 4.VI.2000, ♂.

**P o l i s t i n a e**

***Polistes (Polistes) atrimandibularis* ZIMMERMANN 1930**

**M a t e r i a l e x a m i n e d :** Konya: Beyşehir, 5.VII.1998, ♀, Çumra, Kuzucu, 1000 m, 20.VII.2000 m, 2♂♂; Rize: İkizdere, Ovit Mt., 2600 m, 11.VIII.2000, 2♂♂.

***Polistes (Polistes) biglumis* (LINNAEUS 1758)**

**M a t e r i a l e x a m i n e d :** Konya: Güneysınır, Güragaç, 1017 m, 20.VI.1999, 2♀♀; Rize: İkizdere, Ovit Mt., 2600 m, 11.VIII.2000, 2♀♀.

***Polistes (Polistes) sulcifer* (ZIMMERMANN 1930)**

**M a t e r i a l e x a m i n e d :** Ankara: Haymana, 21.VIII.1997, 2♂♂; Nevşehir: Ürgüp, Aksahım, 1600 m, 13.VIII.1999, ♂; Rize: İkizdere, Ovit Mt., 2600 m, 11.VIII.2000, 2♀♀.

**V e s p i n a e**

***Dolichovespula (Boreovespula) norwegica* (FABRICIUS 1781)**

**M a t e r i a l e x a m i n e d :** Rize: İkizdere, Çamlık, 1600 m, 29.VII.2000, 2♂♂, Ovit Mt., 2600 m, 29.VII.2000, ♂.

***Dolichovespula (Dolichovespula) media* (RETZIUS 1783)**

**M a t e r i a l e x a m i n e d :** Rize: İkizdere, Çamlık, 1600 m, 29.VII.2000, ♂.

***Dolichovespula (Pseudovespula) omissa* (BISCHOFF 1931)**

**M a t e r i a l e x a m i n e d :** Kars: Sankamış, Karakurt, 2.V.2000 ♀.

***Dolichovespula (Pseudovespula) adulterina* (du BUYSSON 1905)**

**M a t e r i a l e x a m i n e d :** Rize: İkizdere, Çamlık, 1600 m, 29.VII.2000, 2♂♂.

***Vespula (Paravespula) vulgaris* (LINNAEUS 1758)**

Material examined: Adiyaman: Besni, 29.VIII.1999, ♂; Amasya: 6.IX.1999, ♀; Bitlis: Adilcevaz, 1850 m, 20.VII.1999, ♀; Konya: Bozkır, Belören, 1017 m, 22.VII.2000, ♀.

**Zusammenfassung**

Der derzeitige Stand der Vespiden-Fauna der Türkei wurde aufgezeigt. Einschließlich der hier vorgestellten neuen Taxa wurden bisher in der Türkei 289 Arten und Unterarten aus 52 Gattungen bekannt. Aus der Familie der Eumenidae wurden für die Türkei hier *Jucancistrocerus caspicus* GIORDANI SOIKA 1970, *Microdynerus (Microdynerus) aegaeicus* GUSENLEITNER 1998, *Odynerus fulvitaris* (MORAWITZ 1895) und *Quartinia popovi* GUSSAKOVSKII 1936 neu angeführt. Ausserdem wurden neue Fundorte für bereits aus der Türkei bekannten Arten gemacht.

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Authors' addresses: Assoc. Prof. Dr. Erol YILDIRIM  
Atatürk University, Agriculture Faculty  
Department of Plant Protection  
TK 25240, Erzurum Turkey  
e-mail: yildirimerol@hotmail.com

Dr. Josef GUSENLEITNER  
Pfitznerstrasse 31, A-4020 Linz, Austria  
e-mail: j.gusenleitner@utanet.at

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