

## Contribution to the knowledge of the Vespidae (Hymenoptera, Aculeata) of Turkey, with a checklist of the Turkish species

Erol YILDIRIM<sup>1\*</sup>, Josef GUSENLEITNER<sup>2</sup>

<sup>1</sup>Atatürk University, Faculty of Agriculture, Department of Plant Protection, 25240, Erzurum - TURKEY

<sup>2</sup>Pfitzerstrasse 31, A-4020, Linz - AUSTRIA

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**Abstract:** This study is based upon material of the family Vespidae collected at a series of localities in Turkey between 1964 and 2010 and a review of the previous studies on the Vespidae of Turkey. *Stenodynerus trotzinai* (Morawitz, 1895) and *Antepipona dentella* Gusenleitner, 1991 are new records for the Turkish fauna. With these 2 additions and the data from previous studies, a total of 298 species and subspecies from 53 genera belonging to 4 subfamilies, Vespinae, Polistinae, Eumeninae, and Masarinae, of the family Vespidae have now been recorded from Turkey. Among them, the type localities of 3 genera, 71 species, and 16 subspecies of Vespidae are situated in Turkey. Separately, 65 species and subspecies are considered to be endemic. In addition, new localities were found for some species and subspecies that have already been reported from Turkey. Furthermore, the authors present an updated checklist of the Turkish fauna of Vespidae.

**Key words:** Hymenoptera, Vespidae, fauna, new records, checklist, Turkey

### Türkiye'nin Vespidae (Hymenoptera, Aculeata) faunasına katkılar ve tür listesi

**Özet:** Bu çalışmada, Türkiye'nin değişik yörelerinden 1964-2010 yılları arasında toplanan Vespidae örnekleri ile bu konuda bugüne kadar Türkiye'de yapılan çalışmalar değerlendirilmiştir. Saptanan türlerden, *Stenodynerus trotzinai* (Morawitz, 1895) ve *Antepipona dentella* Gusenleitner, 1991 Türkiye faunası için yeni kayıttır. Bu çalışmada tespit edilen Türkiye faunası için yeni kayıt olan türlerle birlikte Vespinae, Polistinae, Eumeninae ve Masarinae altfamilyalarına ait 53 cinse bağlı 298 tür ve alttürün Türkiye'de bulunduğu tespit edilmiştir. Bunlardan 3 cins, 71 tür ve 16 alttürün tip lokalitelerinin Türkiye olduğu belirlenmiştir. Yine, 65 tür ve alttürün endemik olduğu görülmüştür. Ayrıca, daha önce Türkiye'de bulunduğu belirtilen bazı tür ve alttürler için yeni lokaliteler tespit edilmiştir. Bunlara ek olarak, Türkiye'nin Vespidae faunasına ait tür listesi hazırlanmıştır.

**Anahtar sözcükler:** Hymenoptera, Vespidae, fauna, yeni kayıtlar, tür listesi, Türkiye

\* E-mail: eyildi@atauni.edu.tr

## Introduction

Vespidae is a cosmopolitan but predominantly tropical family containing more than 5000 species in 6 subfamilies: Eumeninae, Euparagiinae, Masarinae, Polistinae, Stenogastrinae, and Vespinae (Pickett and Carpenter, 2010). Most species are solitary, but many are social. In solitary species the larva is usually predatory on other insects, particularly caterpillars, in a cell constructed and provisioned by the adult female; the larva is rarely supplied with a mixture of pollen and nectar instead. In social species the larva is progressively fed by adult females on masticated insects or rarely predominantly on glandular secretions. A few are cleptoparasites in the nests of social species. Pupation occurs within the cell (Goulet and Huber, 1993).

Turkey is one of the most interesting countries in the West Palaearctic region, where most of the insect families including the Vespidae are known to occur. Thus, a number of faunistic studies about the family Vespidae have been conducted by foreign and native researchers in Turkey. Yıldırım and Kojima (1999) prepared a catalogue of the Vespidae of Turkey, and a total of 280 species and subspecies belonging to 52 genera were recorded in this catalogue. Later, Yıldırım (2008), and Yıldırım and Gusenleitner (2001, 2004, 2007, 2009) reported several new records from Turkey, and the total number reached 302 species and subspecies belonging to 53 genera. There has been no recent attempt, however, to prepare a checklist of the Turkish Vespidae. It is essential to have such a checklist for the researchers who are interested in working with Vespidae in the West Palaearctic region including Turkey, and the present paper includes an updated checklist of the vespidae fauna of Turkey.

The current state of knowledge about the Turkish species and subspecies of Vespidae is evaluated here. *Alastor biegelebeni* Giordani Soika, 1942 is a synonym of *Alastor mocsaryi* (André, 1884) and *Eustenancistrocerus amadanensis hoberlandti* Giordani Soika, 1952 is a synonym of *Eustenancistrocerus amadanensis* (Saussure, 1855) (Gusenleitner, 2011), and are now excluded from the Turkish list. In addition, *Ancistrocerus biphaleratus*

*triphaleratus* (Saussure, 1855) and *Eumenes coronatus coronatus* (Panzer, 1799) are excluded from the list as there is no evidence supporting their existence in Turkey. As a result, the total number of species and subspecies recorded from Turkey to date is raised to 298, belonging to 53 genera from 4 subfamilies, Vespinae, Polistinae, Eumeninae, and Masarinae. Among them, the type localities of 3 genera, 71 species, and 16 subspecies of Vespidae are situated in Turkey. Separately, 65 species and subspecies are considered to be endemic.

## Materials and methods

The material was mostly collected by the first author at a number of localities in Turkey between 1964 and 2010, with some specimens taken by J. Straka and M. Halada. The provinces where the specimens were collected are given in alphabetical order in the list below. The material is deposited in the Entomology Museum, Erzurum, Turkey (EMET) and Biologiezentrum (Johann-Wilhelm-Klein-Straße 73, 4040 Linz-Dornach, Austria). The genera, species, and subspecies whose type localities are in Turkey are marked with an asterisk in the checklist.

## Results

The following material from Turkey has been examined, resulting in 2 additions to the Turkish fauna and a number of new localities for some species and subspecies previously known from the country. A total of 298 species and subspecies of the family Vespidae belonging to 53 genera have been recorded from Turkey to date.

### Subfamily Vespinae

#### *Vespa orientalis* Linnaeus, 1771

Material examined: **Antalya:** Gazipaşa, 100 m, 1.VIII.2010, ♀; **Aydın:** Cine, 600 m, 13.VIII.2010, ♀; **Balıkesir:** İvrindi, Sofular, 25.VII.2010, ♀; **Bilecik:** Gölpazarı, 520 m, 26.VII.2010, ♀; **İzmir:** 10 m, 18.VII.2009, ♀, Bayındır, 100 m, 31.VII.2010, ♀; **Karaman:** Çukurbağ, 1100 m, 14.VII.2010, ♀; **Tunceli:** Mazgirt, Kalaycı, 950 m, 25.VIII.2010, ♀.

*Vespula (Paravespula) germanica* (Fabricius, 1793)

Material examined: **Bayburt:** 1600 m, 12.VIII.2009, ♂; **Erzincan:** Refahiye, 1500 m, 20.VI.2009, 4 ♀♀; **Erzurum:** Güngörmez, 2000 m, 19.VIII.2009, ♀, 2 ♂♂, Güzelyayla, 2000 m, 19.VIII.2009, ♀, Atatürk University field, 1850 m, 24.VI.2004, 5 ♀♀, 3 ♂♂, Tortum, Arılı, 1450 m, 5.VIII.2010, 2 ♀♀; **Giresun:** Bulancak, 150 m, 27.VII.2010, 4 ♀♀; **Rize:** Ardeşen, Armağan, 300 m, 8.VIII.2010, 5 ♀♀; **Tunceli:** Mazgirt, Kalaycı, 950 m, 25.VIII.2010, ♀, 3 ♀♀; **Yozgat:** Boğazlayan, 1050 m, 4.VIII.2010, 3 ♀♀.

*Vespula (Allovespula) rufa* (Linnaeus, 1758)

Material examined: **Erzurum:** Tortum, Aksu, 1300 m, 5.VIII.2010, 2 ♀♀.

*Vespula (Paravespula) vulgaris* (Linnaeus, 1758)

Material examined: **Erzurum:** Atatürk University field, 1850 m, 10.XII.2010, ♀; **Giresun:** Çıkrıkkapı, 2000 m, 31.VIII.2010, ♀.

*Dolichovespula (Metavespula) sylvestris* (Scopoli, 1763)

Material examined: **Artvin:** Yusufeli, İşhan, 600 m, 16.VI.2010, 2 ♀♀, Pamukçular, 700 m, 16.VI.2010, 2 ♀♀; **Bayburt:** Kopdağı, Şehitler Çeşmesi, 2400 m, 17.VI.2010, ♀; **Erzurum:** Yeşilyayla, 1950 m, 1.VII.2010, ♀, Tortum, Aksu, 1300 m, 5.VIII.2010, ♀; **Kars:** Sarıkamış, Karakurt, 1500 m, 22.VI.2010, 2 ♀♀, Çifte Şehitler, 1500 m, 22.VI.2010, 2 ♀♀.

#### Subfamily Polistinae

*Polistes (Polistes) associus* Kohl, 1898

Material examined: **Artvin:** Şavşat, 400 m, 16.VI.2010, ♀, Yusufeli, Demirkent, 500 m, 15.VI.2010, 2 ♀♀, İşhan, 600 m, 16.VI.2010, 6 ♀♀, Morkaya, 700 m, 15.VI.2010, 2 ♀♀, Pamukçular, 700 m, 16.VI.2010, 2 ♀♀, Sebzeciler, 560 m, 16.VI.2010, ♀.

*Polistes (Polistes) biglumis* (Linnaeus, 1758)

Material examined: **Bayburt:** 1600 m, 12.VIII.2009, ♀; **Erzurum:** Güngörmez, 2000 m, 19.VIII.2009, ♀, ♂.

*Polistes (Polistes) gallicus* (Linnaeus, 1767)

Material examined: **Artvin:** Yusufeli, Pamukçular, 700 m, 16.VI.2010, ♀; **Erzincan:** Akyazı, 1200 m,

11.VI.2010, ♀, Refahiye, 1500 m, 20.VI.2009, 2 ♀♀, 2 ♀♀; **Erzurum:** Güngörmez, Dumlubaba, 2500 m, 1.VII.2010, ♀, Yeşilyayla, 1950 m, 1.VII.2010, 3 ♀♀, İspir, 1300 m, 30.VII.2010, 2 ♂♂, Tortum, Aksu, 1300 m, 5.VIII.2010, 2 ♀♀, ♂, Arılı, 1450 m, 5.VIII.2010, 3 ♀♀, Derekapı, 1400 m, 15.VI.2010, ♀, 4 ♀♀; **İğdır:** 850 m, 18.VI.2009, ♀, Melekli, 830 m, 23.VI.2010, ♀, Suveren, 1100 m, 23.VI.2010, ♀, 2 ♀♀, Aralık, 830 m, 23.VI.2010, ♀, Karakoyunlu, Alican, 850 m, 23.VI.2010, 4 ♀♀, Taşburun, 830 m, 23.VI.2010, 2 ♀♀, Tuzluca, 870 m, 16.VI.2009, 4 ♀♀, 23.VI.2010, 3 ♀♀, Menderes, 1100 m, 23.VI.2010, 2 ♀♀; **Kars:** Sarıkamış, Akkurt, 1525 m, 22.VI.2010, ♀, 4 ♀♀, Karakurt, 1500 m, 22.VI.2010, ♀, 13.VIII.2009, 2 ♀♀, 5 ♂♂; **Tunceli:** Mazgirt, Kalaycı, 950 m, 25.V.2010, 3 ♀♀.

*Polistes (Polistes) nimpha* (Christ, 1791)

Material examined: **Bayburt:** Kopdağı, Şehitler Çeşmesi, 2400 m, 12.VIII.2009, ♀, ♀; **Erzincan:** Refahiye, 1500 m, 20.VI.2009, ♀; **Erzurum:** Palandöken, 2300 m, 1.VIII.2010, ♀, Yeşilyayla, 1950 m, 1.VII.2010, ♀, İspir, İncesu, 2100 m, 20.VIII.2009, ♀, Tortum, Arılı, 1450 m, 5.VIII.2010, 2 ♀♀, Derekapı, 1400 m, 5.VIII.2010, ♀, 2 ♀♀, Şenkaya, Paşalı, 1300 m, 31.VII.2010, ♀; **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, 2 ♀♀, 2 ♂♂.

*Polistes (Polistes) dominula* (Christ, 1791)

Material examined: **Artvin:** Oruçlu, 200 m, 16.VI.2010, ♀, Yusufeli, Morkaya, 700 m, 15.VI.2010, ♂; **Balıkesir:** İvrindi, Sofular, 24.VII.2010, 3 ♀♀; **Erzurum:** Güngörmez, 2000 m, 19.VIII.2009, ♀, 2 ♂♂, İspir, 1300 m, 30.VII.2010, ♀, Tortum, Derekapı, 1400 m, 15.VI.2010, 2 ♀♀; **İğdır:** Melekli, 830 m, 23.VI.2010, ♂, Aralık, 830 m, 23.VI.2010, ♀, Karakoyunlu, Alican, 850 m, 23.VI.2010, ♂, Tuzluca, 870 m, 16.VI.2009, ♀; **Kars:** Sarıkamış, Çifte Şehitler, 1500 m, 22.VI.2010, ♀, Karakurt, 1500 m, 13.VIII.2009, 4 ♀♀, 8 ♂♂; **Konya:** Ereğli, 1100 m, 18.VII.2010, 3 ♀♀; **Tunceli:** Mazgirt, Kalaycı, 950 m, 25.V.2010, 6 ♀♀, 20.VIII.2010, 4 ♀♀.

*Polistes (Sulcopolistes) atrimandibularis* Zimmermann, 1930

Material examined: **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, 2 ♀♀.

*Polistes (Sulcopolistes) semenowi* Morawitz, 1889

Material examined: **Ardahan:** Posof, Sarıdarı, 28.VIII.1991, ♂; **Erzurum:** Şenyurt, 2300 m, 22.VIII.1992, ♂.

*Polistes (Sulcopolistes) sulcifer* Zimmermann, 1930

Material examined: **Ankara:** Haymana, 21.VIII.1997, ♂; **Erzurum:** 11.VIII.1996, ♂, Oltu, Çamlıbel, 1750 m, 2.VII.1997, ♂, Şenkaya, Gaziler, 1.IX.1996, ♂, Turnalı, 1750 m, 6.IX.1991, ♂; **Tunceli:** Mazgirt, Kalaycı, 25.V.2010, 950 m, ♀.

Subfamily Eumeninae

*Odynerus (Odynerus) femoratus* Saussure, 1856

Material examined: **Bitlis:** 38°36'N 42°07'E, 1600 m, 23.VII.2010, ♀, leg. M. Halada; **Erzurum:** Güngörmez, 2000 m, 19.VIII.2009, ♀, Kırkgözeler, 1800 m, 15.VI.2010, ♂, Yeşilyayla, 1950 m, 01.VII.2010, ♂.

*Odynerus (Odynerus) melanocephalus armeniicus* (Morawitz, 1885)

Material examined: **Bayburt:** Demirözü, 1650 m, 17.VI.2010, ♂; **Erzincan:** 1185 m, 10.VI.2010, ♀, ♂, Akyazı, 1200 m, 11.VI.2010, ♀; **Erzurum:** Güngörmez, Dumlubaba, 2500 m, 1.VII.2010, 2 ♀♀, Atatürk University field, 1850 m, 24.VI.2009, 3 ♀♀, Yeşilyayla, 1950 m, 01.VII.2010, ♂, Aşkale, 1600 m, 12.VIII.2009, 3 ♀♀, Çiftlik, 1620 m, 3.VI.2010, 2 ♂♂, Çat, 1900 m, 12.VII.2009, 2 ♀♀, Pasinler, 1650 m, 7.VII.2009, ♂; **İğdir:** Tuzluca, 870 m, 16.VI.2009, ♀.

*Odynerus (Odynerus) spinipes* (Linnaeus, 1758)

Material examined: **Erzurum:** 39°44'N 41°10'E, 2300 m, 3.VII.2001, ♂, leg. J. Straka.

*Gymnomerus laevipes* (Shuckard, 1837)

Material examined: **Bayburt:** Kopdağı, Şehitler Çeşmesi, 2400 m, 17.VI.2010, ♂; **Erzincan:** Refahiye, 1500 m, 20.VI.2009, ♀; **Erzurum:** Güngörmez, 2000 m, 19.VIII.2009, ♀, Yeşilyayla, 1950 m, 1.VII.2010, ♀, Ilıca, 1900 m, 4.VIII.2009, ♀.

*Onychopterocheilus hellenicus syriacus* (Blüthgen, 1952)

Material examined: **Erzurum:** 39°44'N 41°10'E, 2300 m, 3.VII.2001, ♂, leg. J. Straka.

*Alastor (Alastor) mocsaryi* (André, 1884)

Material examined: **Artvin:** Yusufeli, Morkaya, 700 m, 15.VI.2010, ♀; **Erzurum:** Oltu, Ayvalı, 700 m, 16.VI.2010, ♀; **Hakkari:** Yüksekova, Akçalı, 37°21'N 44°03'E, 1700 m, 21.VI.2010, ♂, leg. M. Halada; **Kars:** Sarıkamış, Akkurt, 1525 m, 13.VIII.2009, ♀.

*Alastor (Alastor) pentheri* Kohl, 1905

Material examined: **Erzurum:** Tortum, Derekapı, 1400 m, 15.VI.2010, ♂.

*Alastor (Alastor) seidenstueckeri* Blüthgen, 1956

Material examined: **Erzurum:** Uzundere, Şelale, 850 m, 27.V.2010, ♂.

*Alastor (Alastor) thymbrinus* Blüthgen, 1956

Material examined: **Artvin:** Yusufeli, Morkaya, 700 m, 15.VI.2010, ♀; **Hakkari:** Yüksekova, Akçalı, 37°21'N 44°03'E, 1700 m, 21.VI.2010, ♂, leg. M. Halada.

*Microdynerus (Alastorynerus) microdynerus* (Dalla Torre, 1889)

Material examined: **Erzurum:** Ilıca, 1900 m, 4.VIII.2009, ♀, Umudum, 2200 m, 26.VI.2003, ♂.

*Microdynerus (Pseudomicrodynerus) parvulus* (Herrich-Schaeffer, 1838)

Material examined: **Bayburt:** 1600 m, 12.VIII.2009, ♀; **Erzincan:** Refahiye, 1500 m, 20.VI.2009, ♀, ♂; **Erzurum:** Güngörmez, Dumlubaba, 2500 m, 1.VII.2010, ♀, Atatürk University field, 1850 m, 17.VIII.2010, ♀.

*Eumicrodynerus europaeus* (Giordani Soika, 1942)

Material examined: **İsparta:** 3.VII.2010, ♀.

*Leptochilus (Euleptochilus) limbiferus anatolicus* Blüthgen, 1955

Material examined: **Erzurum:** Tortum, Derekapı, 1400 m, 15.VI.2010, ♂.

*Leptochilus (Lionotulus) alpestris* (Saussure, 1855)

Material examined: **Erzincan:** Refahiye, 1500 m, 20.VI.2009, ♂.

*Leptochilus (Lionotulus) hermon* Gusenleitner, 1971

Material examined: **Erzurum**: 39°44'N 41°10'E, 2300 m, 30.VI.2001, ♀, 3.VII.2001, ♂, leg. J. Straka.

*Leptochilus (Lionotulus) hethiticus* Gusenleitner, 1985

Material examined: **Erzurum**: Güngörmez, 2000 m, 19.VIII.2009, ♀, Atatürk University field, 1850 m, 26.VI.2009, 3 ♂♂, 13.VII.2009, ♀.

*Leptochilus (Lionotulus) josephi* Giordani Soika, 1947

Material examined: **Konya**: Beyşehir, 6.VI.1964, ♀, leg. J. Gusenleitner; **Mersin**: Mut, Sertavul, 1300 m, 7.VI.1968, 4 ♀♀, leg. J. Gusenleitner.

*Leptochilus (Neoleptochilus) regulus* (Saussure, 1855)

Material examined: **Erzurum**: Oltu, Ayvalı, 700 m, 16.VI.2010, ♂.

*Tachyancistrocerus rhodensis* (Saussure, 1855)

Material examined: **Artvin**: Yusufeli, Morkaya, 700 m, 15.VI.2010, ♂; **Erzurum**: Tortum, Arılı, 1450 m, 5.VIII.2010, ♀, Derekapı, 1400 m, 15.VI.2010, ♀.

*Eustenancistrocerus (Parastenancistrocerus) amadanensis* (Saussure, 1855)

Material examined: **Erzurum**: Karagöbek, 1977 m, 31.VII.2010, ♀, Atatürk University field, 1850 m, 20.VIII.2010, 6 ♀♀, 5 ♂♂; **Iğdır**: Karakoyunlu, Alican, 850 m, 23.VI.2010, ♀, Tuzluca, 1100 m, 23.VI.2010, ♂.

*Jucancistrocerus citreodecoratus* Giordani Soika, 1970

Material examined: **Iğdır**: Suveren, 1000 m, 23.VI.2010, ♂.

*Jucancistrocerus jucundus* (Mocsáry, 1883)

Material examined: **Erzincan**: Akyazı, 1200 m, 11.VI.2010, 2 ♂♂, Geyikli, 1160 m, 11.VI.2010, ♂; **Erzurum**: Ilica, 1900 m, 4.VIII.2009, ♂, İspir, Madenköprübaşı, 1100 m, 20.VIII.2009, Oltu, Kaledibi, 1074 m, 17.VII.2010, ♂, Tortum, Derekapı, 1400 m, 15.VI.2010, ♀, ♂; **Iğdır**: 850 m, 18.VI.2009, ♀; **İstanbul**: Küçükçekmece, Halkalı Ziraat Okulu, 10.VIII.2009, ♂; **Kars**: Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♀.

*Stenodynerus bluethgeni* van der Vecht, 1971

Material examined: **Bayburt**: Demirözü, 1650 m, 17.VI.2010, ♂.

*Stenodynerus chitgarensis* Giordani Soika, 1970

Material examined: **Kars**: Sarıkamış, Akkurt, 1525 m, 22.VI.2010, ♂.

*Stenodynerus simulatus* Gusenleitner, 1981

Material examined: **Bayburt**: Kopdağı, 2400 m, 12.VIII.2009, ♂; **Erzincan**: Refahiye, 1500 m, 20.VI.2009, ♀, ♂; **Erzurum**: İspir, Çapans, 2150 m, 20.VIII.2009, ♂, Tortum, Arılı, 1450 m, 5.VIII.2010, 1450 m, 2 ♀♀, ♂, Derekapı, 1400 m, 5.VIII.2010, ♂; **Iğdır**: Tuzluca, 870 m, 16.VI.2009, ♀.

*Stenodynerus steckianus* (Schulthess, 1897)

Material examined: **Bayburt**: Kopdağı, 2400 m, 12.VIII.2009, ♀; **Erzurum**: 39°44'N 41°10'E, 2300 m, 2.VII.2001, ♀, leg. J. Straka.

*Stenodynerus trotzinai* (Morawitz, 1895)

Material examined: **Kars**: Sarıkamış, Akkurt, 1525 m, 13.VIII.2009, ♂; **Şanlıurfa**: 29.V.1970, ♂, leg. J. Gusenleitner.

Distribution in Turkey: **New for the Turkish fauna.**

Distribution in the world: From Turkmenistan to Pakistan.

*Antepipona deflenda* (S.S. Saunders, 1853)

Material examined: **Artvin**: Ardanuç, Ferhatlı, 15.VI.2010, ♀; **Erzurum**: Atatürk University field, 1850 m, 20.VIII.2010, ♂, Hımıs, 1750 m, 29.V.2009, ♂; **Iğdır**: 850 m, 18.VI.2009, ♀, Aralık, 830 m, 23.VI.2010, 2 ♀♀, Karakoyunlu, Taşburun, 830 m, 23.VI.2010, ♂.

*Antepipona dentella* Gusenleitner, 1991

Material examined: **Hakkari**: Yüksekova, Akçalı, 37°71'N 44°03'E, 1700 m, 21.VI.2010, ♀, leg. M. Halada.

Distribution in Turkey: **New for the Turkish fauna.**

Distribution in the world: Jordan.

*Antepipona insana insana* (Giordani Soika, 1943)

Material examined: **Hakkari**: Yüksekova, Akçalı, 37°21'N 44°03'E, 1700 m, 21.VI.2010, ♀, leg. M. Halada.

*Antepipona orbitalis ballioni* (Morawitz, 1867)

Material examined: **Adana:** Karaisalı, Kızıldağ Yaylası, 1650 m, 30.VI.2010, ♀; **Erzurum:** 39°44'N 41°10'E, 2300 m, 30.VI.2001, ♀, 2.VII.2001, ♂, leg. J. Straka, Aziziye, Rizekent, 2070 m, 30.VII.2010, ♀.

*Antepipona orbitalis orbitalis* (Herrich-Schaeffer, 1839)

Material examined: **Bayburt:** Kopdağı, 2400 m, 12.VIII.2009, ♀.

*Brachydynerus quadrimaculatus* (André, 1884)

Material examined: **Hakkari:** Yüksekova, Akçalı, 37°21'N 44°03'E, 1700 m, 21.VI.2010, ♀, leg. M. Halada.

*Parodontodynerus ephippium* (Klug, 1817)

Material examined: **Erzurum:** Tortum, Derekapı, 1400 m, 15.VI.2010, ♂; **İğdır:** 850 m, 18.VI.2009, ♂, Tuzluca, 870 m, 16.VI.2009, 2 ♂♂.

*Allodynerus floricola floricola* (Saussure, 1853)

Material examined: **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♀.

*Allodynerus rossii* (Lepelletier, 1841)

Material examined: **Erzurum:** Tortum, Arılı, 1450 m, 15.VI.2010, ♂.

*Pseudepipona (Deuterepipona) ankarensis* Giordani Soika, 1970

Material examined: **Bayburt:** Kopdağı, 2400 m, 12.VIII.2009, ♂; **Erzurum:** 39°44'N 41°10'E, 2300 m, 2.VII.2001, ♂, leg. J. Straka.

*Pseudepipona (Pseudepipona) herrichii* (Saussure, 1856)

Material examined: **Hakkari:** Yüksekova, Akçalı, 37°21'N 44°03'E, 1700 m, 21.VI.2010, ♀, leg. M. Halada.

*Euodynerus (Euodynerus) dantici* (Rossi, 1790)

Material examined: **Erzurum:** Tortum, Derekapı, 1400 m, 15.VI.2010, ♀.

*Euodynerus (Euodynerus) disconotatus disconotatus* (Lichtenstein, 1884)

Material examined: **Bayburt:** 1600 m, 12.VIII.2009, ♀; **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♀.

*Euodynerus (Euodynerus) disconotatus sulfuripes* (Morawitz, 1885)

Material examined: **Diyarbakır:** Çermik, 7.VIII.1990, ♀, leg. J. Gusenleitner; **Hakkari:** Beytüşşebab, Harbur Deresi-Tal, 1100 m, 10.VIII.1983, 2 ♀♀, leg. J. Gusenleitner; **Siirt:** 500 m, 13.VIII.1991, ♂, leg. J. Gusenleitner; **Şanlıurfa:** Harran, 500 m, 19.VI.1981, ♂, leg. J. Gusenleitner.

*Euodynerus (Pareuodynerus) posticus* (Herrich-Schaeffer, 1841)

Material examined: **Erzincan:** Refahiye, 1500 m, 20.VI.2009, ♂.

*Syneuodynerus egregius egregius* (Herrich-Schaeffer, 1839)

Material examined: **Hakkari:** Yüksekova, Akçalı, 37°21'N 44°03'E, 1700 m, 21.VI.2010, ♀, ♂, leg. M. Halada; **Kars:** Sarıkamış, Akkurt, 1525 m, 22.VI.2010, ♀.

*Rhynchium oculatum hebraeum* Giordani Soika, 1952

Material examined: **İzmir:** Bayındır, 15.VIII.2010, ♀.

*Ancistrocerus auctus* (Fabricius, 1793)

Material examined: **Erzurum:** Tortum, Arılı, 1450 m, 5.VIII.2010, ♂.

*Ancistrocerus oviventris siculus* Blüthgen, 1955

Material examined: **Hakkari:** Govri Pass, 3000 m, 2 ♂♂, 4.VIII.1986, leg. J. Gusenleitner; **Rize:** İkizdere, Ovit Pass, 1800 m, 4.VIII.1991, ♀, leg. J. Gusenleitner.

*Ancistrocerus oviventris oviventris* (Wesmael, 1836)

Material examined: **Bayburt:** Kopdağı, Şehitler Çeşmesi, 2400 m, 17.VI.2010, ♂.

*Ancistrocerus scoticus* (Curtis, 1826)

Material examined: **Erzurum:** 39°44'N 41°10'E, 2300 m, 2.VII.2001, 2 ♂♂, leg. J. Straka.

*Symmorphus (Symmorphus) bifasciatus* (Linnaeus, 1761)

Material examined: **Erzurum:** Tortum, Arılı, 1450 m, 5.VIII.2010, ♂.

*Symmorphus (Symmorphus) gracilis* (Brullé, 1832)

Material examined: **Erzurum:** Uzundere, 27.V.2010, ♀.

*Eumenes coarctatus lunulatus* Fabricius, 1804

Material examined: **Adana:** 37°23'N 35°12'E, 330 m, 24.VI.2001, ♂, leg. J. Straka; **Erzurum:** Güzelyayla, 2000 m, 19.VIII.2009, ♂, Aşkale, 1600 m, 12.VIII.2009, ♂, Narman, 1650 m, 24.VII.2009, ♂, Tortum, Arılı, 1450 m, 5.VIII.2010, ♀, Derekapı, 1400 m, 15.VI.2010, 2 ♂♂; **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♀, 21.VIII.2003, ♀.

*Eumenes dubius* Saussure, 1852

Material examined: **Erzurum:** Tortum, Derekapı, 1400 m, 15.VI.2010, 2 ♂♂; **Iğdır:** Karakoyunlu, Taşburun, 850 m, 23.VI.2010, ♀; **Kars:** Sarıkamış, Akkurt, 1525 m, 13.VIII.2009, ♂, Karakurt, 1500 m, 13.VIII.2009, 2 ♂♂.

*Eumenes jarkandensis* Blüthgen, 1938

Material examined: **Erzurum:** Tortum, Arılı, 1450 m, 5.VIII.2010, 2 ♂♂; **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♂.

*Eumenes mediterraneus* Kriechbaumer, 1879

Material examined: **Artvin:** Yusufeli, Demirkent, 500 m, 15.VI.2010, 2 ♂♂; **Erzurum:** Tortum, 1563 m, 21.VII.2010, ♂, Arılı, 1450 m, 5.VIII.2010, ♀; **İstanbul:** Küçükçekmece, Halkalı Ziraat Okulu, 10.VIII.2009, ♂; **Iğdır:** Aralık, 830 m, 23.VII.2010, ♂; **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♂.

*Eumenes pomiformis* (Fabricius, 1781)

Material examined: **Erzurum:** Yeşilyayla, 1950 m, 1.VII.2010, ♂, Tortum, Derekapı, 1400 m, 15.VI.2010, 4 ♂♂; **Iğdır:** Tuzluca, 870 m, 16.VI.2009, ♀; **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♂.

*Eumenes sareptanus sareptanus* André, 1884

Material examined: **Erzurum:** Atatürk University field, 1850 m, 20.VIII.2010, ♀, 10 ♂♂; **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♀.

*Eumenes subpomiformis* Blüthgen, 1938

Material examined: **Kars:** Sarıkamış, Akkurt, 1525 m, 22.VI.2010, ♀.

*Delta dimidiatipenne* (Saussure, 1852)

Material examined: **Erzurum:** Atatürk University field, 1850 m, 28.VII.2010, ♀.

*Delta unguiculatum unguiculatum* (Villers, 1789)

Material examined: **Erzurum:** Tortum, Derekapı, 1400 m, 15.VI.2010, ♀, ♂.

*Katamenes flavigularis* (Blüthgen, 1951)

Material examined: **Erzurum:** Tortum, Derekapı, 1400 m, 15.VI.2010, 2 ♀♀.

Subfamily Masarinae

*Celonites abbreviatus* (Villers, 1789)

Material examined: **Artvin:** Yusufeli, Morkaya, 700 m, 15.VI.2010, ♀; **Kayseri:** 38°37'N 35°31'E, 1660 m, 20.VII.2003, 2 ♀♀, leg. J. Straka.

*Celonites cyprius smyrnensis* Richards, 1962

Material examined: **Tunceli:** Mazgirt, Kalaycı, 950 m, 25.VIII.2010, ♀.

*Celonites spinosus* Gusenleitner, 1966

Material examined: **Antalya:** 37°11'N 31°11'E, 17.VII.2001, ♀, leg. J. Straka; **Kayseri:** 38°37'N 35°31'E, 1660 m, 20.VII.2003, ♀, leg. J. Straka.

*Ceramius caucasicus* André, 1884

Material examined: **Erzincan:** Refahiye, 1500 m, 20.VI.2009, ♀.

Checklist of Vespidae (Hymenoptera) present in Turkey.

VESPINAE

*Vespa* Linnaeus, 1758

*Vespa crabro* Linnaeus, 1758

*Vespa orientalis* Linnaeus, 1771

*Vespula* Thomson, 1869

*Vespula (Allovespula) rufa* (Linnaeus, 1758)

*Vespula (Paravespula) germanica* (Fabricius, 1793)

*Vespula (Paravespula) vulgaris* (Linnaeus, 1758)

*Vespula (Vespula) austriaca* (Panzer, 1799)

*Dolichovespula* Rohwer, 1916

*Dolichovespula (Boreovespula) norwegica* (Fabricius, 1781)

*Dolichovespula (Boreovespula) saxonica* (Fabricius, 1793)

*Dolichovespula (Dolichovespula) media* (Retzius, 1783)

*Dolichovespula (Metavespula) sylvestris* (Scopoli, 1763)

*Dolichovespula (Pseudovespula) adulterina* (du Buysson, 1905)

*Dolichovespula (Pseudovespula) omissa* (Bischoff, 1931)

## POLISTINAE

*Polistes* Latreille, 1802

*Polistes (Polistes) associus* Kohl, 1898

*Polistes (Polistes) biglumis* (Linnaeus, 1758)

*Polistes (Polistes) bischoffi* Weyrauch, 1937

*Polistes (Polistes) dominula* (Christ, 1791)

*Polistes (Polistes) gallicus* (Linnaeus, 1767)

*Polistes (Polistes) nimpha* (Christ, 1791)

*Polistes (Sulcopolistes) atrimandibularis* Zimmermann, 1930

*Polistes (Sulcopolistes) semenowi* Morawitz, 1889

*Polistes (Sulcopolistes) sulcifer* Zimmermann, 1930

*Parapolybia* Saussure, 1854

*Parapolybia escalerae* (Meade-Waldo, 1911)

## EUMENINAE

*Raphiglossa* S.S. Saunders, 1850

*Raphiglossa eumenoidea caucasica* Giordani Soika, 1970

*Raphiglossa eumenoidea eumenoidea* S.S. Saunders, 1850

*Psiliglossa* S.S. Saunders, 1872

\**Psiliglossa anatolica* Giordani Soika, 1979

*Psiliglossa odyneroides* (S.S. Saunders, 1850)

*Discoelius* Latreille, 1809

*Discoelius dufourii* Lepeletier, 1841

*Discoelius zonalis* (Panzer, 1801)

*Paravespa* Radoszkowski, 1886

*Paravespa grandis caucasica* (Kokujev, 1912)

*Paravespa grandis grandis* (Morawitz, 1885)

*Paravespa mimetica* (Schulthess, 1924)

*Paravespa quadricolor* (Morawitz, 1885)

*Paravespa rex* (Schulthess, 1924)

*Tropidodynerus* Blüthgen, 1939

*Tropidodynerus interruptus* (Brullé, 1832)

*Paragymnomerus* Blüthgen, 1938

*Paragymnomerus amitinorum* Blüthgen, 1952

*Paragymnomerus spiricornis* (Spinola, 1808)

*Odynerus* Latreille, 1802

*Odynerus (Odynerus) ezechieae* Schulthess, 1924

*Odynerus (Odynerus) femoratus* Saussure, 1856

*Odynerus (Odynerus) melanocephalus armeniacus* (Morawitz, 1885)

*Odynerus (Odynerus) melanocephalus melanocephalus* (Gmelin, 1790)

*Odynerus (Odynerus) poecilus* Saussure, 1856

*Odynerus (Odynerus) rotundigaster* Saussure, 1853

*Odynerus (Odynerus) serricrus* (Blüthgen, 1963)

*Odynerus (Odynerus) spinipes* (Linnaeus, 1758)

*Odynerus (Spinicoxa) albopictus albopictus* Saussure, 1856

*Odynerus (Spinicoxa) albopictus calcaratus* (Morawitz, 1885)

*Odynerus (Spinicoxa) fulvitaris* (Morawitz, 1895)

*Odynerus (Spinicoxa) reniformis* (Gmelin, 1781)

*Odynerus (Spinicoxa) simillimus* Morawitz, 1867

*Gymnomerus* Blüthgen, 1938

*Gymnomerus laevipes* (Shuckard, 1837)

*Cephalochilus* Blüthgen, 1939

\**Cephalochilus draco* Giordani Soika, 1970

*Hemipterochilus* Ferton, 1909

*Hemipterochilus aberrans* (Morawitz, 1885)

*Hemipterochilus bembeciformis bembeciformis* (Morawitz, 1867)



*Hemipterochilus bembeciformis terricola* (Mocsáry, 1883)

*Hemipterochilus bicoloricornis* (Giordani Soika, 1952)

\**Hemipterochilus simplex* Gusenleitner, 2000

*Pterocheilus* Klug, 1805

\**Pterocheilus kamanensis* Gusenleitner, 1967

\**Pterocheilus multimaculatus* Gusenleitner, 2004

\**Pterocheilus punctatus* Giordani Soika, 1970

*Pterocheilus phaleratus* (Panzer, 1797)

\**Pterocheilus schwarzi* Gusenleitner, 1994

*Onychopterocheilus* Blüthgen, 1955

*Onychopterocheilus albopictus* (Kriechbaumer, 1869)

\**Onychopterocheilus anaticus* (Blüthgen, 1955)

*Onychopterocheilus atrohirtus* (Morawitz, 1885)

*Onychopterocheilus ecarinatus* (Morawitz, 1895)

\**Onychopterocheilus fausti aurantiopictus* (Giordani Soika, 1970)

*Onychopterocheilus hellenicus hellenicus* (Morawitz, 1885)

*Onychopterocheilus hellenicus syriacus* (Blüthgen, 1952)

\**Onychopterocheilus mavromoustakisi* (Giordani Soika, 1970)

*Onychopterocheilus pallasii* (Klug, 1805)

\**Onychopterocheilus pamirensis pentheri* (Blüthgen, 1956)

*Alastor* Lepeletier, 1841

*Alastor (Alastor) ardens* Kostylev, 1935

*Alastor (Alastor) atropos* Lepeletier, 1841

*Alastor (Alastor) mocsaryi* (André, 1884)

\**Alastor (Alastor) pentheri* Kohl, 1905

\**Alastor (Alastor) ruficornis* Gusenleitner, 2001

\**Alastor (Alastor) seidenstueckeri* Blüthgen, 1956

\**Alastor (Alastor) thymbrinus* Blüthgen, 1956

*Alastor (Megalastor) asiaticus* Morawitz, 1895

*Alastor (Megalastor) esfandiarii* Giordani Soika, 1970

*Alastor (Megalastor) mediomaculatus* Giordani Soika, 1952

\**Alastor (Megalastor) schwarzi* Gusenleitner, 1967

*Microdynerus* Thomson, 1874

*Microdynerus (Alastorynerus) microdynerus* (Dalla Torre, 1889)

*Microdynerus (Microdynerus) abdelkader* (Saussure, 1856)

*Microdynerus (Microdynerus) aegaeicus* Gusenleitner, 1998

*Microdynerus (Microdynerus) appenninicus* Giordani Soika, 1960

*Microdynerus (Microdynerus) atriceps* Morawitz, 1895

\**Microdynerus (Microdynerus) confinis* Gusenleitner, 1979

\**Microdynerus (Microdynerus) curdistanicus* Gusenleitner, 1988

\**Microdynerus (Microdynerus) erzincanensis* Yildirim and Özbek, 1995

*Microdynerus (Microdynerus) exilis* (Herrich-Schaeffer, 1839)

*Microdynerus (Microdynerus) longicollis* Morawitz, 1895

*Microdynerus (Microdynerus) mirandus* (Giordani Soika, 1947)

*Microdynerus (Microdynerus) nugdunensis* (Saussure, 1855)

\**Microdynerus (Microdynerus) rubiculus* Gusenleitner, 2000

*Microdynerus (Microdynerus) urdunus* Gusenleitner, 2004

\**Microdynerus (Pachymicrodynerus) anaticus* (Blüthgen, 1938)

*Microdynerus (Pachymicrodynerus) eurasius* (Blüthgen, 1938)

*Microdynerus (Pseudomicrodynerus) parvulus* (Herrich-Schaeffer, 1838)

*Eumicrodynerus* Gusenleitner, 1972

- Eumicrodynerus europaeus* (Giordani Soika, 1942)
- Pseudosymmorphus* Blüthgen, 1938
- \**Pseudosymmorphus adnexus* (Gusenleitner, 1969)
- Pseudosymmorphus propheta* (Giordani Soika, 1969)
- \**Acanthodynerus* Gusenleitner, 1969
- \**Acanthodynerus giordanii* Gusenleitner, 1969
- \**Acanthodynerus multimaculatus* Gusenleitner, 2000
- Leptochilus* Saussure, 1853
- \**Leptochilus (Euleptochilus) limbiferus anatolicus* Blüthgen, 1955
- Leptochilus (Lionotulus) aegineticus* Gusenleitner, 1970
- Leptochilus (Lionotulus) alpestris* (Saussure, 1855)
- \**Leptochilus (Lionotulus) ambitiosus* Giordani Soika, 1986
- \**Leptochilus (Lionotulus) fuscipes* Gusenleitner, 1985
- \**Leptochilus (Lionotulus) gusenleitneri* Yıldırım and Özbek, 1995
- \**Leptochilus (Lionotulus) hermon* Gusenleitner, 1971
- \**Leptochilus (Lionotulus) hethiticus* Gusenleitner, 1985
- Leptochilus (Lionotulus) josephi* Giordani Soika, 1947
- Leptochilus (Lionotulus) membranaceus* (Morawitz, 1867)
- \**Leptochilus (Lionotulus) mimulus turcicus* Gusenleitner, 1971
- \**Leptochilus (Lionotulus) montivagus* Gusenleitner, 2002
- \**Leptochilus (Lionotulus) neutraliformis* Gusenleitner, 1977
- \**Leptochilus (Lionotulus) neutralis* (Giordani Soika, 1943)
- \**Leptochilus (Lionotulus) nigroclypeus* Gusenleitner, 1985
- \**Leptochilus (Lionotulus) ornatulus* Gusenleitner, 1977
- \**Leptochilus (Lionotulus) osmanicus* Gusenleitner, 1988
- \**Leptochilus (Lionotulus) palandokenicus* Yıldırım and Özbek, 1995
- Leptochilus (Lionotulus) resslis* Gusenleitner, 1985
- Leptochilus (Lionotulus) tarsatellus* Giordani Soika, 1970
- Leptochilus (Lionotulus) tarsatiformis* (Giordani Soika, 1943)
- Leptochilus (Lionotulus) tarsatus* (Saussure, 1855)
- \**Leptochilus (Neoleptochilus) kemali* Gusenleitner, 1977
- Leptochilus (Neoleptochilus) regulus* (Saussure, 1855)
- \**Leptochilus (Sarochilus) alterego* Gusenleitner, 1970
- Cyrtolabulus* van der Vecht, 1963
- \**Cyrtolabulus anatolicus* Gusenleitner, 2006
- Cyrtolabulus iranus* (Giordani Soika, 1968)
- \**Cyrtolabulus mutinensis* Gusenleitner, 2006
- \**Cyrtolabulus yildirimi* Gusenleitner, 2006
- Cyrtolabulus zarudnyi* (Kostylev, 1939)
- Tachyancistrocerus* Giordani Soika, 1952
- \**Tachyancistrocerus aereus* Giordani Soika, 1952
- Tachyancistrocerus komarowi* (Morawitz, 1885)
- Tachyancistrocerus rhodensis* (Saussure, 1855)
- Tachyancistrocerus schmidtii* (Kokujev, 1912)
- Tachyancistrocerus syriacus* Giordani Soika, 1970
- Stenancistrocerus* Saussure, 1863
- \**Stenancistrocerus (Paratropancistrocerus) liliput* Gusenleitner, 1993
- Eustenancistrocerus* Blüthgen, 1938
- Eustenancistrocerus (Eustenancistrocerus) israelensis* Giordani Soika, 1952
- \**Eustenancistrocerus (Eustenancistrocerus) jerichoensis iconius* Blüthgen, 1957

- Eustenancistrocerus* (*Eustenancistrocerus*)  
*jerichoensis jerichoensis* (Schulthess, 1928)
- Eustenancistrocerus* (*Parastenancistrocerus*)  
*amadanensis* (Saussure, 1855)
- Jucancistrocerus* Blüthgen, 1938
- Jucancistrocerus caspicus* Giordani Soika, 1970
- Jucancistrocerus citreodecoratus* Giordani Soika, 1970
- \**Jucancistrocerus jucundus* (Mocsáry, 1883)
- Stenodynerus* Saussure, 1863
- Stenodynerus aequisculptus aequisculptus*  
(Kostylev, 1940)
- \**Stenodynerus aequisculptus taurus*  
(Gusenleitner, 1966)
- Stenodynerus bluethgeni* van der Vecht, 1971
- Stenodynerus chevrieranus* (Saussure, 1855)
- Stenodynerus chitgarensis* Giordani Soika, 1970
- \**Stenodynerus claviger* Gusenleitner, 1981
- Stenodynerus fastidiosissimus difficilis* (Morawitz, 1867)
- \**Stenodynerus haladaorum* Gusenleitner, 1999
- Stenodynerus orenburgensis* (André, 1884)
- \**Stenodynerus pannosus* Gusenleitner, 1985
- Stenodynerus pullus* Gusenleitner, 1981
- \**Stenodynerus simulatus* Gusenleitner, 1981
- Stenodynerus steckianus* (Schulthess, 1897)
- Stenodynerus trotzinai* (Morawitz, 1895)
- Antepipona* Saussure, 1855
- \**Antepipona albosignata* Gusenleitner, 1986
- Antepipona cribrata* (Morawitz, 1885)
- Antepipona deflenda* (S.S. Saunders, 1853)
- Antepipona dentella* Gusenleitner, 1991
- \**Antepipona iconia* (Blüthgen, 1951)
- \**Antepipona insana calva* Gusenleitner, 1988
- Antepipona insana insana* (Giordani Soika, 1943)
- \**Antepipona laevigata* (Blüthgen, 1951)
- Antepipona nigricornis* (Morawitz, 1885)
- Antepipona orbitalis ballioni* (Morawitz, 1867)
- Antepipona orbitalis orbitalis* (Herrich-Schaeffer, 1839)
- \**Antepipona osmania* Gusenleitner, 1986
- \**Antepipona tenuis* Gusenleitner, 1988
- Antepipona varentzowi* (Morawitz, 1895)
- Brachyodynerus* Blüthgen, 1938
- \**Brachyodynerus chloroticus* Gusenleitner, 2004
- Brachyodynerus kopetdagicus* (Kostylev, 1940)
- \**Brachyodynerus kUSDasi* Gusenleitner, 1967
- Brachyodynerus magnificus* (Morawitz, 1867)
- Brachyodynerus quadrimaculatus* (André, 1884)
- Parodontodynerus* Blüthgen, 1938
- Parodontodynerus aramaeus* Blüthgen, 1955
- Parodontodynerus ephippium* (Klug, 1817)
- Allodynerus* Blüthgen, 1938
- Allodynerus delphinalis* (Giraud, 1866)
- Allodynerus dignotus* (Morawitz, 1895)
- Allodynerus floricola floricola* (Saussure, 1853)
- \**Allodynerus floricola inaequalis* Giordani Soika, 1970
- Allodynerus rossii* (Lepelletier, 1841)
- Antodynerus* Saussure, 1855
- Antodynerus incomparabilis* Giordani Soika, 1970
- Pseudepipona* Saussure, 1856
- \**Pseudepipona (Deuterepipona) ankarensis*  
Giordani Soika, 1970
- Pseudepipona (Deuterepipona) ionia clausa*  
(Giordani Soika, 1943)
- Pseudepipona (Deuterepipona) ionia ionia*  
(Saussure, 1855)
- Pseudepipona (Pseudepipona) herrichii* (Saussure, 1856)
- Pseudepipona (Pseudepipona) lativentris* (Saussure, 1855)
- \**Pseudepipona (Pseudepipona) niveopicta* Giordani Soika, 1970
- \**Pseudepipona (Pseudepipona) pseudominuta*  
Gusenleitner, 1971

*Pseudepipona* (*Pseudepipona*) *tricarinata*  
(Kokujev, 1912)

\**Brachypipona* Gusenleitner, 1967

\**Brachypipona orientalis* Gusenleitner, 2004

\**Brachypipona schmidti* (Gusenleitner, 1967)

*Chlorodynerus* Blüthgen, 1951

*Chlorodynerus ypsilon rhodius* (Blüthgen, 1954)

*Euodynerus* Dalla Torre, 1904

*Euodynerus* (*Euodynerus*) *cherkensis* (Giordani Soika, 1942)

\**Euodynerus* (*Euodynerus*) *clatratus* Blüthgen, 1951

*Euodynerus* (*Euodynerus*) *curictensis* Blüthgen, 1940

*Euodynerus* (*Euodynerus*) *dantici* (Rossi, 1790)

*Euodynerus* (*Euodynerus*) *disconotatus*  
*disconotatus* (Lichtenstein, 1884)

*Euodynerus* (*Euodynerus*) *disconotatus sulfuripes*  
(Morawitz, 1885)

*Euodynerus* (*Euodynerus*) *fastidiosus* (Saussure, 1853)

*Euodynerus* (*Euodynerus*) *hellenicus* Blüthgen, 1942

\**Euodynerus* (*Euodynerus*) *maximilianus*  
Gusenleitner, 1998

*Euodynerus* (*Euodynerus*) *semidantici* (Giordani Soika, 1952)

*Euodynerus* (*Euodynerus*) *semisaecularis*  
*macedonicus* Blüthgen, 1951

*Euodynerus* (*Euodynerus*) *semisaecularis*  
*semisaecularis* (Dalla Torre, 1889)

*Euodynerus* (*Euodynerus*) *velutinus* Blüthgen, 1951

\**Euodynerus* (*Pareuodynerus*) *breviventris*  
(Giordani Soika, 1952)

*Euodynerus* (*Pareuodynerus*) *notatus* (Jurine, 1807)

*Euodynerus* (*Pareuodynerus*) *posticus* (Herrich-Schaeffer, 1841)

*Euodynerus* (*Pareuodynerus*) *quadrifasciatus*  
*quadrifasciatus* (Fabricius, 1793)

\**Euodynerus* (*Pareuodynerus*) *quadrifasciatus*  
*rufipes* Gusenleitner, 1984

*Knemodynerus* Blüthgen, 1940

\**Knemodynerus euodyneroides* Gusenleitner, 1997

*Syneuodynerus* Blüthgen, 1951

\**Syneuodynerus egregius egregior* Gusenleitner, 1970

*Syneuodynerus egregius egregius* (Herrich-Schaeffer, 1839)

\**Syneuodynerus erichi* Gusenleitner, 1967

\**Intereuodynerus* Gusenleitner, 1997

\**Intereuodynerus fritzi* Gusenleitner, 1997

\**Intereuodynerus siegberti* (Gusenleitner, 1967)

*Rhynchium* Spinola, 1806

*Rhynchium oculatum hebraeum* Giordani Soika, 1952

*Rhynchium oculatum oculatum* (Fabricius, 1781)

*Ancistrocerus* Wesmael, 1836

*Ancistrocerus antilope* (Panzer, 1798)

*Ancistrocerus auctus* (Fabricius, 1793)

*Ancistrocerus claripennis claripennis* Thomson, 1874

\**Ancistrocerus claripennis ponticus* Giordani Soika, 1970

*Ancistrocerus dusmetiolus* (Strand, 1914)

*Ancistrocerus gazella* (Panzer, 1798)

*Ancistrocerus ichneumonideus* (Ratzeburg, 1844)

*Ancistrocerus longispinosus* (Saussure, 1855)

*Ancistrocerus nigricornis* (Curtis, 1826)

\**Ancistrocerus oviventris caucasicus* Gusenleitner, 1994

*Ancistrocerus oviventris oviventris* (Wesmael, 1836)

*Ancistrocerus oviventris siculus* Blüthgen, 1955

*Ancistrocerus parietinus* (Linnaeus, 1761)

*Ancistrocerus parietum* (Linnaeus, 1758)

*Ancistrocerus scoticus* (Curtis, 1826)

*Ancistrocerus trifasciatus* (Müller, 1776)

- Symmorphus* Wesmael, 1836  
*Symmorphus (Symmorphus) allobrogus* (Saussure, 1855)  
*Symmorphus (Symmorphus) bifasciatus* (Linnaeus, 1761)  
*Symmorphus (Symmorphus) connexus* (Curtis, 1826)  
*Symmorphus (Symmorphus) crassicornis* (Panzer, 1798)  
*Symmorphus (Symmorphus) debilitatus* (Saussure, 1855)  
*Symmorphus (Symmorphus) declivis* Harttig, 1932  
*Symmorphus (Symmorphus) gracilis* (Brullé, 1832)  
*Symmorphus (Symmorphus) murarius* (Linnaeus, 1758)  
*Pareumenes* Saussure, 1855  
*Pareumenes (Nortonia) laminatus laminatus* (Kriechbaumer, 1879)  
*Pareumenes (Nortonia) laminatus palaestinensis* Giordani Soika, 1952  
*Eumenes* Latreille, 1802  
*Eumenes coarctatus coarctatus* (Linnaeus, 1758)  
*Eumenes coarctatus lunulatus* Fabricius, 1804  
*Eumenes coarctatus ordubadensis* Blüthgen, 1938  
\**Eumenes coronatus corruetus* Gusenleitner, 1972  
*Eumenes coronatus detonsus* Blüthgen, 1943  
*Eumenes dubius dubius* Saussure, 1852  
*Eumenes dubius palaestinensis* Blüthgen, 1938  
*Eumenes jarkandensis* Blüthgen, 1938  
*Eumenes mediterraneus* Kriechbaumer, 1879  
*Eumenes modestus* Gusenleitner, 2006  
*Eumenes papillarius* (Christ, 1791)  
*Eumenes pedunculatus* (Panzer, 1799)  
*Eumenes pomiformis* (Fabricius, 1781)  
*Eumenes punctaticlypeus kostylevi* Kurzenko, 1976  
*Eumenes sareptanus insolatus* Müller, 1923  
*Eumenes sareptanus sareptanus* André, 1884  
*Eumenes subpomiformis* Blüthgen, 1938  
*Delta* Saussure, 1855  
*Delta dimidiatipenne* (Saussure, 1852)  
*Delta unguiculatum libanicum* (Giordani Soika, 1941)  
*Delta unguiculatum unguiculatum* (Villers, 1789)  
*Delta viatrix* (Nurse, 1903)  
*Ischnogasteroides* Magretti, 1884  
*Ischnogasteroides picteti picteti* (Saussure, 1852)  
*Ischnogasteroides picteti tenuis* (Morawitz, 1888)  
*Ischnogasteroides zarudnyi* (Kostylev, 1939)  
*Katamenes* Meade-Waldo, 1910  
\**Katamenes dimidiatus arrectus* Giordani Soika, 1970  
*Katamenes dimidiatus dimidiatus* (Brullé, 1832)  
*Katamenes dimidiatus montanus* (Nurse, 1904)  
*Katamenes flavigularis* (Blüthgen, 1951)  
*Katamenes sichelii baerii* (Radoszkowski, 1865)  
*Katamenes sichelii sichelii* (Saussure, 1852)  
\**Katamenes sichelii tauriae* (Giordani Soika, 1960)
- MASARINAE**  
*Celonites* Latreille, 1802  
*Celonites abbreviatus* (Villers, 1789)  
\**Celonites cyprius smyrnensis* Richards, 1962  
*Celonites foveolatus nigrior* Richards, 1962  
\**Celonites hamanni* Gusenleitner, 1973  
\**Celonites phlomis* Gusenleitner, 1973  
*Celonites rugiceps* Bischoff, 1928  
\**Celonites spinosus* Gusenleitner, 1966  
*Ceramius* Latreille, 1810  
*Ceramius bureschi* Atanassov, 1938  
*Ceramius caucasicus* André, 1884  
*Ceramius palaestinensis* (Giordani Soika, 1957)  
*Jugurtia* Saussure, 1854  
*Jugurtia escalerae* Meade-Waldo, 1910  
*Jugurtia eurycara* Kostylev, 1935  
*Quartinia* André, 1884

\**Quartinia orientalis* Gusenleitner, 1973

*Quartinia popovi* Gussakovskii, 1936

\**Quartinia separata* Gusenleitner, 1997

\**Quartinia soikai* Richards, 1964

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