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Contribution to the knowledge of Chrysididae fauna of Turkey. Part 3: Chrysidinae (Hymenoptera, Chrysididae)

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A b s t r a c t : This investigation is based on material collected from different localities in Turkey between 1987 and 2005. In this study, from the subfamily Chrysidinae 77 species and subspecies in eleven genera have been recorded in Turkey.

K e y w o r d s : Hymenoptera, Chrysididae, Chrysidinae, Chrysidini, Parnopini, fauna, Turkey.

Introduction

The first part of the Chrysididae fauna of Turkey covered the subfamilies Cleptinae (YILDIRIM & STRUMIA 2000) and the second part the subfamily Elampinae (YILDIRIM & STRUMIA 2005). The third part includes the subfamily Chrysidinae.

This cosmopolitan group, the cuckoo wasps, is by far the largest subfamily. Adults are almost invariably brilliantly metallic, and have a concave metasomal venter, which permits them to roll into a ball when threatened. Larvae are usually cleptoparasites in the nests of solitary bees or wasps, the egg being laid in the host cell, usually before provisioning has been completed; the cuckoo-wasp larva kills the egg or recently hatched larva of the host and then feeds on the stored provisions. Some species are more typical parasitoids in that the larva feeds on the mature larva of the host within a cell or cocoon. Hosts include Vespidae, various Spheciformes, Megachilidae, and a few Lepidoptera (GOULET & HUBNER 1993).

The information related to the material and literature references were given in the first part. All taxa and 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) and in the collection of F. Strumia.

Results

In this study, 78 species and subspecies of eleven genera belong to Chrysidinae subfamily of Chrysididae is reported in Turkey.

Tribe Chrysidini**Genus Chrysis LINNAEUS 1761*****Chrysis aestiva* DAHLBOM 1854**

Material examined: Erzurum: University field, 1850 m, 29.VII.1992, 2♂♂, Oltu, Çamlıbel, 1750 m, 2.VII.1997, ♂♂, Tortum, Pehlivanlı, 1500 m, 12.VII.1992, ♂.

***Chrysis albanica* TRAUTMANN 1927**

Material examined: Erzurum: University field, 1850 m, 10.VIII.1992, ♂; Tokat: 900 m, 19.VIII.1992, ♂.

***Chrysis analis* SPINOLA 1808**

Material examined: Erzincan: 1250 m, 14.VI.1994, 2♂♂, 6.VII.1994, ♀, 11.VII.1994, ♂, 18.VII.1997, 4♀♀.

***Chrysis angustifrons* ABEILLE 1878**

Material examined: Erzincan: 1250 m, 14.VI.1994, ♂, 6.VII.1993, ♀, 7.VII.1994, ♂, 18.VII.1997, ♂; Erzurum: Palandöken, 2400 m, 21.VI.1994, ♂, University field, 1850 m, 29.VII.1992, ♀, 2♂♂, 17.VIII.1992, ♀, Oltu, Çamlıbel, 1750 m, 12.VIII.1998, ♂.

***Chrysis angustula* SCHENCK 1856**

Material examined: Artvin: Borçka, Karagöl, 18.VII.1994, ♀; Erzurum: Pasinler, Çalıyazı, 2400 m, 10.VIII.1997, ♀, Pazaryolu, 1150 m, 3.VII.1997, ♀.

***Chrysis berlandi* LINSENMAIER 1959**

Material examined: Erzincan: 1250 m, 14.VI.1994, 2♂♂, 6.VII.1995, ♀.

***Chrysis cerastes* ABEILLE 1877**

Material examined: Erzurum: University field, 1850 m, 24.VII.1992, ♀, İspir, 1300 m, 17.VII.1992, ♀, Madenköprübaşı, 1000 m, 7.VII.1996, 2♀♀, 8.VIII.1992, ♀, Oltu, Çamlıbel, 1750 m, 30.VII.1997, 3♀♀, Sütkans, 1600 m, 25.VI.1996, 3♀♀, Olur, 1600 m, 22.VII.1992, ♀, Süngübayır, 1850 m, 20.VII.1994, 2♀♀, Pasinler, 1650 m, 24.VIII.1992, Çalıyazı, 2400 m, 10.VII.1998, ♀, Şenkaya, Akşar, 1300 m, 26.VII.1994, 2♀♀, 1.VIII.1993, ♀, Ormanlı, 1800 m, 20.V.1994, ♀; Kars: Digor, Kalebaş, 1900 m, 22.VIII.1997, 2♀♀; Tokat: 900 m, 20.VIII.1992, 3♀♀.

***Chrysis coerueliventris* ABEILLE 1878**

Material examined: Antalya: Alimimpınarı, 1000 m, 5.VIII.1994, ♂; Erzurum: Dereboğazi, 1900 m, 11.VIII.1997, ♀.

***Chrysis chrysoprasina* FÖRSTER 1853**

Material examined: Erzincan: 1250 m, 6.VII.1994, ♀.

***Chrysis comparata* LEPELETIER 1806**

Material examined: Adana: Yumurtalık, 10 m, 10.V.1992, ♂; Artvin: Ardanuç, Akarsu, 900 m, ♂, 7.VII.1994, ♀, Yusufeli, Sarıgöl, 700 m, 5.VII.1994, 2♂♂; Antalya: Belkız, 3.VIII.1994, ♂; Erzincan: 1250 m, 23.VI.1994, ♂, 18.VII.1997, 3♂♂; Erzurum: Dereboğazi,

1900 m, 11.VIII.1997, ♂, University field, 1850 m, 4.VII.1998, ♂, 29.VII.1997, ♂, 17.IX.1997, ♂, Aşkale, 2080 m, 9.VIII.1994, ♂, İspir, İspir Pass, 13.VII.2001, ♂, Oltu, Çamlıbel, 1700 m, 19.VI.2003, ♂, Olur, Süngübayır, 1850 m, 20.VII.1994, ♂, Şenkaya, Akşar, 1300 m, 26.VII.1994, 3♂♂, Timurkişla, 1400 m, 14.VIII.1998, ♂, Turnalı, 1750 m, 25.VII.1996, ♂, Tortum, Arılı, 1500 m, 24.VIII.1993, Esendurak, 1500, 14.VIII.1998, ♂, Meydanlar, 1700 m, 24.VIII.1998, ♂; Kars: Digor, Kalebaş, 1850 m, 22.VIII.1997, ♂, Sarıkamış, Akkurt, 1750 m, 25.VIII.1997, 2♂♂; Konya: 1017 m, 8.VII.2000, 2♂♂.

Chrysis comta FÖRSTER 1853

Material examined: Antalya: Belkız, 3.VIII.1994, ♀; Erzincan: 1250 m, 18.VII.1997, ♀, 18.VII.1997, 3♀♀; Erzurum: Arıbahçe, 2400 m, 20.VII.2001, ♀, Dereboğazi, 2070 m, 11.VIII.1994, ♀, Köşk, 1900 m, 20.VI.1996, ♀, University field, 1850 m, 8.VII.1995, ♀, Aşkale, Pınakapan, 1700 m, 9.VIII.1994, ♀, Pasinler, Çalıyazi, 2400 m, 10.VII.1997, ♀, Olur, Süngübayır, 1850 m, 20.VII.1992, ♀, Tortum, Arılı, 1500 m, 24.VIII.1993, ♀; Eskişehir: Mihalgazi, Alpagut, 27.VII.1992, 3♀♀; Kars: Digor, Kalebaş, 1700 m, 22.VIII.1997, ♂; Tokat: 900 m, 20.VIII.1992, 2♀♀.

Chrysis concolor MOCSARY 1893

Material examined: Erzincan: 1250 m, 6.VII.1995, 2♀♀, 14.VI.1994, 3♀♀; Erzurum: University field, 1850 m, 20.IX.1992, ♀.

Chrysis consanguinea MOCSARY 1889

Material examined: Bayburt: Kopdağı, 2400, 13.VIII.1997, ♀; Balıkesir: Ayvalık, 8.VIII.1998, ♀; Bilecik: 600 m, 15.VI.1995, ♀; Dişarbakır: Silvan, 600 m, 17.IV.1995, ♀; Erzincan: 1250 m, 14.VI.1994, ♀, 14.VI.1996, ♀, 23.VI.1994, 8♀♀, 3♂♂, 6.VII.1994, 3♀♀, 11.VII.1994, 5♀♀, 14.VII.1994, ♀, 3♂♂, 18.VII.1997, 10♀♀, 5.VIII.1998, 2♀♀, 18.VII.1997, 3♀♀, Üzümlü, 8.VII.1993, ♀; Erzurum: Köşk, 1900 m, 20.VI.1996, ♀, Güzelyayla, 2200 m, 29.VIII.1992, 3♀♀, University field, 1850 m, 29.VI.1992, 2♀♀, 3.VII.1992, 3♀♀, 29.VII.1992, 2♀♀, 15.VIII.1997, ♀, Aşkale, 1650 m, 15.VII.1997, 5♀♀, 1950 m, 16.VII.1997, 5♀♀ Çat, 2260 m, 11.VIII.1994, 6♀♀, Ilica, Atlıkonak, 1900 m, 12.VII.1997, ♀, Rizekent, 2000 m, 30.VII.1998, ♀, İspir, 1300 m, 17.VII.1993, 2♀♀, Madenköprübaşı, 1100 m, 7.VII.1996, 3♀♀, 2♂♂, Pasinler, 1650 m, 12.VII.1996, ♀, 13.VIII.1992, ♀, Çalıyazi, 2400 m, 10.VIII.1997, ♂, Pazaryolu, 1250 m, 27.VIII.1998, ♀, Oltu, Başaklı, 1700 m, 28.VII.1992, ♀, Çamlıbel, 1750 m, 2.VII.1997, ♀, Olur, Sarıbaşak, 1750 m, 24.VIII.1992, ♂, Şenkaya, Akşar, 1300 m, 26.VII.1994, ♂, Gaziler, Çakırbaba, 2450 m, 13.VII.1998, 2♀♀; Kars: Sarıkamış, Kalebaş, 1700 m, 25.VIII.1997, 11♀♀, 4♂♂; Tokat: 900 m, 19.VIII.1992, ♀.

Chrysis continentalis LINSSENMAIER 1959

(*C. continentalis* was described by W. Linsenmaier as a ssp. of *C. aurotecta* ABEILLE, 1878: since both species are present on Sardinia and Corsica Islands, *C. continentalis* and *C. aurotecta* are considered as two different and valid species).

Material examined: Balıkesir: Ayvalık, 8.VIII.1998, ♂; Erzincan: 1250 m, 14.VI.1994, 2♂♂, 18.VI.1997, ♂, 23.VI.1994, 3♂♂, 14.VII.1994, 3♂♂, ♀, 18.VII.1997, 10♀♀, Üzümlü, 1350 m, 8.VII.1993, ♀; Erzurum: Güzelyayla, 2200 m, 12.VIII.1992, 3♂♂, University field, 1850 m, 23.VII.1992, 2♂♂, İspir, Madenköprübaşı, 1100 m, 7.VII.1996, 2♀♀, 2♂♂, Olur, Sarıbaşak, 1750 m, 24.VIII.1992, ♂, Pasinler, 1600 m, 12.VII.1996, ♀, Çalıyazi, 2400 m, 10.VIII.1997, ♂; Kars: Sarıkamış, Kalebaş, 1700 m, 25.VIII.1997, 2♀♀, 2♂♂.

Chrysis elegans LEPELETIER 1806

Material examined: Bilecik: 600 m, 15.VI.1995, ♂; Kars: Sarıkamış, Karakurt, 1600 m, 23.VI.2005, ♂.

***Chrysis euterpe* BALTHASAR 1957**

Material examined: Erzincan: 1250 m, 14.VI.1994, ♀, 11.VII.1994, ♀; Erzurum: Palandöken, 2400 m, 2.VIII.1994, ♀.

***Chrysis fasciata* OLIVIER 1790**

Material examined: Erzurum: Şenkaya, Turnalı, 1750 m, 25.VII.1996, ♂.

***Chrysis frivaldskyi* MOCSARY 1882**

Material examined: Artvin: Yusufeli, Altıparmak, 1100 m, 5.VII.1994, ♀; Bilecik: 600 m, 15.VI.1995, ♂; Erzincan: 1250 m, 18.VI.1994, ♀, 23.VI.1994, ♀, ♂, 5.VIII.1994, ♀, ♂, Pişkidağ, 8.VII.1993, ♂; Erzurum: Dutçu, 1950 m, 20.VI.1994, ♀, ♂, Güngörmez, 2500 m, 28.VII.1998, 3 ♂♂, Güzelyayla, 2200 m, 29.VIII.1992, 3 ♀♀, Palandöken, 2200 m, 1.VII.1996, ♀, 28.VII.1998, 2 ♂♂, 19.VIII.1993, 3 ♂♂, University field, 1850 m, 10.VI.1994, ♂, 29.VI.1992, 2 ♀♀, 3.VII.1992, 3 ♀♀, 16.VII.1996, ♂, 29.VII.1992, 3 ♀♀, 4 ♂♂, 15.VIII.1997, ♀, Aşkale, 1950 m, 16.VII.1999, ♀, Çat, 2260 m, 11.VIII.1994, 6 ♀♀, Ilıca, 1850 m, 30.VII.1998, 2 ♂♂, Atlıkonak, 1900 m, 12.VII.1997, ♀, Rizekent, 2200 m, 30.VII.1998, 3 ♂♂, Sorkunlu, 30.VII.1996, İspir, 1300 m, 17.VII.1992, ♂, İspir Pass, 2100 m, 13.VII.2001, ♂; Madenköprübaşı, 1100 m, 13.VII.2001, ♂, Oltu, Anzavdere, 1300 m, 3.VIII.1996, ♀, Tutmaç, 1750 m, 1.VII.2000, ♂, Olur, Süngübayır, 1750 m, 20.VII.1994, 2 ♀♀, 23.VII.1992, ♀, Pasinler, 1600 m, 15.VII.1987, ♂, ♀, Çalıyazı, 2400 m, 10.VIII.1997, ♀, Pazaryolu, 1400 m, 27.VIII.1992, ♀, Şenkaya, Turnalı, 1750 m, 28.VII.1993, ♂, 14.VIII.1998, ♀, Tortum, Pehlivanlı, 1600 m, 12.VII.1992, ♂; Kars: Digor, Karaköy, 1700 m, 22.VIII.1997, ♂, Sarıkamış, Kalebaş, 1700 m, 25.VIII.1997, 3 ♀♀, 6 ♂♂, Karakurt, 1900 m, 19.VI.2003, ♂, Yeniköy, 1950 m, 17.VII.1998, ♂; Konya: Cumra, Kuzucu, 1017 m, 20.VII.2000, ♂; Tokat: 1500 m, 19.VIII.1997, ♂.

***Chrysis fulgida* LINNAEUS 1761**

Material examined: Ankara: Çamlıdere, 30.VII.1997, ♀; Erzincan: 1250 m, 14.VI.1994, ♂; Erzurum: Pasinler, Çalıyazı, 2400 m, 10.VII.1997, ♀, ♂, Pazaryolu, 1400 m, 27.VIII.1997, ♀, Uzundere, Şelale, 1000 m, 9.VI.1996, ♂; Gümüşhane: 15.VI.1996; Konya: Çumra, 17.VIII.1998, ♀, Güneysınır, Gurağaç, 1017 m, 20.VI.1999, 2 ♀♀.

***Chrysis germari* WESMAEL 1839**

Material examined: Erzincan: 1250 m, 11.VII.1994, ♀, 5.VIII.1995, ♀.

***Chrysis graelsii* GUERIN 1842**

Material examined: Artvin: Şavşat, Karagöl, 1800 m, 8.VII.1998, ♀; Erzincan: 1250 m, 5.VII.1995, ♂; Erzurum: Palandöken, 2400 m, 1.VII.1996, ♀, 9.VII.1992, ♀, 13.VII.1994, 3 ♀♀, 19.VII.1993, ♀, 21.VII.1994, ♀, 23.VII.1996, 2 ♀♀, University field, 1850 m, 12.VI.1994, ♀, 12.VI.1990, ♀, 20.VI.1996, ♀, 8.VII.1994, 3 ♀♀, 19.VII.1992, ♀, Aşkale, 2080 m, 9.VIII.1994, 2 ♀♀, Ilıca, 2400 m, 30.VII.1998, ♀, Oltu, Çamlıbel, 1750 m, 19.VI.2003, ♂, Pazaryolu, 1400 m, 27.VIII.1997, ♀, Tortum, Şenyurt, 1500 m, 27.VI.1996, ♀; Konya: Sille, 1100 m, 10.VIII.1999, 2 ♀♀.

***Chrysis gracillima* FÖRSTER 1853**

Material examined: Erzurum: Şenkaya, Turnalı, 1750 m, 28.VII.1997, ♀.

***Chrysis grohmanni* DAHLBOM 1854**

Material examined: Erzincan: 1250 m, 18.VII.1997, ♀; Erzurum: Şenkaya, Akşar, 1300 m, 26.VII.1994, ♀; Kars: Digor, Karaköy, 1700 m, 20.VIII.1997, ♀.

***Chrysis ignita* LINNAEUS 1758**

Material examined: Erzincan: 1250 m, 5.VII.1995, ♀; Erzurum: Kargapazarı Mts., 2000 m, 22.VIII.1997, ♀, Pazaryolu, 1100 m, 3.VII.1997, ♀, Şenkaya, Timurkişla, 1400 m, 14.VIII.1998, ♀; Kars: Digor, Kalebaş, 1900 m, 20.VIII.1997, ♀.

***Chrysis inaequalis* DAHLBOM 1845**

Material examined: Erzurum: University field, 1850 m, 29.VII.1992, ♂, 4.VIII.1998, ♂, 28.VIII.1998, ♂; Rize: İkizdere, Ovit Mt. 2400-2600 m, 11.VIII.2000, ♂.

***Chrysis inaequalis sapphirina* SEMENOV 1912**

Material examined: Erzurum: Dereboğazi, 2070 m, 11.VIII.1994, ♂, University field, 1850 m, 29.VII.1992, ♂, 5.VIII.1996, ♂, 8.VIII.1993, ♂, Pasinler, Çalyazı, 2400 m, 10.VII.1997, ♂, Tortum, Pehlivanlı, 1600 m, 12.VII.1992, ♂; Kars: Sarıkamış, Kalebaş, 1900 m, 25.VIII.1997, ♂.

***Chrysis indigotea* DUFOR & PERRIS 1840**

Material examined: Erzincan: 1250 m, 14.VI.1994, ♀.

***Chrysis jaxartis* SEMENOV 1910**

Material examined: Erzurum: University field, 1850 m, 12.VI.1993, ♂, 29.VII.1992, ♂, Ilıca, Rizekent, 2200 m, 30.VII.1997, ♂, Oltu, Subatık, 1300 m, 22.VI.2000, 2♂♂, Şenkaya, Akşar, 1300 m, 26.VII.1994, ♂.

***Chrysis joppensis* BUYSSON 1887**

Material examined: Bilecik: 600 m, 15.VI.1995, 4♀♀; Erzincan: 1250 m, 14.VI.1994, 12♀♀, 23.VI.1994, 8♀♀, 6.VII.1994, 4♀♀, 18.VII.1997, 12♀♀; Erzurum: Palandöken, 2400 m, 13.VII.1994, ♀, University field, 1850 m, 8.VI.1994, ♀, 6.VII.1992, ♀, 8.VII.1997, 2♀♀, 23.VII.1996, 2♀♀, 26.VII.1997, 2♀♀; Çat, Başyazı, 1930 m, 11.VIII.1994, ♀, Ilıca, Athkonak, 2000 m, 29.VI.1999, ♀, Oltu, Aksuyayla, 1900 m, 21.VI.1997, ♀, Şenkaya, Ormanlı, 1800 m, 20.V.1994, ♀.

***Chrysis longula* ABEILLE 1879**

Material examined: Artvin: 15.VII.1997, ♀; Konya: Cumra, 16.VII.1997, ♀.

***Chrysis maculicornis* KLUG 1865**

Material examined: Erzincan: 1250 m, 14.VI.1994, 20♂♂, 23.VI.1994, 8♂♂, 11.VII.1994, 7♂♂, 18.VII.1997, 15♂♂, 5.VIII.1994, 8♂♂; Erzurum: University field, 1850 m, 28.VIII.1992, ♂, Oltu, Çamlıbel, 1750 m, 19.VII.2003, ♂; İcel: Aydıncık, 10 m, 27.VII.2005, 2♂♂; Kars: Sarıkamış, Kalebaş, 1700 m, 25.VIII.1997, 2♂♂.

***Chrysis marginata* MOCSARY 1889**

Material examined: Ankara: Beytepe, 20.VII.1994, ♀; Bilecik: 600 m, 15.VI.1995, ♀; Elazığ: Kovancılar, 1100 m, 23.VII.2003, ♂; Erzincan: 1250 m, 14.VI.1994, ♀, 18.VII.1997, ♀; Erzurum: University field, 1850 m, 12.VI.1994, ♀, Şenkaya, Akşar, 1300 m, 24.VII.1993, ♀; Malatya: Çiğlik, 1150 m, 23.VII.2005, ♂; Samsun: Çarşamba, 29.VIII.1995, ♀.

***Chrysis mediata* LINSENMAIER 1951**

Material examined: Artvin: Arhavi, Kireçli, 15.VI.1992, ♀, Yusufeli, Altıparmak,

1100 m, 5.VII.1994, ♀; Erzurum: Konaklı, 2400 m, 22.VII.2000, ♀, Pasinler, Çalıyazı, 2400 m, 10.VII.1997 2♀♀, Şenkaya, Turnalı, 1750 m, 20.VI.1997, ♀; Kars: Sarıkamış, Karakurt, 1800 m, 19.VII.1998, ♀.

Chrysis mirabilis RADOSZKOWSKI 1876

Material examined: Erzurum: Palandöken, 2400 m, 21.VI.1994, ♀, 13.VII.1993, ♀, University field, 1850 m, 7.VI.1994, ♀, 9.VI.1994, 5♀♀, 10.VI.1994, ♀, 15.VI.1996, ♀, 20.VI.1996, 2♀♀, 8.VII.1997, ♀, 12.VII.1993, ♀, 20.VII.1996, ♀, 29.VII.1992, 3♀♀, 15.VIII.1997, ♀, Öltü, Çamlıbel, 1750 m, 15.VII.1997 2♀♀; Rize: Ovit, 2300 m, 29.VII.2000, ♀, ♂.

Chrysis obtusidens DUFOUR & PERRIS 1840

Material examined: Erzincan: Üzümlü, 1300 m, 8.VII.1993, ♀; Erzurum: Dutçu, Komyolu, 1950 m, 18.VII.1999, ♀, Konaklı, 2400 m, 22.VII.2000, ♀, Köşk, 1900 m, 1.VI.1995, ♀, Palandöken, 2400 m, 21.VI.1994, ♂, University field, 1850 m, 8.VIII.1995, ♀, İspir, Madenköprübaşı, 1100 m, 18.VI.1994, ♀ Pasinler, Çalıyazı, 2400 m, 11.VII.1996, ♀, Pazaryolu, 1400 m, 3.VII.1997, ♀, Öltü, Sütkans, 1500 m, 25.VI.1996, ♀, Olur, Olgun, 1700 m, 24.VIII.1994, ♀, Şenkaya, Akşar, 1300 m, 26.VII.1994, 1.VII.1993, ♀, Tortum, Pehlivanlı, 1600 m, 12.VII.1997, ♀; Samsun: Çarşamba, 29.VIII.1995, ♀.

Chrysis profugax LINSSENMAIER 1968

Material examined: Erzurum: University field, 1850 m, 3.VII.1997, ♀.

Chrysis provenceana LINSSENMAIER 1959

Material examined: Antalya: Alimimpınarı, 1000 m, 5.VIII.1994, ♀; Bilecik: 600 m, 15.VI.1995, 4♀♀; Erzincan: 1250 m, 23.VI.1994, ♀, 6.VII.1994, 4♀♀, 11.VII.1994, 2♀♀, 14.VII.1994, 2♀♀, 16.VII.1996, ♀, 18.VII.1997, 12♀♀, 5.VIII.1995, 4♀♀, 8.VIII.1993, ♀, 10.VIII.1992, ♀, 15.VIII.1997, ♀, 18.VIII.1997, ♀; Erzurum: Dereboğazi, 2070 m, 11.VIII.1994, ♀, Dutçu, 1950 m, 20.VI.1994, ♀, University field, 1850 m, 14.VII.1993, ♀, 16.VII.1996, ♀, 19.VII.1993, ♀, 4.VIII.1998, 3♀♀, 15.VIII.1993, ♀, 10.VIII.1992, ♀, İspir, Madenköprübaşı, 1100 m, 7.VII.1996, ♀, 13.VII.2001, ♀, Öltü, Çamlıbel, 1700 m, 19.VI.2003, ♀, Pasinler, 1600 m, 24.VIII.1992, ♀, Çalıyazı, 2400 m, 10.VIII.1994, 2♀♀, Pazaryolu, 1300 m, 27.VIII.1992, ♀, Şenkaya, Turnalı, 1750 m, 28.VII.1993, ♀, 22.VIII.1998, ♀; Kars: Digor, Karaköy, 1700 m, 22.VIII.1997, ♀, Kağızman, 1100 m, 16.VI.1996, ♀, Sarıkamış, Kalebaş, 1700 m, 25.VIII.1997, 3♀♀, Konya: Çumra, Kuzucu, 1017 m, 20.VII.2000, ♀, Sille, 1350 m, 10.VIII.1999, 2♀♀; Tokat: 1500 m, 19.VIII.1997, 2♀♀.

Chrysis pseudoincisa BALTHASAR 1953

Material examined: Ankara: Haymana, 19.VIII.1997, ♀; Erzincan: 1250 m, 18.VII.1997, ♀; Erzurum: Aşkale, 1950 m, 14.VII.1999, ♀.

Chrysis pulchella SPINOLA 1808

Material examined: Artvin: Yusufeli, Altuparmak, 1100 m, 5.VII.1994, ♂; Bilecik: 600 m, 15.VI.1995, ♂, 2.VIII.1995, 3♂♂; Erzincan: 1250 m, 14.VI.1994, 3♂♂, 6.VII.1994, 7♂♂, 18.VII.1997, 2♂♂, 5.VIII.1994, 3♂♂, 18.VIII.1992, 2♂♂; Erzurum: Dutçu, Komyolu, 2400 m, 18.VII.1999, ♂, Güzelova, 2200 m, 12.VIII.1992, ♂, Konaklı, 2400 m, 22.VII.2000, ♂, Palandöken, 2400 m, 1.VII.1996, ♂, 23.VII.1996, 2♂♂, University field, 1850 m, 9.VI.1994, ♂, 10.VI.1994, ♂, 29.VI.1992, 2♂♂, 6.VII.1992, 2♂♂, 10.VII.1996, ♂, 29.VII.1992, 4♂♂, 15.VIII.1997, 3♂♂, Şenkaya, Çatalelma, 2200 m, 28.VII.1993, 2♂♂, 14.VIII.1998, ♀, Tortum, Pehlivanlı, 1600 m, 12.VII.1992, ♂; Gümüşhane: Köse, 1600 m, 10.VII.1995, 2♂♂; Kars: Digor, Karaköy, 1700 m, 22.VIII.1997, 3♂♂, Sarıkamış, Kalebaş, 1700 m, 25.VIII.1997, 6♂♂; Konya: Cumra, Dinlendik, 1015 m, 18.VIII.2005, 3♂♂.

***Chrysis ruddii* SHUCKARD 1836**

Material examined: Erzurum: Ilıca, Atlıkonak, 2000 m, 29.VII.1999, 2♂♂, Pasinler, Çahyazi, 2400 m, 10.VIII.1997, ♂, Oltu, Anzavderesi, 3.VIII.1996, ♂, Olur, 1300 m, VII.1992, 2♂♂; Kars: Sarıkamış, Karakurt, 1600 m, 23.VI.2005, ♂.

***Chrysis rutilans* OLIVIER 1790**

Material examined: Artvin: Ardanuç, Akarsu, 900 m, 7.VII.1994, ♂, Yusufeli, Altıparmak, 5.VII.1994, ♀; Bilecik: 600 m, 15.VI.1995, ♂; Erzurum: Oltu, Çamlıbel, 1700 m, 2.VII.1997, ♂, Şenkaya, Akşar, 1300 m, 14.VII.1998, ♂, Turnalı, 1750 m, 8.IX.1994, ♀, ♂, Tortum, Meydanlar, 1600 m, 24.VIII.1993, ♀, Uzunkonak, 1350 m, 12.VII.2001, ♂.

***Chrysis rutiliventris* ABEILLE 1879**

Material examined: Erzurum: Güzelyayla, 2200 m, 12.VIII.1992, ♂, Konaklı, 2000 m, 22.VII.2000, ♂, Oltu, Çamlıbel, 1750 m, 2.VII.1997, ♀, Olur, Güngöründü, 1600 m, 21.VIII.1992, ♂, Pasinler, Pelitli, 2000 m, 14.VII.1998, ♀; Rize: İkizdere, Çamlık, 29.VII.2000, ♀.

***Chrysis scutellaris* FABRICIUS 1794**

Material examined: Ankara: 23.VII.1997, ♀; Erzincan: 1250 m, 14.VI.1994, 2♀♀, 23.VI.1994, 3♀♀, 11.VIII.1994, ♀; Erzurum: Palandöken, 2400 m, 13.VII.1996, ♀, 23.VII.1996, ♀, 10.VIII.1993, 2♀♀, 3♂♂, University field, 1850 m, 14.VII.1993, ♀, 8.VIII.1995, 3♀♀, Hınıs, 1750 m, 19.VII.2001, ♀, Ilıca, Rizekent, 2200 m, 30.VII.1998, ♀, İspir, Madenköprübaşı, 1400 m, 28.VIII.1992, ♀, Pasinler, Büyükdere, 1900 m, 10.VIII.1994, ♀; Kars: Digor, 1900 m, 22.VIII.1997, 3♀♀, Sarıkamış, Kalebaş, 1700 m, 25.VIII.1997, 6♀♀, Yeniköy, 1950 m, 17.VII.1998, ♀; Konya: Cumra, Dinlendik, 1015 m, 18.VIII.2005, 2♀♀; Tokat: 900 m, 19.VIII.1997, ♀.

***Chrysis separata* (TRAUTMANN 1926)**

Material examined: Erzincan: 1250 m, 14.VI.1994, ♀, 23.VI.1994, ♀, 18.VII.1997, ♀; Erzurum: Güzelova, 2200 m, 12.VIII.1998, 3♀♀, University field, 1850 m, 8.VII.1997, ♀, 29.VII.1997, ♀, 10.VIII.1992, ♀.

***Chrysis sexdentata* CHRIST 1791**

Material examined: Erzurum: İspir, Madenköprübaşı, 1100 m, 7.VII.1996, ♀, Oltu, Sütkans, 1500 m, 25.VI.1996, ♀, Şenkaya, Akşar, 1300 m, 26.VII.1994, 3♀♀, Uzundere, Şelale, 1000 m, 9.VI.1996, ♂, Kars: Digor, Karaköy, 1700 m, 22.VIII.1997, ♀.

***Chrysis splendidula* ROSSI 1790**

Material examined: Erzincan: 1250 m, 11.VII.1994, ♂.

***Chrysis soror* DAHLBOM 1854**

Material examined: Bilecik: 600 m, 15.VI.1995, ♀; Erzincan: 1250 m, 14.VI.1996, 5♀♀, 23.VI.1994, 2♀♀, 6.VII.1994, 3♀♀, 18.VII.1997, 3♀♀, 5.VIII.1994, 2♀♀; Erzurum: Güzelyayla, 2200 m, 29.VIII.1992, 3♀♀, University field, 1850 m, 20.VI.1996, ♀, 29.VI.1992, 2♀♀, 6.VII.1992, 3♀♀, 23.VII.1992, ♂, 23.VII.1997, ♀, 29.VII.1992, ♂, 4.VIII.1998, ♀, 5.VIII.1996, ♀, 8.VIII.1994, 8.VIII.1995, ♀, 11.VIII.1993, ♀, Aşkale, Pınakapan, 1700 m, 9.VIII.1994, ♂, Pasinler, 11.VIII.1992, ♀; Kars: Digor, Kalebaş, 1900 m, 22.VIII.1997, 6♀♀.

***Chrysis subsinuata fallax* MOCSARY 1882**

Material examined: Erzincan: 14.VI.1994, 2♀♀, 11.VII.1994, ♀; 18.VII.1997, 2♀♀; Erzurum: İspir, Madenköprübaşı, 1100 m, 18.VI.1994, 2♀♀, Oltu, Sütkans, 1500 m, 18.VI.1996, ♂, 25.VI.1996, ♀, Olur, Süngübayır, 1850 m, 20.VII.1994, ♀.

***Chrysis succincta* LINNÉ 1767**

Material examined: Erzincan: 1250 m, 11.VII.1994, ♀; 5.VIII.1995, ♂; Erzurum: Ilıca, Atlıkonak, 2000 m, 29.VI.1999, ♀, Aşkale, 1800 m, 16.VII.1999, ♂, İspir, 1100 m, 17.VII.1992, ♂; Kars: Sarıkamış, Kalebaşı, 1900 m, 25.VIII.1997, ♂.

***Chrysis taczanowski* RADOSZKOWSKI 1876**

Material examined: Adana: Kozan, 5.VIII.1997, ♀, 29.VIII.1998, ♀; Antalya: Manavgat, 10.VII.1996, ♀; Aydın: Çine, 24.VIII.1994, ♀.

***Chrysis valida* MOCSARY 1912**

Material examined: Artvin: Ardanuç, Ferhatlı, 13.V.2000, ♂; Erzurum: Konaklı, 2400 m, 11.VII.2003, ♂, Oltu, Çamlıbel, 1750 m, 2.VII.1997, ♂, Şenkaya, Akşar, 1100 m, 20.VII.1994, ♂, Turnalı, 1750 m, 22.VI.2003, 7♂♂.

***Chrysis viridissima fasciolata* KLUG 1845**

Material examined: İğdir: 600 m, 10.VII.1997, 7♀♀, 10.VIII.1992, 3♀♀.

Genus *Chrysidea* BISCHOFF 1913***Chrysidea pumila* (KLUG 1845)**

Material examined: Erzincan: 1250 m, 11.VII.1994, ♂; Erzurum: University field, 1850 m, 5.VIII.1996, ♀, Oltu, Anzavderesi, 3.VIII.1996, ♀, Çamlıbel, 1750 m, 19.VI.2003, ♀, 2.VII.1997, ♀, Şenkaya, Gaziler, Çakırbaba, 2450 m, 12.VII.2005, ♀.

Genus *Chrysura* DAHLBOM 1845***Chrysura austriaca* (FABRICIUS 1804)**

Material examined: Erzincan: Üzümlü, 1350 m, 8.VII.1993, ♀.

***Chrysura cuprea* ROSSI 1790**

Material examined: Artvin: Kafkasör, 1892 m, 5.VIII.2005, ♀; Bilecik: 600 m, 15.VI.1995, 2♀♀, 2.VII.1995, ♀; Erzincan: Üzümlü, 1350 m, 16.VI.1996, ♀; Erzurum: Umudum Plateau, 2100 m, 26.VI.2003, ♀, Güngörmez, 2500 m, 28.VII.1998, ♀, Palandöken, 2400 m, 7.VII.1996, ♀, 13.VII.1994, 2♀♀, 19.VII.1993, 3♀♀, 23.VII.1997, ♀, University field, 1850 m, 13.VI.1994, ♀, 6.VII.1992, 2♀♀, 10.VIII.1993, 3♀♀, 17.VIII.1992, ♀, Aşkale, 2080 m, 2.VIII.1994, ♀, Ortabahçe, 1960 m, 4.VII.2005, ♂, Ilıca, Atlıkonak, 29.VI.1999, ♀, İspir, 18.VI.1996, ♀, Oltu, Ballica, 1400 m, 14.V.1997, ♀, Akkoyunlu, 1900 m, 21.VI.1997, ♀, Olur, Oğuzkent, 1700 m, 23.VIII.1992, ♀, Pasinler, Çalıyazı, 2400 m, 13.VI.1996, ♀, Şenkaya, Gaziler, Çakırbaba, Soğanlı Mt., 2400 m, 13.VIII.1998, 2♀♀, Tortum, 1600 m, 27.VII.1998, ♀, Kaledibi, 1600 m, 5.VIII.1998, ♀; İzmir: Selçuk, Efes, 5.V.1998, ♀; Kars: Sarıkamış, 1900 m, 17.VIII.1998, ♀; İçel: Tarsus, Çamlıyayla, 25.V.1992, ♀; Sivas: Türkeşlik, 1700 m, 10.VI.1999, 14♀♀.

***Chrysura ciscirtana* LINSEMAIER 1959**

Material examined: Ankara: Haymana, 20.VIII.1998, ♀; Bilecik: 600 m, 15.VI.1995, 3♀♀; Diyarbakır: Silvan, 600 m, 17.IV.1995, ♀; Erzincan: 1250 m, 14.VI.1994, ♀; Erzurum: Arıbahçe, 2400 m, 20.VII.2001, ♀, University field, 1850 m, 29.VII.1992, ♀, Çat, 2260 m, 11.VIII.1994, 2♀♀, Ilıca, Atlıkonak, 2000 m, 29.VI.1999, ♀, Olur, Süngübayır, 1750 m, 20.VIII.1992, 3♀♀; Tokat: 900 m, 19.VIII.1992, ♀.

***Chrysura dichroa* (DAHLBOM 1854)**

Material examined: Bilecik: 600 m, 15.VII.1995, ♀, 2.VII.1995, ♀; Erzincan: 1250 m, 14.VI.1994, 5♀♀, 6.VII.1995, ♀, 11.VII.1994, ♀; Erzurum: Konaklı, 2400 m, 22.VII.2000, ♀, Palandöken, 2400 m, 13.VII.1994, ♀, University field, 1850 m, 12.VI.1994, 2♀♀, 3.VII.1992, Çat, 2260 m, 11.VIII.1994, ♀, Ilıca, Atlıkonak, 2000 m, 11.VI.2000, ♀, 29.VI.1999, ♀, İspir, Madenköprübaşı, 1100 m, 28.VIII.1992, ♀, Oltu, Çamlıbel, 1700 m, 12.VIII.1998, ♀.

***Chrysura erigone* MOCSARY 1889**

Material examined: Antalya: Belkız, 3.VIII.1992, ♀; Erzincan: 1250 m, 14.VI.1994, 23♀♀, 23.VI.1994, 8♀♀, 6.VII.1994, ♀, 11.VII.1994, 2♀♀, 18.VII.1997, 2♀♀, 5.VIII.1995, ♀; Erzurum: University field, 1850 m, 12.VI.1994, ♀; Kars: Digor, Karaköy, 1700 m, 22.VIII.1997, ♀.

***Chrysura ignifrons* (BRULLÉ 1833)**

Material examined: Erzurum: Dutçu, 1950 m, 20.VI.1994, ♂, Palandöken, 2400 m, 23.VII.1997, 4♀♀, University field, 1850 m, 12.VI.1994, ♀, ♂, 2.VII.1992, 2♀♀, 20.VII.1993, 3♀♀, 29.VII.1992, 2♀♀, Hıms, Söylemez, 1750 m, 28.VI.2005, ♀, Pasinler, Çalıyazı, 2400 m, 10.VII.1997, ♂, Şenkaya, Turnalı, 1750 m, 20.VI.1997, ♀.

***Chrysura lydiae* (MOCSARY 1889)**

Material examined: Erzincan: 1250 m, 14.VI.1994, 4♂♂, 6.VII.1995, ♂; Erzurum: Oltu, Sütkans, 1500 m, 25.VI.1996, ♂.

***Chrysura progaster* (BRULLÉ 1833)**

Material examined: Erzincan: Üzümlü, 8.VII.1993, ♀; Erzurum: Köşk, 20.VI.1996, ♀, ♂, 1.VII.1996, ♂, Umudum Plateau, 2100 m, 26.VI.2003, ♀, Oltu, Başaklı, 1750 m, 15.VI.1994, 3♀♀, Çamlıbel, 1700 m, 2.VII.1997, 5♀♀, Sütkans, 1500 m, 18.VI.1996, 3♀♀, 25.VI.1996, 5♀♀, Olur, 1300 m, 22.VII.1992, ♀, Tortum, Alapınar, 1650, 19.VI.2003, ♀, Pehlivanlı, 1600 m, 12.VII.1997, 3♀♀, Uzundere, Dikyar, 1100 m, 2.VII.1994, ♀, Gölbaşı, 27.VI.200, ♀; Kars: Sarıkamış, Karakurt, 1600 m, 23.VI.2005, ♀.

***Chrysura radians* (HARRIS 1776)**

= *Ch. pustulosa* ABEILLE 1878

Material examined: Hatay: 21.VIII.1993, ♂.

***Chrysura refulgens* (SPINOLA 1806)**

Material examined: Artvin: Ardanuç, Akarsu, 900 m, 7.VII.1994, 6♂♂, Yusufeli, Kınalıçam, 800 m, 7.VII.1994, ♂; Diyarbakır: Silvan, 600 m, 17.IV.1995, 2♀♀; Erzurum: Köşk, 1900 m, 20.VI.1996, ♂, İspir, Madenköprübaşı, 1100 m, 18.VI.1994, 2♂♂, Oltu, Sütkans, 1400 m, 7.VII.1998, ♂, Pasinler, Çalıyazı, 2400 m, 10.VII.1997, ♂, Pazaryolu, 1200 m, 18.VI.1994, ♂, Şenkaya, İçmesu, 1800 m, 24.VI.1999, 2♂♂, Tortum, Pehlivanlı, 1600 m, 12.VII.1997, ♂, Uzunkonak, 1350 m, 12.VII.2001, ♂, Uzundere, Dikyar, 1200 m, 2.VII.1994, 2♂♂.

***Chrysura simplex* (DAHLBOM 1854)**

Material examined: Erzurum: İspir, Madenköprübaşı, 1300 m, 7.VII.1996, ♀, 17.VII.1992, ♀.

***Chrysura sulcata* (DAHLBOM 1845)**

Material examined: Erzincan: 1250 m, 14.VI.1994, ♀, 23.VI.1994, ♀, 6.VIII.1997,

15 ♀♀, 11.VII.1997, 2 ♀♀, 18.VII.1997, ♀; Erzurum: Narman, Mahmutçavuş, 1500 m, 8.VIII.1997, ♀; Kars: Digor, Kalebaş, 1900 m, 22.VIII.1997, ♀, Sarıkamış, Karakurt, 1750 m, 2.V.2000, ♀.

Genus *Pentachrysis* LICHTENSTEIN 1876

***Pentachrysis seminigra* (WALKER 1790)**

Material examined: Erzincan: Üzümlü, 1350 m, 3.VIII.1993, ♀.

Genus *Pseudospinolia* LINSENMAIER 1951

***Pseudospinolia humboldti* (DAHLBOM 1845)**

Material examined: Erzincan: 1250 m, 23.VI.1994, ♂, 11.VII.1997, ♂; Erzurum: University field, 1850 m, 29.VII.1992, 2 ♂♂.

***Pseudospinolia marqueti* (BUYSSON 1876)**

Material examined: Erzurum: Palandöken, 2400 m, 2.VII.1994, ♂, Olur, Süngübayır, 1750 m, 20.VII.1994, 2 ♂♂, 23.VII.1992, ♂, Şenkaya, Akşar, 1300 m, 9.VII.2000, ♂.

***Pseudospinolia uniformis* (DAHLBOM 1854)**

Material examined: Bilecik: 15.VI.1995, ♂; Erzurum: Köşk, 1900 m, 20.VI.1996, ♂, Palandöken, 2400 m, 21.VI.1994, ♂, 13.VII.1994, ♂, University field, 1850 m, 10.VI.1994, ♂, 30.VI.1992, ♂, 1.VII.1992, ♂, Oltu, Başaklı, 1700 m, 18.VII.1992, ♂.

Genus *Spinolia* DAHLBOM 1854

***Spinolia dournovi* RADOSZKOWSKI 1866**

Material examined: Erzurum: Köşk, 2000 m, 14.VII.1992, ♂, Hamamderesi, 19.VIII.1992, ♀, Palandöken, 2400 m, 1.VII.1996, ♂, 13.VII.1992, ♀, 28.VII.1992, ♀, Umudum Plateau, 2300 m, 16.VII.2003, 2 ♂♂, University field, 1850 m, 25.VI.1992, ♂, 29.VI.1992, ♀.

Genus *Trichrysis* DAHLBOM 1854

***Trichrysis cyanea* (LINNAEUS 1758)**

Material examined: Artvin: Borçka, Karagöl, 1050 m, 8.VII.1994, ♂, Yusufeli, Altıparmak, 1100 m, 5.VII.1994, ♀; Bilecik: 600 m, 15.VII.1995, 2 ♂♂; Erzincan: 1250 m, 11.VII.1994, 2 ♀♀; Erzurum: Himis, Söylemez, 1750 m, 28.VI.2005, ♀, Oltu, Çamlıbel, 1700 m, 19.VI.2003, ♂, Olur, Süngübayır, 1850 m, 30.VII.1999, ♂, Şenkaya, Turnalı, 1750 m, 20.VI.1997, ♂, Tortum, Bağbaşı, 1650 m, 30.VIII.1992, ♂; Kars: Sarıkamış, 1900 m, 23.VI.2005, ♀.

Genus *Spintaria* SEMENOV 1892

***Spintaria vagans* (RADOSZKOWSKI 1887)**

Material examined: Bilecik: 600 m, 15.VIII.1995, ♀, ♂; Erzincan: 1250 m, 14.VI.1994, ♀, 23.VI.1994, ♀, 6.VIII.1997, 15 ♀♀, 11.VII.1997, 2 ♀♀, 18.VII.1997, ♀; Erzurum: Aşkale, 1950 m, 16.VII.1999, ♂, Narman, Mahmutçavuş, 1500 m, 8.VIII.1997, ♀; Kars: Digor, Kalebaş, 1900 m, 22.VIII.1997, ♀, Sarıkamış, Karakurt, 1750 m, 2.V.2000, ♀; Tokat: 900 m, 19.VIII.1992, 3 ♂♂.

Genus *Stilbum* SPINOLA 1806***Stilbum calens* (FABRICIUS 1781)**

Material examined: Erzurum: University field, 1850 m, 8.VII.1995, ♀, Oltu, Anzavderesi, 31.VIII.1992, 2♀♀, Kurupinar, 30.VIII.1992, ♀, Sütkans, 1650 m, 25.VI.1996, ♀, Şenkaya, Akşar, 22.VIII.1997, 2♀♀, Gaziler, Çakırbaba, Soğanlı Mt. 2450 m, 13.VIII.1998, 3♀♀, Sarıkayalar, 21.VIII.1997, ♀.

***Stilbum cyanurum* (FÖRSTER 1771)**

Material examined: Antalya: Manavgat, 30.VIII.1994, 2♂♂; Erzincan: Kemaliye, 950 m, 29.IX.1999, ♀; Erzurum: Şenkaya, Akşar, 1300 m, 22.VIII.1997, ♀, Turnalı, 1750 m, 8.VIII.1997, ♂; İzmir: Menemen, 2.VII.1992, ♂; Trabzon: 12.VII.1998, ♀.

Genus *Euchroeus* LATREILLE 1809***Euchroeus purpuratus consularis* BUYSSON 1896**

Material examined: Erzurum: Palandöken, 2400 m, 1.VII.1996, ♀, University field, 1850 m, 29.VII.1992, ♀, Pasinler, 13.VIII.1992, ♀, Tortum, Meydanlar, 1700 m, 24.VIII.1993, ♀, Şenkaya, Gaziler, Çakırbaba, Soğanlı Mt, 2450 m, 13.VIII.1998, 4♀♀.

***Euchroeus limbatus* (DAHLBOM 1854)**

Material examined: Erzurum: Dereboğazi, 2070 m, 11.VIII.1994, ♀.

Tribe *Parnopini***Genus *Parnopes* LATREILLE 1796*****Parnopes grandior* (PALLAS 1771)**

Material examined: Artvin: Ardanuç, Akarsu, 900 m, 7.VII.1994, ♂, Yusufeli, Sarıgöl, 450 m, 6.VII.1994, ♂; Erzurum: Tortum, Aşağı Meydanlar, 1750 m, 7.VIII.1996, ♀.

Zusammenfassung

Die Arbeit behandelt Aufsammlungen von Chrysidinae, die im Zeitraum 1987 bis 2005 an verschiedenen Fundorten innerhalb der Türkei durchgeführt wurden. 77 Arten aus 11 Gattungen konnten für die Türkei nachgewiesen werden.

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