

## MASARIDAE (HYMENOPTERA, VESPOIDEA) OF TURKEY

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**SUMMARY:** *This study is based upon material collected from different localities of Turkey between 1976-1996, and the other related studies are reviewed.*

*In this study, 15 species and subspecies belonged to 4 genera in the subfamily Masarinae are recorded. The type localities of 4 species and 2 subspecies are in Turkey. Some new localities are found for some species which have already been reported in Turkey.*

### TÜRKİYE'NİN MASARIDAE (HYMENOPTERA, VESPOIDEA) TÜRLERİ

**ÖZET:** *Bu çalışmada, Türkiye'nin değişik yörelerinden 1976-1996 yıllarında toplanan Masaridae örnekleri ile bu konuda bugüne kadar Türkiye'de yapılan çalışmalarda tespit edilen tür ve alttürler değerlendirilmeye alınmış ve sonuçta Masarinae ailesine ait 4 cinse bağlı 15 tür ve alttürün bulunduğu tespit edilmiştir. Bunlardan, 4 tür ve 2 alttürün tip lokalitelerinin Türkiye olduğu görülmüştür. Ayrıca, daha önce Türkiye'de bulunduğu belirtilen türlerin çoğu için yeni lokaliteler tespit edilmiştir.*

### INTRODUCTION

The family Masaridae known as pollen wasps derived into two subfamilies, Euparagiinae and Masarinae (Borror et al.,1981). Euparagiinae includes 9 species in one genus and distributed in only southwestern nearctic region, Masarinae has about 250 species in 19 genera and distributed in Australia, southern Africa, Neotropics, U.S.A. and Mediterranean regions (Carpenter, 1991).

Masarinae make nests of mud or sand attached to rocks or twigs and provision their nests with pollen and nectar; Euparagiinae constructs nests in ground with a curved turred at the surface and provision their nests with weevil larvae (Borror et al.,1981).

Richards (1962), Gusenleitner (1966, 1967, 1973, 1988, 1992) and Bytinski-Salz and Gusenleitner (1971) recorded and described several new species and subspecies from Turkey.

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## MATERIAL AND METHOD

The material of the family Masaridae was collected from different localities of Turkey in 1976-1996. Flowered plants were monitored for visits by wasps and then they were swepted by insect net through vegetation.

## RESULTS

15 species and subspecies of 4 genera in the subfamily Masarinae of Masaridae were reported in Turkey.

### MASARINAE

*Celonites* Latreille, 1802

*C. abbreviatus abbreviatus* (Villers, 1789)

**Material examined:** BAYBURT: Demirözü, ♀, 23.VI.1994, Leg.E.Yıldırım; ERZURUM: Palandöken, 2400m, ♀, 16.VII.1987, Leg.H.Özbek; ♀, 17.VII.1990, Leg.E.Yıldırım; Umudum Yaylası, 2100m, ♀, 8.VIII.1991, Leg.E.Yıldırım, ♀, Oltu, Çamlıbel, 1700m, 14.VII.1996, Leg. E. Yıldırım, Tortum, Aşağı Katıklı, 1500m, ♀, 26.VII.1990, Leg.E.Yıldırım, Pehlivanlı, 1550m, ♀, 29.VI.1990, Leg.E.Yıldırım, ♀, Uzundere, Dikyar, 8.IX.1996, Leg. İ. Aslan.

**Distribution in Turkey:** İçel (Mut) (Gusenleitner, 1967).

**Distribution in the world:** Israel (Bytinski-Salz and Gusenleitner, 1971), South France, South Germany, Switzerland, Italy, Corfu (Richards, 1962).

*C. abbreviatus invitus* Gusenleitner, 1973

**Type localities:** Sivas (Gürün), İçel (Mut, Sertavul Pass) (Gusenleitner, 1973).

**Distribution in Turkey:** Sivas (Gürün), İçel (Mut, Sertavul Pass) (Gusenleitner, 1973).

**Distribution in the world:** Armenia (Gusenleitner, 1973).

*C. cyprius smyrnensis* Richards, 1962

**Type localities:** İzmir (Bornova); Israel (Jerusalem) (Richards, 1962; Bytinski-Salz and Gusenleitner, 1971).

**Material examined:** BİLECİK: 600m, 25 ♀♀, 2 ♂♂, 15.VII.1995, Leg.E.Yıldırım; ERZİNCAN: 1250m, ♀, 23.VI.1994, Leg.E.Yıldırım.

**Distribution in Turkey:** Hatay (Gusenleitner, 1966), İzmir (Bornova) (Richards, 1962; Bytinski-Salz and Gusenleitner, 1971).

**Distribution in the world:** Israel, Lebanon, Cyprus (Richards, 1962; Bytinski-Salz and Gusenleitner, 1971); Iran, Armenia (Gusenleitner, 1973); Greece, Europa (Gusenleitner, 1992).

*C. foveolatus nigrior* Richards, 1962

**Distribution in Turkey:** Hakkari (Gusenleitner, 1992).

**Distribution in the world:** Israel (Richards, 1962; Bytinski-Salz and Gusenleitner, 1971).

*C. hammani* Gusenleitner, 1973

**Type localities:** İçel (Mut) (Gusenleitner, 1973).

**Distribution in Turkey:** İçel (Mut) (Gusenleitner, 1973).

**Distribution in the world:** Jordan (Gusenleitner, 1992).

*C. phlomis* Gusenleitner, 1973

**Type localities:** Şanlıurfa (Gusenleitner, 1973).

**Distribution in Turkey:** Şanlıurfa (Gusenleitner, 1973).

**Distribution in the world:** Turkey (Gusenleitner, 1973).

*C. rugiceps* Bischoff, 1928

**Material examined:** ANTALYA: Belkız, ♂, 3.VIII.1994, Leg.H.Özbek.

**Distribution in Turkey:** İzmir (Richards, 1962).

**Distribution in the world:** Cyprus, Yugoslavia, Greece (Richards, 1962)

*C. spinosus* Gusenleitner, 1966

**Type localities:** Aydın (Kuşadası), Çardak, İzmir, İçel (Mut) (Gusenleitner, 1966).

**Material examined:** İZMİR: Menemen, Tar.Arş.Ens., 13 ♀♀, 2.VII.1992, Leg.H.Özbek; TOKAT: 900m, ♀, 19.VIII.1992, Leg.E.Yıldırım.

**Distribution in Turkey:** Aydın (Kuşadası), Çardak, İzmir, İçel (Mut) (Gusenleitner, 1966); Denizli (Pamukkale) (Gusenleitner, 1967); İzmir, Şanlıurfa, İçel (Mut) (Gusenleitner, 1973).

**Distribution in the world:** Turkey (Gusenleitner, 1966, 1967, 1973).

*Ceramius* Latreille, 1810

*C. bureschi* Atannasov, 1938

**Synonym:** *C. bureschi lycaonis* Blüthgen, 1952 (Richards, 1962).

**Material examined:** ANKARA: ♀♂, 15.VII.1993, Leg.E.Yıldırım.

**Distribution in Turkey:** Konya (Akşehir) (Richards, 1962); İçel (Mut) (Gusenleitner, 1966); Konya, İçel (Mut) (Gusenleitner, 1973).

**Distribution in the world:** Greece (Richards, 1962).

*C. caucasicus* Andre, 1884

**Material examined:** BAYBURT: Demirözü, 3 ♂♂, 17.VII.1991, Leg.E.Yıldırım; ♀, 20.VIII.1991, Leg.E.Yıldırım; Kop Dağı, ♂, 10.VIII.1991, Leg.E.Yıldırım; ERZURUM: 2 ♂♂, 5.VII.1977, Leg.H.Özbek; ♂, 9.VII.1976, Leg.H.Özbek; Güngörmez, 2 ♂♂, 4.VIII.1990, Leg.E.Yıldırım; Palandöken, 2200m, ♀, 28.VII.1990, Leg.E.Yıldırım; ♀, 15.VIII.1978, Leg.H.Özbek; Umudum Yaylası, ♀, 8.VII.1992, Leg.E.Yıldırım; ♂,

13.VII.1991, Leg.E.Yıldırım; Üniversite, 4 ♂♂, 29.VI.1989, Leg.E.Yıldırım; ♂, 1.VII.1992, Leg.E.Yıldırım; 6 ♀♀, 15 ♂♂, 12.VII.1993, Leg.E.Yıldırım; 2 ♀♀, 29.VII.1992, Leg.E.Yıldırım; 10 ♀♀, 10.VIII.1992, Leg.E.Yıldırım; 14 ♂♂, 15.VIII.1993, Leg.E.Yıldırım; İspir, Madenköprübaşı, 1100m, ♀, 5 ♂♂, 18.VI.1994, Leg.E.Yıldırım; Pasinler, Karakoç, ♀, 6.VII.1982, Leg.H.Özbek; ♀, 5 ♂♂, Rabat, 11.VII.1996, Leg. E.Yıldırım, Oltu, ♂, 4.VII.1976, Leg.H.Özbek; ♂, Aksuyayla, 2250 m, 14.VII.1996, Leg. E.Yıldırım, Olur, Süngübayır, ♀, 8.VII.1990, Leg. İ.Aslan; Şenkaya, Turnalı, ♀, 26.V.1991, Leg.E.Yıldırım; ♂, 1.VII.1990, Leg.E.Yıldırım; ♂, ♀, 5.VIII.1988, Leg.E.Yıldırım; Tortum, Meydanlar, ♂, 4.VII.1991, Leg.E.Yıldırım; Kaledibi, ♂, 5.VII.1992, Leg.E.Yıldırım; Pehlivanlı, ♂, 12.VII.1992, Leg.E.Yıldırım; HAKKARİ: Dez Vadisi, ♀, 19.VII.1992, Leg.H.Özbek; KARS: Sarkamış, Isısu, 4 ♂♂, 7.VII.1991, Leg.E.Yıldırım.

**Distribution in Turkey:** Amasya (Richards, 1962); Konya (Beyşehir, Bulga-Maden) (Gusenleitner, 1966); Konya (Beyşehir) (Gusenleitner, 1967); Konya, İçel (Mut, Sertavul), Nevşehir (Ürgüp) (Gusenleitner, 1973).

**Distribution in the world:** Armenia (Richards, 1962); Iran (Gusenleitner, 1973).

*C. palestinesis* Giordani Soika, 1957

**Distribution in Turkey:** Turkey (Karadağ) (Gusenleitner, 1992).

**Distribution in the world:** Israel (Bytinski-Salz and Gusenleitner, 1971).

*Jugurtia* Saussure, 1854

*J. esclerae* Meade-Waldo, 1910

**Distribution in Turkey:** Hakkari (Beytüşşebap) (Gusenleitner, 1988); Hakkari (Şemdinli), Van (Gusenleitner, 1992).

**Distribution in the world:** Iran (Richards, 1962).

*J. eurycara* Kostylev, 1935

**Distribution in Turkey:** Ereğli, Hakkari (Yüksekova, Beytüşşebap), Karaman, Sivas (Gürün) (Gusenleitner, 1988); Hakkari (Esendere, Yüksekova) (Gusenleitner, 1992).

**Distribution in the world:** Armenia (Richards, 1962; Gusenleitner, 1988, 1992), Iran (Gusenleitner, 1973),

*Quartinia* Andre, 1884

*Q. orientalis* Gusenleitner, 1973

**Type localities:** Nevşehir (Ürgüp, Göreme) (Gusenleitner, 1973).

**Distribution in Turkey:** Nevşehir (Ürgüp, Göreme) (Gusenleitner, 1973).

**Distribution in the world:** Afghanistan (Gusenleitner, 1973)

*Q. araxana* Giordani Soika, 1960

**Synonym:** *Quartinia soikai* Richards, 1962 (Gusenleitner, 1973).

**Distribution in Turkey:** Ankara (Richards, 1962); Konya, İçel (Mut, Sertavul Pass), Nevşehir (Ürgüp, Göreme) (Gusenleitner, 1973).

**Distribution in the world:** Armenia (Gusenleitner, 1973).

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