

New Contributions to the Ichneumoninae (Hymenoptera, Ichneumonidae) from Turkey

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ABSTRACT

In this study new distributional records of 63 species of the subfamily Ichneumoninae (Hymenoptera, Ichneumonidae) are given from Turkey, 22 of them (*Aethecerus exilis* Wesmael, *Baeosemus mitigosus* (Gravenhorst), *Diadromus pulchellus* Wesmael, *Dicaelotus erythrostoma* Wesmael, *Dicaelotus rufiventris* (Berthoumieu), *Heterischnus bicolorator* (Aubert), *Heterischnus coxator* (Thomson), *Heterischnus filiformis* (Gravenhorst), *Heterischnus nigricollis* (Wesmael), *Heterischnus pictipes* (Kriechbaumer), *Heterischnus pulex* (Müller), *Tycherus fuscicornis fuscicornis* (Wesmael) *Tycherus opthalmicus opthalmicus* (Wesmael), *Coelichneumon moestus* (Gravenhorst), *Barichneumon vicarius* (Wesmael), *Barichneumon peregrinator* (Linnaeus), *Cratichneumon rufifrons* (Gravenhorst), *Ctenichneumon devylderi* (Holmgren), *Ctenichneumon tauricus* (Kriechbaumer), *Limerodes arctiventris* (Schiodt), *Rictichneumon pachymerus* (Hartig), *Triptognathus rubrocinctus* (Lucas), are new for the Turkish fauna. The number of known Turkish Ichneumoninae has increased to 237 species.

Key words: Ichneumoninae, Ichneumonidae, new record, Turkey.

INTRODUCTION

The ichneumonids are one of the most important parasitic insects and also one of the largest in the Insecta (Gauld, 2002). Ichneumonidae present a number of biological and behavioral features resulting from the forms life of special interest. Because of the abundance of species, their wide distribution, and their importance in natural control of many leading crop pests, they have been extensively studied and a vast literature is available (Yu *et al.*, 2012).

But despite their abundance and important role in ecosystems and as biological pest control, the taxonomy, ecology, and distribution of many groups of Ichneumonidae still remain incompletely known (Quicke, 2015).

The Ichneumoninae is the second largest subfamily of Ichneumonidae with about 424 genera and 4300 species (Yu *et al.*, 2012) Up to 1995 (Kolarov, 1995), only 65 ichneumonine species belonging to 27 genera have been documented. Although the Ichneumoninae fauna of Turkey has been studied extensively in the last years, the biodiversity of Turkey is still incompletely known. After 1995, with the below mentioned contributions (Özdemir, 1996; Kolarov *et al.*, 1997; Yurtcan *et al.*, 1999; Çoruh *et al.*,

2002; Kolarov *et al.*, 2002; Özbek *et al.*, 2003; Çoruh *et al.*, 2005; Kolarov, 2007; Çoruh and Özbek, 2008; Çoruh and Kesdek, 2008; Riedel, 2008; Gürbüz *et al.*, 2008; Yurtcan and Okyar, 2008; Riedel *et al.*, 2010; Çoruh *et al.*, 2011; Eroğlu *et al.*, 2011; Riedel *et al.*, 2011; Çoruh *et al.*, 2011; Çoruh and Özbek, 2013; Çoruh *et al.*, 2014; Kolarov *et al.* 2014a,b, Özdan, 2014; Çoruh, 2017) the numbers of Ichneumoninae fauna of Turkey reached to 215 species and 61 genera.

The aim of this study is to present the complete records of preserved material in order to improve knowledge about diversity of this important group in Turkey.

MATERIAL AND METHODS

The material of Ichneumoninae was collected in different localities (Erzurum, Erzincan, Ardahan, Isparta, Kars, Rize, Iğdır, Artvin, Bayburt, Bolu, Diyarbakır, Ankara, Giresun, Trabzon, Hakkari, Kayseri, Sivas, Antalya, Antakya, Ağrı, Konya, Bolu) in Turkey (Fig. 1). The materials were collected from different flowering plants by using a standart sweeping net. Besides, malasia traps were set in some localities (Kars, Sarıkamış, Karakurt) and caught in this way. General distributions of the species were taken from Yu *et al.* (2012). In this study, all identifications of Phaeogenini were done by E. Diller, the other groups were determined by M. Riedel. All specimens were deposited at the following museums:

Abbreviation of institutions

EDI-National Museums of Scotland, Edinburgh/Scotland,
EMET-University of Atatürk, Erzurum/Turkey,
NHM-Natural History Museum, London/England,
ZSM-Zoologische Staatssammlung München/Germany

RESULTS

Tribe: Phaeogenini Förster, 1869

Genus: *Aethecerus* Wesmael, 1845

Aethecerus exilis Wesmael, 1848

Material examined: Erzurum, Hınıs, 1750 m, 19.07.2011, 1♂, leg. S. Çoruh (EMET).

Distribution: Europe, new for Turkey.

Genus: *Baeosemus* Forster, 1869

Baeosemus mitigosus (Gravenhorst, 1829)

Material examined: Erzurum, Güngörmez, Dumlubaba, 2500 m, 01.07.2010, 1♂, leg. E. Yıldırım (EMET).

Distribution: Palearctic region, new for Turkey.

***Diadromus subtilicornis* (Gravenhorst, 1829)**

Material examined: Ardahan, 2015 m, 17.07.2004, 1♀, leg. S. Çoruh (EMET).

Distribution: Holarctic region, known from Turkey (Özdemir, 1996; Özbek *et al.*, 2003; Çoruh *et al.*, 2014).

Genus: *Dicaelotus* Wesmael, 1844***Dicaelotus erythrostoma* Wesmael, 1845**

Material examined: Erzurum, Konaklı, 2000-2400 m, 22.07.2000, 1♂, leg. S. Pekel (Çoruh) (EMET), Güngörmez, Dumlubaba, 2500 m, 1.07.2010, 1♂, leg. E. Yıldırım (EMET), Abdurrahman Gazi Türbesi, 2400 m, 8.07.2004, 1♂, leg. O. Kaya (EMET).

Distribution: Europe, new for Turkey.

***Dicaelotus morosator* Aubert, 1969**

Material examined: Erzincan, Gülkaymak, 1200 m, 25.05.2001, 2♂♂, leg. R. Hayat (EMET). Erzurum, Umudum Yaylası, 2100 m, 26.06.2003, 1♂, leg. E. Yıldırım (EMET). Kars, Sarıkamış, Karakurt, 10-19. VI.2003, 1♂, leg. H. Özbek (EMET).

Distribution: Western Palearctic region, known from Turkey (Kolarov, 1995).

***Dicaelotus rufiventris* (Berthoumieu, 1899)**

Material examined: Erzincan, Bahçeli, 1350 m, 28.05.2001, 2♂♂, leg. Ö. Çalmaşur (EMET), Gülkaymak, 1200 m, 25.05.2001, 1♂, leg. R. Hayat, 29.05.2001, 1♂, leg. C. Güçlü (EMET). Erzurum, Aşkale, Aşağı Kop Mountain 1900 m, 29.05.2001, 1♂, leg. C. Güçlü (EMET), Şenkaya, Gaziler, 1100 m, 17.05.2005, 1♂, leg. C. Güçlü (EMET), Soğanlı Mountain, 2450 m, 04.08.2005, 1♂, leg. S. Çoruh and C. Güçlü (EMET). Kars, Aras Valley, TCK Fountain, 1500-1800 m, 23.05.2001, 1♂, leg. S. Çoruh (EMET).

Distribution: Europe, new for Turkey.

Genus: *Dirophanes* Foerster, 1869***Dirophanes benjamini* Hower, 2006**

Material examined: Isparta, Dere Mahallesi, 7.07.2004, 1♀, leg. S. Çoruh (EMET).

Distribution: Only known from Turkey (Schönitzer *et al.*, 2006).

***Dirophanes regenerator* (Fabricius, 1804)**

Material examined: Erzurum, Oltu, Subatık, 09.08.2000, 1♂, leg. H. Özbek (EMET). Kars, Sarıkamış, Karakurt, TCK Fountain, 1500 m, 19.08.2003, 1♀, leg. S. Çoruh (EMET).

Distribution: Palearctic region, known from Turkey (Schönitzer *et al.*, 2006).

Genus *Heterischnus* Wesmael, 1859***Heterischnus bicolorator* (Aubert, 1965)**

Material examined: Erzurum, Konaklı, 2000-2400 m, 22.07.2000, 1♂, leg. Ö. Çalmaşur (EMET).

New Contributions to the Ichneumoninae from Turkey

Distribution: Europe, new for Turkey.

***Heterischnus coxator* (Thomson, 1891)**

Material examined: Rize, Ovit, İkizdere, 2300 m, 29.07.2000, 1♀, leg. H. Özbek (EMET).

Distribution: Western Palearctic region, new for Turkey.

***Heterischnus filiformis* (Gravenhorst, 1829)**

Material examined: Kars, Aras Valley, TCK Fountain, 1500-1600 m, 23.05.2001, 1♀, leg. Ö. Çalmaşur (EMET).

Distribution: Western Palearctic region, new for Turkey.

***Heterischnus nigricollis* (Wesmael, 1845)**

Material examined: Erzurum, Senkaya, Turnalı, 1750 m, 22.08.1999, 1♂, leg. E. Yıldırım (EMET).

Distribution: Palearctic region, new for Turkey.

***Heterischnus pictipes* (Kriechbaumer, 1894)**

Material examined: Iğdır, Çalpala, 950 m, 16.06.2001, 1♀, leg. C. Güçlü (EMET).

Distribution: Europe, new for Turkey.

***Heterischnus pulex* (Müller, 1776)**

Material examined: Erzurum, Uzundere, Balıklı, 1000 m, 29.06.2003, 1♂, leg. S. Çoruh (EMET).

Distribution: Western Palearctic region, new for Turkey.

***Heterischnus ridibundus* (Costa, 1885)**

Material examined: Artvin, 300 m, 16.05.2005, 1♀, leg. C. Güçlü (EMET).

Distribution: Western Palearctic region, known from Turkey (Yurtcan *et al.*, 1999).

Genus *Tycherus* Forster, 1869

***Tycherus fuscicornis fuscicornis* (Wesmael, 1845)**

Material examined: Erzincan, Bahçeli, 1350 m, 26.05.2001, 1♀, leg. Ö. Çalmaşur (EMET). Erzurum, Ilıca, Atlıkönak, 2100 m, 21.06.2004, 1♀, leg. C. Güçlü (EMET), Şenkaya, Çakırbaba Pass, 2450 m, 09.08.2003, 1♂, leg. S. Çoruh (EMET).

Distribution: Europe, new for Turkey.

***Tycherus ophtalmicus ophtalmicus* (Wesmael, 1845)**

Material examined: Ardahan, Göle, Ormanlık Alan, 2160 m, 25.07.2005, 1♀, leg. C. Güçlü (EMET).

Distribution: Holarctic region, new for Turkey.

Tribe Platylabini Berthoumieu, 1904**Genus: *Apaeticus* Wesmael, 1845*****Apaeticus bellicosus* Wesmael, 1845**

Material examined: Erzurum, Ilıca, Atlıkönak 2000-2400 m, 29.06.2001, 1♀, leg. Ö. Çalmaşur (EMET). Kars, Sarıkamış, Karakurt 1501 m, 10-19.06.2003, 1♀, leg. S. Çoruh (EMET).

Distribution: Western Palaearctic region, known from Turkey (Riedel *et al.*, 2010; Çoruh *et al.*, 2014).

***Apaeticus inimicus* (Gravenhorst, 1820)**

Material examined: Erzurum, Güngörmez, Dumlubaba 2500 m, 1.07.2010, 1♂, leg. E. Yıldırım (EMET), Hınıs, 1750 m, 19.07.2001, 1♀, leg. S. Çoruh (EMET).

Distribution: Western Palaearctic region, known from Turkey (Çoruh *et al.*, 2011; Çoruh *et al.*, 2014).

Genus: *Linycus* Cameron, 1903***Linycus exhortator* (Fabricius, 1787)**

Material examined: Rize, Camlihemsin, 500-1200m, 30.07.2000, 1♂, leg. E. Yıldırım (EMET).

Distribution: Holarctic regions, known from Turkey (Fahringer, 1922; Kolarov, 1995; Özbek *et al.*, 2003; Çoruh *et al.*, 2014).

Genus: *Platylabus* Wesmael, 1844***Platylabus iridipennis* (Gravenhorst, 1829)**

Material examined: Kars, Sarıkamış, Karakurt, 1425 m, 09.05.2002, 1♂, leg. G. Tozlu (EMET).

Distribution: Palaearctic region, known from Turkey (Riedel *et al.*, 2010; Çoruh *et al.*, 2014).

***Platylabus tricingulatus* (Gravenhorst, 1820)**

Material examined: Artvin, Coruh valley near Oltu-Yusufeli Road, 16.06.2001, 2♀♀, leg. Ö. Çalmaşur (EMET).

Distribution: Palaearctic region, known from Turkey (Özdemir, 1996; Riedel *et al.*, 2010; Çoruh *et al.*, 2014).

Tribe: Listrodromini Förster, 1869**Genus: *Anisobas* Wesmael, 1844*****Anisobas brombacheri* Heinrich, 1933**

Material examined: Erzincan, Mercan Yollarüstü, 1360 m, 4.08.2003, 1♀, leg. S. Çoruh (EMET). Erzurum, Konaklı, 2000-2400 m, 22.07.2000, 1♀, leg. H. Özbek (EMET).

New Contributions to the Ichneumoninae from Turkey

Distribution: Palaearctic region, known from Turkey (Özbek *et al.*, 2003; Çoruh *et al.*, 2014).

***Anisobas cingulatellus* Horstmann, 1997 (syn. *cingulatorius* Gravenhorst)**

Material examined: Artvin, Yusufeli, Sebzeçiler, 560 m, 16.06.2010, 1♀, leg. E. Yıldırım, (EMET). Erzurum, Tortum, Yukarısivri, 21.07.2010, 1♂, leg. H. Özbek (EMET).

Distribution: Palaearctic region, known from Turkey (Kohl, 1905, Yurtcan *et al.*, 1999, Coruh *et al.*, 2005; Riedel *et al.*, 2010; Çoruh *et al.*, 2011; Çoruh *et al.*, 2013; Kolarov *et al.*, 2014a, Kolarov *et al.*, 2014b; Özdan, 2014).

Genus *Neotypus* Förster, 1869***Neotypus coreensis* Uchida, 1930 (syn. *lapidator* Fabricius)**

Material examined: Bayburt, Çalidere 1700 m, 17.06.2010, 1♀, leg. S. Çoruh (EMET). Erzurum, Tortum, Yukarısivri, 21.07.2010, 1♀, leg. H. Özbek (EMET).

Distribution: Holarctic regions, known from Turkey (Riedel *et al.*, 2010).

Tribe: Heresiarchini Ashmead, 1900**Genus: *Coelichneumon* Thomson, 1893*****Coelichneumon moestus* (Gravenhorst, 1829)**

Material examined: Erzurum, Oltu, Kaleboğazi, 1450 m, 18.09.2001, 1♀, leg. S. Çoruh (EMET).

Distribution: Western Palaearctic region, new for Turkey.

***Coelichneumon pararudis* Riedel, 2008**

Material examined: Erzurum, Atatürk University Campus, 1850 m, 14.07.2003, 1♀, leg. H. Özbek (EMET).

Distribution: Known from Kyrgyzstan and Turkey (Riedel, 2008).

Tribe: Ichneumonini Latreille, 1802**Genus: *Baranisobas* Heinrich, 1972*****Baranisobas ridibundus* (Gravenhorst, 1829)**

Material examined: Isparta, Dere Mahallesi, 07.07.2004, 1♀, leg. S. Çoruh (EMET).

Distribution: Western Palaearctic region, known from Turkey (Riedel *et al.*, 2010).

Genus: *Barichneumon* Thomson, 1893***Barichneumon albicaudatus* (Fonscolombe, 1847)**

Material examined: Erzurum: Oltu, Başaklı, 1850 m, 22.08.2001, 1♀, leg. S. Çoruh (EMET).

Distribution: Palaearctic region, known from Turkey (Özdemir, 1996; Riedel *et al.*, 2010).

***Barichneumon bilunulatus* (Gravenhorst, 1829)**

Material examined: Erzurum, Kargapazarı Mountain, 2700 m, 25.07.2001, 1♂, leg. C. Güçlü (EMET).

Distribution: Palaearctic region, known from Turkey (Aubert, 1993; Riedel *et al.*, 2010).

***Barichneumon vicarius* (Wesmael, 1845) syn. *sedulus* auct.**

Material examined: Bolu, Abant İzzet Baysal University Campus, 11-14.06.1999, 1♂, leg. Shaw (EDI).

Distribution: Palaearctic region, new for Turkey.

***Barichneumon peregrinator* (Linnaeus, 1758)**

Material examined: Diyarbakır, Dicle University Campus, 700 m, 01.06.2002, ♂, leg. H. Özbek (EMET).

Distribution: Palaearctic region, new for Turkey.

Genus: *Cratichneumon* Thomson, 1893

***Cratichneumon rufifrons* (Gravenhorst, 1829)**

Material examined: Ankara, Şereflikoçhisar, 11.07.1998, 1♂, leg. C. Güçlü (EMET).

Distribution: Palaearctic region, new for Turkey.

Genus: *Ctenichneumon* Thomson, 1894

***Ctenichneumon castigator* (Fabricius, 1793)**

Material examined: Artvin, Above Artvin 1800 m, 06.06.1962, 1♂ (NHM). Erzurum, 20 km S Ispir-Ikizdere Road, 1700 m, 01.06.1962, 1♀, 02.06.1962, 1♂ (NHM). Giresun, Yavuzkemal, 1600 m, 16.05.1962, 1♂ (NHM). Rize, Sivrikaya, 1700 m, 03.06.1962, 2♀♀ (NHM). Trabzon, Hamsiköy, 1245 m, 23.05.1962, 1♀ (NHM), Zigana Mountain, 4200 ft, 14.07.1960, 1♀ (NHM).

Distribution: Palaearctic region, known from Turkey (Riedel *et al.*, 2010; Riedel *et al.*, 2011).

***Ctenichneumon devylder* (Holmgren, 1871)**

Material examined: Erzurum, Pasinler, Pelitli, 2200 m, 14.07.1996, 1♂, leg. E. Yıldırım (EMET).

Distribution: Palaearctic region, new for Turkey.

***Ctenichneumon inspector* (Wesmael, 1845)**

Material examined: Artvin, Çoruh Valley, 16.06.2001, 1♂, leg. S. Çoruh (EMET).

Distribution: Palaearctic region, known from Turkey (Riedel *et al.*, 2010).

***Ctenichneumon nitens* (Christ, 1791)**

Material examined: Erzurum, Oltu, Camlıbel, 1500 m, 02.07.1997, 1♂, leg. E. Yıldırım (EMET), Palandöken, 2400 m, 9.07.1996, 1♂, leg. E. Yıldırım (EMET).

New Contributions to the Ichneumoninae from Turkey

Distribution: Palearctic region, known from Turkey (Riedel *et al.*, 2011).

***Ctenichneumon repentinus* (Gravenhorst, 1820)**

Material examined: Erzurum, Palandöken Mountain, 2400 m, 01.07.1996, 1♂, leg. E. Yıldırım (EMET), 1♂, 23.07.1996, leg. S. Pekel (Çoruh) (EMET). Hakkari, 16 km SE Yüksekova, 1700 m, 26.06.1985, 1♀, leg. M. Schwarz (ZSM).

Distribution: Palaeartic region, known from Turkey (Riedel *et al.*, 2010).

***Ctenichneumon tauricus* (Kriechbaumer, 1888)**

Material examined: Ankara, Idris Mountain, 1300 m, 30.06.1962, 1♂ (NHM). Erzurum, 20 km S İspir-Ikizdere Road, 1700 m, 02.06.1962, 1♂ (NHM). Trabzon, Hamsiköy, 1245 m, 23.05.1962, 2♂♂ (NHM).

Distribution: Southern Europe, new for Turkey.

Genus: *Diphyus* Kriechbaumer, 1890

***Diphyus longimanus* (Wesmael, 1857)**

Material examined: Erzurum, Palandöken Mountain, 2400 m, 23.07.1997, 1♂, leg. S. Pekel (Çoruh) (EMET).

Distribution: Western Palaeartic region, known from Turkey (Çoruh *et al.*, 2011).

***Diphyus pseudomercator* s.str. Heinrich, 1978**

Material examined: Erzurum, Konaklı, 2000-2400 m, 22.07.2000, 1♂, leg. Ö. Çalmaşur (EMET).

Distribution: Known from Turkey (Heinrich, 1978; Özbek *et al.*, 2003).

***Diphyus quadripunctorius* (Müller, 1776)**

Material examined: Ankara, Beynam, 15.06.1999, 1♀, leg. M. R. Shaw (EDI).

Distribution: Palaeartic region, known from Turkey (Fahringer, 1922; Kolarov, 1989; Kolarov, 1995; Riedel *et al.*, 2010).

***Diphyus raptorius* (Linnaeus, 1758)**

Material examined: Ankara: Beynam, 15.06.1999, 1♀, leg. M. R. Shaw (EDI).

Distribution: Palaeartic region, known from Turkey (Yurtcan *et al.*, 1999).

Genus: *Eutanyacra* Cameron, 1903

***Eutanyacra picta* (Schrank, 1776)**

Material examined: Erzurum, Palandöken DSI Göleti, 2000 m, 12.10.2002, 1♂, leg. M. Kesdek (EMET).

Distribution: Palaeartic and Oriental regions, known from Turkey (Riedel *et al.*, 2010).

Genus: *Fileanta* Cameron, 1901***Fileanta flaveolaeta* (Berthoumieu, 1892)**

Material examined: Hakkari, 30 km W Yüksekova, 1850 m, 19.07.1986, 1♂, leg. A.W. Ebmer (ZSM).

Distribution: Known from Irnas and Turkey (Heinrich, 1978; Kolarov, 1995).

***Fileanta radoszkowskii* (Berthoumieu, 1892)**

Material examined: Kayseri, Göreme, 1000 m, 09.07.1988, 1♂, leg. Schmid-Egger (ZSM). Konya, 25 km N Konya, 11.06.1966, 1♀, leg. H.H.F. Hamann (ZSM), Sille, 08.06.1978, 1♂, leg. M. Schwarz (ZSM).

Distribution: Near East, Central Asia, known from Turkey (Kolarov, 1995).

Genus: *Hepiopelmus* Wesmæl, 1845***Hepiopelmus melanogaster* (Gmelin, 1790)**

Material examined: Erzurum, Şenkaya, Soğanlı Mountain, 2450 m, 13.08.1998, 1♀, leg. H. Özbek (EMET).

Distribution: Palaearctic region, known from Turkey (Riedel *et al.*, 2010).

Genus: *Ichneumon* Linnaeus, 1758***Ichneumon balteatus* Wesmæl, 1845**

Material examined: Erzurum, Oltu, Sarısaz, 1450 m, 21.06.2000, 1♂, leg. Ö. Çalmaşur (EMET).

Distribution: Palaearctic region, known from Turkey (Özdemir, 1996; Riedel *et al.*, 2010).

***Ichneumon proletarius* Wesmæl, 1855**

Material examined: Erzurum, Küçükgeçit, 1685 m, 20.06.1996, 1♀, leg. I. Aslan (EMET).

Distribution: Palaearctic region, known from Turkey (Hilpert, 1992; Kolarov, 1995; Riedel *et al.*, 2010; Çoruh *et al.*, 2011; Kolarov *et al.*, 2014a).

***Ichneumon tuberculipes* Wesmæl, 1848**

Material examined: Bayburt, Kop Pass, 31.08.2002, 1♂, leg. M. Kesdek (EMET). Erzurum, Altınçanak, 1150 m, 08.09.2005, 1♀, leg. H. Özbek, Palandöken, 2200 m, 06.08.1996, 1♀, leg. E Yıldırım, Atatürk University Campus, 15.08.1996, 1♂, leg. E. Yıldırım (EMET).

Distribution: Palaearctic region, known from Turkey (Riedel *et al.*, 2010).

Genus: *Limerodes* Wesmæl, 1845***Limerodes arctiventris* (Schiödt, 1838)**

Material examined: Sivas, Cumhuriyet University Campus, 7-9.06.1999, 1♂, leg. M. R. Shaw (EDI).

Distribution: Palaearctic region, new for Turkey.

*New Contributions to the Ichneumoninae from Turkey***Genus: *Obtusodonta* Heinrich, 1962*****Obtusodonta equitatoria* (Panzer, 1786)**

Material examined: Kayseri, Develi, Erciyes Mountain, 1800 m, 05.07.1984, 1♀, leg. A. W. Ebmer (ZSM), Karakurt, Arastal, 1400 m, 09.06.1976, 1♀, leg. Ressler (ZSM).

Distribution: Palearctic region, known from Turkey (Kolarov, 1989; Özdemir, 1996; Yurtcan, *et al.*, 1999; Riedel *et al.*, 2010; Çoruh *et al.*, 2011; Çoruh and Özbek, 2013).

Genus: *Pseudoamblyteles* Heinrich, 1926***Pseudoamblyteles homocerus* (Wesmael, 1854)**

Material examined: Antalya, Finike, 50-100 m, 07.04.1962, 5♂♂ (NHM).

Distribution: Holarctic regions, known from Turkey (Avcı and Özbek, 1990; Özdemir, 1996; Özbek *et al.*, 2003; Riedel *et al.*, 2010; Çoruh *et al.*, 2011).

Genus *Rictichneumon* Heinrich, 1961***Rictichneumon lombardi* (Berthoumieu, 1897)**

Material examined: Antakya, 03.06.1952, 1♀, leg. M. Schwarz (ZSM). Erzurum, Konaklı, 2000-2400 m, 22.07.2000, 1♀, leg. Ö. Çalmaşur (EMET), 20 km SW Oltu, 2000 m, 07-08.07.1985, 1♀, leg. M. Schwarz (ZSM), Palandöken Mountain, 2200-2400 m, 28.07.1986, 1♀, leg. A.W. Ebmer (ZSM).

Distribution: Western Palaearctic region, known from Turkey (Özbek *et al.*, 2003; Riedel *et al.*, 2010; Çoruh *et al.*, 2011; Kolarov *et al.*, 2014a).

***Rictichneumon pachymerus* (Hartig, 1838)**

Material examined: Bolu, Abant İzzet Baysal University Campus, 11-14.06.1999, 1♀, leg. Shaw (EDI).

Distribution: Holarctic regions, new for Turkey.

Genus *Spilichneumon* Thomson, 1894***Spilichneumon occisorius* (Fabricius, 1793)**

Material examined: Kars, 20 km W Sarıkamış, 2150 m, 04-06.07.1985, 1♀, leg. M. Schwarz (ZSM). Kayseri, Karakurt, Arastal, 1400 m, 09.06.1976, 1♀, leg. Ressler (ZSM).

Distribution: Palearctic region, known from Turkey (Özdemir, 1996; Özbek *et al.*, 2003; Riedel *et al.* 2010; Özdan, 2014).

Genus: *Thyrateles* Perkins, 1953***Thyrateles camelinus* (Wesmael, 1845)**

Material examined: Erzurum, Serinkaya, 1850 m, 25.07.1996, 1♂, leg. E. Yıldırım (EMET).

Distribution: Palearctic region, known from Turkey (Riedel *et al.*, 2010).

Genus: *Triptognathus* Berthoumieu, 1904***Triptognathus atripes* (Gravenhorst, 1820)**

Material examined: Bayburt, Maden, 1650 m, 16.06.2000, 1♀, leg. Ö. Çalmaşur (EMET). Erzincan, Tercan, 17.07.1997, 1♂, leg. S. Pekel (Çoruh) (EMET). Erzurum, Olur, Süngübayır, 1850 m, 30.07.1999, 1♂, leg. I. Aslan (EMET).

Distribution: Palearctic region, known from Turkey (Kolarov, 1995; Riedel *et al.*, 2011).

***Triptognathus rubrocinctus* (Lucas, 1849)**

Material examined: Ağrı, 50 km E Ağrı, 1800 m, 02.07.1985, 1♂, leg. M. Schwarz (ZSM). Hakkari, 10 km NE Oramar, 1700 m, 29.06.1985, 1♂, leg. M. Schwarz (ZSM).

Distribution: Palearctic region, new for Turkey.

***Triptognathus uniguttatus* (Gravenhorst, 1829)**

Material examined: Konya, Beyşehir, 16-19.06.1966, 1♀, leg. H. Hamann (ZSM).

Distribution: Palearctic region, known from Turkey (Kohl, 1905).

DISCUSSION

The numbers of Ichneumoninae fauna of Turkey is 215 species and 61 genera (Çoruh, 2017). With our new findings, the number has increased to 237 Turkish Ichneumoninae. In addition *Dirophanes benjamini* Hower is endemic to Turkey. However, comparing to better studied Mediterranean countries such as Spain with 406 species or Italy with 374 reported taxa (Yu *et al.*, 2012), we suspect that there are many more taxa in Turkey.

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