

ICHNEUMONIDAE (HYMENOPTERA) FROM NORTHEASTERN TURKEY. I.

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Faunistic data of 39 species from Turkey are reported. One species - *Scambus buolianae* (Hartig, 1838) - is a new record for Turkish fauna. A zoogeographic characterisation is proposed for each species.

Key words: Ichneumonidae, fauna, Turkey, new record, zoogeographical characterisation.

INTRODUCTION

The Ichneumonidae fauna of Turkey has not been sufficiently studied. More of the known species are from the European and western parts of the country. In the catalogue of Kolarov (1995) 383 species were listed from Turkey. Later, many authors (Kolarov, 1997; Kolarov *et al.* 1997a, 1997b, 1999, 2002; Çoruh *et al.* 2002; Kolarov & Gürbüz, 2004; Gürbüz, 2005; Yurtcan & Beyarslan, 2005, 2006; Çoruh & Özbek, 2008; Riedel *et al.* 2010 etc.) made contributions to the Turkish fauna. In the present paper unpublished data for 39 species from subfamilies Pimplinae and Rhyssinae

from northeastern Turkey are listed. One species is a new record for Turkish fauna. A short zoogeographic characterisation is proposed for each species.

MATERIAL AND METHODS

Samples were collected by sweeping with a hand net and Malaise traps. The stuffing and taxonomical identification of collected material was carried out in the Atatürk University of Erzurum. Generally the taxonomical works of Kasparyan (1981) and Kolarov (1997) were used. The material is deposited at the Entomology Museum of Atatürk University of Erzurum, Turkey.

RESULTS

Subfamily **Pimplinae**

Tribe **Ephialtini**

Clistopyga rufator Holmgren, 1856

Material examined: Kars: Sarıkamış, TCK fountain, 1500 m, 4.VII.2005, 1 ♀; 1-14.VII.2004, 1 ♀; 09.27.VIII.2004 (MLST), 1 ♀.

Distribution: Palearctic region.

Dolichomitus populneus (Ratzeburg, 1848)

Material examined: Kars: Sarıkamış, TCK fountain, 1500 m, 3.V.2004, 1 ♀.

Distribution: Holarctic region.

Dolichomitus sp.

Material examined: Erzurum: Palandöken, DSİ Göleti, 12.X.2002, 1 ♂.

Endromopoda detrita (Holmgren, 1860)

Material examined: Iğdır: Bayraktutan, 890 m, 17.VIII.2005, 1 ♀; Gaziler, Tuzluca, 1020 m, 18.VI.2005, 1 ♀. Erzurum: Oltu, Subatık, 4 km W Oltu, 1-4.VIII.2002, 2 ♀♀; Tortum, Katıklı, 1850 m, 12.VII.2001, 1 ♂; Tortumkale, 1350 m, 08.VIII.2004, 1 ♂; Yedigöller, 1600 m, 19.V.2005, 1 ♂; Uzundere, Gölbaşı Osvank road, 1200 m, 21.V.2002, 2 ♀♀; Gümüşhane: SE 35 km Vauk Pass, 1850 m, 21.VI.2001, 1 ♀. Kars: Sarıkamış, TCK fountain, 1500 m, 23.V.2001, 1 ♀.

Distribution: Holarctic and Oriental region.

Ephialtes manifestator (Linnaeus, 1758)

Material examined: Erzurum: Tortum, Esendurak, 1350 m, 31.VII.2004, 1 ♂.

Distribution: Holarctic and Oriental region.

Exeristes roborator (Fabricius, 1793)

Material examined: Bingöl: 5 km E, 1155 m, 1 ♀. Erzurum: Ilıca, Atlıkonak, 13.VII.2002, 1 ♂; Pasinler, Çakırca, 1750 m, 22.IX.2010, 1 ♂. İçel: Aydıncık, 10 m, 27.V.2005, 1 ♀. Kars: Digor, 1770 m, 17.VII.2005, 2♂♂; Sarıkamış, TCK fountain, 1500 m, 07.X.2004, 1 ♀, 16.IX-07.X.2004, 1♀, 15.VIII-7.X.2005 3 ♀♀, 23.VII.2005, 1 ♀, 9.VII.2006, 1 ♀, 07.VII.2007, 1 ♀, 19.VI-19.VII.2007 (MLST), 3 ♀♀, 4 ♂♂.

Distribution: Palaearctic, Oriental and Afrotropic region.

Liotryphon punctulatus (Ratzeburg, 1848)

Material examined: Erzurum: Tortum, Tortumkale, 08.VIII.2004, 1350, 1 ♂.

Distribution: Palaearctic region.

Paraperithous gnathaulax (Thomson, 1877)

Material examined: Isparta: Dere Mah, 7.VII.2004, 1 ♀. Kars: Sarıkamış, TCK fountain, 1500 m, 16.IX-7.X.2004, 1 ♀, 08-23.VI.2005 (MLST), 1 ♀, 27.VI.2006, 1 ♀.

Distribution: Palaearctic region.

Perithous divinator (Rossi, 1790)

Material examined: Erzurum: Atatürk University Fields, 1850 m, 29.VII-01.VIII.2003 (MLST), 1850 m, 1 ♂, 1 ♀; Aşkale, Pınakapan, 14.X.2004, 1950 m, 1 ♂. Kars: Sarıkamış, TCK fountain, 1500 m, 8-23.V.2005 (MLST), 1 ♀.

Distribution: Holarctic and Oriental region.

Perithous septemcinctorius (Thunberg, 1824)

Material examined: Erzurum: Ilıca, Ortabahçe, Kırklar mevkii, 1915 m, 04.VII.2005, 1 ♀.

Distribution: Holarctic region.

Scambus brevicornis (Gravenhorst, 1829)

Material examined: Ankara: Şereflikoçhisar, Beçenek Deresi, 26.VIII.2003, 1 ♀. Artvin: Yusufeli, İshan 1100 m, 29.VI.2003, 1 ♂; Zeytinlik, 10.VI.2005, 300 m, 2 ♂♂. Erzurum: Palandöken, DSİ Göleti, 2000 m, 12.X.2002, 3 ♂♂; Aşkale, 2 km E, 1950 m, 14.X.2004, 1 ♀; Ilıca, Ağzıaçık, 200 m, 19.VII.2003, 3 ♂♂, Atlıkonak, 2100 m, 21.VI.2004, 1 ♂, 25.VIII.2003, 1 ♀; Oltu, Başaklı, 1850 m, 22.VIII.2001, 1 ♀, 24.VII.2005, 1 ♂ Şenkaya, Soğanlı Mt., 2450 m, 04.VIII.2005, 1 ♂.

Distribution: Holarctic region.

Scambus buolianae (Hartig, 1838)

Material examined: Erzurum: Tortum, Esendurak, 1350 m, 31.VII.2004, 2 ♂♂.

New record for Turkish fauna

Distribution: Palaearctic region, introduced into Canada.

Scambus foliae (Cushman, 1938)

Material examined: Erzurum: Söğütlü, 1850 m, I 07.VIII.2003, 1 ♂.

Distribution: Europe, introduced into USA.

Scambus nigricans (Thomson, 1877)

Material examined: Erzincan: Refahiye, Alacaatlı, 1900 m, 26.V.2005, 1 ♀. Erzurum: Atatürk University Fields, 1850 m, 20-29.VII.2003, 1 ♂, 01-08.VIII.2003 (MLST), 1 ♂, 29.VI.2006, 1 ♀; Oltu, Sarısaz, 21.IX.2000, 1 ♂; Pasinler, Çakırca, 1750 m, 22.IX.2010, 1 ♂ 2 ♀♀; Tortum, Tortumkale, 1350 m, 1 ♂; Petrol İstasyonu, 24.V.2005, 1700 m, 1 ♂, Esendurak, 1450 m, 11.IX.2001, 1 ♂; Uzundere, Balıklı, 1040 m, 29.VI.2003, 1 ♂. Kars: Sarıkamış, TCK fountain, 1500 m, 22.VII.2002, 1 ♂, 15.VIII.2002, 1 ♂, 17.VI.2003, 1 ♂.

Distribution: Palaearctic region.

Scambus sagax (Hartig, 1838)

Material examined: Iğdır: Suveren, 1000 m, 23.VI.2010, 1 ♂ Kars: Sarıkamış, TCK fountain, 1500 m, 16.VII-04.VIII.2005, (MLST), 1 ♂.

Distribution: Palaearctic region.

Scambus signatus (Pfeffer, 1913)

Material examined: Erzincan: Refahiye, Alacaatlı, 1900 m, 26.V.2005, 1 ♂.

Distribution: Europe and Turkey.

Tromatobia ornata (Gravenhorst, 1829)

Material examined: Erzurum: Pasinler, Çakırca, 1750 m, 22.IX.2010, 1 ♂. Kars: Sarıkamış, TCK fountain, 1500 m, 9.V.2002, 1 ♂, 1-14.VII.2004 (MLST), 1500 m, 1 ♀.

Distribution: Europe, Azerbaijan, Turkey, Israel and Pakistan.

Tromatobia ovivora (Boheman, 1821)

Material examined: Kars: Sarıkamış, 2200 m, 22.IX.2010, 1 ♀.

Distribution: Holarctic region and Mexico.

Tromatobia variabilis (Holmgren, 1856)

Material examined: Erzurum: Pasinler, Çakırca, 1750 m, 22.IX.2010, 1 ♂. Kars: Sarıkamış, Çifteşehitler, 22.VI.2010, 1 ♀, TCK fountain, 1500 m, 15.VIII.2002, 1 ♀, 20.V-08.VI.2005 (MLST), 1 ♀.

Distribution: Holarctic region.

Zaglyptus varipes (Gravenhorst 1829)

Material examined: Kars: Sarıkamış, TCK fountain, 1500 m, 16.IX-07.X.2004 (MLST), 1 ♀.

Distribution: Holarctic region.

Tribe **Pimplini**

Itoplectis maculator (Fabricius, 1775)

Material examined: Bitlis: Tatvan, Nemrut Mt., 23.VII.2003, 2000 m, 1 ♀. Erzurum: Atatürk University Fields, 1850 m, 10-29.VII.2003, 1 ♀; Arıbahçe, 2400 m, 20.VII.2001, 1 ♂ 1 ♀; Taşlıgüney, 1900 m, 24.X.2002, 1 ♂; Umudum Yaylası, 2100 m, 26.VI.2003, 1 ♂; Ilıca, Atlıkonak, 2100 m, 21.VI.2004, 1 ♀; Hınıs, 1750 m, 19.VII.2001, 1 ♂.

Distribution: Europe, North Africa, Azerbaijan, Georgia, Armenia, Turkey, Siberia and Mongolia.

Itoplectis tunetana (Schmiedeknecht, 1914)

Material examined: Erzurum: Atatürk University Fields, 1850 m, 04.VII.2000, 1 ♂, 29.VII-1.VIII.2003 (MLST), 2 ♂♂; Taşlıgüney, 24.X.2002, 1900 m, 1 ♂.

Distribution: Europe, Canary Islands, Algeria, Tunisia, Azerbaijan, Turkey, Armenia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan, Iran and Mongolia.

Itoplectis viduata (Gravenhorst, 1829).

Material examined: Bitlis: Tatvan, Nemrut Mt., 23.VII.2003, 2000 m, 1 ♀. Iğdır: Aralık, 830 m, 23.VI.2010, 1 ♀. Erzurum: Taşlıgüney, 24.X.2002, 1900 m, 1 ♂; Oltu, Timrek, 2200 m, 14.VII.2004, 1 ♂.

Distribution: Holarctic region.

Pimpla aquilonia Cresson, 1870

Material examined: Ardahan: 11.VIII.2004, 2015 m, 1 ♂; Posof, Ilgar Mt., 2050 m, 18.VIII.2004, 1 ♂. Artvin: Yusufeli, İşhan 1100 m, 21.IX.2000, 1 ♂. Erzurum: Atatürk University Fields, 1850 m, 01-08.VIII.2003, (MLST), 1850 m, 1 ♂; Olur, Yeşilbağlar, 16.VI.2001, 1100 m, 1 ♂; Tortum, Esendurak, 1450 m, 11.IX.2001, 1 ♂. Kars: Sarıkamış, Karakurt, Şeytangeçmez, 1550 m, 23.VI.2005, 1 ♂, TCK fountain, 10-19.VI.2003, 1 ♂, 9.VII.2003, 1 ♂.

Distribution: Holarctic region.

Pimpla arcadica Kasparyan, 1973

Material examined: Erzurum: Atatürk University Fields, 29.VII-01.VIII.2003 1 ♂, 20-29.VII.2003 (MLST), 1850 m, 2 ♀♀. Kars: Sarıkamış, TCK fountain, 1500 m, 01-08.VII.2004, 1 ♂, 20.V-08.VI.2005 (MLST), 1 ♀.

Distribution: Sweden, Bulgaria, Ukraine and Iran.

Pimpla artemonis Kasparyan, 1973

Material examined: Artvin: Genya Mt., 1900 m, 14.VII.2003, 1 ♂; Kafkasör, 1300 m, 22.V.2002, 1 ♂ Erzurum: Çat, 25 km Erzurum, 2000 m, 11.VII.2002, 2 ♂♂, 1 ♀; Atatürk University Fields, 1850 m, 28.VI.2001, 1 ♂, 11.VI.2004, 1 ♂; Ilca, Ağzıaçık, 2000 m, 19.VII.2003, 1 ♂. Isparta: Dere Mah., 1150 m, 24.V.2004, 1 ♂, Kars: Sarıkamış, TCK fountain, 1500 m, 01-08.VIII.2004 (MLST), 1 ♀.

Distribution: Sweden, Serbia, Bulgaria, Turkey and Russia - (Dagestan, Checheno-Ingushskaya, Kabardino-Balkarskaya and Severo-Osetinskaya Respublika).

Pimpla contemplator (Müller, 1776)

Material examined: Erzurum: Atatürk University Fields, 1850 m, 28.VI.2001, 1 ♂, 5.IX.2004, 1 ♂, 20-29.VII.2003 (MLST), 1 ♂; Oltu, Subatık, 4 km W Oltu, 1-4.VIII.2002, 1 ♀.

Distribution: Palaearctic region, introduced into Canada.

Pimpla illebrator (Villers, 1789)

Material examined: Erzurum: Yeşilyayla, 1950 m, 01.VII.2010, 1 ♀.

Distribution: Palaearctic region.

Pimpla insignatoria (Gravenhorst, 1807)

Material examined: Erzurum: Tortum, Tortumkale, 1350, 8.VIII.2004, 1 ♂.

Distribution: Europe, South European Russia, Azerbaijan, Georgia and Armenia.

Pimpla rufipes (Miller, 1759)

Material examined: Bayburt: Kop Mt., 2300 m, 06.VIII.2001, 1 ♂, 25.VI.2004, 1 ♂. Erzurum: Güngörmez, Dumlubaba, 01.VII.2010, 2500 m, 1 ♂; Palandöken, DSİ Göleti, 12.X.2002, 1 ♂; Taşlıgüney, 24.X.2002, 1 ♂; Hınıs, Akören, 21.VIII.2003, 1750 m, 1 ♂; Oltu, Başaklı, 1850 m, 09.VII.2000, 1 ♂, Çamlıbel, 17.V.2003, 1 ♂; Olur, Yeşilbağlar, 16.VI.2001, 1100 m, 1 ♂; Şenkaya, Soğanlı Mt., 2450 m, 09.VIII.2003, 1 ♀, 12.VII.2005, 1 ♀, 1 ♂, 04.VIII.2005, 1 ♀, 1 ♂ Kars: Sarıkamış, TCK fountain, 1500 m, 15.VIII-07.X.2005 (MLST), 1 ♀, 04.VIII.2002, 1 ♂.

Distribution: Palaearctic and Oriental region, introduced into USA.

Pimpla turioneallae (Linnaeus, 1758)

Material examined: Erzurum: Tortum, Çataldere, 1950 m, 13.VII.2001, 1 ♀.

Distribution: Holarctic and Oriental region, introduced into North America.

Pimpla spuria Gravenhorst, 1829

Material examined: Artvin: Yusufeli, İşhan 1100 m, 29.VI.2003, 1 ♂; Zeytinlik, 10.VI.2005, 300 m, 2 ♂♂. Erzurum: Atatürk University Fields, 1850 m, 10-29.VII.2003, 1 ♂, 18-25.VIII.2003 (MLST), 1850 m, 1 ♂, Horasan, 30 km E, 9.VI.2005, 1 ♂; Oltu, Başaklı, 1850 m, 22.VIII.2001, 1 ♂, Kaleboğazı, 18.IX.2001, 3 ♂♂, Subatik, 4 km W Oltu, 1-4.VIII.2002, ♀, 15-27. VIII.2002, 4 ♂♂, 8-14.IX.2002 (MLST), 1 ♀, Taşlıköy, 23.X.2002, 900 m, 1 ♂; Between Tutmaç-Oltu, 31.VI.2001, 2100 m, 31.VII.2001, 1 ♂; Olur, Yeşilbağlar, 16.VI.2001, 1100 m, 4 ♂♂; Tortum, Petrol İstasyonu, 24.V.2005, 1700 m, 1 ♂, Esendurak, 1450 m, 11.IX.2001, 4 ♂♂; Uzundere, 1200 m, 16.V.2003, 1 ♂; Şenkaya, Çakırbaba, Pass, 09.VIII.2003, 2450 m, ♀. Kars: Sarıkamış, TCK fountain, 1500 m, 10-19.VI.2003, 1 ♂, 9.VII.2003, 1 ♂, 1-14.VII.2004, 1 ♂; 16.IX-07.X.2004 (MLST), 2 ♀♀, 17.VIII.2005, 1 ♀. Konya: Güneysınır, Güragaç, 1017 m, 22.VI.1999, 1 ♂, 08.VIII.2002, 1 ♂. Yalova: BKAE, 2 m, 27.IV.2003 1 ♂.

Distribution: Palaearctic region and Taiwan.

Strongyloopsis belua Kuzin, 1950

Material examined: Erzurum: Atatürk University Fields, 1850 m, 08.VI.2002, 1 ♂; Arıbahçe, 2400 m, 20.VII.2001, 1 ♂; Yeşilyayla, Radar Road, 2200 m, 29.VI.2001, 1 ♂; Aşkale, Kandilli, 1700 m, 27.V.2001, 3 ♂♂; Ilıca, Atlıkonak, 2000 m, 13.VI.2002, 1 ♂; Hıms, 40 km SE, 1800 m, 3 ♂♂; Pasinler, Köprüköy, Kayabaşı, 1600 m, 14.VI.2004, 2 ♂♂.

Distribution: Ukraine, South European Russia, Azerbaijan, Turkey, Armenia, Kazakhstan, Tajikistan and Mongolia.

Tribe **Polysphinctini*****Acrodactyla quadrisculpta*** (Gravenhorst, 1820).

Material examined: Erzurum: Tortum, Esendurak, 1350 m, 31.VII.2004, 1 ♂.

Distribution: Holarctic, Oriental and Australasian region.

Schizopyga (Schizopyga) circulator (Panzer, 1800)

Material examined: Erzurum: Oltu, Başaklı, 09.VIII.2000, 1 ♂; Tortum, Tortumkale, 1350 m, 8.VIII.2004, 1 ♂.

Distribution: Holarctic region.

Schizopyga (Schizopyga) podagrica Gravenhorst, 1829

Material examined: Erzurum: Tortum, Çataldere, 1950 *m*, 13.VII.2001, 1 ♀.

Distribution: Palaearctic region.

Zatypota bohemani (Holmgren, 1860)

Material examined: Erzurum: Atatürk University Fields, 1850 *m*, 20-29.VII.2003, 1 ♂, 18-25.VIII.2003 (MLST), 2 ♂♂.

Distribution: Europe, Canary Islands, Turkey, Cyprus, Russia and North America.

Zatypota percontatoria Müller, 1776

Material examined: Erzurum: Uzundere, 1200 *m*, 16.V.2003, 2 ♂♂.

Distribution: Holarctic region.

Subfamily **Rhyssinae**

Rhyssa persuasoria (Linnaeus, 1758)

Material examined: Artvin: Yusufeli, 2-8 *km* SW Altıparmak, 25.VII.2005, 1300 *m*, 1 ♀.

Distribution: Holarctic, Oriental and Australasian (Tasmania and New Zealand) region.

ZOOGEOGRAPHICAL CHARACTERISATION

The zoogeographic characterisation follows the chorotype classification of the Near East fauna, proposed by Taglianti *et al.* (1999). After investigation of the recent geographic distribution of the species listed above, they can be divided into the following groups:

1. Multiregional species (3 species): *Exeristes roborator*, *Acrodactyla quadrisculpta* and *Rhyssa persuasoria*.
2. Species with ranges in two zoogeographical regions, usually Holarctic and Oriental (8 species): *Endromopoda detrita*, *Ephialtes manifestator*, *Perithous divinator*, *P. rufipes*, *P. turioneallae*, *P. spuria*, *Tromatobia ornata* and *T. ovivora* (chorotype of the last species is in Holarctic region and Mexico).
3. Species with Holarctic ranges (10 species): *Dolichomitus populneus*, *Perithous septemcinctorius*, *Scambus brevicornis*, *Tromatobia variabilis*, *Zaglyptus varipes*, *Itoplectis viduata*, *Pimpla aquilonia*, *Schizopyga (Schizopyga) circulator*, *Zatypota bohemani* and *Z. percontatoria*.

4. Palaearctic species (9 species): *Clistopyga rufator*, *Liotryphon punctulatus*, *Paraperithous gnathaulax*, *Scambus buolianae*, *S. nigricans*, *S. sagax*, *Pimpla contemplator*, *P. illecebrator* and *Schizopyga (Schizopyga) podagratica*.
5. Sibero-european range (1 species): *Itopectis maculator*.
6. Centralasiatic-Europeo-Mediterranean chorotype (1 species): *Itopectis tunetana*.
7. Centralasiatic-European (1 species): *Strongylopsis belua*.
8. Turano-European range (1 species): *Pimpla arcadica*.
9. Species with European chorotypes (4 species): *Scambus foliae*, *S. signatus*, *Pimpla artemonis* and *P. insignatoria*.

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ICHNEUMONIDAE (HYMENOPTERA) SA SEVEROISTOKA TURСКЕ. I.

SALIHA ÇORUH, ЈАНКО КОЛАРОВ

РЕЗИМЕ

У раду се по први пут објављују фаунистички подаци за 39 врста Ichneumonidae, подфамилија Pimplinae и Rhyssinae, уловљених на североистоку Турске. *Scambus buolianaе* (Hartig, 1838) је нова врста за фауну Турске. За сваку врсту урађена је зоогеографска припадност.