

Investigations on the Ichneumonidae (Hymenoptera) fauna of Turkey I. Pimplinae and Tryphoninae

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Abstract

The material which were collected from various localities of Turkey have been studied taxonomically. 18 species of Pimplinae and 14 species of Tryphoninae were recorded. 17 species of them are new records for the fauna of Turkey.

General distribution, localities and collecting date of species and altitude of the research areas are given.

Introduction

Ichneumonids as parasitoids of many Lepidoptera, Coleoptera, Diptera, Hymenoptera etc. insects are very important factor in regulation of their dinamic, including harmful ones.

The studies that are made about the Ichneumonidae fauna of Turkey are not sufficient. There are a few special reports on it (Fahringer und Friese, 1921; Fahringer, 1922; Sedivy, 1959; Özdemir and Kılınçer, 1990. The other recordings concerning Turkish Ichneumonidae are included in the studies aimed protecting plant, generalized by Öncüer 1990. Only 345 species of Ichneumonidae in Turkish fauna are established up to now (Kolarov, 1990).

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Ichneumonidae is one of the largest insect family. Townes (1970) established 60.000 species in the world. Kasparyan (1981) noted about 2600 species for the European part of old Soviet Union.

Having in mind the various nature, climate and geographical position Turkey, must have rich Ichneumonidae fauna.

In this paper faunistic data for 32 species from Pimplinae and Tryphoninae subfamilies, after investigations of the materials, collected in various regions in the Turkey are reported. Among them 17 species are new for the fauna of Turkey.

Material and Methods

Material is collected from various regions of Turkey with grab net by A. Beyarslan. Specimens are killed with potassium cyanide (KCN) and are prepared for further studies. Species were evaluated considering the material of the collection of Faculty of Biology, the University of Sofia and the studies of Aubert (1969), Jussila (1979, 1987) and Kasparyan (1981, 1990).

The general distributions are after Kasparyan (1990). Localities, collecting date of the species and altitude of the research areas are also given in this study.

Some of the specimens are kept in the collection of University of Trakya, Faculty of Arts and Sciences, Department of Biology. Other part of specimens are kept in the collection of University of Sofia, Faculty of Biology.

Results

Pimplinae

1. *Acrodactyla medida* Haliday, 1838.

Material examined: Adana (Feke), 1400 m, 2. 10. 1979, 1 male.

Distribution: Armenia and Europe.

New record for the fauna of Turkey.

2. *Ephialtes manifestator* (Linne, 1758)

Material examined: Elazığ (Baskil, Hacımustafa), 1070 m, 23. 7. 1985, 1 female.

Distribution: Caucasus, Europe and Tadzikistan.

New record for the fauna of Turkey.

3. *Exeristes roborator* (Fabricius, 1793)

Material examined: Edirne (Lalapaşa), 300 m, 8. 6. 1986, 1 female. Edirne (Sülecik köyü), 200 m, 4. 6. 1988, 1 female. Isparta (Merkez), 1100 m, 13. 7. 1982, 1 female. Kırklareli (Kofcaz), 650 m, 1. 9. 1989, 1 male. Kırklareli (Vize, Hamidiye), 200 m, 7. 5. 1988, 1 male. Kırklareli (Yeniceköy), 250 m, 6. 9. 1988, 1 female, 2 males.

Distribution: Palaearctic region.

4. *Itopectis maculator* (Fabricius, 1775)

Material examined: Adana (Balcalı), 70 m, 1. 5. 1984, 1 female, 1 male. Adana (Pozantı), 1250 m, 26. 5. 1985, 1 female. Balıkesir (Manyas Kuşçenneti), 100 m, 10. 5. 1991, 1 female. İçel (Erdemli, Güzeloluk), 1400 m, 7. 5. 1980, 1 female and 13. 5. 1991, 2 females.

Distribution: Canary Islands, Europe, Introduced in North America, North Africa and Turkey.

5. *Itopectis tunetana* (Schmiedeknecht, 1914)

Material examined: Adıyaman (Koçaklı Köyü), 850 m, 17. 7. 1985, 1 female.

Distribution: Altai, Caucasus, Central Asia, Europe, Iran, Mongolia, North Africa, Turkey and Tuva.

6. *Liotryphon crassisetus* (Thomson, 1877)

Material examined: Konya (Hadım, Kornoba), 1600 m, 7. 8. 1989, 1 female.

Distribution: Europe and Caucasus

New record for the fauna of Turkey.

7. *Perithous mediator* Fabricius, 1804

Material examined: Antalya (Fethiye, Fenike, Kemer), 200 m, 7. 7. 1989; 1 female.

Distribution: Holarctic region.

8. *Pimpla contemplator* (Müller, 1776)

Material examined: Antalya (Elmalı), 950 m, 16. 7. 1982, 1 male.

Distribution: Caucasus, Europe and Turkey.

New record for the fauna of Turkey.

9. *Pimpla spuria* Gravenhorts, 1829

Material examined: Adana (Balcalı), 70 m, 30. 7. 1979, 2 males. Adana (Pozantı), 1250 m, 26. 5. 1984, 1 male. Adana (Saimbeyli), 700 m, 4. 10. 1979, 1 male. Adıyaman (Gölbaşı), 800 m, 14. 7. 1985, 2 females. Edirne (Hadımağa), 50 m, 9. 4. 1988, 3 males. G. Antep (Oğuzeli), 800 m, 13. 7. 1985, 1 male. Hatay (Dört Yol, Karıncalı), 1700 m, 30. 7. 1983, 1 male. İçel (Namrun), 1000 m, 26. 9. 1979, 1 male. Kırklareli (İğneada, Limanköy), 50 m, 17. 6. 1988, 1 male. Kırklareli (Vize, Kömürköy), 250 m, 8. 9. 1988, 2 females, 1 male. Ş. Urfa (Atatürk Barajı), 800 m, 16. 7. 1985, 1 female. Tekirdağ (Işıklar), 400 m, 6. 7. 1991, 1 male.

Distribution: Atai, Europe, Iran, Middle Asia, Caucasus, Kazakhstan and Turkey.

10. *Scambus (Ateleophadnus) nigricans* (Thomson, 1877)

Material examined: Burdur (Merkez), 1100 m, 7. 8. 1980, 1 male, Isparta (Milas), 1150 m, 13. 7. 1982, 1 female. K. Maraş (Elbistan), 780 m, 15. 5. 1984, 1 female and 3 males.

Distribution: Caucasus, Europe, Kazakhstan and Central Asia.

New record for the fauna of Turkey.

11. *Scambus (Endromopoda) detritus* (Holmgren, 1860)

Material examined: Kırklareli (Pınarhisar - Kaynarca), 200 m, 6. 9. 1988, 1 female.

Distribution: Asia major, Europe, Caucasus, Kamshatka, Middle Asia, North America and Sakhalin.

12. *Scambus (Endromopoda) phragmitidis* Perkins, 1957

Material examined: Van (Gürpınar), 1800 m, 29. 7. 1990, 1 female.

Distribution: Bulgaria, England, France and East Europe.

New record for the fauna of Turkey.

13. *Scambus (Scambus) brevicornis* (Gravenhorst, 1829)

Material examined: Edirne (Lalapaşa - Donköy), 300 m, 6. 6. 1985, 2 females.

Distribution: Europe, Mongolia, North America, Tunisia and Turkey.

14. *Tromatobia variabilis* (Holmgren, 1856)

Material examined: Adana (Kadirli), 50 m, 4. 7. 1979, 1 female.

Distribution: Holarctic region.

15. *Zabrachypus primus* Cushman, 1920

Material examined: Adana (Balcalı), 70 m, 25. 5. 1980, 1 male. Antalya (Elmalı), 1100 m, 16. 7. 1982, 1 female.

Distribution: Holarctic region.

New record for the fauna of Turkey

16. *Zaglyptus multicolor* (Gravenhorst, 1829)

Material examined: Adıyaman, (Besni - Taşlıyazı), 750 m, 15. 7. 1985, 1 female. Elazığ (Baskıl - Hacımustafa), 1100 m, 23. 7. 1985, 1 female. Tekirdağ (Uçmakedere), 350 m, 13. 7. 1986. 1 female.

Distribution: Holarctic.

17. *Zaglyptus varipes* (Gravenhorst, 1829)

Material examined: Kırklareli (Kayalı Köy), 300 m, 29. 7. 1988, 3 females.

Distribution: Holarctic.

New record for the fauna of Turkey.

18. *Zatypota bohemani* (Holmgren, 1854)

Material examined: Adana (Osmaniye), 100 m, 30. 7. 1979, 1 male. Elazığ (Baskıl-Hacımustafa), 1070 m, 29. 7. 1985. 1 female. İçel (Erdemli-Sandaldağı), 400 m, 21. 5. 1984 1 male.

Distribution: Alma - Ata, Armenia, Europe, Tadzikistan and Turkey.

Tryphoninae

1. *Acrotomus succinctus* (Gravenhorst, 1829).

Material examined: Edirne (Lalapaşa), 300 m, 27. 8. 1988. 1 male. Tekirdağ (Işıklar), 400 m, 6. 7. 1991, 1 female.

Distribution: Palaearctic region.

New record for the fauna of Turkey.

2. *Cladeutes discedens* (Woldstedt, 1872).

Material examined: Hatay (Dörtöyl - Karıncalı Yaylası), 1700 m, 30. 7. 1983, 1 male.

Distribution: Central and East Europe and Japan.

New record for the fauna of Turkey.

3. *Kristotomus laetus* (Gravenhorst, 1829)

Material examined: Adana (Osmaniye - Zorkun Yaylası), 1700 m, 29. 7. 1983. 3 female and 3 males.

Distribution: Palaearctic region.

New record for the fauna of Turkey.

4. *Monoblastus brachyacanthus* (Gmelin, 1790).

Material examined: Erzurum (Abdurrahmangazi), 1750 m, 11. 7. 1990, 1 female. Tekirdağ (Malkara), 200 m, 24. 5. 1992, 1 male.

Distribution: Europe, China, Caucasus, Kazakhstan, North Africa and South Siberia.

New record for the fauna of Turkey.

5. *Monoblastus fulvescens* (Fonscolombe, 1849)

Material examined: Edirne (Lalapaşa - Donköy), 300. m, 6. 6. 1987. 3 males.

Distribution: Carpathian, Caucasus, South Europe and Tunisia.

New record for the fauna of Turkey.

6. *Monoblastus luteomarginatus* (Gravenhorst, 1829).

Material examined: Balıkesir (Manyas - Kuşçenneti), 100 m, 10. 5. 1991, 1 male.

Distribution: Middle, South and East Europe, Japan and Pacific coast of Russia.

New record for the fauna of Turkey.

7. *Monoblastus marginellus* (Gravenhorst, 1829).

Material examined: Kırklareli (Bedre), 300 m, 2. 8. 1988, 4 females.

Distribution: Europe.

New record for the fauna of Turkey.

8. *Netelia (Netelia) fuscicornis* (Holmgren, 1860)

Material examined: Edirne (Tarımsal Araştırma Enst.), 41 m, 20. 10. 1987, 1 female. Elazığ (Baskil - Hacımustafa), 1100 m, 23. 7. 1985, 1 female, 1 male. K. Maraş - (Afşin), 1050 m, 14. 5. 1983, 1 male. Kırklareli (Merkez), 210 m, 20. 9. 1989, 1 female. Kırklareli (Pınarhisar - Kaynarca), 250 m, 6. 9. 1988, 1 female. Kırklareli (Papuçdere), 300 m, 17. 6. 1991 1 male. Tekirdağ (Şarköy), 100 m, 7. 8. 1991, 2 females.

Distribution: Palaearctic region.

9. *Netelia (Netelia) testacea* (Gravenhorst., 1829)

Material examined: Edirne (Kafkas bağları), 100 m, 20. 10. 1987, 2 males. Kırklareli (Papuçdere), 300 m, 17. 6. 1991, 1 female. Kırklareli (Yoğuntaş), 250 m, 20. 9. 1987, 1 female.

Distribution: Palaearctic region and India.

10. *Tryphon (Tryphon) psilosagator* (Aubert, 1966)

Material examined: Adana (Balcalı), 70 m, 4. 4. 1985, 3 males. Adana (Pozantı), 1300 m, 26. 5. 1984, 1 female. İçel (Erdemli - Güzeloluk), 1400 m, 23. 5. 1984, 12 males.

Distribution: East Europe, France, Greece, Italy and Kazakhstan.

New record for the fauna of Turkey.

11. *Tryphon (Tryphon) rutilator* (Linne, 1761)

Material examined: Edirne (Hadımağa), 100 m, 17. 5. 1987, 1 male. Balıkesir (Manyas - Kuşçenneti), 100 m, 10. 5. 1991, 1 male.

Distribution: Europe, Caucasus, Nor-dian and Turkey.

12. *Tryphon (Tryphon) signator* (Gravenhorst, 1829)

Material examined: Edirne (Hadımağa), 80 m, 23. 5. 1991, 1 female. İçel (Namrun), 1000 m, 24. 5. 1984, 1 male.

Distribution: Europe, Jakutien, Caucasus, South Siberia and Turkey.

13. *Tryphon (Tryphon) thomsoni* (Roman, 1939)

Material examined: K. Maraş (Ahırdağı), 1300 m, 10. 7. 1982, 1 male. Kırklareli (Kastro), 300 m, 8. 5. 1988, 1 female.

Distribution: Europe, Irkutsk, Caucasus and Tadjikistan.

New record for the fauna of Turkey.

14. *Tryphon (Tryphon) zavreli* (Gregor, 1939)

Material examined: Edirne (Hadımağa), 70 m, 23. 5. 1991, 1 female. Edirne (Hacımur), 300 m, 13. 6. 1987, 1 female.

Distribution: Bulgaria, Caucasus, Kazakhstan, East Europe and Turkey.

Discussion

Kasparyan (1981) has recorded 208 species belonging to the subfamily Pimplinae and 311 species belonging to the subfamily Tryphoninae in European part of old Soviet Union. In this study, we have determined 18 species belonging to the Pimplinae and 14 species belonging to the Tryphoninae. 17 species are new records for the fauna of Turkey.

From these species we have found out that *Tromatobia variabilis* (Holm.), *Zabrachypus primus* Cushman, *Zaglyptus multicolor* (Grav.) *Z. varipes* (Grav.) are known only from Holarctic region. However *Itoloctis maculator* (Fabr.) were recorded both from Nearctic and Palearctic region. The other 27 species present in Palearctic region.

In Turkey, we have recorded 16 species from Anatolia, 8 species from Turkish Thrace and 8 species both from Anatolia and Turkish Thrace.

Özet

Türkiye Ichneumonidae (Hymenoptera) faunası üzerinde arařtırmalar. I Pimplinae, Tryphoninae.

Türkiye'nin deęişik lokalitelerinden toplanmış olan materyal taksonomik olarak incelenmiş, Pimplinae altfamilyasından 18 ve Tryphoninae altfamilyasından 14 olmak üzere toplam 32 tür saptanmıştır. Bunlardan 17 tür Türkiye faunası için ilk kayıt nitelięi taşımaktadır.

Her bir türün toplandıęı lokalite, yükseklik ve genel yayılışı da verilmiştir.

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