

**A STUDY OF THE TURKISH ICHNEUMONIDAE (HYMENOPTERA).  
III. ANOMALONINAE, BANCHINAE, OPHIONINAE AND XORIDINAE**

J. KOLAROV<sup>1</sup> AND M. F. GÜRBÜZ<sup>2</sup>

<sup>1</sup>Faculty of Pedagogy, University of Plovdiv, 24 Tsar Assen Str., 4000 Plovdiv, Bulgaria

<sup>2</sup>Science and Arts Faculty, Süleyman Demirel University of Isparta, TR-32260 Isparta

ABSTRACT: Faunistic data of 16 species from the subfamilies Anomaloninae, Banchinae, Ophioninae and Xoridinae are given. Three species, noted in the text by asterisk, are new records for the Turkish fauna.

KEY WORDS: Ichneumonidae, fauna, Turkey, Anomaloninae, Banchinae, Ophioninae, Xoridinae.

**INTRODUCTION**

The Ichneumonidae fauna of Turkey is not well studied. In the catalogue of KOLAROV (1995), only 383 species were listed. Lately some new records were added to this fauna (KOLAROV *et al.*, 1997, 1999; YURTCAN *et al.*, 1999; YURTCAN AND BEYARSLAN, 2002; CORUCH *et al.*, 2002: etc.). In our articles of this series (KOLAROV AND GÜRBÜZ, 2004; GÜRBÜZ AND KOLAROV, 2006), the subfamilies Pimplinae and Tryphoninae respectively were studied.

In this third part faunistic data of 16 species from the subfamilies Anomaloninae, Banchinae, Ophioninae and Xoridinae are presented. Three of them, noted in the text by asterisk, are new records for the Turkish fauna. For the other species new localities were established. The general distribution is mainly after KASPARYAN (1981).

**LIST OF THE SPECIES**

**Anomaloninae**

**Anomalonini**

*Anomalon cruentatum* (Geoffroy, 1785)

Material: Isparta, Egridir, Kasnakmeshesi, 1600 m, 8.05.2004, 1G; the same place, 25.07.2004, 1E; Antalya, Fenikie, Catallar, 400 m, 29.05.2004, 1G1E; Isparta, Candir, Yazilikanyon, 350 m,

18.05.2004, 1E; Isparta, Gökdere, Arbaratum, 340 m, 15.05.2004, 1E; Antalya, Avlanbeli, 110 m, 29.05.2004, 1E; Isparta, Gölcuk, 1200 m, 7.06.2004, 1E.

Distribution: Central and Southern Europe, Turkey, Iran, Kazakhstan, Central Asia, and Southwest Siberia.

### **Gravenhorstiini**

*Agrypon flexorium* (Thunberg, 1822)

Material: Isparta, Gölcuk, 1200 m, 28.05.2004, 1G; Isparta, Uluborlu, 1060 m, 12.05.2004, 2GG.

Distribution: Palaearctic.

*Barylypa uniguttata* (Gravenhorst, 1829)

Material: Antalya, Karamanbeli, 1350 m, 29.05.2004, 2GG3EE.

Distribution: Europe, Turkey, Armenia, Iran, Afghanistan, Central Asia, Siberia beyond Lake Baikal and the southern part of the Pacific coast of Russia.

\**Kokujewiella vicaria* Shestakov, 1926

Material: Isparta, Egridir, Kasnakmeshesi, 1600 m, 8.05.2004, 2GG1E.

Distribution: Western Kazakhstan and Central Asia.

### **Banchinae**

#### **Atrophini**

\**Alloplasta piceator* (Thunberg, 1822)

Material: Isparta, Egridir, Kasnakmeshesi, 1600 m, 8.05.2004, 2EE.

Distribution: Europe, Caucasus, and Altai.

\**Lissonota (Lissonota) compar* Fonscolombe, 1854

Material: Isparta, Egridir, Kasnakmeshesi, 1600 m, 8.05.2004, 1G1E; Isparta, Gölcuk, 1200 m, 7.05.2004, 1G1E.

Distribution: France and the South-European part of the former USSR

*Lissonota (Lissonota) culiciformis* Gravenhorst, 1829

Material: Burdur, Dirmil, 7.07.2004, 1650 m, 1G; Isparta, Sav, 1050 m, 28.06.2004, 1E; Isparta, Egridir, Kasnakmeshesi, 1600 m, 8.05.2004, 1E; Isparta, Dere mahalesi, 1100 m, 7.07.2004, 1G.

Distribution: Europe.

*Lissonota (Lissonota) fundator* (Thunberg, 1822)

Material: Isparta, Gökçay, 1050 m, 29.06.2004, 2GG6EE; Burdur, Dirmil, 1650 m, 7.07.2004, 1G; Isparta, Egridir, Kasnakmeshesi, 1600 m, 2.07.2004, 1E; Isparta, Sav, 1050 m, 28.06.2004, 1G1E.

Distribution: Europe, Caucasus and Siberia.

*Lissonota (Lissonota) rufitarsis* Szepliget, 1899

Material: Isparta, Ylanli, 1250 m, 22.05.2004, 1E; Isparta, Gölcuk, 1200 m, 7.06.2004, 1G; Burdur, Aglasun, Sagalososs, 1250 m, 2.06.2004, 1G.

Distribution: Europe.

*Lissonota (Loxonota) histrio* (Fabricius, 1798)

Material: Isparta, Dere mahalesi, 1200 m, 7.07.2004, 2EE; Burdur, Dirmil, 1650 m, 7.07.2004, 1G.

Distribution: Holarctic.

*Lissonota (Loxonota) flavovariegata* (Lucas, 1849)

Material: Isparta, Sav, 1050 m, 28.06.2004, 3GG.

Distribution: Southern Europe (including the South-European part of the former USSR), North Africa, Turkey, Armenia and Iran.

**Glyptini**

*Apophua bipunctoria* (Thunberg, 1822)

Material: Isparta, Dere mahalesi, 1200 m, 7.07.2004, 1E.

Distribution: Palearctic.

**Ophioninae**

*Enicospilus ramidulus* (Linnaeus, 1758)

Material: Isparta, Egridir, Kasnakmeshesi, 1600 m, 2.07.2004, 1G; Isparta, Sav, 1050 m, 28.06.2004, 2EE.

Distribution: Europe, Caucasus, Turkey, Kazakhstan, Central Asia, Southern Siberia, Pacific coast of Russia, and Sakhalin Island.

*Ophion mocsaryi* Brauns, 1889

Material: Isparta, Guneikent, 1030 m, 12.05.2004, 1G.

Distribution: Western Europe, Bulgaria, Turkey and Iran.

*Ophion ventricosus* Gravenhorst, 1829

Material: Isparta, Ylanli, 1250 m, 2.07.2004, 1E.

Distribution: Europe.

**Xoridinae**

*Xorides (Xorides) gracilicornis* (Gravenhorst, 1829)

Material: Isparta, Egridir, Kasnakmeshesi, 1350 m, 7.06.2004, 1G.

Distribution: Central and Southern Europe and Turkey.

## DISCUSSION

In the Palaearctic region, there are 212 species of Anomaloninae, 442 species of Banchinae, 197 species of Ophioninae, and 66 species of Xoridinae (YU and HORSTMANN, 1997). Until now, only 32 species of Anomaloninae, 61 species of Banchinae, 23 species of Ophioninae, and eight species of Xoridinae were known from Turkey. With the new contributions given in the present study, the numbers of Turkish Anomaloninae and Banchinae increase to 33 and 63, respectively.

## ACKNOWLEDGEMENT

This work was supported by the NATO PC-B Program of TÜBİTAK, and we would like to express our thanks for this.

## REFERENCES

- CORUH S., H. OZBEK, J. KOLAROV, 2002. New and Rare Taxa of Ichneumonidae (Hymenoptera) from Turkey. *J. Ent. Res. Soc.*, 4(1):1-4.
- GÜRBÜZ M.F., J. KOLAROV, 2006. A Study of the Turkish Ichneumonidae (Hymenoptera) II. Tryphoninae. *J. Ent. Res. Soc.*, 8(1):35-40.
- KASPARYAN D. R., 1981. A guide to the insects of the European part of the USSR. Hymenoptera, Ichneumonidae. *Opredelitel Faune SSSR*. 129:1-688 [in Russian].
- KOLAROV J., 1995. A catalogue of the Turkish Ichneumonidae (Hymenoptera).- *Entomofauna*, 16

(7):137-188.

- KOLAROV J., H. OZBEK, E. YIDIRIM, 1999. New distributional data of the Turkish Ichneumonidae (Hymenoptera). I. Pimplinae and Tryphoninae. *J. Ent. Soc. Res.*, 1 (2):9-15.
- KOLAROV J., M.F. GÜRBÜZ, 2004. A Study of the Turkish Ichneumonidae (Hymenoptera) I. Pimplinae. *Linzer biol. Beitr.*, 36/2:841-845.
- KOLAROV J., M. YURTCAN, A. BEYARSLAN 1997. New and rare Ichneumonidae (Hymenoptera) from Turkey. I. Pimplinae, Tryphoninae, Phygadeuontinae, Banchinae and Ctenopelmatinae. *Acta ent. Bulg.*, 3-4:10-12.
- YU D.S. AND K. HÖRRSTMANN, 1997. A Catalogue of World Ichneumonidae (Hymenoptera). *Mem. Amer. Ent. Inst.*, 58:1-1558.
- YURTCAN M. AND A. BEYARSLAN, 2002. The species of Tryphoninae (Hymenoptera: Ichneumonidae) in Turkish Thrace. *Turk. J. Zool.* 26:77-95.
- YURTCAN M., A. BEYARSLAN, J. KOLAROV, 1999. Investigations on the Ichneumonidae (Hymenoptera) fauna of Turkey. V. Diplazontinae and Ichneumoninae. *Acta ent. Bulg.*, 1:34-36.

## ИСТРАЖИВАЊА ИCHNEUMONIDAE (HYMENOPTERA) ТУРСКЕ III ANOMALONINAE, BANCHINAE, ORPHIONINAE И ХОРИДИНАЕ

Ј. КОЛАРОВ И М. Ф. ГУРБУЗ

### ИЗВОД

У раду су изнети фаунистички подаци за 16 врста субфамилија Anomaloninae, Banchinae, Orphioninae и Xoridinae. Нове врсте за фауну Турске су: *Kokujewiella vicaria* Shestakov, *Alloplasta piceator* (Thunberg) и *Lissonota (Lissonota) compar* Fonscolombe. Овим прилогом повећан је број врста фамилије Ichneumonidae што показују ново установљене бројке код обрађених подфамилија: Anomaloninae – 33; Banchinae – 63; Orphioninae – 28 и Xoridinae – 8.

Accepted June 15, 2006