Diplazon annulatus (Gravenhorst, 1829) (Hymenoptera: Ichneumonidae: Diplazontinae), new for the Turkish fauna and new localities for some species of this subfamily

Summary

In order to contribute to the knowledge on the distribution of Diplazontinae (Hymenoptera: Ichneumonidae) species, sampling was performed from 10 different localities of Turkey (Anatolia), in 1988 and 1996. Four species from Diplazon and Promethes were determined. Diplazon annulatus (Gravenhorst, 1829) is recorded for the first time for Turkey. New distribution areas for previously known species Diplazon laetatorius (Fabricius, 1781), Diplazon tibiatorius (Thunberg, 1824) and Promethes sulcator (Gravenhorst, 1829) are represented.

Key words: Ichneumonidae, Diplazontinae, new record, Turkey

Anahtar sözcükler: Ichneumonidae, Diplazontinae, yeni kayıt, Türkiye

Introduction

Diplazontinae is a small to medium large subfamily of Ichneumonidae and comprises more than 348 species in the World (Yu & Horstmann, 1997). These subfamily members are koinobiont endoparasitoids of Syrphidae (Diptera). Oviposition is into the egg or larvae and adult emergence occurs from the puparium of hosts (Wahl, 1993). Diplazontinae is best generally represented in the Holarctic and Neotropic regions (Townes, 1970).

Although the members of the Ichneumonidae represent one of the most important groups of parasitoids for pest management is concerned, the researches on ichneumonid fauna of Turkey were explored very restricted (Özbek et al., 2003). Kolarov (1995), in his catalogue listed 10 species in 4 genera of the subfamily Diplazontinae occurring in Turkey. Since then several authors (Yurtcan et al., 1999; Özdemir, 2001; Gürbüz, 2005) have made valuable contributions to our knowledge of Diplazontinae fauna in Turkey. With these contributions, numbers of species and genera of Diplazontinae known from Turkey amount now to 18 and 8 respectively.

This study is based upon material of subfamily Diplazontinae collected from different localities of northeastern Anatolia in Turkey in 1988 and 1996. The aim of this study is to present the complete records of preserved material to researchers and relevant people.
Material and Methods

The material for this study was collected from Ardahan, Artvin, Erzurum, Erzincan, Trabzon and Şanlıurfa in Turkey during 1988-1996. The samples were collected by sweeping net on flowering plants with an insect sweep net. Specimens were collected transferred into a handmade aspirator and were killed with ethyl acetate. Known standard methods (Çoruh & Özbek, 2008) were used for preparation of the samples. In the present study there were given for each species: the name valid at present; the location and time of collected; collection time examined material of the study region. General distributions of the species were taken from Yu et al. (2005). All materials are deposited in the Entomology Museum Erzurum, Turkey (EMET).

Results

With present study the complete numbers of species and genera of Diplazontinae known from Turkey rises to 19 and 8 respectively. Diplazon annulatus (Gravenhorst, 1829) is a new record for the Turkish fauna. For the other species listed below new localities are given.

Diplazon annulatus (Gravenhorst, 1829)


New for Turkish fauna.

Distribution in the world: Greenland, Europe and India,

Remarks: Length 6.1 mm color of the male varies, face generally entirely yellow, central part and clypeus have some yellow spots with black streaks from the antennae downwards all over the face; fore wing 5.0 mm long, without areolet; fore and middle legs brown, metatibiae, trochanters metatibia with yellow-black marking, tarsal segments and tarsal claws black.

Diplazon laetatorius (Fabricius, 1781)


Distribution in the world: Australian, Ethiophian, Nearctic, Neotropical, Oceanic, Oriental and Palaearctic regions.

Remarks: This specimen was reared from the pupae of Episyrphus balteatus (De Geer 1776) (Diptera: Syrphidae) collected from the campus of Atatürk University.

Diplazon tibiatorius (Thunberg, 1824)


Distribution in the world: Holarctic region.
Diplazon annulatus (Hymenoptera: Ichneumonidae), new for the Turkish fauna and new localities for some species of this subfamily

Promethes sulcatort (Gravenhorst, 1829)


Distribution in the world: Holarctic and Oriental region.

Özet

Türkiye faunası için yeni bir kayıt Diplazon annulatus (Gravenhorst, 1829) (Hymenoptera: Ichneumonidae: Diplazontinae) ve bazı türler için yeni lokaliteler

Türkiye'nin Diplazoninae (Hymenoptera: Ichneumonidae) türlerinin dağılımları hakkındaki bilgilere katkı sağlamak amacıyla 1988 ve 1996 yıllarında 10 farklı lokaliteden örnek alınmış ve Diplazon ve Promethus cinslerine bağlı 4 tür tespit edilmiştir. Bu türler arasında Diplazon annulatus (Gravenhorst, 1829) Türkiye'den ilk defa kaydedilmiştir. Daha önceden bilinen Diplazon laetatorius (Fabricius, 1781), Diplazon tibiatorius (Thunberg, 1824) ve Promethes sulcatort (Gravenhorst, 1829) türleri için yeni yayılış alanları belirlenmiştir.

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References


