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A study on Turkish Scoliidae (Hymenoptera)

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Abstract

Nine species and subspecies of Scoliidae (Hymenoptera, Vespoidea) are given in this paper as part of the fauna of Nigde province of Turkey.

Key words: Hymenoptera, Scoliidae, Systematic, Fauna, Turkey.

Zusammenfassung

Neun Arten und Unterarten von Scoliidae (Hymenoptera, Vespoidea) konnten in vorliegender Arbeit für die Fauna der türkischen Provinz Nigde nachgewiesen werden.

Introduction

Scoliidae, including the most hairy and the big species of Hymenoptera, distribute cosmopolitan [OSTEN 2000]. The fauna of Scoliidae in Turkey was studied by FAHRINGER 1922, MADL 1997, TÜZÜN & BAGRIACIK 2000, OSTEN 1999a, 2004, OSTEN & ÖZBEK 1999, JAPOSHVILI & KARACA 2010, TÜZÜN 2001, 2004, ANLAŞ & ÇEVİK 2004, TEZCAN et al. 2004, ÖZBEK & ANLAŞ 2007, 2011. The aim of this paper is faunistic survey on scoliid wasps from Nigde province of Turkey in order to new distributional data toward to completing the fauna of Turkish Scoliidae. Nigde is located between Mediterrean Region and Central Region of Anatolia in southern Turkey and has importance in respect to faunistic and also floristic biodiversity.

Material and Methods

Totally, 283 (47 ♀, 236 ♂) specimens were collected between June and September 2011 and identified according to BETREM (1935) and OSTEN (2000, 2004) by Olympus SZX9 stereomicroscope. Classification and nomenclature Scoliidae suggested by OSTEN (1999b, 2000; 2005). The samples are protected in the Department of Biology in Nigde University.

Results

Family Scolidae LATREILLE, 1802

Genus *Colpa* DUFOUR, 1841

Colpa (Colpa) klugii (VANDER LINDEN, 1827)

Material examined: Gölcük, 1321 m, 19.VIII.2011, 3 ♀♀. Sazlıca, 1207 m, 12.VIII.2011, 1 ♀.

Colpa (Heterelis) quinquecincta quinquecincta (FABRICIUS, 1793)

Material examined: Altunhisar, 1207 m, 23.VII.2011, 1 ♂, 11.VIII.2011, 1 ♂, 14.VIII.2011, 3 ♂♂. Bahçeli, 1145 m, 12.VIII.2011, 13 ♂♂. Gümüşler, 1357 m, 20.VII.2011, 1 ♂, 10.VIII.2011, 2 ♂♂.

Genus *Megascolia* BETREM, 1928

Megascolia (Regiscolia) maculata maculata (DRURY, 1773)

Material examined: Pınarbaşı, 1198 m, 24.VI.2011, 1 ♀ 3 ♂♂. Bahçeli, 1145 m, 15.VI.2011, 1 ♂. Gölcük, 1318 m, 01.VII.2011, 1 ♀ 1 ♂. Derinkuyu, 1353 m, 22.VII.2011, 12 ♀♀ 2 ♂♂. Gümüşler, 1358 m, 17.VII.2011, 1 ♂. Nigde, 1225 m, 19.VI.2011, 1 ♂; Campus, 1203 m, 16.VII.2011, 1 ♀; 17.VII.2011, 1 ♀. Sazlıca, 1207 m, 08.VI.2011, 1 ♀ 22 ♂♂; 15.VI.2011, 1 ♀ 11 ♂♂; 28.VI.2011, 1 ♂. Darbogaz, 1500 m, 23.VI.2011, 1 ♂.

Genus *Scolia* FABRICIUS, 1775

Scolia (Discolia) hirta hirta (SCHRANK, 1781)

Material examined: Kemerhisar, 1108 m 10.VII.2011, 3 ♂♂; 09.VIII.2011, 6 ♂♂. Bahçeli, 1145 m, 12.VIII.2011, 10 ♂♂, Gümüşler, 1357 m, 10.VIII.2011, 8 ♂♂, Sazlıca, 1207 m, 28.VI.2011, 1 ♂, 12.VIII.2011, 8 ♂♂, 17.VIII.2011, 1 ♀ 1 ♂, Set Evler, 1701 m, 16.VII.2011, 1 ♂.

Scolia (Scolia) anatolia OSTEN, 2004

Material examined: Sazlıca, 1207 m, 12.VII.2011, 1 ♂; 12.VIII.2011 1 ♂. Ciftehan, 1393 m, 03.IX.2011, 1 ♂.

***Scolia (Scolia) asiella* BETREM, 1935**

Material examined: Toki, 1273 m, 16.VI.2011, 1♀. Emli Valey, 1595 m, 12.VII.2011, 1♂. Bahçeli, 1145 m, 15.VI.2011, 2♂♂; Edikli, 1376 m, 18.VII.2011, 1♂; Fertek, 1270 m, 06.VII.2011, 1♀ 15♂♂; Koyunlu, 1458 m, 09.VII.2011, 1♀ 5♂♂; Sazlıca, 1207 m, 12.VIII.2011, 1♂; Set Evler, 1701 m, 16.VII.2011, 1♀ 6♂♂.

***Scolia (Scolia) fallax* EVERS-MANN, 1849**

Material examined: Altunhisar, 1207 m, 14.VII.2011, 1♀. Kemerhisar, 1108 m, 10.VII.2011, 1♀. Bahçeli, 1145 m, 30.VI.2011, 1♀; 12.VIII.2011, 1♀ 5♂♂; Elmalı, 1568 m, 02.IX.2011, 1♀; Nigde, 1220 m, 05.VIII.2011, 1♀; Sazlıca, 1207 m, 28.VI.2011, 1♀; 12.VIII.2011, 1♀ 7♂♂; 17.VIII.2011, 2♀♀ 5♂♂.

***Scolia (Scolia) fuciformis* SCOPOLI, 1786**

Material examined: Kemerhisar, 1108 m, 10.VII.2011, 2♀♀ 10♂♂; Kızılcıca, 1064 m, 10.VII.2011, 1♂. Sazlıca, 1207 m, 28.VI.2011, 1♂.

***Scolia (Scolia) sexmaculata sexmaculata* (O.F. MÜLLER, 1766)**

Material examined: Kemerhisar, 1108 m, 10.VII.2011, 3♂♂. Cimbar Valey, 1595 m, 12.VII.2011, 1♂, 2700 m, 12.VII.2011, 1♂, 2600 m, 12.VII.2011, 1♂; Bahçeli, 1145 m, 15.VI.2011, 1♂, 30.VI.2011, 1♀ 12♂♂; Edikli, 1376 m, 18.VII.2011, 3♂♂; Fertek, 1270 m, 06.VII.2011, 1♀ 10♂♂; Gümüşler, 1357 m, 13.VI.2011, 2♂♂, 17.VII.2011, 4♂♂, 20.VII.2011, 6♂♂, 26.VII.2011, 1♂, 10.VIII.2011, 1♀ 1♂; Koyunlu, 1457 m, 09.VII.2011, 1♀ 4♂♂; Nigde, 1219 m, 17.VIII.2011, 1♂, Sazlıca, 1207 m, 28.VI.2011, 11♂♂; Set Evler, 1701 m, 16.VII.2011, 4♀♀ 8♂♂.

Discussion

Faunistical studies on Scoliidae which are useful in biological control of agricultural pests, are important. On the other hand, Turkey with various geographical regions and climates has rich faunistical diversity waiting to be discovered.

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