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Approach to the knowledge of the Ichneumonidae in Los Monegros (Spain)

(Insecta: Hymenoptera)

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Abstract

An intensive survey (1989 and 1994) has given data on the family Ichneumonidae in Los Monegros (Zaragoza, Spain) that is respected as one of the most interesting deserty areas of the Iberian Peninsula. The results of this work have been completed with the study of material housed in the Staatliches Museum für Naturkunde (Stuttgart). 128 specimens belonging to 4 subfamilies, 19 genera and 22 species are analysed.

Introduction

Los Monegros is supposed by the researchers as an interesting ecosystem of undoubted scientific value because of its high degree of diversity. OCHOA (1982) has described its climatic conditions which cause the presence of a natural juniperus forest that has partially been reduced and replaced by trees for forestry. This locality is very dry with open woodland (*Juniperus thurifera* L., *Rhamnus lyciodes* L. and *Pinus halepensis* M.), growing on calcareous grassland (*Artemisa*, *Eryngium*, *Gypsophila*, *Onopordum*, *Rosmarinus*, *Suaeda* and *Teucrium*). The botanical corology of Los Monegros is determined by 70 % of mediterranean elements (MOLERO 1988) J. BLASCO-ZUMETA was interested in the insect populations distributed in this region. He collected material from 1989 to 1994 in the area "La Retuerta de Pina" (Pina de Ebro, Zaragoza,



Abb. 1: Lage des Untersuchungsgebietes "Los Monegros".

Spain; UTM coordinates: 30TYL29; Altitude: 360 m). The sampling methods used by him are explained in BÄCHLI & BLASCO-ZUMETA (1995).

At present the information concerning the Hymenoptera only refers to the Symphyta (BLASCO-ZUMETA 1994), Eumenidae (CASTRO 1992), Sphecidae (GAYUBO 1992), Chrysidoidea (OLMI 1995), Chalcidoidea (ASKEW 1991, 1993, 1994a, 1994b, 1994c; ASKEW in press); ASKEW & BLASCO 1997; DARLING, 1995; GARRIDO & NIEVES 1996), and Ceraphronoidea (DESSART 1991, 1994, 1996). On the other hand, the subfamily Agryotipinae is recorded for Peninsular Spain for the first time (ANENTO & SELFA (1998).

In this paper, the data about material sampled with Malaise trap together with material from the Staatliches Museum für Naturkunde (Stuttgart, Germany) are presented. The 128 related specimens belong to 4 subfamilies, 19 genera and 22 species.

Results

COLLYRIINAE

Collyria iberica SCHMIEDECKNECHT, 1908

Material: Pina de Ebro, Zaragoza, 11-11-1990, 11♀ and 2♂, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 17-11-1990, 2♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 9-6-1991, 1♀ and 1♂, BLASCO leg., Valencia Col.

Distribution: Spain, Morocco, Tunisia.

Collyria calcitrator coxator (VILLERS, 1789)

Material: Pina de Ebro, Zaragoza, 26-5-1991, 5♀, BLASCO leg., Valencia Col..

Distribution: Continental Europe.

ICHNEUMONINAE

Amblyteles armatorius (FORSTER, 1771)

Material: Pina de Ebro, Zaragoza, 20-5-1991, 1♂, BLASCO leg. Valencia Col.; Pina de Ebro, Zaragoza, 20-5-1991, 1♂, BLASCO leg. Blasco Col.; Pina de Ebro, Zaragoza, 21-5-1991, 1♂,

BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 26-5-1991, 1♂, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 22-8-1991, 1♂, BLASCO leg., Valencia Col.

Distribution: Algeria, Dagestan, Continental Europe, Iran, Israel, Japan, Madeira, Mallorca, Morocco, Sakhalin, Siberia, Tenerife, Turkey, United Kingdom.

***Barichneumon bilunulatus bilunulatus* (GRAVENHORST, 1829)**

Material: Pina de Ebro, Zaragoza, 17-10-1990, 1♀, BLASCO leg., Valencia Col.

Distribution: Algeria, Continental Europe, Israel, Morocco, Kazakhstan, Siberia, United Kingdom.

***Barichneumon sedulus* (GRAVENHORST, 1820)**

Material: Pina de Ebro, Zaragoza, 6-10-1990, 1♀ and 1♂, BLASCO leg., Blasco Col.; Pina de Ebro, Zaragoza, 14-10-1990, 1♀, BLASCO leg., Blasco Col.; Pina de Ebro, Zaragoza, 17-10-1990, 1♀, BLASCO leg., Valencia Col. Pina de Ebro, Zaragoza, 17-11-1990, 4♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 7-1-1991, 1♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 12-1-1991, 1♀, BLASCO leg., Valencia Col.

Distribution: Continental Europe, Siberia, United Kingdom.

***Ctenichneumon inspector* (WESMAEL, 1845)**

Material: Pina de Ebro, Zaragoza, 17-10-1990, 1♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 9-2-1992, 1♂, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 9-2-1992, 1♂, BLASCO leg., Blasco Col.

Distribution: Caucasus, Continental Europe, United Kingdom.

***Heterischnus ridibundus* (COSTA, 1885)**

Material: Pina de Ebro, Zaragoza, 9-12-1991, 1♀, , BLASCO leg., Valencia Col., DILLER det., 1995.

Distribution: Continental Europe, Corsica, Crete, Mallorca, Sicily, Tunisia.

***Ichnemon sarcitorius sarcitorius* LINNAEUS, 1758**

Material: Pina de Ebro, Zaragoza, 9-6-1991, 1♂, BLASCO leg., Valencia Col.

Distribution: Canary Islands, China, Continental Europe, Israel, Madeira, Morocco, Siberia, Turkey, United Kingdom.

***Obtusodonta equitatoria equitatoria* (PANZER, 1786)**

Material: Pina de Ebro, Zaragoza, 17-10-1990, 1♂, BLASCO leg., Valencia Col.. Pina de Ebro, Zaragoza, 26-5-1991, 1♂, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 30-4-1994, 1♂, BLASCO leg., Blasco Col.

Distribution: Caucasus, Dagestan, Continental Europe, Corsica, Iran, Israel, Kazakhstan, Sakhalin, Siberia, Sicily, Turkey, United Kingdom.

***Platylabus pedatorius* (FABRICIUS, 1793)**

Material: Pina de Ebro, Zaragoza, 9-12-1990, 1♀ and 1♂, BLASCO leg., Valencia Col.

Distribution: Algeria, Caucasus, Continental Europe, United Kingdom.

***Platylabus tricingulatus* (GRAVENHORST, 1820)**

Material: Pina de Ebro, Zaragoza, 17-11-1990, 1♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 9-6-1991, 1♂, BLASCO leg., Valencia Col.

Distribution: Caucasus, Continental Europe, Corsica, Turkey, United Kingdom.

***Pseudoamblyteles homocerus homocerus* (WESMAEL, 1854)**

Material: Pina de Ebro, Zaragoza, 9-4-1991, 1♀, BLASCO leg., Valencia Col.

Distribution: Afghanistan, Algeria, China, Continental Europe, Iran, Kamtschatka, Morocco, Siberia.

***Spilothyrates fabricii* (SCHRANK, 1802)**

Material: Pina de Ebro, Zaragoza, 9-4-1991, 1♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 20-5-1991, 1♀ and 1♂, BLASCO leg., Valencia Col.

Distribution: Caucasus, Central Asia, Continental Europe, Kazakhstan, United Kingdom.

***Stenodontus theresae* PIC, 1901**

Material: Pina de Ebro, Zaragoza, 11-11-1990, 1♀, BLASCO leg., Valencia Col.

Distribution: Continental Europe.

***Triptognathus unifasciatus* (SPINOLA, 1843)**

Material: Pina de Ebro, Zaragoza, 18-6-1991, 1♂, BLASCO leg., Valencia Col.

Distribution: Caucasus, Central Asia, Continental Europe, Kazakhstan, Siberia, Turkey.

***Virgichneumon digrammus digrammus* (GRAVENHORST, 1820)**

Material: Pina de Ebro, Zaragoza, 9-6-1991, 1♂, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 9-6-1991, 1♂, BLASCO leg., Blasco Col.; Pina de Ebro, Zaragoza, 7-5-1991, 1♂, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 1-6-1991, 1♂, BLASCO leg., Valencia Col.,

Distribution: Caucasus, Continental Europe, Kazakhstan, Mallorca, Siberia, United Kingdom.

ORTHOPELMATINAE***Orthopelma mediator* (THUNBERG, 1822)**

Material: Pina de Ebro, Zaragoza, 17-11-1990, 3♀♀, BLASCO leg., Valencia Col.

Distribution: Continental Europe.

PIMPLINAE***Endromopoda detrita detrita* (HOLMGREN, 1860)**

Material: Pina de Ebro, Zaragoza, 20-5-1991, 1♀, BLASCO leg., Valencia Col.

Distribution: Continental Europe, Corsica, Morocco, Tunisia, United Kingdom.

***Exeristes roborator* (FABRICIUS, 1793)**

Material: Pina de Ebro, Zaragoza, 6-8-1991, 1♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 12-8-1991, 2♀♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 19-5-1992, 1♂, Osten Leg., Zwakhals Det., 1995, Stuttgart Col.

Distribution: Algeria, Cyprus, Continental Europe, Egypt, Iran, Morocco, Russia, Siberia, Tunisia, Turkey.

***Itoplectis maculator maculator* (FABRICIUS, 1775)**

Material: Pina de Ebro, Zaragoza, 22-2-1991, 1♂, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 9-3-1991, 1♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 11-4-1991, 1♂, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 28-5-1991, 1♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 9-6-1991, 8♀♀ and 20♂♂, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 11-6-1991, 1♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 15-6-1991, 2♀♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 20-6-1991, 4♀♀ and 1♂, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 28-6-1991, 1♂, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 6-7-1991, 1♀ and 1♂, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 8-7-1991, 1♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 22-5-1992, 1♀, Osten Leg., Zwakhals Det., 1995, Stuttgart Col.

Distribution: Canary Islands, Caucasus, Continental Europe, Morocco, Tunisia, Turkey, United Kingdom.

***Pimpla turionellae turionellae* (LINNAEUS, 1758)**

Material: Pina de Ebro, Zaragoza, 25-5-1991, 1♀, BLASCO leg., Valencia Col.

Distribution: Continental Europe, Corsica, Morocco, Tunisia, United Kingdom.

***Tromatobia ornata ornata* (GRAVENHORST, 1829)**

Material: Pina de Ebro, Zaragoza, 6-10-1990, 1♀, BLASCO leg., Valencia Col.; Pina de Ebro, Zaragoza, 15-6-1991, 1♀, BLASCO leg., Valencia Col.

Distribution: Central Asia, Continental Europe, Mallorca, Morocco, Tunisia, United Kingdom.

Discussion

In this area, the phenology of the family Ichneumonidae is, at least in a first approach, very similar to the results of and in other mediterranean forest ecosystems (ANENTO & SELFA, 1997a, 1997b) with maximum values of species and specimens in spring and autumn.

Most species (14) have a distribution extending to the mediterranean Islands and North Africa, and therefore they must be considered rather as mediterranean than as holopalaearctic (northern palaearctic) elements. This fact corresponds to the botanical corology established by MOLERO (1988) for Los Monegros.

On the other hand, three species are more abundant and involve more than 50 per cent of total captures. *Barichneumon sedulus* (sex ratio 2:1) is an holopalaearctic element widely distributed in Eurasia, *Collyria iberica* (sex ratio 1:5) is a meridional mediterranean species restricted to Spain and North Africa and *Itopectis maculator maculator* (sex ratio 2:1) is an holomediterranean element extended to Caucasus and Central Europe.

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Zum taxonomischen Status levantinischer *Lophyridia concolor* (DEJEAN, 1822)

(Coleoptera, Cicindelidae)

Michael FRANZEN

Abstract

Lophyridia concolor of the Levant differ from more western populations in having a denser elytral punctuation of coloured spots with copper-green spaces between. The diameter of the coloured spots usually exceeds the distance between the spots. In general appearance Levantine specimens are greenish-brown. In contrast, in Aegean specimens and populations from the western part of the Turkish south coast the diameter of the coloured spots is usually less than the distance between the spots. The general appearance of western specimens is copper-red. Furthermore Levantine specimens show a tendency to smaller total length. Intermediate populations exist along the middle and eastern Turkish south coast and on Cyprus. For the easternmost populations the name *Lophyridia concolor rouxi* (BARTHÉLEMY, 1835), comb. nov. is proposed.

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