

Neuroptera Fauna of Elazığ Province (Turkey)

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Abstract: Neuropterida samples were collected in Elazığ province in 2002-2004, and species belonging to seven families were determined and listed. All the species listed are new records for the Elazığ Neuropterida fauna, while *Bubopsis zarudnyi* Alexandrova-Martynova, 1926 and *Macronemurus amoenus* (Hölzel, 1972) are here recorded from Turkey for the second time.

Key words: Neuropterida, Neuroptera, Raphidioptera, faunistics, Elazığ, Turkey.

Introduction

The Elazığ province is in the east of Turkey. The eastern part of Turkey is known as one of the best preserved and undamaged natural habitats of Turkey. The region shows high biological diversity: it is influenced by Eremial, Mediterranean and Siberian climates. Few studies of its neuropteran fauna exist on adjacent province (Gerstaecker, 1894; Gepp, 1974; Şengonca, 1979, 1980a, 1981a, 1981b; Satar & Özbay, 2002, 2003, 2004a, 2004b; Satar *et al.*, 2004), but those that have been done suggest high species diversity. The aim of this study was, therefore, to provide information on the presence and distribution of different Neuroptera in the Elazığ province of Turkey.

Materials and Methods

Neuroptera from localities were obtained from May to September in 2002-2004. The Province, which have altitude ranges of 1020 m. - 2050 m, support steppic vegetation and pine forests. The coordinates of this area are 40. 21° and 38. 30° E / 38. 17° and 39. 11°N. The specimens were collected with a net and light traps. Larvae and adults were collected twice a month by net, by beating branches of bushes and trees over an umbrella, by picking the larvae from the field, and by harvesting specimens from light traps at night.

Results

Nineteen species from two order and sixteen genera were identified, representing the families, Raphidiidae (1 genus, 1 species), Chrysopidae (2 genera, 3 species), Hemerobidae (2 genera, 2 species), Myrmeleontidae (8 genera, 9 species), Mantispidae (1 genus, 2 species), Ascalaphidae (1 genus, 1 species) and Nemopteridae (1 genus, 1 species). Some of these species have also been shown to be present in other parts of Turkey, e.g., see Aspöck *et al.* (1976, 1978, 1980, 1984, 2001), Demirsoy (1990), Hölzel *et al.* (1967, 1968, 1972), and Şengonca (1979, 1980a, 1980b, 1981a, 1981b, 1981c). The species and their list is as follows in Table I.

Table I The list of Neuropterida species in the Elazığ province. RAP: Raphidiidae; CHR: Chrysopidae; HEM: Hemerobidae; MYR: Myrmeleontidae; MAN: Mantispidae; ASC: Ascalaphidae; NEM: Nemopteridae	R	C	H	M	M	A	N
	A	H	E	Y	A	S	E
	P	R	M	R	N	C	M
<i>Raphidia (Raphidia) ambigua</i> Aspöck & Aspöck, 1964	•						
<i>Chrysoperla carnea</i> (Stephens, 1836)		•					
<i>Dichocrysa flavifrons</i> (Brauer, 1850)		•					
<i>Dichocrysa prasina</i> (Burmeister, 1839)		•					
<i>Wesmaelius (Kimminsia) subnebulosus</i> (Stephens, 1836)			•				
<i>Symphorobius (Symphorobius) pygmaeus</i> (Rambur, 1842)			•				
<i>Cueta lineosa</i> (Rambur, 1842)				•			
<i>Creoleon plumbeus</i> (Olivier, 1811)				•			
<i>Distoleon curdus</i> Hölzel, 1972				•			
<i>Gymnocnemia variegata</i> (Schneider, 1845),				•			
<i>Macronemurus amoenus</i> (Hölzel, 1972).				•			
<i>Myrmeleon inconspicuus</i> Rambur, 1842				•			
<i>Myrmecaelurus trigrammus</i> (Pallas, 1771)				•			
<i>Myrmecaelurus maior</i> McLachlan, 1875				•			
<i>Palpares libelluloides</i> (Linnaeus, 1764)				•			
<i>Mantispa scabricollis</i> McLachlan, 1875					•		
<i>Mantispa styriaca</i> (Poda, 1761)					•		
<i>Bubopsis zarudnyi</i> Alexandrova-Martynova, 1926							•
<i>Lertha extensa</i> Oliver, 1811							•

Nineteen identified species are new for Elazığ province. *Bubopsis zarudnyi* Alexandrova-Martynova, 1926 and *Macronemurus amoenus* (Hölzel, 1972). species is the second record for Turkish Neuropterida fauna.

We hope that this study of the neuropteran fauna of Elazığ, together with existing and future faunal works on other groups of plants and animals living in the region, will help to elucidate the broader zoogeographic features of this interesting and biologically diverse Palearctic area.

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