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DATA ON SOME DRAGONFLIES (INSECTA: ODONATA) FROM WESTERN TURKEY

[Results of the „Taurus”-2005 and „Focida”-2006 expeditions]

ELENA IULIA PISICĂ, RĂZVAN POPESCU-MIRCENI

Abstract. The paper presents a list of 258 Odonata specimens collected during the expeditions carried out in Western Turkey between 2005-2006 by the “Grigore Antipa” National Museum of Natural History. In all, 27 Odonata species were identified, grouped in nine families. The paper also presents some distributional data for these 27 species.

Résumé. Le travail présente une liste de 258 exemplaires d’Odonates collectés au cours des expéditions organisées à l’ouest de la Turquie au cours des années 2005 et 2006 par le Muséum National d’Histoire Naturelle «Grigore Antipa». En tout, on a identifié 27 espèces d’Odonates groupées en neuf familles. On présente aussi quelques données sur la distribution de ces 27 espèces.

Key words: Odonata, distribution, Western Turkey, “Taurus” and “Focida” expeditions.

INTRODUCTION

Beginning from 2005 “Grigore Antipa” National Museum of Natural History (Bucharest) has started a project named “*Romanian Contributions on the Mediterranean fauna research*”, in collaboration with the NGO - “Oceanic Club” Society of Oceanographical Exploration and Protection of the Marine Environment of Constanța and co-ordinated by Dr. Corneliu Pârvu. Within this project two expeditions were carried out in Turkey, „Taurus”-2005 and „Phocida”-2006. Both expeditions started from North West Turkey and continued southwards following the western coast of the Aegean Sea up to Antalya province and inside the country into Burdur and Denizli provinces and then back up to Çanakkale province.

The study of the Odonata fauna of Turkey has become very intensive in the last years and numerous papers dealing with this subject have been published: Kalkman et al. (2003), Hacet & Aktac (2004), Salur & Özsaraç (2004), Salur & Kiyak (2006, 2007 a, b), Miroğlu & Kartal (2008) etc. This paper brings additional data to the distribution of some Odonata species from this region.

Odonata specimens collected from Turkey in the two expeditions represent a valuable contribution to the “Exotic Odonata” collections from the “Grigore Antipa” National Museum of Natural History, Bucharest.

MATERIAL AND METHODS

The material was collected using the entomological net in 18 sites from Turkey (Fig. 1) between July and August 2005-2006.

Collecting sites: Pehlivan köy, Edirne province; Kanli Dere Koprosu, Kırklareli; Troy ruins, Çanakkale province, 39°57’23”N, 26°14’51”E; Küçük kuyu, Çanakkale province, 39°31’49”N, 26°30’58”E; Bergama, Bakır Çayı river, Izmir province, 39°07’12”N, 27°11’27”E; Dikili, Aydın province; Aliğa, Izmir province, 38°51’22”N, 29°02’00”E; Yenifoça, Izmir province, 38°43’51”N, 26°44’32”E;

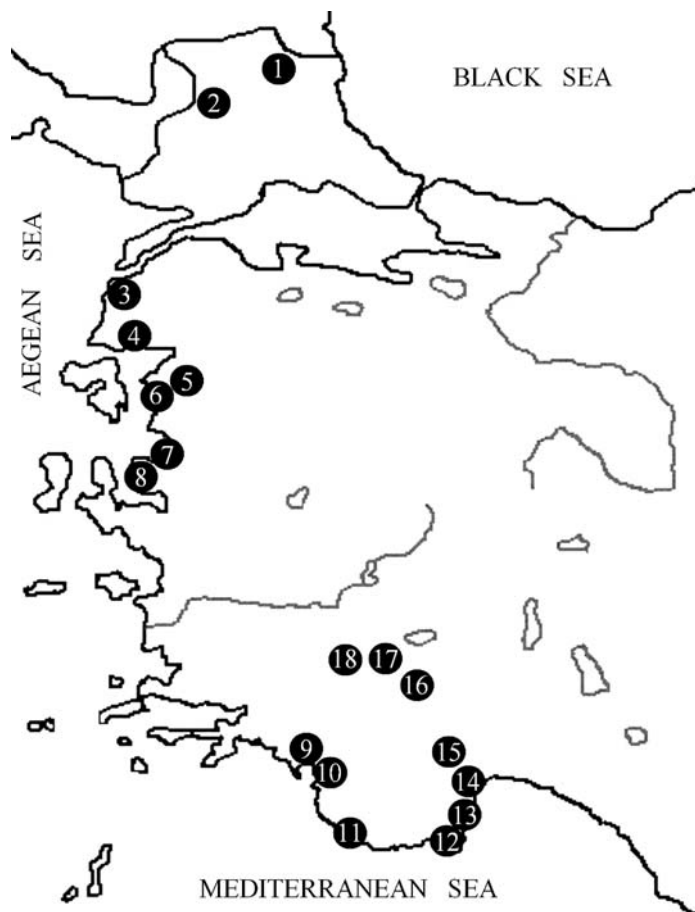


Fig. 1 – Odonata collecting sites from Western Turkey: 1, Kanli Dere; 2, Pehlivan köyü; 3, Troy; 4, Küçükkuş; 5, Bergama; 6, Dikili; 7, Aliğa; 8, Yenifoça; 9, Köyceğiz lake; 10, Ortaca (Dalaman Çayı river); 11, Patara; 12, Etmek Park; 13, Tekirova; 14, Düzlerçami, Karaman river; 15, Kizildere; 16, Karaman Dam lake; 17, Salda lake; 18, Korucuk.

Köyceğiz lake, western shore, Muğla province; Ortaca, Dalaman Çayı river, Muğla province; Patara, Ova lake, Antalya province; Chimera, Etmek Park, Antalya province; 15 km West from Tekirova, Kemer area, Antalya Province; Düzlerçami, near Karaman river, Antalya province; Kizildere river, Burdur province; Karaman Dam lake, Burdur province; Salda lake, 2 km South of Doğanbaba, Burdur province; Korucuk, Menderes river, Denizli province.

The species identification and distribution was made using Askew (2004), Cîrdej & Bulimar (1965), Kalkman et al. (2003), Salur & Özsaraç (2004) and Miroğlu & Kartal (2008). All the collected material was deposited in the “Grigore Antipa” National Museum of Natural History collections.

Abbreviations:

Names of the collectors: C.P. - Corneliu Pârnu; G.C. - Gabriel Chişamera; R.P.M. - Răzvan Popescu-Mirceni; R.Z. - Răzvan Zaharia; R.B. - Răzvan Bujor; M.I. - Mihai Ionescu; S.G. - Sorin Grigore.

RESULTS AND DISCUSSIONS

Among the numerous collected entomological materials there were also some specimens of Odonata belonging to 27 species grouped in 16 genera and nine families: Calopterygidae (2), Euphaeidae (1), Lestidae (2), Platycnemididae (1), Coenagrionidae (4), Aeshnidae (2), Gomphidae (2), Cordulegastridae (1) and the most numerous Libellulidae (12 species).

Suborder Zygoptera, Selys 1840

Family Calopterygidae Buchecker, 1876

Calopteryx Leach, 1815*Calopteryx splendens* (Harris, 1782)

Material: 1 ♂, Turkey, Köyceğiz lake, western shore, Muğla province, 19.07.2005, leg. C.P.; 1 ♀, Turkey, Korucuk, Menderes River, Denizli province, 13.07.2005, leg. C.P.; 2 ♂♂, Turkey, Bergama, Bakýr Çayı river, Izmir province, 01.08.2006, leg. C.P.

Distribution. It is a Palearctic species found in all Europe and Southern and Central Asia, except Spain and Southern France where it was replaced by *C. xanthostoma* (Askew, 2004). In Turkey it is a common species and five subspecies of *Calopteryx splendens* can be found (Kalkman et al., 2003).

Calopteryx virgo festiva (Brullé, 1758)

Material: 8 ♂♂, 9 ♀♀, Turkey, Köyceğiz lake, western shore, Muğla province, 19.07.2005, leg. C.P. and G.C.; 3 ♂♂, 1 ♀, Turkey, 15 km West from Tekirova, Kemer area, Antalya province, 16.07.2005, leg. G.C.

Distribution. It is a Palearctic species found in all Europe and Western and Central Asia. In Turkey it is a widespread species (Askew, 2004; Kalkman et al., 2003).

Family Euphaeidae Selys, 1853

Epallage Charpentier, 1840*Epallage fatime* Charpentier, 1840

Material: 9 ♂♂, 1 ♀, Turkey, 15 km West from Tekirova, Kemer area, Antalya province, 16.07.2005, leg. G.C.

Distribution. It is found from Eastern Mediterranean, Middle East, Caucasus, Arabian Peninsula to Western India. In Turkey it is a widespread species (Askew, 2004; Kalkman et al., 2003; Miroğlu & Kartal, 2008).

Family Lestidae Calvert, 1901

Lestes Leach, 1815*Lestes virens* (Charpentier, 1825)

Material: 1 ♀, Turkey, Kizildere river, Burdur province, 15.07.2005, leg. G.C.

Distribution. It is a Mediterranean species, found in Spain, Central Europe, Northern Africa and South-West Asia. In Turkey was found only in several places mainly in European Turkey and on the coasts (Askew, 2004; Kalkman et al., 2003).

Lestes barbarus (Fabricius, 1798)

Material: 2 ♀♀, Turkey, Köyceğiz lake, western shore, Muğla, province, 19.07.2005, leg. C.P.; 2 ♀♀, Turkey, Aliağa, Izmir province, 06.08.2006, leg. R.P.M.

Distribution. It is a Mediterranean species with a more southern distribution than the previous species. In Turkey it is a widespread species (Askew, 2004; Kalkman et al., 2003; Salur & Özsaraç, 2004).

Family Platycnemididae Tillyard et Fraser, 1938

Platycnemis Burmeister, 1839*Platycnemis pennipes* (Pallas, 1771)

Material: 8 ♂♂, 1 ♀, Turkey, Korucuk, Menderes river, Denizli province, 13.07.2005, leg. C.P.; 13 ♂♂, 9 ♀♀, Turkey, Karaman river, near Düzlerçami, Antalya province, 15.07.2005, leg. G.C.; 1 ♂, Turkey, Karaman dam lake, Burdur province, 15.07.2005, leg. C.P.; 1 ♂, 2 ♀♀, Turkey, Ortaca, Dalaman Çayı river, Muğla province, 18.07.2005, leg. C.P.; 3 ♂♂, 3 ♀♀, Turkey, Köyceğiz lake, western shore, Muğla, province, 19.07.2005, leg. C.P. and G.C.; 3 ♂♂, 3 ♀♀, Turkey, Kanlı Dere Koprosu, Kırklareli province, 29.07.2005, leg. C.P. and G.C.; 2 ♀♀, Turkey, Bergama, Bakır Çayı river, Izmir province, 01.08.2006, leg. C.P. and R.P.M.

Distribution. Euro-Asian species found in all Europe, except the Iberian Peninsula, and Ireland, and in Western and Central Asia. In Turkey is widespread especially in the western half (Askew, 2004; Kalkman et al., 2003).

Family Coenagrionidae Kirby, 1890

Enallagma Selys, 1876*Enallagma cyathigerum* Charpentier, 1840

Material: 1 ♀, Turkey, 2 km West of Küçükuyu, Çanakkale province, 11.07.2005, leg. C.P.; 1 ♀, Turkey, Salda lake, 2 km South of Doğanbaba, Burdur province, 14.07.2005, leg. C.P.; 1 ♂, Turkey, Karaman dam lake, Burdur province, 15.07.2005, leg. C.P.

Distribution. It is a Circumboreal species found in North America, Europe and Asia. In Turkey there are two subspecies of *Enallagma* found in all of the country (Askew, 2004; Kalkman et al., 2003; Miroğlu & Kartal, 2008). The species hasn't been reported from Çanakkale province.

Ischnura Charpentier, 1840*Ischnura pumilio* (Charpentier, 1825)

Material: 5 ♂♂, 2 ♀♀, Turkey, Bergama, Bakır Çayı river, Izmir province, 01.08.2006, leg. C.P. and R.P.M.; 1 ♂, 1 ♀, Turkey, Troy ruins, Çanakkale province, 7.08.2006, leg. C.P.

Distribution. It is found all over Europe in scattered colonies. In Turkey it is a widespread species (Askew, 2004; Kalkman et al., 2003; Salur & Özsaraç, 2004).

Ischnura elegans (Van der Linden, 1820)

Material: 1 ♀, Turkey, 2 km West of Küçükkuyu, Çanakkale province, 10.07.2005, leg. C.P.; 1 ♀, Turkey, Korucuk, Menderes river, Denizli province, 13.07.2005, C.P.; 2 ♂♂, 2 ♀♀, Turkey, Karaman river, near Düzlerçami, Antalya province, 15.07.2005, leg. G.C.; 1 ♂, Turkey, Karaman dam lake, Burdur province, 15.07.2005, leg. C.P.; 4 ♂♂, 1 ♀, Turkey, Chimera, Etmek Park, Antalya province, 16.07.2005, leg. C.P.; 1 ♀, Turkey, Patara, Ova lake, Antalya province, 17.07.2005, leg. C.P.; 4 ♂♂, 3 ♀♀, Turkey, Ortaca, Dalaman Çayı river, Muğla province, 18.07.2005, leg. G.C.; 11 ♂♂, 6 ♀♀, Turkey, Kanli Dere Koproşu, Kırklareli province, 29.07.2005, leg. C.P. and G.C.; 5 ♂♂, 4 ♀♀, Turkey, Bergama, Bakır Çayı River, Izmir province, 01.08.2006, leg. C.P.

Distribution. It is widespread in Middle East, Russia, China and Europe except a large portion of the Iberian Peninsula, Iceland, Northern Scandinavia and some of the great Mediterranean islands. In Turkey it is a widespread species (Askew, 2004; Kalkman et al., 2003; Miroğlu & Kartal, 2008).

Ceriagrion Sélys, 1876*Ceriagrion georgfreysi* Schmidt, 1953

Material: 1 ♀, Turkey, Köyceğiz lake, western shore, Muğla province, 19.07.2005, leg. C.P.; 1 ♂, Turkey, Karaman river, near Düzlerçami, Antalya province, 15.07.2005, leg. G.C.

Distribution. It is found mainly in the South West of Europe, Northern Africa, Turkey and Syria. In Turkey, the species can be found only in the South of the country on the Mediterranean shore (Askew, 2004; Kalkman et al., 2003).

Suborder Anisoptera Selys, 1840

Family Aeshnidae Selys, 1850

Aeshna Fabricius, 1775*Aeshna isosceles antehumeralis* (Schmidt, 1954)

Material: 2 ♂♂, 1 ♀, Turkey, Köyceğiz lake, western shore, Muğla province, 19.07.2005, leg. C.P.

Distribution. It is a Mediterranean species found in Europe (Southern and Central Europe and localised in Northern Europe), Northern Africa, Iran, Armenia up to Caucasus. In Turkey it is a widespread species (Askew, 2004; Kalkman et al., 2003; Miroğlu & Kartal, 2008).

Caliaeschna Sélys, 1883*Caliaeschna microstigma* (Schneider, 1845)

Material: 1 ♂, Turkey, Köyceğiz lake, western shore, Muğla province, 19.07.2005, leg. C.P.

Distribution. It is distributed from the Balkan Peninsula to the Caucasus Mountains and Asia Minor. In Turkey it is found throughout the country (Askew, 2004; Kalkman et al., 2003; Miroğlu & Kartal, 2008).

Family Gomphidae Selys, 1850

Onychogomphus Selys, 1854*Onychogomphus forcipatus albotibialis* Schmidt, 1954

Material: 2 ♂♂, 1 ♀, Turkey, Salda lake, 2 km from Doğanbaba, Burdur province, 14.07.2005, leg. C.P. and G.C.; 2 ♂♂, Turkey, Bergama, Bakır Çayı river, Izmir province, 01.08.2006; leg. C.P., R.Z., R.B. and R.P.M.

Distribution. It is a Euro-Mediterranean species distributed up to Ural Mountains. In Turkey it is a widespread species (Askew, 2004; Kalkman et al., 2003; Miroğlu & Kartal, 2008).

Lindenia De Haan, 1826*Lindenia tetraphylla* (Van der Linde, 1825)

Material: 1 ♂, Turkey, Köyceğiz lake, western shore, Muğla province, 19.07.2005, leg. C.P.

Distribution. It is a species common in parts of the Middle East and some parts of the Caucasus and Central Asia and quite rare in Europe (mainly in the Balkans and very few localities in Spain, Italy and Corsica) (Askew, 2004). In Turkey was found in very few places mainly near Köyceğiz lake and Gölbaşı (Kalkman et al., 2003).

Family Cordulegasteridae

Cordulegaster Leach, 1815*Cordulegaster picta* Selys, 1854

Material: 2 ♂♂, 1 ♀, Turkey, Köyceğiz lake, western shore, Muğla province, 19.07.2005, leg. G.C.

Distribution. It is found in Southern Caucasus, the Turkish Black Sea shore, Greek shore of the Aegean Sea. In Turkey, the species can be found mainly in the North-East of the country, on the Black Sea shore, near Köyceğiz lake and also near Van lake (Askew, 2004; Kalkman et al., 2003; Miroğlu & Kartal, 2008).

Family Libellulidae

Libellula Linnaeus, 1758*Libellula fulva* O. F. Müller, 1764

Material: 6 ♂♂, Turkey, Köyceğiz lake, western shore, Muğla province, 19.07.2005, C.P. and G.C.

Distribution. It is found in Europe from the Mediterranean Sea to East Russia. In Turkey it is found in very few localities (Askew, 2004; Kalkman et al., 2003; Miroğlu & Kartal, 2008).

Orthetrum Newman, 1833*Orthetrum albistylum* (Selys, 1848)

Material: 1 ♀, Turkey, Kanlı Dere Koproşu, Kırklareli province, 29.07.2005, C.P.; 1 ♂, Turkey, Troy ruins, Çanakkale province, 7.08.2006, C.P.

Distribution. It is an Eastern-Palaeartic species extending from Japan to Central Asia, Middle East and Europe. In Turkey it is found in few places mainly in the European Turkey and on the Black Sea coast (Askew, 2004; Kalkman et al., 2003; Miroğlu & Kartal, 2008).

Orthetrum brunneum (Fonscolombe, 1837)

Material: 1 ♂, Turkey, 2 km West of Küçükkuyu, Çanakkale province, 10.07.2005, leg. C.P.; 4 ♂♂, Turkey, Korucuk, Menderes river, Denizli province, 13.07.2005, leg. C.P.; 1 ♂, Turkey, Küçükkuyu, Çanakkale province, 30.07.2006, leg. M.I.; 1 ♂, Turkey, Bergama, Bakýr Çayi river, Izmir province, 01.08.2006, leg. R.Z., R.B. and R.P.M.; 1 ♀, Turkey, Aliağa, Izmir province, 06.08.2006, leg. C.P. and R.P.M.; 1 ♀, Turkey, Troy ruins, Çanakkale province, 07.08.2006, leg. C.P.

Distribution. It is a South Palaeartic species found in the Mediterranean area, North Africa, Middle East and Asia to Gobi desert. In Turkey it is a widespread species (Askew, 2004; Kalkman et al., 2003; Miroğlu & Kartal, 2008).

Orthetrum cancellatum Linnaeus, 1758

Material: 3 ♂♂, Turkey, Salda lake, 2 km from Doğanbaba, Burdur province, 14.07.2005, leg. C.P. and G.C.; 1 ♀, Turkey, Pehlivanköy, Edirne province, 28.07.2005, leg. C.P.

Distribution. It is a widespread species in Europe, Northern Africa, Middle East and Asia up to Mongolia. In Turkey it is a widespread species (Askew, 2004; Kalkman et al., 2003; Miroğlu & Kartal, 2008).

Orthetrum chrysostigma chrysostigma (Burmeister, 1839)

Material: 1 ♀, Turkey, Ortaca, Dalaman Çayi river, Muğla province, 18.07.2005, leg. G.C.; 1 ♂, Turkey, Chimera, Etmek Park, Antalya province, 16.07.2005, leg. C.P.

Distribution. It is widespread in the all Africa, Middle East and in Southern Spain and Greece. In Turkey it is found on the southern shore of the Mediterranean Sea (Askew, 2004; Kalkman et al., 2003).

Orthetrum caerulescens anceps (Schneider, 1845)

Material: 1 ♂, Turkey, Korucuk, Menderes River, Denizli province, 13.07.2005, leg. C.P.; 1 ♀, 1 ♂, Turkey, Salda lake, 2 km from Doğanbaba, Burdur province, 14.07.2005, leg. C.P.; 2 ♀♀ Turkey, Karaman river, near Düzlerçami, Antalya province, 15.07.2005, leg. G.C.; 2 ♂♂, 1 ♀, Turkey, Köyceğiz lake, western shore, Muğla, province, 19.07.2005, C.P. and G.C.; 1 ♀, Turkey, Pehlivanköy, Edirne province, 28.07.2005, leg. C.P.; 1 ♂, Turkey, Korucuk, Denizli province, 03.08.2006, leg. R.Z.; 1 ♂, Turkey, Troy ruins, Çanakkale province, 7.08.2006, C.P.

Distribution. It is widespread in Western and Central Europe. In Turkey it is a widespread species (Askew, 2004; Kalkman et al., 2003; Salur & Özsaraç, 2004).

Orthetrum taeniolatum (Schneider, 1845)

Material: 1 ♂, 1 ♀, Turkey, Ortaca, Dalaman Çayı river, Muğla province, 18.07.2005, leg. G.C.

Distribution. It is a common species in Northern Africa and the Middle East and rare in Europe (recorded from Spain and Greece). In Turkey it is found on the southern shore of the Mediterranean Sea (Askew, 2004; Kalkman et al., 2003).

Orthetrum sabina (Drury, 1770)

Material: 1 ♀, 1 ♂, Turkey, Chimera, Etmek Park, Antalya province, 16.07.2005, leg. G.C.

Distribution. It is a very widespread dragonfly found from Northern Africa, Middle East, Arabia, India, Japan, Malaya, Philippines and Australia. In Turkey it is found in the South on the Mediterranean coast (Askew, 2004; Kalkman et al., 2003).

Crocothemis Brauer, 1868

Crocothemis erythraea (Brullé, 1832)

Material: 1 ♂, Turkey, Karaman river, near Düzlerçami, Antalya province, 15.07.2005, leg. G.C.; 6 ♂♂, 6 ♀♀, Turkey, Chimera, Etmek Park, Antalya province, 16.07.2005, leg. G.C.; 2 ♀♀, Turkey, Patara, Ova lake, Antalya province, 17.07.2005, leg. C.P. and G.C.; 1 ♂, Turkey, Ortaca, Dalaman Çayı river, Muğla province, 18.07.2005, leg. G.C.

Distribution. It spreads throughout the Mediterranean area, North Africa, Middle East, Pakistan and Afghanistan. In Turkey it is a widespread species (Askew, 2004; Kalkman et al., 2003; Miroğlu & Kartal, 2008).

Sympetrum Newman, 1833

Sympetrum fonscolombi (Sélys, 840)

Material: 1 ♂, Turkey, Salda lake, 2 km from Doğanbaba, Burdur province, 14.07.2005, G.C.; 1 ♀, Turkey, Dikili, Aydın province, 24.07.2005, leg. C.P.; 1 ♂, 1 ♀, Turkey, Kanlı Dere, Koprusu, Kırklareli province, 29.07.2005, leg. C.P.; 2 ♂♂, 2 ♀♀, Turkey, Küçükkuşu, Çanakkale province, 30.07.2006, leg. M.I.; 7 ♂♂, 5 ♀♀, Turkey, Bergama, Bakır Çayı river, İzmir province, 01.08.2006, leg. C.P., R.Z., R.B. and R.P.M.; 1 ♀, Turkey, Kuruçuk, Denizli province, 03.08.2006, leg. R.Z.; 2 ♂♂, 4 ♀♀, Turkey, Yenifoça, İzmir province, 05.08.2006, leg. C.P. and M.I.; 1 ♂, 6 ♀♀, Turkey, Aliğa, İzmir province, 06.08.2006, leg. C.P. and R.P.M.; 2 ♂♂, 2 ♀♀, Turkey, Troy ruins, Çanakkale province, 7.08.2006, leg. C.P.

Distribution. It is found in the Mediterranean area, throughout Africa and the Middle East, India, Sri Lanka, Siberia and Mongolia. In Turkey it is a widespread species (Askew, 2004; Kalkman et al., 2003; Miroğlu & Kartal, 2008).

Trithemis Brauer, 1868
Trithemis annulata (P. de Beauvais, 1807)

Material: 1 ♀, Turkey, Patara, Ova lake, Antalya province, 17.07.2005, leg. G.C.; 1 ♀, Turkey, Ortaca, Dalaman Çayı River, Muğla province, 18.07.2005, leg. G.C.

Distribution. It is found in Africa, Middle East, Arabia, Western Asia and in Europe in Spain, Portugal, Italy, Greece and Turkey on the shores of the Mediterranean Sea (Askew, 2004; Kalkman et al., 2003).

Trithemis festiva (Rambur, 1842)

Material: 1 ♂, Turkey, Ortaca, Dalaman Çayı river, Muğla province, 18.07.2005, leg. G.C.; 1 ♂, 1 ♀, Turkey, 15 km West from Tekirova, Kemer area, Antalya province, 16.07.2005, leg. G.C.

Distribution. It is found in Iraq, Cyprus, Turkmenia and up to Himalayas. In Turkey it is found in the South on the Mediterranean coast (Askew, 2004; Kalkman et al., 2003).

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DATE ASUPRA UNOR ODONATE (INSECTA: ODONATA) DIN VESTUL TURCIEI
[Rezultatele expedițiilor „Taurus”-2005 și „Focida”-2006]

REZUMAT

Lucrarea prezintă o listă de 258 de exemplare de odonate colectate pe parcursul expedițiilor efectuate în Turcia între anii 2005-2006 de către Societatea de Explorări Oceanografice și Protecție a Mediului Marin „Oceanic Club” din Constanța, în colaborare cu Muzeul Național de Istorie Naturală “Grigore Antipa” din București. În total au fost identificate 27 de specii de odonate grupate în 16 genuri și 9 familii. Lucrarea prezintă și date privind distribuția mondială și în Turcia a celor 27 de specii identificate. Exemplarele de odonate colectate din Turcia reprezintă o valoroasă contribuție la colecțiile de odonate exotice ale Muzeului Național de Istorie Naturală “Grigore Antipa”.

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Elena Pistică

Muzeul Național de Istorie Naturală "Grigore Antipa"

Șos. Kiseleff nr. 1, 011341 București 2, România

e-mail: elenap@antipa.ro

Răzvan Popescu-Mirceni

Societatea de Explorări Oceanografice

și Protecție a Mediului Marin „Oceanic Club”

Str. Decebal 41, Constanța, România

e-mail: club@oceanic.ro