

## ODONATA FAUNA OF TOKAT PROVINCE (TURKEY)

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**ABSTRACT:** In this study, odonatan specimens collected from the Tokat province in central part of Black Sea Region of Anatolia in 2005 and 2010 have been established faunistically. 30 species belonging to 8 families are found to be distributed in Tokat province. Among these, 2 species belong to Calopterygidae, 1 species to Euphaeidae, 3 species to Lestidae, 1 species to Platynemididae, 7 species to Coenagrionidae, 3 species to Aeshnidae, 2 species to Gomphidae, 11 species to Libellulidae. All species were stated as the first records for Tokat province.

**KEY WORDS:** Odonata, Fauna, Tokat, Turkey.

Tokat is located in the Black Sea Region of Turkey. It borders Samsun province to the north, Ordu province to the northeast, Sivas province to the east and south. It also borders Yozgat province to the southwest and Amasya province to the west. Tokat province has the features of a gateway between climates of Central Anatolia, Central-Eastern Anatolia, the Black Sea and Central Black Sea.

There have been many studies reported about the Odonata fauna of Turkey until now. But when literature is scanned, it is noticed that there is not any study about odonatan fauna of Tokat province (Demirsoy, 1995; Kalkman et al., 2006). Field trips were made in 2005 and 2010 to Tokat province to supply this information deficiency. Furthermore, the records of samples which were collected from Tokat province in 2005 is ordered and this article is created.

Field study was carried out in different periods between June 2005 and June to September 2010 in Tokat province. Odonata species were collected with aerial net. specimens were put into killing jars and then softened and pinned. All the specimens were deposited in Hitit University Zoology Museum.

### Family Calopterygidae

#### *Calopteryx splendens amasina* Bartenef, 1911

**Materials:** *Niksar:* 1♂, 1♀, 27/06/2005, Kümbetli, 258 m, 40°37'N 36°48'E; *Erbaa:* 2♂♂, 1♀, 27/06/2005, Ağcaalan, 227 m, 40°39'N 36°42'E; 4♂♂, 1♀, 23/06/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E; 5♂♂, 1♀, 23/06/2010, Gölönü - Gölönü Lake, 1066m, 40° 34' 230" N 36° 29' 277" E; 7♂♂, 25/07/2010, near Alacabal - Bostanlı, 330m, 40° 38' 383" N 36° 31' 944"E; 3♂♂, 25/07/2010, near Alacabal - Yürük içi, 331 m, 40° 38' 706" N 36° 31'778"E; 6♂♂, 1♀, 25/07/2010, Koçak village - Körgova, 445 m, 40° 39' 090" N 36° 31'760"E; 2♂♂, 1♀, 25/07/2010, Koçak village - Çilçilin pınar, 416 m, 40° 39' 455" N 36° 32'231"E; 2♂♂, 1♀, 25/07/2010, Koçak village -Entry of industry, 443 m, 40° 39' 914" N 36° 31'551"E; 12♂♂, 26/07/2010, Keçeçi - Özündere, 1019 m, 40° 30' 103" N 36° 28' 648"E; 3♂♂, 1♀, 26/07/2010, Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E; 10♂♂, 4♀♀, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 7♂♂ 26/07/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E; 9♀♀♀, 26/07/2010, Keçeçi - Özündere, 1019 m, 40° 30' 103" N 36° 28' 648"E; 2♂♂, 3♀♀♀, 04/09/2010, Tosunlar village -canal, 135 m, 40° 42'837"N 36° 32'749"E; 2♂♂, 04/09/2010, Kale village - Kale bridge, 195 m, 40°45'271"N 36°30'600"E. **Phenology and Habitat:** June, July and September. Coast of canal, coast of marsh, coast of small stream.

***Calopteryx virgo festiva* (Brullé, 1832)**

**Materials:** *Erbaa:* 1♀, 23/06/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E; 1♂, 1♀, 23/06/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 5♂♂, 25/07/2010, near Alacabal - Bostanlık, 330 m, 40° 38' 383" N 36° 31' 944"E; 1♂, 25/07/2010, near Alacabal - Yürük içi, 331 m, 40° 38' 706" N 36° 31' 778"E; 2♂♂, 25/07/2010, Koçak village - Körgova, 445 m, 40° 39' 090" N 36° 31' 760"E; 3♀♀, 25/07/2010, Koçak village - Entry of industry, 443 m, 40° 39' 914" N 36° 31' 551"E; 2♂♂, 1♀, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 4♂♂, 2 ♀♀, 26/07/2010, Keçeçi - Özüdere, 1019 m, 40° 30' 103" N 36° 28' 648"E. **Phenology and Habitat:** June and July. Pool of near the spring, pool of near the spring, coast of marsh.

**Family Euphaeidae*****Epallage fatime* (Charpentier, 1840)**

**Materials:** *Erbaa:* 2♂♂, 1♀, 27/06/2005, Ağcaalan, 227 m, 40°39'N 36°42'E; *Niksar:* 1♂, 28/06/2005, Muhtardüzü, 352 m, 40°27'N 37°02'E; *Reşadiye:* 1♂, 1♀, 29.06.2005, Kışlaoğlu, 566 m, 40°21'N 37°27'E. **Phenology and Habitat:** June. Coast of stream.

**Family Lestidae*****Lestes barbarus* (Fabricius, 1798)**

**Materials:** *Reşadiye:* 1♂, 29/06/2005, Altıparmak, 507 m, 40°22'N 37°22'E; *Erbaa:* 1♀, 25/07/2010, Koçak village - Entry of industry, 443 m, 40° 39' 914" N 36° 31' 551"E; 19♂♂, 14♀♀, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 1♂, 26/07/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E; 3♂♂, 26/07/2010, Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E. **Phenology and Habitat:** June and July. Coast of lake, coast of marsh, near the small stream.

***Lestes dryas* Kirby, 1890**

**Materials:** *Erbaa:* 2♂♂, 23/06/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 7♂♂, 26/07/2010, Gölönü - Gölönü Lake 1066 m, 40° 34' 230" N 36° 29' 277" E. **Phenology and Habitat:** June and July. Coast of lake.

***Sympecma fusca* (Vander Linden, 1820)**

**Materials:** *Erbaa:* 1♂, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E. **Phenology and Habitat:** July. Coast of lake.

**Family Platycnemididae*****Platycnemis pennipes* (Pallas, 1771)**

**Materials:** *Niksar:* 1♂, 2♀♀, 27/06/2005, Kümbetli, 258 m, 40°37'N 36°48'E; 2♂♂, 2♀♀, 27/06/2005; *Erbaa:* Tepekişla, 220 m, 40°40'N 36°40'E; 8♂♂, 4♀♀, 23/06/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E; 4♂♂, 2♀♀, 23/06/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 6♂♂, 3♀♀, 25/07/2010, near Alacabal - Bostanlık, 330 m, 40° 38' 383" N 36° 31' 944"E; 17♂♂, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 6♂♂, 26/07/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E; 85♂♂, 14♀♀, 26/07/2010, Keçeçi - Özüdere, 1019 m, 40° 30' 103" N 36° 28' 648"E. **Phenology and Habitat:** June and July. Coast of lake, coast of marsh, near the stream.

**Family Coenagrionidae*****Coenagrion ornatum* (Sélys, 1850)**

**Material:** *Niksar:* 1♂, 28/06/2005, Ormançık, 342 m, 40°30'N 36°54'E. **Phenology and Habitat:** June. Pool of near the spring.

***Coenagrion puella* (Linnaeus, 1758)**

**Materials:** *Reşadiye:* 1♀, 29/06/2005, Altıparmak, 507 m, 40°22'N 37°22'E; *Niksar:* 7♂♂, 28/06/2005, Ormançık, 342 m, 40°30'N 36°54'E; *Erbaa:* 18♂♂, 3♀♀, 23/06/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E; 99♂♂, 13♀♀, 23/06/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 3 ♀♀, 23/06/2010, Meydandüzü - Büyükyuvak, 911 m, 40° 35' 939" N 36° 29' 632" E; 2♂♂, 3♀♀, 25/07/2010, near Alacabal -

Bostanlık, 330 m, 40° 38' 383" N 36° 31' 944"E; 1♂, 26/07/2010 Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E; 3♂♂, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 6♂♂, 2♀♀, 26/07/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E. **Phenology and Habitat:** June and July. coast of marsh, lake, near the small stream.

#### *Coenagrion scitulum* (Rambur, 1842)

**Materials:** *Erbaa:* 1♂, 23/06/2010, Meydandüzü - Küçük Yuvak, 911m, 40° 35' 974" N 36° 30' 603" E; 1♂, 23/06/2010, Gölönü - Gölönü Lake, 1066m, 40° 34' 230" N 36° 29' 277" E; 2♀♀, 04/09/2010, Kale village - Kale bridge, 195m, 40°45'271"N 36°30'600"E. **Phenology and Habitat :** June and September. Pool of near the spring, coast of lake.

#### *Enallagma cyathigerum* (Charpentier, 1840)

**Materials:** *Erbaa:* 1♀, 25/07/2010, Koçak village - Çilçilin pınar, 416 m, 40° 39' 455" N 36° 32' 231"E; 1♂, 25/07/2010, near Alacabal - Bostanlık, 330 m, 40° 38' 383" N 36° 31' 944"E; 1♂, 1♀, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E. **Phenology and Habitat:** July. Pool of near the spring, coast of lake.

#### *Ischnura elegans ebneri* Schmidt, 1938

**Materials:** *Reşadiye:* 1♂, 4♀♀, 29/06/2005, Altıparmak, 507 m, 40°22'N 37°22'E; *Niksar:* 2♂, 1♀, 28/06/2005, Ormancık, 342 m, 40°30'N 36°54'E; *Erbaa:* 67♂♂, 18♀♀, 23/06/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 11♂♂, 1♀, 25/07/2010, near Alacabal - Bostanlık, 330 m, 40° 38' 383" N 36° 31' 944"E; 1♂, 26/07/2010, Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E; 6♂♂, 6♀♀, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 4♂♂, 1♀, 04/09/2010, Tosunlar village -canal, 135 m, 40° 42'837"N 36° 32'749"E. **Phenology and Habitat:** June, July and September. Coast of lake, coast of marsh, pool of near the spring, near the small stream.

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

**Materials:** *Reşadiye:* 1♀, 29/06/2005, Altıparmak, 507 m, 40°22'N 37°22'E; *Erbaa:* 1♂, 23/06/2010, Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E; 1♂, 23/06/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E; 1♂, 4♀♀, 23/06/2010, , Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 15♂♂, 10♀♀, 25/07/2010, near Alacabal - Bostanlık, 330 m, 40° 38' 383" N 36° 31' 944"E; 4♂♂, 4♀♀, 25/07/2010, Koçak village - Körgova, 445 m, 40° 39' 090" N 36° 31'760"E; 1♂, 26/07/2010, Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E; 3♂♂, 26/07/2010, Gölönü - Gölönü Lake (lake), 1066 m, 40° 34' 230" N 36° 29' 277" E. **Phenology and Habitat:** June, July. Coast of lake, coast of marsh, pool of near the spring, near the small stream.

#### *Pyrrhosoma nymphula* (Sulzer, 1776)

**Materials:** *Erbaa:* 1♂, 1♀, 23/06/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E. **Phenology and Habitat :** June. Coast of marsh.

#### Family Aeshnidae

##### *Aeshna affinis* Vander Linden, 1820

**Materials:** *Erbaa:* 8♂♂, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E. **Phenology and Habitat:** July. Lake.

##### *Aeshna isosceles antehumeralis* (Schmidt, 1954)

**Materials:** *Erbaa:* 7♂♂, 23/06/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 1♀, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E. **Phenology and Habitat:** June and July. Lake.

##### *Caliaeshna microstigma* (Schneider, 1845)

**Materials:** *Erbaa:* 4♂♂, 27/06/2005, Ağcaalan, 227 m. 40°39'N 36°42'E; 1♂, 23/06/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E; *Reşadiye:* 1♂, 29.06.2005, Karaağaç, 615 m, 40°20'N 37°32'E. **Phenology and Habitat:** June. Coast of marsh.

## Family Gomphidae

*Gomphus schneideri* Sélvs, 1850

**Materials:** *Erbaa:* 1♀, 27/06/2005, Tepekışla, 220 m, 40°40'N 36°40'E. **Phenology and Habitat:** June. Near the small stream.

*Onychogomphus forcipatus albotibialis* Schmidt, 1954

**Materials:** *Erbaa:* 1♂, 25/07/2010, near Alacabal - Bostanlık, 330 m, 40° 38' 383" N 36° 31' 944"E; 1♂, 26/07/2010, Keçeci - Özün dere, 1019 m, 40° 30' 103" N 36° 28'648"E . **Phenology and Habitat:** July. Coast of small stream.

## Family Libellulidae

*Libellula depressa* Linnaeus, 1758

**Materials:** *Erbaa:* 1♂, 23/06/2010, Meydandüzü -Büyük yuvak, 911 m, 40° 35' 939" N 36° 29' 632" E; 2♂♂, 23/06/2010, Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E; 2♂♂, 23/06/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E; 1♀, 23/06/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 1♀, 23/06/2010, Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E; 2♂♂, 26/07/2010, Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E; 1♀, 1♂, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E. **Phenology and Habitat:** June and July. Lake, coast of marsh.

*Orthetrum albistylum* (Sélvs, 1848)

**Materials:** *Erbaa:* 3♂♂, 04/09/2010, Tosunlar village - canal, 135 m, 40° 42'837"N 36° 32'749"E. **Phenology and Habitat:** September. Cast of marsh.

*Orthetrum brunneum* (Fonscolombe, 1837)

**Materials:** *Niksar:* 2♂♂, 27/06/2005, Kümbetli, 258 m, 40°37'N 36°48'E; *Erbaa:* 3♂♂, 1♀, 23/06/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E; 5♂♂, 23/06/2010, Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E; 2♂♂, 2♀♀, 25/07/2010, Koçak village - Çilçilin pınar, 416 m, 40° 39' 455" N 36° 32'231"E; 11♂♂, 2♀♀, 25/07/2010, Koçak village - Körgova, 445 m, 40° 39' 090" N 36° 31'760"E; 6♂♂, 25/07/2010, near Alacabal - Yürük içi, 331 m, 40° 38' 706" N 36° 31'778"E; 27♂♂, 5♀♀, 25/07/2010, near Alacabal - Bostanlık, 330 m, 40° 38' 383" N 36° 31' 944"E; 2♂♂, 26/07/2010, Kozlu - Gavur tarlası, 850 m, 40° 36' 956" N 36° 29' 570"E; 1♂, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 3♂♂, 26/07/2010, Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E; 3♂♂, 2♀♀, 04/09/2010, Kale village - Kale bridge, 195 m, 40° 45' 271" N 36° 30' 600"E; 3♂♂, 04/09/2010, Tosunlar village - canal, 135 m, 40° 42'837"N 36° 32'749"E. **Phenology and Habitat:** June, July and September. Pool of near the spring, coast of lake.

*Orthetrum cancellatum* (Linnaeus, 1758)

**Materials:** *Erbaa:* 1♂, 25/07/2010, near Alacabal - Bostanlık, 330 m, 40° 38' 383" N 36° 31' 944"E; 1♂, 25/07/2010, near Alacabal - Yürük içi, 331 m, 40° 38' 706" N 36° 31'778"E; 2♂♂, 1♀, 25/07/2010, Koçak village - Körgova, 445 m, 40° 39' 090" N 36° 31'760"E; 1♀, 25/07/2010, Koçak village - Çilçilin pınar, 416 m, 40° 39' 455" N 36° 32'231"E. **Phenology and Habitat:** July. Coast of small stream.

*Orthetrum coerulescens anceps* (Schneider, 1845)

**Materials:** *Niksar:* 3♂♂,1♀, 28/06/2005, Ormancık, 342 m, 40°30'N 36°54'E; *Erbaa:* 1♂, 27/06/2005, Ağcaalan, 227 m, 40°39'N 36°42'E; 1♂, 1♀, 25/07/2010, near Alacabal - Bostanlık, 330 m, 40° 38' 383" N 36° 31' 944"E; 6♂♂, 25/07/2010, near Alacabal - Yürük içi, 331 m, 40° 38' 706" N 36° 31'778"E; 22♂♂, 1♀, 25/07/2010, Koçak village - Körgova, 445 m, 40° 39' 090" N 36° 31'760"E; 4♂♂, 25/07/2010, Koçak village - Çilçilin pınar, 416 m, 40° 39' 455" N 36° 32'231"E; 1♂, 5♀♀, 25/07/2010, Koçak village - Entry of industry, 443 m, 40° 39' 914" N 36° 31'551"E; 1♂, 26/07/2010, Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E. **Phenology and Habitat:** June and July. Coast of small stream, pool of near the spring.

***Crocothemis erythraea* (Brullé, 1832)**

**Materials:** *Niksar:* 1♂, 27/06/2005, Kümbetli, 258 m, 40°37'N 36°48'E; *Erbaa:* 2♀♀, 23/06/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 3♂♂, 25.07.2010, near Alacabal - Bostanlı, 330 m, 40° 38' 383" N 36° 31' 944"E; 1♂, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 4♂♂, 9♀♀, 04/09/2010, Tosunlar village, 135 m, 40° 42'837"N 36° 32'749"E; 2♀♀, 04/09/2010, Kale village - Kale bridge, 195 m, 40°45'271"N 36°30'600"E. **Phenology and Habitat:** June, July and September. Canal, coast of small stream pool of near the spring.

***Sympetrum fonscolombii* (Sélys, 1840)**

**Materials:** *Erbaa:* 3♂♂, 7♀♀, 25/07/2010, Koçak village - Entry of industry, 443 m, 40° 39' 914" N 36° 31'551"E; 1♀, 25/07/2010, Koçak village - Çilçilin pınar, 416 m, 40° 39' 455" N 36° 32'231"E; 5♂♂, 2♀♀, 26/07/2010, Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E; 3♂♂, 5♀♀, , 26/07/2010, Gölönü - Gölönü Lake (lake), 1066 m, 40° 34' 230" N 36° 29' 277" E; 1♂, 5♀♀, 04/09/2010, Tosunlar village -canal, 135 m, 40° 42'837"N 36° 32'749"E; 1♀, 04/09/2010, Kale village - Kale bridge, 195 m, , 40° 45' 271" N 36° 30' 600"E. **Phenology and Habitat:** July and September. Coast of small stream, coast of lake, coast of canal.

***Sympetrum meridionale* (Sélys, 1841)**

**Materials:** *Erbaa:* 1♀, 25/07/2010, Koçak village - Entry of industry, 443 m, 40° 39' 914" N 36° 31'551"E. **Phenology and Habitat:** July. Pool.

***Sympetrum sanguineum* (O.F. Müller, 1764)**

**Materials:** *Reşadiye:* 2♂♂, 29/06/2005, Altıparmak, 507 m, 40°22'N 37°22'E; *Erbaa:* 1♂, 23/06/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E; 1♀, 25/07/2010, near Alacabal - Bostanlı, 330 m, 40° 38' 383" N 36° 31' 944"E; 2♂♂, 25/07/2010, Koçak village - Entry of industry, 443 m, 40° 39' 914" N 36° 31'551"E; 13♂♂, 8♀♀, 26/07/2010, Gölönü - Gölönü Lake, 1066 m, 40° 34' 230" N 36° 29' 277" E. **Phenology and Habitat:** June and July. Coast of lake, pool.

***Sympetrum striolatum* (Charpentier, 1840)**

**Materials:** *Niksar:* 1♂, 27/06/2005, Dalkaya, 272 m, 40°33'N 36°52'E. **Phenology and Habitat:** June. Edge of the way.

***Pantala flavescens* (Fabricius, 1798)**

**Materials:** *Erbaa:*1♂, 1♀, 26/07/2010, Meydandüzü - Küçük Yuvak, 840 m, 40° 35' 974" N 36° 30' 603" E; 6♂♂, 6♀♀, 25/07/2010, Koçak village - Çilçilin pınar, 416 m, 40° 39' 455" N 36° 32'231"E. **Phenology and Habitat:** July. Pool of near the spring.

**LITERATURE CITED**

- Demirsoy, A.** 1995, "Türkiye Faunası, Odonata", TÜBİTAK Araştırma projesi raporu, 4: (8), xii+438.
- Kalkman, V. J.** 2006. Key to the dragonflies of Turkey, including species known from Greece, Bulgaria, Lebanon, Syria, the Trans-Caucasus and Iran. *Brachytron*, 10 (1): 3-82.