

## Faunistic study on the Subfamily Stratiomyinae from “Region of Lakes” in Turkey (Diptera, Stratiomyidae)

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**Abstract:** In this study some species of the subfamily Stratiomyinae have been given as record from “Region of Lakes” in Turkey. These species are distributed widely in Palaearctic Region. *Stratiomys chamaeleon* (Linnaeus, 1758), *Stratiomys longicornis* (Scopoli, 1763), *Stratiomys ruficornis* (Macquart, 1838) have been recorded for the first time in this area.

Key words: **Stratiomyinae, Region of Lakes, Turkey, Fauna**

## Türkiye’de Göller Bölgesi’nden Stratiomyinae Altfamilyası Üzerine Faunistik Çalışma

**Özet:** Bu çalışmada Türkiye’de Göller Bölgesi’nden Stratiomyinae altfamilyasının bazı türleri kayıt olarak verilmiştir. Bu türler Palaearktik Bölge’de geniş yayılışlıdır. *Stratiomys chamaeleon* (Linnaeus, 1758), *Stratiomys longicornis* (Scopoli, 1763), *Stratiomys ruficornis* (Macquart, 1838) bu alandan ilk kez kayıt edilmiştir.

Anahtar Kelimeler: **Stratiomyinae, Göller Bölgesi, Türkiye, Fauna**

### Introduction

The subfamily Stratiomyinae have been recorded in Turkey by fourteen species belong to four genus. These species are *Exochostoma osellai* Mason, 1995, *Odontomyia discolor* Loew, 1846, *Odontomyia angulata* (Panzer, 1798), *Odontomyia cephalonica* Strobel, 1898, *Odontomyia flavissima* (Rossi, 1790), *Odontomyia hydroleon* (Linnaeus, 1758), *Odontomyia ornata* (Meigen, 1822), *Oplodontha viridula* (Fabricius, 1775), *Stratiomys armeniaca* Bigot, 1879, *Stratiomys cenisia* Meigen,

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1822, *Stratiomys chamaeleon* (Linnaeus, 1758), *Stratiomys longicornis* (Scopoli, 1763), *Stratiomys nigerrima* (Szilady, 1941), *Stratiomys ruficornis* (Macquart, 1838), [1,2, 3]. Type locality of *Exochostoma osellai* Mason, 1995, of *Odontomyia discolor* Loew, 1846 and of *Stratiomys nigerrima* (Szilady, 1941) in Turkey are known in Ilgaz Mountain pass (Bolu) and in Patara (Antalya) and in Eskişehir respectively [1,3]. This study is presented distribute of Stratiomyinae in Lakes Region from Turkey.

## Material and Method

This study is based on totally 139 Stratiomyinae specimens collected in Antalya, Burdur, Isparta and Konya Cities where are known as "Region of Lakes" between April and August 1999. It has been made this study total 194 at locality in fieldwork during total 32 working day. Specimens were collected by net and killed by killing bottles containing Ethyl acetate. They are prepared and preserved as museum materials in collection cupboards at fieldwork area. All the specimens are deposited in the collection of the Zoological Museum of the Gazi Universty (ZMGU), Ankara, TURKEY.

## Results

### STRATIOMYINAE

**Genus: *Odontomyia*** Meigen, 1803

***Odontomyia angulata*** (Panzer, [1798])

**Material examined:** Burdur, 38.01 N., 30.21 E., 5♂♂, 10♀♀, 09.07.1999, ca. 900 m.; Burdur, coast of Burdur Lake, 37.41 N., 30.11 E., 1♂, 2♀♀, 25.06.1999, ca. 900 m.

**Distribution:** Albania, Austria, Belgium, Bulgaria, Czechoslovakia, Denmark, Germany, Great Britain, Italy, France, Hungary, Netherlands, Sweden, Finland, Iceland, from South Scandinavia to Spain, from Iceland to Greece, Switzerland, Poland, Romania, Yugoslavia, Estonia, Lithuania, Latvia, Russia, Byelorussia, Ukraine, Moldavia, Georgia, Azerbaijan, Armenia, Kazakhstan, Uzbekistan, Tajikistan, Kirghizistan, Turkmenistan, West Siberia, East Siberia, Mongolia, Kamchatka, Sakhalin, Kuril, Turkey, Israel, Iran, Afghanistan, China, Morocco, Algeria, Egypt [2, 4, 5, 6, 3, 7].

This species has been known in Makri (Antalya) and Erdek (Balıkkesir) from Turkey.

***Odontomyia hydroleon*** (Linnaeus, 1758)

**Material examined:** Isparta, Gelendost, between Gelendost and Akşehir Yolu, 38.14 N., 31.22 E., 1♀, 08.07.1999, ca. 1600m.; Isparta, Yenişarbademli, between Yenişarbademli and Aksu, 37.43 N., 31.18 E., 2♀♀, 14.07.1999, ca. 1760 m.

**Distribution:** Albania, Austria, Belgium, Bulgaria, Czechoslovakia, Denmark, Finland, France, Germany, Great Britain, Hungary, Iceland, Italy, Netherlands, Norway, Poland, Romania, Sweden, Switzerland, Estonia, Lithuania, Latvia, Russia, Byelorussia, Ukraine, Moldavia, Georgia, Azerbaijan, Armenia, Kazakhstan, Uzbekistan, Tajikistan, Kirghizistan, Turkmenistan, West Siberia, East Siberia, Kamchatka, Sakhalin, Kuril, Turkey, Israel, Afghanistan, Mongolia, China [2,3,4,5,6,7,8].

It has been known in Konya from Turkey [5].

**Genus: *Oplodontha*** Rondani, 1863

***Oplodontha viridula*** (Fabricius, 1775)

**Material examined:** Isparta, Yalvaç, between Yalvaç and Senirkent, 38.19 N., 31.03 E., 2♂♂, 15.06.1999, ca. 1265 m.; Isparta, Uluborlu, İleydağı Village, 38.03 N., 30.23 E., 12♂♂, 3♀♀, 16.06.1999, ca. 1210 m.; Denizli, Çivril, Gökgöl Village, 38.12 N., 30.02 E., 1♂, 2♀♀, 16.06.1999, ca. 850 m.; Isparta, Gelendost, between Gelendost and Akşehir, The Sultan Mountains, 38.16 N., 31.25 E., 5♂♂, 14♀♀, 08.07.1999, ca. 1520 m.; Isparta, Gelendost, between Gelendost and Akşehir, The Sultan Mountains, 38.15 N., 31.22 E., 3♂♂, 5♀♀, 08.07.1999, ca. 1600 m.; Isparta, Yalvaç, Yarıkkaya Village, 38.27 N., 31.02 E., 1♂, 2♀♀, 08.07.1999, ca. 1450 m.; Isparta, Yalvaç, between Yalvaç and Senirkent, 38.19 N., 31.07 E., 1♀, 08.07.1999, ca. 1180 m.; Isparta, Yalvaç, between Yalvaç and Senirkent, 38.19 N., 31.03 E., 2♂♂, 2♀♀, 08.07.1999, ca. 1260 m.; Isparta, Uluborlu, İleydağı Village, 38.03 N., 30.23 E., 2♂♂, 6♀♀, 09.07.1999, ca. 1180 m.; Isparta, Keçiborlu, between Uluborlu and Keçiborlu, 38.01 N., 30.21 E., 1♂, 09.07.1999, ca. 1300 m.; Burdur, Yeşilova, Karaatlı Village, 37.33 N., 29.49 E., 2♂♂, 3♀♀, 09.07.1999, ca. 1230 m.; Antalya, Korkuteli, Kızılcadağı Mountain, 37.02 N., 29.59 E., 1♂, 2♀♀, 11.07.1999, ca. 1580 m.; Isparta, Yenişarbademli, between Yenişarbademli and Aksu, 37.42 N., 31.19 E., 2♀♀, 14.07.1999, ca. 1580 m.; Isparta, Yenişarbademli, between Yenişarbademli and Aksu, 37.43 N., 31.18 E., 2♂♂, 15♀♀, 14.07.1999, ca. 1750 m.; Isparta, Yenişarbademli, Center of Çayır Plateau, 37.49 N., 31.13 E., 5♂♂, 12♀♀, 14.07.1999, ca. 1925 m.; Isparta, Aksu, between Aksu and Eğirdir, 37.47 N., 31.00 E., 2♂♂, 7♀♀, 14.07.1999, ca. 1200 m..

**Distribution:** Denmark, Scandinavia, Norway, Finland, Russia, Ukraine, Moldavia, Georgia, Azerbaijan, Armenia, Kazakhstan, Uzbekistan, Tajikistan, Kirghizistan, Turkmenistan, West Siberia, East Siberia, Turkey, Israel, Iraq, Mongolia, China, Algeria [2,3,4,7].

It has been known in Furnas; Patara (Antalya) from Turkey.

**Genus: *Stratiomys*** Geoffroy, 1762

***Stratiomys cenisia*** Meigen, 1822

**Material examined:** Burdur, reedbed area of coast of Acı Lake, 37.49 N., 29.45 E., 3♂♂, 21.05.1999, ca. 900 m.; Isparta, Yalvaç, between Yalvaç and Senirkent, 38.19 N., 31.03 E., 10♂♂, 8♀♀, 15.06.1999, ca. 1265 m.; Burdur, Yeşilova, Karaatlı Village, 37.33 N., 29.43 E., 4♀♀, 25.06.1999, ca. 1150 m.; Burdur, Yeşilova, Karaatlı Village, 37.33 N., 29.49 E., 2♀♀, 09.07.1999, ca. 1230 m..

**Distribution:** Bulgaria, Czechoslovakia, France, Germany, Hungary, Italy, Poland, Romania, Spain, Switzerland, Yugoslavia, Asia Minor, Cyprus, Russia, Ukraine, Armenia, Kazakhstan, Turkmenistan, Turkey, Israel, Syria, Iran, Morocco, Algeria, Tunisia, Egypt [2,3,5,6,8].

It has been known in Patara (Antalya), İzmir, Tarsus (İçel) from Turkey.

***Stratiomys chamaeleon*** (Linnaeus, 1758)

**Material examined:** Burdur, Yeşilova, Gökçe Village, 1♂, 20.06.1992, ca. 1150 m., (Leg A. Hasbenli); Antalya, between Antalya and Kemer, The Bey Mountains, 36.59 N., 30.32 E., 1♀, 18.05.1999, ca. 50 m..

**Distribution:** Austria, Belgium, Bulgaria, Czechoslovakia, Denmark, Finland, France, Germany, Greece, Great Britain, Hungary, Italy, Netherlands, New Zeland, Poland, Romania, Spain,

Sweden, Switzerland, Yugoslavia, Turkestan, Siberia, Russia, Estonia, Lithuania, Latvia, Byelorussia, Ukraina, Moldavia, Georgia, Azerbaijan, Armenia, Turkey, China [2,3,4,5,6,7].

It has been known in Artvin from Turkey.

This species is new record for Lakes Region.

***Stratiomys longicornis*** (Scopoli, 1763)

**Material examined:** Burdur, coast of Burdur Lake, 37.41 N., 30.11 E., 1♂, 25.06.1999, ca. 930 m.

**Distribution:** Albania, Austria, Belgium, Bulgaria, Czechoslovakia, Denmark, Finland, France, Germany, Greece, Great Britain, Hungary, Italy, Malta, Netherlands, New Zeland, Poland, Portugal, Romania, Spain, Sweden, Switzerland, Yugoslavia, Caucasus, Russia, Estonia, Lithuania, Latvia, Byelorussia, Ukraina, Moldavia, Georgia, Azerbaijan, Armenia, Kazakhstan, Uzbekistan, Tajikistan, Kirghizistan, Turkmenistan, West Siberia, East Siberia, Kamchatka, Sakhalin, Kuril, Turkey, Cyprus, Israel, Iraq, Iran, Afghanistan, Mongolia, China, Japan, Korea, Morocco, Algeria, Tunisia, Egypt [2,3,4,5,6,7].

This species is new record for Lakes Region.

***Stratiomys ruficornis*** (Macquart, 1838)

**Material examined:** Burdur, Yeşilova, under of Salda Passage, 37.29 N., 29.36 E., 1♂, 10.07.1999, ca. 1080 m.

**Distribution:** Albania, Austria, Bulgaria, Czechoslovakia, France, Greece, Hungary, Poland, Romania, Yugoslavia, Armenia, Azerbaijan, Turkey, Lebanon, Syria, Iraq, Iran [3,5,6,7].

It has been known in Bursa, Artvin, The Sultan Mountains (Anatolia), Ankara, Eskişehir, Malatya and Mersin from Turkey.

This species is new record for Lakes Region.

**Discussions**

In the Turkey Stratiomyinae has been virtually neglected and not seriously studied for along time. It is the first serious investigation about Stratiomyinae from Region of Lakes in Turkey. Seven species in three genera of Stratiomyinae are found as a result. These species are *Odontomyia angulata* (Panzer, [1798]), *Odontomyia hydroleon* (Linnaeus, 1758), *Oplodontha viridula* (Fabricius, 1775), *Stratiomys cenisia* Meigen, 1822, *Stratiomys chamaeleon* (Linnaeus, 1758), *Stratiomys longicornis* (Scopoli, 1763) and *Stratiomys ruficornis* (Macquart, 1838) distribute widely in Palaearctic Region. Locality of *Odontomyia angulata* had been recorded by Lindner in Makri (Antalya) and Erdek (Balıkkesir) from Turkey in 1975 [5]. The result of this study, *O. angulata* has been recorded for the first time in Burdur province from Turkey. Locality of *Odontomyia hydroleon* had been recorded by Lindner in Konya from Turkey in 1974 and 1975 [5]. *O. hydroleon* has been recorded for the first time in Isparta province in this study. Locality of *Oplodontha viridula* had been recorded by Loew in Furnas: Patara (Antalya) from Turkey in 1846 [3]. In this study, *O. viridula* has been recorded for the first time in Isparta, Burdur and recorded Antalya provinces from Turkey. Locality of *Stratiomys cenisia* had been recorded in Patara (Antalya), İzmir and Tarsus (Mersin) from Turkey by Dušek and Rozkošný in 1965 and by Pleske in 1902 [5]. *S. cenisia* has been recorded for the first time in Burdur and Isparta provinces from Turkey. Locality of *Stratiomys chamaeleon* had been recorded in Artvin from Turkey by

Pleske in 1899 [5]. *S. chamaeleon* has been recorded in Burdur and Antalya provinces from Turkey. *Stratiomys ruficornis* had been recorded in Bursa by Röder in 1896, in Artvin by Pleske in 1899, 1901, 1828, in The Sultan Mountains (Anatolia) by Villeneuve in 1906, in Malatya by Lindner in 1937 [5], in Mersin by Loew in 1869 [3], in Ankara and Eskişehir from Turkey [5]. *S. ruficornis* has been recorded for the first time in Burdur from Turkey. *Stratiomys chamaeleon* (Linnaeus, 1758), *Stratiomys longicornis* (Scopoli, 1763), *Stratiomys ruficornis* (Macquart, 1838) are recorded for the first time from “Region of Lakes” in Turkey. It is thought that with the detailed researches the number of species from Turkey would be raised.

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