

Contributions to the Dolichopodidae (Insecta: Diptera) Fauna of Muğla Provinces with the Six New Records for Turkey

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ABSTRACT

In this study, we report the Turkey fauna of long-legged flies and new records of six species (Diptera: Dolichopodidae) collected from Muğla province during the 2018-2019 field trips. These newly recorded species are *Acropsilus niger* (Loew, 1869), *Hercostomus kravchenkoi* (Grichanov and Freidberg, 2018), *Sybstroma leptocerca* (Stackelberg, 1949), *Oncopygius magnificus* (Loew, 1873), *Medetera glauccella* (Kowarz, 1877), and *Syntormon submonilis* (Negrobov, 1975). In total, 107 species from 10 subfamilies and 35 genera of Dolichopodidae are known from Muğla. With these records, the number of the Turkey Dolichopodidae species has reached 224.

Keywords: Dolichopodidae, new records, fauna, Muğla.

INTRODUCTION

Dolichopodidae, or long-legged flies, are one of the biggest families in Diptera. Their body length changes between 0,8-9 mm with a slender build. The species of the family are diagnosed with wing venation, metallic colorations, especially blue-green with bronze reflections, sexual characters, and antenna shapes. The adults are found in aquatic and semiaquatic areas, grasslands, marshlands, coastal dunes, woodlands and heathland. Some adult Dolichopodidae species feed on agricultural pests and play an important role in ecosystems (Grichanov & Brooks, 2017).

Muğla is located in the Aegean Region of Turkey, where the Aegean Sea meets the Mediterranean Sea, and it contains 13 districts, some of which include popular touristic areas. Muğla also contains a wide variety of ecosystems. It has very abundant plants, especially endemic ones (Yeşilyurt & Akaydın, 2012). Some authors have conducted comprehensive investigations of the Dolichopodidae fauna of Muğla until recently. Up to now, 86 species have been identified in the province (Grichanov, Tonguç, Civelek, Vikhrev, Özgül, & Dursun, 2007; Naglis, Tonguç, & Barták, 2021).

The aim of this paper is to contribute to the distribution of long legged flies in the Muğla province of Turkey.

MATERIAL METHOD

1166 adult dolichopodid specimens (730 males, 436 females) were collected using a net and aspirator in 13 districts of Muğla province (Menteşe, Ula, Köyceğiz, Ortaca, Marmaris, Datça, Dalaman, Fethiye, Seydikemer, Yatağan, Kavaklıdere, Milas, Bodrum) between May-September 2018 and May-August 2019. The collected specimens were killed in jars containing ethyl-acetate. They were preserved in insect envelopes or jars with %70 ethyl alcohol in the survey area. Some of the Dolichopodidae specimens brought to the laboratory were pinned, whereas the others were protected in different sizes of glass or plastic jars. All of the specimens have been stored in insect collection boxes that are in Muğla Sıtkı Koçman University, Faculty of Science, Department of Molecular Biology and Genetics Laboratory of Molecular Ecology. In the results section, a faunistic list and new records of species distribution belonging to the Palaearctic and Turkey distribution, is given for Turkey and Muğla.

RESULTS

Diaphorinae

Acrosilus niger (Loew, 1869)

Material examined: Muğla, Köyceğiz, Kaptan choltry, 36° 59' N / 28° 38' E, 14 m., 10.08.2018, 1 ♂.

Palaearctic distribution: Bulgaria, Romania, Russia, Europe, Algeria, Tunisia (Grichanov, 2007).

Turkey distribution: New record for Turkey

***Chrysotus cilipes* Meigen, 1824**

Material examined: Muğla, Kavaklıdere, 37° 27' N / 28° 20' E, 711 m, 08.07.2019, 1 ♂.

Palaeartic distribution: Abkhazia, Armenia, Austria, Azerbaijan, Belgium, Czech Republic, Denmark, England, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Lithuania, Luxembourg, Madeira, Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Russia, Turkey, Ukraine (Yang et al, 2006; Grichanov, 2007).

Turkey distribution: Artvin, Rize (Tonguç, Grichanov, & Naglis, 2016).

***Chrysotus femoratus* Zetterstedt, 1843**

Material examined: Muğla, Kavaklıdere, Dokuzçam village 37° 24' N / 28° 29' E, 643 m, 08.07.2019, 1 ♂.

Palaeartic distribution: Austria, Belgium, Czech Republic, Denmark, England, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Ireland, Italy, Latvia, Moldova, Netherlands, Norway, Poland, Romania, Slovakia, Russia, Sweden, Switzerland, Turkey, Ukraine (Yang, Zhu, Wang, & Zhang, 2006, Grichanov, 2007).

Turkey distribution: Erzurum, Hakkari (Tonguç et al, 2016).

***Chrysotus laesus* (Wiedemann, 1817)**

Material examined: Muğla, Dalaman, Akkaya, Gizli valley 36° 50' N / 28° 49' E, 207 m, 13.05.2019, 1 ♂.

Palaeartic distribution: Armenia, Austria, Belarus, Belgium, Bulgaria, Czech Republic, Denmark, England, Estonia, Finland, France, Georgia, Germany, Hungary, Italy, Kazakhstan, Moldova, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine (Yang, Zhu, Wang, & Zhang, 2006; Grichanov, 2007).

Turkey distribution: Kars (Tonguç et al, 2016).

Dolichopodinae***Gymnopternus celer* (Meigen, 1824)**

Material examined: Muğla, Marmaris, Günlük National Park, 36° 50' N / 28° 17' E, 17 m, 06.07.2018, 41 ♂♂, 33 ♀♀; Köyceğiz, Kaptan choltry 36° 59' N / 28° 38' E, 103 m, 09.07.2019, 6 ♂♂, 1 ♀.

Palaeartic distribution: Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, England, Estonia, Finland, France, Germany, Hungary, Italy, Ireland, Kazakhstan, Luxembourg, Macedonia, Moldova, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Sweden, Switzerland, Turkey, Ukraine (Yang et al, 2006; Grichanov, 2007).

Turkey distribution: Çanakkale (Tonguç et al, 2016).

***Hercostomus fulvicaudis* (Walker, 1849)**

Material examined: Muğla, Seydikemer, Tylos, Gizli valley Restaurant 36° 33' N / 29° 26' E, 651 m, 12.05.2019, 1 ♂, 3 ♀♀.

Palaeartic distribution: Austria, Belgium, Czech Republic, England, France, Germany, Holland, Sweden, Poland, Romania, Slovakia, Turkey, Ukraine, Turkmenistan, Tajikistan (Yang et al, 2006; Grichanov, 2007).

Turkey distribution: Afyonkarahisar, Bursa, Kütahya (Tonguç, 2020).

***Hercostomus gracilis* (Stannius, 1831)**

Material examined: Muğla, Fethiye, Çenger village, 36° 46' N / 29° 08' E, 560 m, 08.08.2018, 2 ♂♂, 1 ♀; Kavaklıdere, 37° 27' N / 28° 20' E, 711 m, 08.07.2019, 1 ♂; Kavaklıdere, Dokuzçam village 37° 24' N / 28° 29' E, 643 m, 08.07.2019, 1 ♂.

Palaeartic distribution: Armenia, Austria, Belgium, Bulgaria, Czech Republic, Denmark, England, France, Germany, Greece, Holland, Hungary, Italy, Poland, Russia, Spain, Sweden, Tajikistan, Turkmenistan Turkey, Ukraine (Yang et al, 2006; Grichanov, 2007).

Turkey distribution: Afyonkarahisar, Aydın, Balıkesir, Burdur, Bursa, Kütahya, Uşak (Tonguç, 2020).

***Hercostomus kravchenko* (Grichanov and Freidberg, 2018)**

Material examined: Muğla, Fethiye, Çenger village, 36° 44' N / 29° 05' E, 160 m, 08.08.2018, 2 ♂♂.

Palaeartic distribution: Israel (Grichanov & Freidberg, 2018)

Turkey distribution: New record for Turkey

***Hercostomus stroblianus* Becker, 1917**

Material examined: Muğla, Köyceğiz, Ağla road 6-7. km, 37° 01' N / 28° 44' E, 42 m, 10.08.2018, 1 ♂, 3 ♀♀.

Palaeartic distribution: Georgia, Hungary, Romania, Russia, Turkey (Grichanov, 2007).

Turkey distribution: Kırklareli (Tonguç, 2020).

***Sybistroma leptocerca* (Stackelberg, 1949)**

Material examined: Muğla, Köyceğiz, Ağla road 6-7. Km, 37° 01' N / 28° 44' E, 42 m, 10.08.2018, 1 ♂; Seydikemer, Dont village, 36° 51' N / 29° 37' E, 1236 m, 28.08.2019, 1 ♂, 1 ♀; Kavaklıdere, Dokuzçam village, 37° 24' N / 28° 29' E, 697 m, 05.07.2018, 1 ♂.

Palaeartic distribution: Iran, Tajikistan (Grichanov & Kazerani, 2014)

Turkey distribution: New record for Turkey

***Sybistroma sphenopterus* (Loew, 1859)**

Material examined: Muğla, Mentеше, Yılanlı, Eşkiyalar, 37° 15' N / 28° 31' E, 1066 m, 08.07.2019, 1 ♂, 1 ♀.

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Palaeartic distribution: Austria, Czech Republic, Germany, Hungary, Italy, Poland, Romania, Turkey (Yang et al, 2006; Tonguç et al, 2016).

Turkey distribution: Bursa, Çanakkale, Kars, Kırklareli, Kocaeli, Kütahya (Tonguç, 2020).

Medeterinae***Medetera glauccella* Kowarz, 1877**

Material examined: Muğla, Seydikemer, Tylos, Gizli valley Restaurant, 36° 33' N / 29° 26' E, 651 m, 12.05.2019, 1 ♂, 2 ♀♀; Seydikemer, Kavaklı, 36° 41' N / 29° 25' E, 545 m, 12.05.2019, 1 ♂, 1 ♀.

Palaeartic distribution: Austria, Bulgaria, Czech Republic, France, Germany, Netherlands, Poland, Romania, Slovakia, Sweden (Yang et al, 2006).

Turkey distribution: New record for Turkey

Neurigoninae***Oncopygius magnificus* Loew, 1873**

Material examined: Muğla, Köyceğiz, Ağla, 37° 01' N / 28° 44' E, 665 m, 13.05.2019, 4 ♂♂, 2 ♀♀.

Palaeartic distribution: Albania, Austria, Greece, Hungary, Italy, Romania, Slovenia (Yang et al, 2006).

Turkey distribution: New record for Turkey

Peloropecinae***Chrysotimus molliculus* (Fallen, 1823)**

Material examined: Muğla, Kavaklıdere, Dokuzçam, 37° 24' N / 28° 29' E, 697 m, 05.07.2018, 7 ♂♂, 2 ♀♀; Köyceğiz, Ağla, 37° 01' N / 28° 45' E, 794 m, 10.08.2018, 1 ♂; Yuvarlak stream, Defne restaurant, 36° 56' N / 28° 48' E, 214 m, 10.08.2018, 1 ♀; Ula, Ula pond, Yaraş turnout, 37° 09' N / 28° 26' E, 807 m, 10.07.2019, 2 ♀♀.

Palaeartic distribution: Austria, Belgium, Czech Republic, Denmark, England, France, Germany, Hungary, Ireland, Netherlands, Norway, Poland, Romania, Russia, Slovenia, Sweden, Switzerland, Turkey, Ukraine (Yang et al, 2006).

Turkey distribution: Kırklareli (Tonguç, 2020).

***Peloropecodes acuticornis* (Oldenberg, 1916)**

Material examined: Muğla, Köyceğiz, Ağla road 6-7. km, 37° 01' N / 28° 44' E, 42 m, 10.08.2018, 1 ♂; Köyceğiz, Ağla village, 37° 01' N / 28° 45' E, 796 m, 09.07.2019, 2 ♂♂; Köyceğiz, Ağla, 37° 01' N / 28° 44' E, 595 m, 09.07.2019, 3 ♂♂; Marmaris, Marmaris National Park, 36° 50' N / 28° 17' E, 1 m, 20.05.2019, 7 ♂♂, 7 ♀♀; Marmaris-Datça road, 36° 45' N / 27° 51' E, 56 m., 20.05.2019, 10 ♂♂, 5 ♀♀; Kavaklıdere, Dokuzçam village, 37° 24' N / 28° 29' E, 643 m, 08.07.2019, 1 ♂.

Palaeartic distribution: France, Greece, Romania, Russia, Turkey (Grichanov, 2007).

Turkey distribution: Kütahya, Muğla, Samsun (Naglis et al, 2021).

Sciapodinae***Sciapus maurus* Parent, 1930**

Material examined: Muğla, Fethiye, Çenger village, 36° 44' N / 29° 05' E, 160 m, 08.08.2018, 1 ♂, 2 ♀♀; Çenger village, 36° 43' N / 29° 05' E, 378 m, 08.08.2018, 8 ♂♂, 5 ♀♀.

Palaeartic distribution: Algeria, Belgium, Israel, Turkey (Grichanov, 2007).

Turkey distribution: Antalya, Uşak (Tonguç & Barlas, 2020).

Sympycninae***Syntormon submonilis* Negrobov, 1975**

Material examined: Muğla, Fethiye, Çengelköy, 36° 44' N / 29° 05' E, 107 m, 11.05.2019, 1 ♂, 1 ♀.

Palaeartic distribution: Russia (Grichanov, 2007).

Turkey distribution: New record for Turkey

***Teuchophorus bisetus* Loew, 1871**

Material examined: Muğla, Köyceğiz, Kaptan choltry, 36° 59' N / 28° 38' E, 14 m, 10.08.2018, 8 ♂♂, 4 ♀♀; 09.07.2019, 3 ♂♂, 2 ♀♀; Marmaris, Günlük National Park, 36° 50' N / 28° 17' E, 17 m, 06.07.2018, 11 ♂♂, 9 ♀♀.

Palaeartic distribution: Israel, Iraq, Tajikistan, Turkey, Uzbekistan (Grichanov, 2007).

Turkey distribution: Afyonkarahisar, Aydın (Naglis et al, 2021).

***Teuchophorus chaetifemoratus* Pollet & Kechev, 2007**

Material examined: Muğla, Menteşe, Eşkiyalar, 37° 15' N / 28° 31' E, 1058 m, 05.07.2018, 1 ♂, 1 ♀; Fethiye, Çenger village, 36° 44' N / 29° 05' E, 160 m, 08.08.2018, 1 ♂, 3 ♀♀; Köyceğiz, Ağla, 37° 01' N / 28° 45' E, 794 m, 10.08.2018, 1 ♂, 1 ♀, Ortaca, Günlükbaşı, 36° 52' N / 28° 44' E, 45 m, 22.05.2018, 1 ♂, 2 ♀♀; Fethiye, Faralya, 36° 29' N / 29° 08' E, 316 m, 27.08.2019, 1 ♂; Kavaklıdere, 37° 27' N / 28° 20' E, 711 m., 08.07.2019, 6 ♂, 3 ♀♀; Marmaris, 36° 53' N / 28° 16' E, 213 m., 06.07.2020, 11 ♂♂, 11 ♀♀; Marmaris-Datça road, 36° 45' N / 27° 51' E, 56 m, 20.05.2019, 9 ♂♂, 10 ♀♀, Menteşe, Akyer, 37° 18' N / 28° 30' E, 1101 m, 05.07.2018, 1 ♂.

Palaeartic distribution: Bulgaria, Turkey (Tonguç et al, 2016)

Turkey distribution: Kütahya, Uşak (Tonguç et al, 2016).

***Teuchophorus simplex* Mik, 1880**

Material examined: Muğla, Yatağan, Çamlıca, 37° 13' N / 27° 59' E, 647 m, 04.07.2018, 1 ♂.

Palaeartic distribution: Austria, Belgium, Bulgaria, Czech Republic, England, France, Germany, Greece, Hungary, Netherlands, Poland, Sweden, Turkey (Yang et al, 2006; Grichanov, 2007).

Turkey distribution: Kırklareli (Tonguç, 2020).

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50 species, 22 genera, and 9 subfamilies [Diaphorinae (5 species), Dolichopodinae (20 species), Hydrophorinae (2 species), Medeterinae (1 species), Neurigoninae (1 species), Peloropeodinae (2 species), Rhabdiinae (2 species), Sciapodinae (4 species), Sympycninae (13 species)] were determined as a result of identification of collected specimens from the research area.

6 species, namely *Acropsilus niger* (Loew, 1869), *Hercostomus kravchenkoi* (Grichanov & Freidberg, 2018), *Sybistroma leptocerca* (Stackelberg, 1949), *Oncopygius magnificus* (Loew, 1873), *Medetera glaucella* (Kowarz, 1877), and *Syntormon submonilis* (Negrobov, 1975) are new records for Turkey. It is worth noting that *Hercostomus kravchenkoi* and *Syntormon submonilis* Negrobov, 1975 were collected for the first time after their identification. On the other hand, 14 species are new records for Muğla. A total of 86 species were recorded in the previous studies from Muğla. With these new records, the fauna of Muğla has increased to 107 species [Achalcinae (1 species), Diaphorinae (15 species), Dolichopodinae (32 species), Hydrophorinae (8 species), Medeterinae (8 species), Neurigoninae (1 species), Peloropeodinae (4 species), Rhabdiinae (4 species), Sciapodinae (8 species), Sympycninae (26 species) (Table 1)].

As a consequence of this study, the number of the Turkey Dolichopodidae species has reached 224.

Table 1. The number of already-known and newly-added species from Muğla provinces.

Subfamily	Species	Faunistic Notes
Achalcinae	<i>Achalcus flavicollis</i> (Meigen, 1824)	Naglis et al, 2021
Diaphorinae	<i>Acropsilus niger</i> (Loew, 1869)	New record for Turkey
	<i>Argyra argyria</i> (Meigen, 1824)	Naglis et al, 2021
	<i>Argyra leucocephala</i> (Meigen, 1824)	Naglis et al, 2021
	<i>Argyra vestita</i> (Wiedemann, 1817)	Naglis et al, 2021
	<i>Asyndetus latifrons</i> (Loew, 1857)	Tonguç et al, 2016
	<i>Asyndetus separatus</i> (Becker, 1902)	Naglis et al, 2021
	<i>Chrysotus cilipes</i> Meigen, 1824	New record for Muğla
	<i>Chrysotus larachensis</i> Grichanov, Nourti & Kettani, 2020	Naglis et al, 2021
	<i>Chrysotus dorli</i> Negrobov, 1980	Naglis et al, 2021
	<i>Chrysotus femoratus</i> Zetterstedt, 1843	New record for Muğla
	<i>Chrysotus laesus</i> (Wiedemann, 1817)	New record for Muğla
	<i>Chrysotus suavis</i> (Loew, 1857)	Naglis et al, 2021
	<i>Diaphorus varifrons</i> Becker, 1918	Grichanov et al, 2007
	<i>Diaphorus winthemi</i> Meigen, 1824	Naglis et al, 2021
<i>Trigonocera rivos</i> a Becker, 1902	Naglis et al, 2021	

Table 1. Continued.

Subfamily	Species	Faunistic Notes
Dolichopodinae	<i>Dolichopus cilifemoratus</i> Macquart, 1827	Tonguç et al, 2016
	<i>Dolichopus diadema</i> Haliday, 1832	Tonguç et al, 2016
	<i>Dolichopus excisus</i> Loew, 1859	Tonguç et al, 2016
	<i>Dolichopus griseipennis</i> Stannius, 1831	Gričanov et al, 2007
	<i>Dolichopus latilimbatus</i> Macquart, 1827	Naglis et al, 2021
	<i>Dolichopus sabinus</i> Haliday, 1838	Naglis et al, 2021
	<i>Dolichopus signifer</i> Haliday, 1832	Tonguç et al, 2013
	<i>Dolichopus strigipes</i> Verall, 1875	Naglis et al, 2021
	<i>Gymnopternus blankaartensis</i> (Pollet, 1990)	Naglis et al, 2021
	<i>Gymnopternus celer</i> (Meigen, 1824)	New record for Muğla
	<i>Hercostomus apollo</i> (Loew, 1869)	Tonguç et al, 2013
	<i>Hercostomus chetifer</i> (Walker, 1849)	Gričanov et al, 2007
	<i>Hercostomus convergens</i> (Loew, 1857)	Tonguç et al, 2016
	<i>Hercostomus fulvicaudis</i> (Walker, 1849)	New record for Muğla
	<i>Hercostomus gracilis</i> (Stannius, 1831)	New record for Muğla
	<i>Hercostomus kravchenkoi</i> (Gričanov & Freidberg, 2018)	New record for Turkey
	<i>Hercostomus longiventris</i> (Loew, 1857)	Gričanov et al, 2007
	<i>Hercostomus nanus</i> (Macquart, 1827)	Gričanov et al, 2007
	<i>Hercostomus phoebus</i> Parent, 1927	Gričanov et al, 2007
	<i>Hercostomus stroblianus</i> Becker, 1917	New record for Muğla
	<i>Hercostomus thraciensis</i> Kechev & Negrobov, 2015	Naglis et al, 2021
	<i>Hercostomus tongucii</i> Naglis & Negrobov, 2017	Naglis & Negrobov, 2017
	<i>Ortochile nigrocoerulea</i> Latreille, 1809	Naglis et al, 2021
	<i>Poecilobothrus principalis</i> (Loew, 1861)	Naglis et al, 2021
	<i>Poecilobothrus regalis</i> (Meigen, 1824)	Gričanov et al, 2007
	<i>Sybistroma impar</i> (Rondani, 1843)	Tonguç et al, 2013
	<i>Sybistroma leptocerca</i> (Stackelberg, 1949)	New record for Turkey
	<i>Sybistroma lorifer</i> (Mik, 1878)	Naglis et al, 2021
	<i>Sybistroma nodicornis</i> Meigen, 1824	Naglis et al, 2021
	<i>Sybistroma sphenopterus</i> (Loew, 1859)	New record for Muğla
	<i>Tachytrechus beckeri</i> Lichtwardt, 1917	Gričanov et al, 2007
	<i>Tachytrechus notatus</i> (Stannius, 1831)	Gričanov et al, 2007
	<i>Tachytrechus tessallatus</i> (Macquart, 1842)	Naglis et al, 2021

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Table 1. Continued.

Subfamily	Species	Faunistic Notes
Hydrophorinae	<i>Aphrosylus venator</i> Loew, 1857	Naglis et al, 2021
	<i>Hydrophorus balticus</i> (Meigen, 1824)	Grichanov et al, 2007
	<i>Hydrophorus praecox</i> (Lehmann, 1822)	Naglis et al, 2021
	<i>Liancalus virens</i> (Scopoli, 1763)	Grichanov et al, 2007
	<i>Orthoceratium lacustre</i> (Scopoli, 1763)	New record for Muğla
	<i>Orthoceratium sabulosum</i> (Becker, 1907)	Naglis et al, 2021
	<i>Thinophilus flavipalpis</i> (Zetterstedt, 1843)	Naglis et al, 2021
	<i>Thinophilus quadrimaculatus</i> Becker, 1902	Naglis et al, 2021
Medeterinae	<i>Cyrturella albosetosa</i> (Strobl, 1909)	Naglis et al, 2021
	<i>Medetera flavipes</i> Meigen, 1824	Grichanov et al, 2007
	<i>Medetera glaucella</i> Kowarz, 1877	New record for Turkey
	<i>Medetera pallipes</i> (Zetterstedt, 1843)	Naglis et al, 2021
	<i>Medetera petrophiloides</i> Parent, 1925	Naglis et al, 2021
	<i>Medetera signaticornis</i> Loew, 1957	Naglis et al, 2021
	<i>Medetera truncorum</i> Meigen, 1824	Grichanov et al, 2007
	<i>Thrypticus bellus</i> Loew, 1869	Grichanov et al, 2007
Neurigoninae	<i>Oncopygius magnificus</i> Loew, 1873	New record for Turkey
Peloropodinae	<i>Chrysotimus molliculus</i> (Fallen, 1823)	New record for Muğla
	<i>Micromorphus albipes</i> (Zetterstedt, 1843)	Tonguç et al, 2016
	<i>Peloropeedes acuticornis</i> (Oldenberg, 1916)	Naglis et al, 2021
	<i>Vetimicrotes mediterraneus</i> (Becker, 1918)	Naglis et al, 2021
Rahphiinae	<i>Rahphium appendiculatum</i> Zetterstedt, 1849	Naglis et al, 2021
	<i>Rahphium brevicorne</i> Curtis, 1835	Naglis et al, 2021
	<i>Rahphium fascipes</i> (Meigen, 1824)	Naglis et al, 2021
	<i>Rahphium micans</i> (Meigen, 1824)	Tonguç et al, 2016
Sciapodinae	<i>Sciapus aberrans</i> Becker, 1918	Naglis et al, 2021
	<i>Sciapus adana</i> Grichanov & Negrobov, 2014	Naglis et al, 2021
	<i>Sciapus euchromus</i> (Loew, 1857)	Naglis et al, 2021
	<i>Sciapus flavicinctus</i> (Loew, 1857)	Naglis et al, 2021
	<i>Sciapus heteropygus</i> Parent, 1926	Tonguç et al, 2016
	<i>Sciapus holoxanthos</i> Parent, 1926	Grichanov et al, 2007
	<i>Sciapus maurus</i> Parent, 1930	New record for Muğla
	<i>Sciapus tenuinervis</i> (Loew, 1857)	Naglis et al, 2021

Table 1. Continued.

Subfamily	Species	Faunistic Notes
Sympycninae	<i>Campsicnemus crinitarsis</i> Strobl, 1906	Naglis et al, 2021
	<i>Campsicnemus curvipes</i> (Fallén, 1823)	Naglis et al, 2021
	<i>Campsicnemus magius</i> (Loew, 1845)	Naglis et al, 2021
	<i>Campsicnemus simplicissimus</i> Strobl, 1906	Naglis et al, 2021
	<i>Campsicnemus umbripennis</i> Loew, 1856	Grichanov et al, 2007
	<i>Lamprochromus bifasciatus</i> (Macquart, 1827)	Naglis et al, 2021
	<i>Lamprochromus kowarzi</i> Negrobov & Tshalaja, 1988	Naglis et al, 2021
	<i>Lamprochromus speciosus</i> (Loew, 1871)	Tonguç et al, 2016
	<i>Sympycnus annulipes</i> (Meigen, 1824)	Tonguç et al, 2016
	<i>Sympycnus simplicipes</i> Becker, 1908	Naglis et al, 2021
	<i>Sympycnus pulcarius</i> (Fallén, 1823)	Grichanov et al, 2007
	<i>Syntormon denticulatum</i> Zetterstedt, 1843	Grichanov et al, 2007
	<i>Syntormon metathesis</i> (Loew, 1850)	Naglis et al, 2021
	<i>Syntormon mikii</i> Strobl, 1899	Naglis et al, 2021
	<i>Syntormon pallipes</i> (Fabricius, 1794)	Grichanov et al, 2007
	<i>Syntormon submonilis</i> Negrobov, 1975	New record for Turkey
	<i>Syntormon triangulipes</i> Becker, 1902	Naglis et al, 2021
	<i>Teuchophorus bisetus</i> Loew, 1871	Naglis et al, 2021
	<i>Teuchophorus calcaratus</i> (Macquart, 1828)	Naglis et al, 2021
	<i>Teuchophorus chaetifemoratus</i> Pollet & Kechev, 2007	New record for Muğla
	<i>Teuchophorus cristulatus</i> Meuffels & Grootaert, 1992	Tonguç et al, 2016
	<i>Teuchophorus monacanthus</i> Loew, 1859	Tonguç et al, 2016
	<i>Teuchophorus simplex</i> Mik, 1880	New record for Muğla
	<i>Thrypticus caeruleus</i> Negrobov & Naglis, 2020	Negrobov & Naglis, 2020
	<i>Thrypticus kechevi</i> Negrobov & Naglis, 2020	Negrobov & Naglis, 2020

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