



Aquatic Coleoptera fauna of Çorum and Yozgat Provinces (Turkey)

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Abstract

Aquatic beetles in the families Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae and Hydrophilidae were sampled at the Çorum and Yozgat provinces in Central Anatolian from 2006 through 2009. 61 species of water beetles were recorded in Çorum province and 15 species in Yozgat province. 56 species appeared to be new for Çorum and 14 for Yozgat. Of these beetles 13 species are here recorded for the first time from the Central Anatolian region. The known ranges of these species are expanded by the new findings.

Key words: Aquatic Coleoptera, fauna, Çorum, Yozgat, Turkey

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Çorum ve Yozgat illeri (Türkiye) Sucul kınkanath faunası

Özet

2006-2009 yılları arasında İç Anadolu Bölgesinde yer alan Çorum ve Yozgat illerinde sucul kınkanath (Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae ve Hydrophilidae) faunası araştırılmıştır. Çorum ilinde 61, Yozgat ilinde ise 15 sucul kınkanath türü kaydedilmiştir. Çorum ilinden 56 tür, Yozgat ilinden 14 tür ilk kez kaydedilmiştir. Bu türlerden 13'ü İç Anadolu Bölgesi için yeni kayıttır. Yeni bulgularla birlikte bu türlerin yayılış alanı genişlemiştir.

Anahtar kelimeler: Sucul Coleoptera, fauna, Çorum, Yozgat, Türkiye

1. Introduction

Çorum and Yozgat provinces are located in the Central Anatolia of Turkey. The aquatic Coleoptera fauna of these provinces are scarcely known. Nine species of aquatic beetles have been recorded from the studied region previously, shown in the Table 1.

2. Materials and methods

All samples were collected from Central Anatolian Region in the years 2006-2009. The samples were collected from spring water areas, with a sieve, ladle or water-net having a 1 mm mesh size. The beetles were killed with 70% alcohol and in the laboratory cleaned of debris with a small paintbrush. The aedeagophore was dissected under a stereo-microscope and left in 10% KOH solution for about 1–2 hours. Materials have been deposited in the Zoological Museum of Gazi University (=ZMGU), Ankara, Turkey and Zoological Museum, Atatürk University, Erzurum, Turkey. The aim of this study was to make contributions to Turkish aquatic beetles fauna.

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Table 1. Literature records of the research area

Species list	Literature	
	Çorum	Yozgat
<i>Agabus biguttatus</i> (Olivier, 1795)	x	
<i>Deronectes parvicollis</i> (Schaum, 1864)	x	
<i>Scarodytes halensis halensis</i> (Fabricius, 1787)	x	
<i>Hygrotes lernaeus</i> (Schaum, 1857)	x	
<i>Laccobius obscuratus aegaeus</i> Gentili, 1974		x
<i>Laccobius simulatrix</i> d'Orchymont, 1932		x
<i>Laccobius sipylus</i> d'Orchymont, 1939		x
<i>Laccobius syriacus</i> Guillebeau, 1896		x
<i>Laccobius gracilis gracilis</i> Motschulsky, 1855		x

3. Results

Family Gyrinidae

Aulonogyrus concinnus (Klug, 1834)

Materials: Çorum: 1 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 05.08.2007.

Remarks: New for Çorum.

Gyrinus substriatus Stephens, 1828

Materials: Çorum: 12 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 01.07.2006; 5 ex. Sıklık boğazı, 40°35'N 35°02'E, 1097 m. 28.07.2006; 25 ex. Boğazönü village, 40°19'N 34°49'E, 1182 m. 07.07.2007; 4 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 09.09.2007; 8. ex. Boğazönü village, 40°19'N 34°49'E, 1182 m. 03.07.2008; 27 ex. Küçük Keşlik village, 40°15'N 34°55'E, 1028 m. 01.09.2009. **Yozgat:** 12 ex. Çayıralan, Kaynarpinar, 39°18'N 35°50'E, 1379 m. 18.07.2006; 26 ex. Çayıralan, Karalı Boğazı, 39°18'N 35°50'E, 1350 m. 24.07.2006.

Remarks: New for Çorum and Yozgat.

Family Haliplidae

Haliplus lineatocollis (Marshall, 1802)

Materials: Çorum: 2 ex. Sıklık boğazı, 40°35'N 35°02'E, 1097 m. 28.07.2006; 1 ex. Boğazönü village, 40°19'N 34°49'E, 1182 m. 05.08.2007; 1 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 09.09.2007. **Yozgat:** 2 ex. Çayıralan, Derekemal village, Örenlice, 39°21'N 35°43'E, 1603 m. 23.07.2006.

Remarks: This species is a new record fauna of the Central Anatolian region and also new for Çorum and Yozgat.

Peltodytes caesus (Duftschmid, 1805)

Materials: Çorum: 4 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 01.04.2006; 2 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 04.06.2006; 3 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 14.06. 2006; **Yozgat:** 7 ex. Çayıralan, Derekemal village, Örenlice, 39°21'N 35°43'E, 1603 m. 23.07.2006.

Remarks: New for Çorum and Yozgat.

Family Noteridae

Noterus clavicornis (De Geer, 1774)

Materials: Çorum: 2 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 01.03.2006; 1 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 04.06.2006; 2 ex. Sarılık bridge, small stream, 40°23'N 35°04'E, 28.07.2007.

Remarks: New for Çorum.

Family Dytiscidae

Agabus biguttatus (Olivier, 1795)

Materials: Çorum: 8 ex. İskilip road 12.Km, 40°34'N 34°48'E, 946 m. 01.06.2008; 4 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 04.06.2006; 5 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 29.07.2006; 3 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 16.11.2006; 2 ex. Boğazönü village, 40°19'N 34°49'E, 1182 m. 03.07.2008.

Remarks: New for Çorum.

***Agabus bipustulatus* (Linnaeus, 1767)**

Materials: Çorum: 1 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 04.06.2006; 5 ex. Çatak (national park), 40°41'N 34°18'E, 1388 m. 04.06.2006; 8 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 14.06.2006; 4 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 01.07.2006; 2 ex. Göcenovacıği village (small lake), 40°20'N 34°50'E, 1307 m. 21.07.2007; 11 ex. Sarılık bridge-small stream, 40°23'N 35°04'E, 28.07.2007; 1 ex. Çatak village, 40°41'N 34°50'E, 1192 m. 15.05.2008; 1 ex. Küçük Keşlik village, 40°15'N 34°55'E, 1028 m. 01.09.2009; 1 ex. Küçük Keşlik village, 40°15'N 34°55'E, 1028 m. 07.11.2009; 2 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 16.11.2009; 3 ex. Beydilli village (marsh), 40°37'N 34°53' E, 872 m. 18.11.2009. **Yozgat:** 1 ex. Çayıralan, Kaynarçınar, 39°18'N 35°50'E, 1379 m. 18.07.2006; 1 ex. Çayıralan, Karalı Boğazı, 39°18'N 35°50'E, 1350 m. 22.07.2006; 1 ex. Çayıralan (Atılan Pınar), 39°18'N 35°44'E, 1500 m. 27.07.2006.

Remarks: New for Çorum and Yozgat.

***Agabus conspersus* (Marshall, 1802)**

Materials: Çorum: 5 ex. Çatak (national park), 40°41'N 34°18'E, 1388 m. 04.06.2006; 3 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 14.06.2006; 1 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 01.07.2006; 6 ex. Sarılık bridge- small stream, 40°23'N 35°04'E, 28.07.2007; 1 ex. Çatak village, 40°41'N 34°50'E, 1192 m. 15.05.2008.

Remarks: New for Çorum.

***Agabus guttatus guttatus* (Paykull, 1798)**

Materials: Çorum: 12 ex. Çatak (national park), 40°41'N 34°18'E, 1388 m. 10.07.2006; 8 ex. İskilip road 12.Km, 40°34'N 34°48'E, 946 m. 0106.2008.

Remarks: New for Çorum.

***Agabus labiatus* (Brahm, 1790)**

Materials: Çorum: 1 ex. İskilip road 12.Km, 40°34'N 34°48'E, 946 m. 01.06.2008.

Remarks: This species is a new record fauna of the Central Anatolian region and also new for Çorum.

***Agabus nebulosus* (Forster, 1771)**

Materials: Çorum: 2 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 04.06.2006; 2 ex. Çatak (national park), 40°41'N 34°18'E, 1388 m. 10.07.2006.

Remarks: New for Çorum.

***Agabus paludosus* (Fabricius, 1801)**

Materials: Yozgat: 9 ex. Çayıralan, Karalı Boğazı, 39°18'N 35°50'E, 1350 m. 22.07.2006.

Remarks: New for Yozgat.

***Ilybius fuliginosus fuliginosus* (Fabricius, 1792)**

Materials: Çorum: 1 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 04.06.2006; 1 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 04.06.2006; 1 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 01.07.2006; 3 ex. Sarılık bridge, small stream, 40°23'N 35°04'E, 28.07.2007; 1 ex. Boğazönü village (bridge), 40°19'N 34°18'E, 18.08.2007; 4 ex. Kayı village (stream), 40°24'N 35°00'E, 1305 m. 25.08.2007. **Yozgat:** 5 ex. Çayıralan, Kaynarçınar, 39°18'N 35°50'E, 1379 m. 18.07.2006; 4 ex. Çayıralan, Karalı Boğazı, 39°18'N 35°50'E, 1350 m. 22.07.2006; 9 ex. Çayıralan, Derekemal village, Örenlice, 39°21'N 35°43'E, 1603 m. 23.07.2006; 12 ex. Çayıralan, Karalı Boğazı, 39°18'N 35°50'E, 1350 m. 24.07.2006.

Remarks: New for Çorum and Yozgat.

***Platambus lunulatus* (Fischer von Waldheim, 1829)**

Materials: Çorum: 2 ex. Sıklık boğazı, 40°35'N 35°02'E, 1097 m. 28.07.2006; 53 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 05.08.2007; 10 ex. Boğazönü village (bridge), 40°19'N 34°18'E, 18.08.2007; 13 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 09.09.2007; 3 ex. Boğazönü village, 40°19'N 34°49'E, 1182 m. 09.09.2007. **Yozgat:** 13 ex. Çayıralan, Hacet Pınarı, 39°16'N 35°43'E, 1779 m. 18.07.2006; 21 ex. Çayıralan, Kaynarçınar, 39°18'N 35°50'E, 1379 m. 18.07.2006; 1 ex. Çayıralan, Karalı Boğazı, 39°18'N 35°50'E, 1350 m. 22.07.2006; 1 ex. Çayıralan, Derekemal village, Örenlice, 39°21'N 35°43'E, 1603 m. 23.07.2006; 2 ex. Çayıralan, Karalı Boğazı, 39°18'N 35°50'E, 1350 m. 24.07.2006.

Remarks: New for Çorum and Yozgat.

***Platambus maculatus* (Linnaeus, 1758)**

Materials: Çorum: 1 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 01.07.2006; 25 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 05.08.2007; 6 ex. Boğazönü village (bridge), 40°19'N 34°18'E, 18.08.2007; 5 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 09.09.2007; 1 ex. Boğazönü village, 40°19'N 34°49'E, 1182 m. 26.04.2008,

Remarks: New for Çorum.

***Colymbetes fuscus* (Linnaeus, 1758)**

Materials: Çorum: 1 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 04.06.2006; 1 ex. Küçük Keşlik village, 40°15'N 34°55'E, 1028 m. 01.09.2009; 2 ex. Küçük Keşlik village, 40°15'N 34°55'E, 1028 m. 07.11.2009; 3 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 16.11.2009; 7 ex. Beydilli village (marsh), 40°37'N 34°53'E, 872 m. 18.11.2009.

Remarks: New for Çorum.

***Rhantus suturalis* (W.S. MacLeay, 1825)**

Materials: Çorum: 1 ex. Sarılık bridge, small stream, 40°23'N 35°04'E, 28.07.07; 2 ex. Kayı village (stream), 40°24'N 35°00'E, 1305 m. 25.08.07,

Remarks: New for Çorum.

***Cybister lateralimarginalis torquatus* (Fischer von Waldheim, 1829)**

Materials: Çorum: 1 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 04.06.2006.

Remarks: New for Çorum.

***Dytiscus marginalis marginalis* Linnaeus, 1758**

Materials: Çorum: 1 ex. Çatak (national park), 40°41'N 34°18'E, 1388 m. 04.06.2006; 3 ex. Boğazönü village (bridge), 40°19'N 34°18'E, 18.08.2007; 9 ex. Küçük Keşlik village, 40°15'N 34°55'E, 1028 m. 07.11.2009; 1 ex. Beydilli village (marsh), 40°37'N 34°53'E, 872 m. 18.11.2009.

Remarks: New for Çorum.

***Hydaticus transversalis laevisculptus* Zaitzev, 1910**

Materials: Çorum: 1 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 04.06.2006.

Remarks: This species is a new record fauna of the Central Anatolian region and also new for Çorum.

***Hydroglyphus geminus* (Fabricius, 1792)**

Materials: Çorum: 7 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 01.04.2006; 3 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 01.05.2006; 3 ex. Beydilli village (marsh), 40°37'N 34°53'E, 872 m. 04.06.2006; 1 ex. Boğazönü village, 40°19'N 34°49'E, 1182 m. 05.08.2007. **Yozgat:** 2 ex. Çayıralan, Derekemal village, Örenlice, 39°21'N 35°43'E, 1603 m. 23.07.2006.

Remarks: New for Çorum and Yozgat.

***Deronectes parvicollis* (Schaum, 1864)**

Materials: Çorum: 1 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 03.07.2008.

Remarks: New for Çorum.

***Graptodytes sedilloti phrygius* Guignot, 1942**

Materials: Çorum: 1 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 04.06.2006.

Remarks: New for Çorum.

***Hydroporus palustris* (Linnaeus, 1761)**

Materials: Çorum: 7 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 01.03.2006; 1 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 01.05.2006; 8 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 04.06.2006; 6 ex. Göcenovacıği village (small lake), 40°20'N 34°50'E, 1307 m. 21.07.2007; 2 ex. Sarılık bridge, small stream, 40°23'N 35°04'E, 28.07.2007. **Yozgat:** 3 ex. Çayıralan, Karalı Boğazi, 39°18'N 35°50'E, 1350 m. 24.07.2006.

Remarks: This species is a new record fauna of the Central Anatolian region and also new for Çorum and Yozgat.

***Hydroporus planus* (Fabricius, 1782)**

Materials: Çorum: 1 ex. Sarılık bridge, small stream, 40°23'N 35 04'E, 12.28.2007; 2 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 03.07.2008.

Remarks: This species is a new record fauna of the Central Anatolian region and also new for Çorum.

***Hydroporus marginatus* (Duftschmid, 1805)**

Materials: Çorum: 1 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 01.04.2006; 15 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 14.06. 2006; 6 ex. Çatak (national park), 40°41'N 34°18'E, 1388 m. 29.07.2006.

Remarks: New for Çorum.

Nebrioporus stearinus suavis* (Sharp, 1882)*Materials: Çorum:** 2 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 09.09.2007.**Remarks:** New for Çorum.***Scarodytes halensis halensis* (Fabricius, 1787)****Materials: Çorum:** 1 ex. Gölün yazı lake, 40°41'N 34°54'E, 1103 m. 01.05.2006; 1 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 04.06.2006; 15 ex. Sıklık boğazı, 40°35'N 35°02'E, 1097 m. 28.07.2006; 2 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 05.08.2006; 28 ex. Göcenovacıği village (small lake), 40°20'N 34°50'E, 1307 m. 21.07.2007; 3 ex. Boğazönü village, 40°19'N 34°49'E, 1182 m. 05.08.2007; 6 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 05.08.2007; 1 ex. Sarılık bridge, small stream, 40°23'N 35°04'E, 25.08.2007; 5 ex. Boğazönü village, 40°19'N 34°49'E, 1182 m. 09.09.2007; 14 ex. Hatap (stream), 40°23'N 34°48'E, 866 m.09.09.2007; 12 ex. Küçük Keşlik village, 40°15'N 34°55'E, 1028 m. 01.09.2009. **Yozgat:** 3 ex. Çayıralan, Karalı Boğazı, 39°18'N 35°50'E, 1350 m. 22.07.2006; 3 ex. Çayıralan, Derekemal village, Örenlice, 39°21'N 35°43'E, 1603 m. 23.07.2006; 1 ex. Çayıralan, Karalı Boğazı, 39°18'N 35°50'E, 1350 m. 24.07.2006.**Remarks:** New for Çorum.***Hygrotus inaequalis* (Fabricius, 1777)****Materials: Çorum:** 6 ex. Gölün yazı lake, 40°41'N 34°54'E, 1103 m. 01.05.2006; 1 ex. Gölün yazı lake, 40°41'N 34°54'E, 1103 m. 04.06.2006.**Remarks:** New for Çorum.***Hygrotus impressopunctatus* (Schaller, 1783)****Materials: Çorum:** 1 ex. Gölün yazı lake, 40°41'N 34°54'E, 1103 m. 01.03.2006.**Remarks:** New for Çorum.***Hyphydrus ovatus* (Linnaeus, 1761)****Materials: Çorum:** 1 ex. Gölün yazı lake, 40°41'N 34°54'E, 1103 m. 04.06.2006.**Remarks:** New for Çorum.***Laccophilus hyalinus hyalinus* (De Geer, 1774)****Materials: Çorum:** 3 ex. Kadıkırı village (stream), 40°28'N 34°52'E, 07.07.2007; 1 ex. Sarılık bridge, small stream, 40°23'N 35°04'E, 25.08.2007; 1 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 09.09.2007.**Remarks:** New for Çorum.***Laccophilus minutus* (Linnaeus, 1758)****Materials: Çorum:** 24 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 01.04.2006; 9 ex. Beydilli village (marsh), 40°37'N 34°53'E, 872 m. 04.06.2006; 1 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 04.06.2006; 5 ex. Gölün yazı lake, 40°41'N 34°54'E, 1103 m 04.06.2006; 1 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 29.07.2006; 1 ex. Seydim (Seydim Lake), 40°33'N 34°44'E, 1106 m. 29.07.2006; 1 ex. Şekerbey village, 40°28'N 34°59'E, 899 m. 16.06.2007; 13 ex. Sarılık bridge, small stream, 40°23'N 35°04'E, 25.08.2007; 5 ex. Gökçeşinar village (small lake), 40°22'N 35°08'E; 25.08.2007; 1 ex. Küçük Keşlik village, 40°15'N 34°55'E, 1028 m. 01.09.2009. **Yozgat:** 1 ex. Çayıralan, Karalı Boğazı, 39°18'N 35°50'E, 1350 m. 24.07.2006.**Remarks:** New for Çorum and Yozgat.***Laccophilus poecilus* Klug, 1834****Materials: Çorum:** 1 ex. Gölün yazı lake, 40°41'N 34°54'E, 1103 m. 04.08.08.**Remarks:** New for Çorum.**Family Helophoridae*****Helophorus arvernensis* Mulsant, 1846****Materials: Çorum:** 7 ex. Centrum, Hacibey, 40°36'N 34°35'E, 532 m, 03.06.2008; 12 ex. Alaca, Seherhacı, 40°09'N 34°33'E, 973 m, 02.06.2007; 9 ex. Çapraşık, 40°10'N 35°05'E, 1027 m, 01.06.2007; 8 ex. Mecitözü, Elvançeşlebi, 40°35'N 35°08'E, 491 m, 03.06.2008; 13 ex. Sungurlu, Tüpcüköy, 40°17'N 34°15'E, 730 m, 02.06.2007.**Remarks:** This species is a new record fauna of the Central Anatolian region and also new for Çorum.***Helophorus aquaticus* (Linnaeus, 1758)****Materials: Çorum:** 1 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 01.06.2006; 15 ex. Çatak (national park), 40°41'N 34°18'E, 1388 m. 04.06.2006; 1 ex. Boğazönü village, 40°19'N 34°49'E, 1182 m. 26.04.2008; 5 ex. Centrum, 40°34'N 34°26'E, 1053 m, 02.06.2007; 8 ex. Alaca, Seherhacı, 40°09'N 34°33'E, 973 m, 02.06.2007; 10 ex. İskilip, Kayıbeli pass, 40°47'N 34°37'E, 1261 m, 03.06.2008; 5 ex. Laçın, Mescitli, 40°46'N 34°56'E, 567 m,

05.05.2008; 10 ex. Mecitözü, Elvançelebi, 40°35'N 35°08'E, 491 m, 03.06.2008; 7 ex. Osmaniye, 40°41'N 34°54'E, 1109 m, 05.05.2008; 4 ex. Sungurlu, Yilce, 40°24'N 34°16'E, 731 m, 26.07.2007.

Remarks: New for Çorum.

***Helophorus micans* (Faldermann, 1835)**

Materials: Çorum: 7 ex. Sungurlu, Tüpçüköy, 40°17'N 34°15'E, 730m, 02.06.2007.

Remarks: New for Çorum.

***Helophorus syriacus* Kuwert, 1885**

Materials: Çorum: 5 ex. Beydilli village (marsh), 40°37'N 34°53'E, 872 m. 04.06.2006; 5 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 14.06. 2006.

Remarks: This species is a new record fauna of the Central Anatolian region and also new for Çorum.

***Helophorus brevipalpis brevipalpis* Bedel, 1881**

Materials: Çorum : 15 ex. Beydilli village (marsh), 40°37'N 34°53'E, 872 m. 04.06.2006; 37 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 14.06. 2006; 5 ex. Centrum, 40°34'N 34°26'E, 1053 m, 02.06.2007; 11 ex. Alaca, Seherhacı, 40°09'N 34°33'E, 973 m, 02.06.2007; 7 ex. Avutmuş, 40°10'N 35°02'E, 1027 m, 01.06.2007; 6 ex. Çapraşık, 40°10'N 35°05'E, 1027 m, 01.06.2007; 11 ex. Kayabaşı, Tuğulu, 40°26'N 34°20'E, 731 m, 02.06.2007; 8 ex. Mecitözü, Boyacı, 40°26'N 35°16'E, 865 m, 28.06.2007; 4 ex. Elvançelebi, 40°35'N 35°08'E, 491 m, 03.06.2008; 12 ex. Sungurlu, 40°07'N 34°31'E, 858 m, 02.06.2007; 9 ex. Tüpçüköy, 40°17'N 34°15'E, 730 m, 02.06.2007; 9 ex. Yilce, 40°24'N 34°16'E, 731 m, 26.07.2007.

Remarks: New for Çorum.

***Helophorus daedalus* d'Orchymont, 1932**

Materials: Çorum: 6 ex. Oğuzlar, Ağaçam, 40°48'N 34°40'E, 966 m, 27.06.2007.

Remarks: New for Çorum.

***Helophorus discrepans* Rey, 1885**

Materials: Çorum: 5 ex. Centrum, 40°34'N 34°46'E, 1018 m, 27.06.2007; 6 ex. Sungurlu, Tüpçüköy, 40°11'N 34°19'E, 793 m, 02.06.2007; 8 ex. Alaca, Seherhacı, 40°09'N 34°33'E, 973 m, 02.06.2007; 19 ex. Çapraşık, 40°10'N 35°05'E, 1027 m, 01.06.2007. **Yozgat:** 3 ex. Çayıralan, Derekemal village, Örenlice, 39° 21' N 35° 43' E, 1603m. 23.07.2006.

Remarks: New for Çorum and Yozgat.

***Helophorus flavipes* Fabricius, 1792**

Materials: Çorum: 1 ex. Sarılık bridge, small stream, 40°23'N 35°04'E, 28.07.2007; 2 ex. Mecitözü, Elvançelebi, 40°35'N 35°08'E, 491 m, 03.06.2008.

Remarks: This species is a new record fauna of the Central Anatolian region and also new for Çorum.

***Helophorus fulgidicollis* Motschulsky, 1860**

Materials: Çorum: 7 ex. Mecitözü, Elvançelebi, 40°35'N 35°08'E, 491 m, 03.06.2008; 5 ex. Sungurlu, Yilce, 40°24'N 34°16'E, 731 m, 26.07.2007.

Remarks: This species is a new record fauna of the Central Anatolian region and also new for Çorum.

***Helophorus griseus* Herbst, 1793**

Materials: Çorum: 8 ex. Centrum, Hacıbey, 40°36'N 34°35'E, 532 m, 03.06.2008; 7 ex. Laçın, Narlıçay, 40°49'N 34°52'E, 450 m, 27.06.2007.

Remarks: New for Çorum.

***Helophorus lewisi* Angus, 1985**

Materials: Çorum: 3 ex. Beydilli village (marsh), 40°37'N 34°53'E, 872 m. 04.06.2006.

Remarks: This species is a new record fauna of the Central Anatolian region and also new for Çorum.

***Helophorus obscurus* Mulsant, 1844**

Materials: Çorum: 7 ex. Alaca, Seherhacı, 40°09'N 34°33'E, 973 m, 02.06.2007; 6 ex. Sungurlu, Yilce, 40°24'N 34°16'E, 731 m, 26.07.2007.

Remarks: This species is a new record fauna of the Central Anatolian region and also new for Çorum.

***Helophorus strigifrons* Thomson, 1868**

Materials: Çorum: 5 ex. Centrum, Hacıbey, 40°36'N 34°35'E, 532 m, 03.06.2008; 6 ex. Sungurlu, Tüpçüköy, 40°17'N 34°15'E, 730 m, 02.06.2007.

Remarks: New for Çorum.

Helophorus terminassianae* Angus, 1984*Materials: Çorum:** 3 ex. Sungurlu, 40°07'N 34°31'E, 858 m, 02.06.2007.**Remarks:** New for Çorum.**Family Hydrophilidae*****Anacaena limbata* (Fabricius, 1792)****Materials: Çorum:** 1 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 01.09.2006. **Yozgat:** 2 ex. Çayıralan, Kaynarçınar, 39°18'N 35°50'E, 1379 m. 18.07.2006; 12 ex. Çayıralan, Karalı Boğazı, 39°18'N 35°50'E, 1350 m. 24.07.2006.**Remarks:** New for Çorum and Yozgat***Paracymus relaxus* Rey, 1884****Materials: Çorum:** 1 ex. Centrum, Tuğulu, Kayabaşı, 40°26'N 34°20'E, 731 m, 02.06.2007.**Remarks:** This species is a new record fauna of the Central Anatolian region and also new for Çorum.***Enochrus fuscipennis* (Thomson, 1884)****Materials: Çorum:** 4 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 01.06.2006; 2 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 04.06.2006; 12 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 14.06.2006; 4 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 01.07.2006; 6 ex. Sarılık bridge, small stream, 40°23'N 35°04'E, 28.07.2007.**Remarks:** New for Çorum.***Berosus spinosus* (Steven, 1808)****Materials: Çorum:** 1 ex. Laçın, Narlıçay, 40°49'N 34°52'E, 450 m, 27.06.2007.**Remarks:** New for Çorum.***Helochaeres lividus* (Forster, 1771)****Materials: Çorum:** 5 ex. Centrum, 40°34'N 34°46'E, 1018 m, 27.06.2007; 1 ex. Oğuzlar, Ağaçam, 40°48'N 34°40'E, 966 m, 27.06.2007.**Remarks:** New for Çorum.***Helochaeres punctatus* Sharp, 1869****Materials: Çorum:** 11 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 01.06.2006; 1 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 04.06.2006.**Remarks:** This species is a new record fauna of the Central Anatolian region and also new for Çorum.***Hydrobius fuscipes* (Linnaeus, 1758)****Materials: Çorum:** 1 ex. Gölünyazı lake, 40°41'N 34°54'E, 1103 m. 04.06.2006; 4 ex. Osmaniye, 40°41'N 34°54'E, 1109 m, 05.05.2008.**Remarks:** New for Çorum.***Hydrophilus piceus* (Linnaeus, 1758)****Materials: Çorum:** 1 ex. near the H.Ü. Faculty of Arts & Sciences, 40°34'N 34°55'E, 795 m. 14.06.2006.**Remarks:** New for Çorum.***Laccobius bipunctatus* (Fabricius, 1775)****Materials: Çorum:** 3 ex. Boğazönü village, 40°19'N 34°49'E, 1182 m. 05.08.2007; 1 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 26.04.2008; 3 ex. Hatap (stream), 40°23'N 34°48'E, 866 m. 03.07.2008.**Remarks:** New for Çorum.***Laccobius simulatrix* d'Orchymont, 1932****Materials: Çorum:** 3 ex. Boğazönü village, 40°19'N 34°49'E, 1182 m. 26.04.2008; 8 ex. Centrum, 40°34'N 34°26'E, 1053 m, 02.06.2007; 7 ex. Mecitözü, Elvançelebi, 40°35'N 35°08'E, 491 m, 03.06.2008; 6 ex. Boyacı, 40°26'N 35°16'E, 865 m, 28.06.2007; 5 ex. Oğuzlar, Ağaçam, 40°48'N 34°40'E, 966 m, 27.06.2007; 3 ex. Osmaniye, 40°41'N 34°54'E, 1109 m, 05.05.2008. **Yozgat:** 2 ex. Çökerek, Kadışehir, 40°01'N 35°44'E, 1211 m, 01.06.2007.**Remarks:** New for Yozgat***Laccobius syriacus* Guillebeau, 1896****Materials: Çorum:** 42 ex. Beydilli village (marsh), 40°37'N 34°53'E, 872 m. 04.06.2006; 8 ex. Türkler village (stream), 40°38'N 34°52'E, 956 m. 29.07.2006; 5 ex. Centrum, 40°35'N 34°43'E, 1026 m, 01.07.2007; 8 ex. Hacıbey,

40°36'N 34°35'E, 532 m, 03.06.2008; 8 ex. Alaca, Seherhacı, 40°09'N 34°33'E, 973 m, 02.06.2007; 7 ex. Çapraşık, 40°10'N 35°05'E, 1027 m, 01.06.2007; 10 ex. Kayabaşı, Tuğulu, 40°26'N 34°20'E, 731 m, 02.06.2007; 10 ex. Mecitözü, Boyacı, 40°26'N 35°16'E, 865 m, 28.06.2007; 6 ex. Oğuzlar, Ağaççam, 40°48'N 34°40'E, 966 m, 27.06.2007; 5 ex. Sungurlu, Tüpcüköy, 40°11'N 34°19'E, 793 m, 02.06.2007; 6 ex. Tuğulu, 40°17'N 34°15'E, 730 m, 02.06.2007.

***Laccobius obscuratus aegaeus* Gentili, 1974**

Materials: Çorum: 1 ex. Çatak (national park), 40°41'N 34°18'E, 1388 m. 04.06.2006; 2 ex. Çatak (national park), 40°41'N 34°18'E, 1388 m. 29.07.2006; 5 ex. Mecitözü, Boyacı, 40°26'N 35°16'E, 865 m, 28.06.2007; 3 ex. Ortaköy, Selimbey, 40°17'N 35°53'E, 765 m, 02.06.2007.

***Laccobius gracilis gracilis* Motschulsky, 1855**

Materials: Çorum: 5 ex. Sungurlu, Tuğulu, 40°17'N 34°15'E, 730 m, 02.06.2007. **Yozgat:** 1 ex. Çayıralan, Derekemal village, Örenlice, 39°21'N 35°43'E, 1603 m. 23.07.2006.

Remarks: New for Yozgat.

***Coelostoma orbiculare* (Fabricius, 1775)**

Materials: Çorum: 1 ex. Centrum, 40°34'N 34°46'E, 1018 m, 27.06.2007.

Remarks: New for Çorum.

4. Conclusions

In different habitats of Çorum and Yozgat Provinces, 62 species belonging to 6 families were recorded. Of these, *Haliphus lineatocollis*, *Agabus labiatus*, *Hydaticus transversalis laevisculptus*, *Hydroporus palustris*, *Hydroporus planus*, *Helophorus arvernensis*, *Helophorus syriacus*, *Helophorus flavipes*, *Helophorus fulgidicollis*, *Helophorus lewisi*, *Helophorus obscurus*, *Paracymus relaxus* and *Helochares punctatus* are new records for the aquatic coleoptera fauna of Central Anatolian region. Furthermore, 56 species are new record only for Çorum and 14 for Yozgat. Although the water beetle fauna of Turkey is now better known, more studies are required to better understand the overall distribution.

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