

RESEARCH OF AQUATIC COLEOPTERA FAUNA OF THE INNER WESTERN ANATOLIA, PART - II (COLEOPTERA: HELOPHORIDAE, HYDROCHIDAE AND HYDROPHILIDAE)

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ABSTRACT: 5185 specimens belonging to the superfamily of the Hydrophiloidea were collected by area studies between April-September in 2007-2009 in provinces of Afyon, Denizli, Kütahya and Uşak located in the Inner Western Anatolia. As a result of identification of these specimens, 66 species group taxa (65 species and one subspecies) of 18 genera of three families belong to the order Coleoptera were determined (Helophoridae 20 species; Hydrochidae 3 species; Hydrophilidae 42 species and one subspecies).

KEY WORDS: Aquatic Coleoptera, fauna, Inner Western Anatolia, Turkey

Many field surveys were carried out between 2007-2009 with the purpose of discovering the Inner Western Anatolia aquatic Coleoptera fauna. As a result of these studies 145 species taxon, belonging to 7 families of Adephaga and Polyphaga (Adephaga: Gyrinidae, Haliplidae, Noteridae, and Dytiscidae; Polyphaga: Helophoridae, Hydrochidae and Hydrophilidae), have been identified. The 1st Part of this study was published with the title "Research of aquatic Coleoptera fauna of the Inner Western Anatolia, Part-I" (Darılmaz & Kiyak, 2015). In the 2nd Part of this study some species related to Helophoridae, Hydrochidae and Hydrophilidae families that have been discovered in the Inner Western Anatolia region will be presented.

This study is a part of PhD thesis of the first author (Darılmaz, 2010).

MATERIAL AND METHODS

Samples were collected from various water bodies with sieve, ladle and net having a mesh size of one millimeter. The specimens were preserved with 70 % alcohol, and in the laboratory they were cleaned off from clayey and muddy substances with a small paintbrush.

The list of localities is shown in Fig. 1.

List of localities of recorded species from the research area

- BE1: AFYON: Emirdağ (Eskişehir road 5th km, under bridge), 39°03'610"K 31°09'854"D, 933 m, 23.04.2007
 BE2: AFYON: İscehisar (Seydiler, roadside pond), 38°53'846"K 30°50'142"D, 1201 m, 23.04.2007
 BE3: KÜTAHYA: Altıntaş (Oluklu stream-under bridge), 39°04'869"K 30°07'557"D, 1018 m, 24.04.2007
 BE4: KÜTAHYA: Between Altıntaş-Dumlupınar (exit of Genişler village-Oluklu stream), 38°58'749"K 30°06'800"D, 1064 m, 24.04.2007
 BE5: AFYON: Hocalar (Devlethan village-Gözü stream), 38°31'764"K 29°58'608"D, 1011 m, 24.04.2007
 BE6: DENİZLİ: Çivril (Akdağ-Küf stream), 38°21'633"K 29°51'107"D, 896 m, 25.04.2007
 BE7: DENİZLİ: Çivril (Işıklı Lake, 1st station), 38°16'077"K 29°55'498"D, 827 m, 25.04.2007
 BE8: DENİZLİ: Buldan (Süleymanlı Lake), 38°03'035"K 28°46'291"D, 1157 m, 26.04.2007
 BE9: DENİZLİ: Çal (Karapınar village-Karapınar pond), 37°46'104"K 29°07'715"D, 350 m, 26.04.2007

- BE10: DENİZLİ: Acıpayam (Akalan town, stream from Dam), 37°22'793"K 29°17'521"D, 1100 m, 27.04.2007
- BE11: DENİZLİ: Acıpayam (Akalan town, roadside puddle near Dam), 37°21'878"K 29°20'292"D, 985 m, 27.04.2007
- BE12: DENİZLİ: Acıpayam (Çakırköyü-stream fall off Dalaman stream), 37°18'298"K 29°20'730"D, 821 m, 27.04.2007
- BE13: DENİZLİ: Pamukkale, 37°55'150"K 29°07'262"D, 280 m, 28.04.2007
- BE14: DENİZLİ: Karahayıt (Red Water), 37°58'048"K 29°06'108"D, 335 m, 28.04.2007
- BE15: DENİZLİ: Denizli (between Akköy-Sarayköy, Aksu stream), 37°56'381"K 28°59'523"D, 146 m, 28.04.2007
- BE16: DENİZLİ: Babadağ (Gündoğdu district, Babadağ stream), 37°47'943"K 28°51'363"D, 749 m, 28.04.2007
- BE17: DENİZLİ: Çardak (exit of Gemiş village-Çeşme, puddle), 37°46'367"K 29°50'622"D, 847 m, 29.04.2007
- BE18: DENİZLİ: Çardak (near Acıgöl), 37°47'960"K 29°53'625"D, 848 m, 29.04.2007
- BE19: AFYON: Emirdağ (2 km to Çatallı village), 38°57'260"K 31°07'676"D, 1074 m, 19.05.2007
- BE20: AFYON: Emirdağ (exit of Çatallı village-collected on the fly), 38°55'662"K 31°08'748"D, 1235 m, 19.05.2007
- BE21: AFYON: Emirdağ (Çatallı village-Çeşme), 38°56'496"K 31°08'075"D, 1116 m, 19.05.2007
- BE22: AFYON: Afyon- Kütahya road 2nd km. (Akar stream), 38°50'487"K 30°25'925"D, 1031 m, 20.05.2007
- BE23: KÜTAHYA: Between Altıntaş-Dumlupınar (exit of Genişler village-Oluklu stream), 38°58'749"K 30°06'800"D, 1064 m, 20.05.2007
- BE24: KÜTAHYA: Between Tavşanlı-Domaniç (Karasu stream), 39°34'921"K 29°27'852"D, 817 m, 21.05.2007
- BE25: KÜTAHYA: Between Tavşanlı-Domaniç (Karaköy-Kocasu stream), 39°43'665"K 29°31'457"D, 708 m, 21.05.2007
- BE26: KÜTAHYA: Tavşanlı (Güzelyurt pond), 39°29'007"K 29°34'480"D, 850 m, 21.05.2007
- BE27: KÜTAHYA: Simav (Gölcük Plateau Lake), 39°09'975"K 29°05'108"D, 1309 m, 22.05.2007
- BE28: KÜTAHYA: Simav (Demirciköy, puddle), 39°06'094"K 28°55'457"D, 825 m, 22.05.2007
- BE29: KÜTAHYA: Şaphane (exit of Karamanca village, roadside stream), 39°00'905"K 29°09'631"D, 899 m, 22.05.2007
- BE30: UŞAK: Ulubey (Güney road-Hamam stream), 38°17'910"K 29°08'479"D, 528 m, 23.05.2007
- BE31: UŞAK: Eşme (İsalar pond), 38°28'316"K 29°01'503"D, 800 m, 23.05.2007
- BE32: AFYON: Hocalar-Banaz 10th km (puddle of irrigation canal), 38°39'043"K 29°48'955"D, 997 m, 23.05.2007
- BE33: AFYON: Hocalar (Devlethan village, Belağı Plateau, Ayan fountain), 38°32'444"K 29°54'556"D, 1200 m, 24.05.2007
- BE34: DENİZLİ: Çivril (Işıklı Lake, 1st station), 38°16'077"K 29°55'498"D, 827 m, 24.05.2007
- BE35: DENİZLİ: Honaz Mountain National Park, 37°39'660"K 29°14'779"D, 1215 m, 25.05.2007
- BE36: DENİZLİ: Honaz (Yukarıdağdere village-Saklı Lake), 37°46'621"K 29°21'901"D, 959 m, 25.05.2007
- BE37: DENİZLİ: Bozkurt (Çambaşı village-Karagöl), 37°44'084"K 29°29'530"D, 1266 m, 26.05.2007
- BE38: DENİZLİ: Bozkurt (Çambaşı village-Emir stream), 37°43'084"K 29°28'530"D, 1250 m, 26.05.2007
- BE39: AFYON: Bayat (Çalboğazı stream), 38°59'267"K 30°56'650"D, 1045 m, 18.06.2007
- BE40: AFYON: Bayat (Bayat pond-Çalboğazı stream), 38°58'194"K 30°53'394"D, 1138 m, 18.06.2007
- BE41: AFYON: Bayat (puddle of the rain on the road of Bayat pond), 38°58'581"K 30°53'871"D, 1162 m, 18.06.2007
- BE42: AFYON: Bayat (Bayat pond), 38°58'536"K 30°53'970"D, 1145 m, 18.06.2007
- BE43: AFYON: İsehisar (Aşşar stream), 38°47'931"K 30°48'844"D, 1053 m, 18.06.2007
- BE44: AFYON: İsehisar (İsehisar Dam), 38°47'393"K 30°48'221"D, 1044 m, 19.06.2007
- BE45: AFYON: İhsaniye (collected on the fly), 39°03'605"K 30°24'056"D, 1110 m, 19.06.2007
- BE46: AFYON: İhsaniye (Üçlerkayası pond), 39°04'785"K 30°25'553"D, 1136 m, 19.06.2007
- BE47: AFYON: İhsaniye (Döğer village, Emre pond), 39°06'607"K 30°26'403"D, 1154 m, 19.06.2007
- BE48: KÜTAHYA: Söğüt (Söğüt Dam), 39°25'264"K 30°11'380"D, 1134 m, 19.06.2007
- BE49: KÜTAHYA: Söğüt (Söğüt stream), 39°26'896"K 30°10'212"D, 1069 m, 19.06.2007
- BE50: KÜTAHYA: Tavşanlı (Kuruçay village-Kuruçay pond), 39°28'660"K 29°30'358"D, 902 m, 20.06.2007
- BE51: KÜTAHYA: Domaniç (Domaniç-İnegöl road 5th km, Çakıl stream), 39°50'709"K 29°38'346"D, 1126 m, 20.06.2007
- BE52: KÜTAHYA: Domaniç (Domaniç-Bursa road, Çeşme), 39°50'709"K 29°38'346"D, 1126 m, 20.06.2007
- BE53: KÜTAHYA: Domaniç (Domaniç-Bursa road 8th km, pond of Palazoğlu Fish facility), 39°51'823"K 29°38'393"D, 1333 m, 20.06.2007
- BE54: KÜTAHYA: Çavdarhisar (Çavdarhisar Dam), 39°10'728"K 29°35'377"D, 1023 m, 20.06.2007
- BE55: KÜTAHYA: Gediz (Gümeleköy Dam), 38°55'385"K 29°28'411"D, 796 m, 21.06.2007

- BE56: KÜTAHYA: Gediz (Muratdağı, Çeşme), 38°57'319"K 29°37'248"D, 1470 m, 21.06.2007
 BE57: KÜTAHYA: Gediz (Muratdağı 15th km-Muratdağı stream), 38°58'353"K 29°34'025"D, 884 m, 21.06.2007
 BE58: KÜTAHYA: Center (Kuşu village-Kuşu pond), 38°59'796"K 29°00'101"D, 1008 m, 22.06.2007
 BE59: KÜTAHYA: Şaphane (stream of entry of Şaphane), 39°00'880"K 29°09'997"D, 876 m, 22.06.2007
 BE60: UŞAK: Eşme (Bozlar stream), 38°35'415"K 29°01'627"D, 600 m, 22.06.2007
 BE61: UŞAK: Eşme (Takmak village-Takmak pond), 38°26'486"K 28°57'047"D, 831 m, 22.06.2007
 BE62: UŞAK: Eşme (Yeleşen village-Yeleşen pond), 38°18'450"K 28°55'551"D, 817 m, 22.06.2007
 BE63: UŞAK: Eşme (Yeşilkavak village-Yeşilkavak pond), 38°18'162"K 28°57'947"D, 753 m, 22.06.2007
 BE64: UŞAK: Banaz (Ahat village-Çeşme), 38°39'331"K 29°46'825"D, 958 m, 23.06.2007
 BE65: UŞAK: Banaz (Yeşilyurt village-Kaynarca district), 38°48'104"K 29°40'475"D, 1076 m, 23.06.2007
 BE66: UŞAK: Banaz (Yeşilyurt village-Kaynarca stream), 38°48'385"K 29°40'703"D, 1024 m, 23.06.2007
 BE67: UŞAK: Banaz (Küçükler Dam), 38°52'588"K 29°36'597"D, 1265 m, 23.06.2007
 BE68: AFYON: Hocalar-Banaz 10th km (puddle of irrigation canal), 38°39'043"K 29°48'955"D, 997 m, 23.06.2007
 BE69: AFYON: Hocalar (Devlethan village-İmamkızı district fountain), 38°33'444"K 29°56'556"D, 1138 m, 23.06.2007
 BE70: DENİZLİ: Çardak (Beylerli town-Değirmendere), 37°41'294"K 29°37'290"D, 921 m, 24.06.2007
 BE71: DENİZLİ: Çardak (Söğüt village-Söğüt pond and fountain), 37°39'479"K 29°33'505"D, 1349 m, 24.06.2007
 BE72: DENİZLİ: Beyağaç (Kartal Lake road 7th km, fountain), 37°11'593"K 28°51'962"D, 1070 m, 25.06.2007
 BE73: DENİZLİ: Beyağaç (Kartal Lake), 37°05'761"K 28°50'975"D, 1903 m, 25.06.2007
 BE74: DENİZLİ: Beyağaç (Kartal Lake road 19th km, stream), 37°07'701"K 28°50'313"D, 1414 m, 25.06.2007
 BE75: DENİZLİ: Honaz Mountain National Park, 37°39'660"K 29°14'779"D, 1215 m, 26.06.2007
 BE76: AFYON: Çay (Çayır yazı village pond), 38°22'468"K 30°44'550"D, 1112 m, 27.06.2007
 BE77: AFYON: Çay (Eber Lake), 38°36'875"K 31°09'611"D, 973 m, 27.06.2007
 BE78: AFYON: Emirdağ (Pınarbaşı pond), 39°02'877"K 31°19'605"D, 899 m, 09.07.2007
 BE79: AFYON: Çay (Eber Lake), 38°36'875"K 31°09'611"D, 973 m, 09.07.2007
 BE80: AFYON: Çay (Karamık marshy place), 38°25'271"K 30°53'090"D, 1014 m, 10.07.2007
 BE81: AFYON: Çay (entry of Aydoğmuş village, puddle), 38°22'574"K 30°46'226"D, 1013 m, 10.07.2007
 BE82: KÜTAHYA: Porsuk Dam, 39°34'309"K 30°07'072"D, 888 m, 10.07.2007
 BE83: KÜTAHYA: Frig Valley (Sabuncupınar stream), 39°33'601"K 30°12'806"D, 960 m, 11.07.2007
 BE84: KÜTAHYA: Çavdarhisar (Çavdarhisar road 2nd km-Porsuk stream), 39°21'750"K 30°02'934"D, 958 m, 11.07.2007
 BE85: KÜTAHYA: Center (Pullar village-Pullar pond), 39°20'643"K 29°49'711"D, 1213 m, 11.07.2007
 BE86: KÜTAHYA: Çavdarhisar (Bedir stream), 39°12'052"K 29°36'718"D, 1020 m, 11.07.2007
 BE87: KÜTAHYA: Simav (Gölcük Plateau Lake), 39°09'975"K 29°05'108"D, 1309 m, 12.07.2007
 BE88: KÜTAHYA: Pazarlar (Pazarlar pond), 38°59'782"K 29°05'175"D, 949 m, 12.07.2007
 BE89: KÜTAHYA: Pazarlar (Yakuplar village-Yakuplar pond, irrigation stream), 38°55'887"K 29°08'545"D, 918 m, 12.07.2007
 BE90: UŞAK: Center (Göğem pond), 38°43'200"K 29°33'351"D, 958 m, 13.07.2007
 BE91: UŞAK: Ulubey (Kazancı stream), 38°22'750"K 29°18'315"D, 543 m, 13.07.2007
 BE92: UŞAK: Ulubey (Banaz stream), 38°21'967"K 29°19'688"D, 543 m, 13.07.2007
 BE93: DENİZLİ: Çivril (exit of Gülpınar spring), 38°25'265"K 29°43'029"D, 973 m, 13.07.2007
 BE94: DENİZLİ: Buldan (Süleymanlı Lake), 38°03'035"K 28°46'291"D, 1157 m, 13.07.2007
 BE95: DENİZLİ: Çal (Belevi village-fountain), 37°54'661"K 29°33'659"D, 954 m, 14.07.2007
 BE96: DENİZLİ: Beyağaç (Kartal Lake), 37°05'761"K 28°50'975"D, 1903 m, 15.07.2007
 BE97: AFYON: Emirdağ (Pınarbaşı pond), 39°02'877"K 31°19'605"D, 899 m, 10.08.2007
 BE98: AFYON: Çay (Çayır yazı village pond), 38°22'468"K 30°44'550"D, 1112 m, 10.08.2007
 BE99: DENİZLİ: Tavas (Yorga village-Gökçeşim district-the sources of spring), 37°19'951"K 29°07'478"D, 1164 m, 11.08.2007
 BE100: DENİZLİ: Serinhisar (Yatağan-Kefe Plateau road-roadside fountain), 37°36'669"K 29°23'078"D, 1301 m, 12.08.2007
 BE101: DENİZLİ: Serinhisar (between Kocapınar-Karaçay, Karaçay), 37°40'187"K 29°24'045"D, 1100 m, 12.08.2007
 BE102: DENİZLİ: Babadağ (Gündoğdu district, Babadağ stream), 37°47'943"K 28°51'363"D, 749 m, 13.08.2007
 BE103: DENİZLİ: Babadağ (Kelleci village, irrigation pond), 37°49'601"K 28°54'829"D, 687 m, 13.08.2007
 BE104: DENİZLİ: Çivril (between Çatak-Karaköy, Büyük Menderes), 38°09'413"K 29°38'405"D, 809 m, 14.08.2007
 BE105: DENİZLİ: Çivril (Işıklı Lake, 1st station), 38°16'077"K 29°55'498"D, 827 m, 14.08.2007
 BE106: AFYON: Sandıklı (Karacaören village-Karacaören pond stream), 38°29'340"K 30°17'954"D, 1212 m, 15.08.2007
 BE107: AFYON: Sincanlı (Tınaztepe pond), 38°43'123"K 30°23'023"D, 1135 m, 15.08.2007

- BE108: AFYON: Sinanpaşa (exit of Kırka pond), 38°42'444"K 30°13'875"D, 1204 m, 15.08.2007
 BE109: UŞAK: Banaz (Kuşdemir village-Kuşdemir pond), 38°44'778"K 29°43'050"D, 991 m, 15.08.2007
 BE110: UŞAK: Eşme (Ahmetler Village-Ahmetler Pond), 38°24'645"K 29°05'618"D, 804 m, 16.08.2007
 BE111: UŞAK: Eşme (Kolonkaya Village-Kolonkaya Pond), 38°28'067"K 29°01'105"D, 782 m, 16.08.2007
 BE112: UŞAK: Eşme (Güneyköy-Güneyköy Pond), 38°23'375"K 28°51'720"D, 862 m, 16.08.2007
 BE113: UŞAK: Eşme (Güneyköy Road 2nd km), 38°23'501"K 28°56'960"D, 835 m, 16.08.2007
 BE114: KÜTAHYA: Gediz (Gölcük Village-Gediz river), 38°53'877"K 29°17'767"D, 647 m, 17.08.2007
 BE115: KÜTAHYA: Gediz (Ilıca hot springs), 38°56'436"K 29°15'418"D, 697 m, 17.08.2007
 BE116: KÜTAHYA: Simav (Örenli Village-Örenli Pond), 39°11'741"K 28°53'382"D, 819 m, 17.08.2007
 BE117: KÜTAHYA: Simav (Gölcük Plateau Lake), 39°09'975"K 29°05'108"D, 1309 m, 17.08.2007
 BE118: KÜTAHYA: Hisarcık (Emet Stream), 39°16'510"K 29°13'647"D, 736 m, 18.08.2007
 BE119: KÜTAHYA: Emet (entry of Yenice Village-fountain), 39°17'941"K 29°10'887"D, 915 m, 18.08.2007
 BE120: KÜTAHYA: Tavşanlı (Köprücek village-Köprücek pond), 39°34'809"K 29°20'961"D, 1026 m, 18.08.2007
 BE121: KÜTAHYA: Tavşanlı (Harmançık road 5th km-Kocasu Stream), 39°35'164"K 29°24'425"D, 873 m, 18.08.2007
 BE122: KÜTAHYA: Domaniç (Domaniç-İnegöl Road 5th km, Çakıl stream), 39°50'709"K 29°38'346"D, 1126 m, 18.08.2007
 BE123: KÜTAHYA: Frig Valley (Sabuncupınar stream), 39°33'601"K 30°12'806"D, 960 m, 19.08.2007
 BE124: AFYON: Emirdağ (exit of Pınarbaşı Pond), 39°02'877"K 31°19'605"D, 899 m, 19.04.2008
 BE125: AFYON: Emirdağ (exit of Başkonak Village-collected on the fly), 38°55'207"K 31°06'350"D, 1207 m, 19.04.2008
 BE126: AFYON: Bolvadin (Özburun Town-Kapaklı Sekmesi roadside), 38°51'207"K 31°03'350"D, 1203 m, 19.04.2008
 BE127: AFYON: Çay (Eber Lake), 38°36'875"K 31°09'611"D, 973 m, 19.04.2008
 BE128: AFYON: Sultandağı (near Yakasenek Village), 38°32'156"K 31°10'778"D, 1282 m, 19.04.2008
 BE129: AFYON: Sultandağı (Dereçine-Kapı Stream), 38°28'226"K 31°14'964"D, 1148 m, 20.04.2008
 BE130: AFYON: Sultandağı (Nadir Village, near Akşehir Lake, Cherry garden puddle), 38°25'885"K 31°22'563"D, 963 m, 20.04.2008
 BE131: AFYON: Çay (Karamık marshy place), 38°25'271"K 30°53'090"D, 1014 m, 20.04.2008
 BE132: KÜTAHYA: between Altıntaş-Dumlupınar (exit of Genişler village-Oluklu stream), 38°58'749"K 30°06'800"D, 1064 m, 20.04.2008
 BE133: KÜTAHYA: Altıntaş (Gediz road 17th km-Murat stream), 38°58'574"K 29°34'457"D, 1073 m, 21.04.2008
 BE134: KÜTAHYA: Altıntaş (Gediz road 42th km), 38°59'920"K 29°42'246"D, 1189 m, 21.04.2008
 BE135: KÜTAHYA: Simav (Örenli Village-Örenli Pond), 39°11'741"K 28°53'382"D, 819 m, 21.04.2008
 BE136: DENİZLİ: Çivril (Akdağ-Küf stream), 38°21'633"K 29°51'107"D, 896 m, 22.04.2008
 BE137: DENİZLİ: Çivril (Işıklı Lake, 1st station), 38°16'077"K 29°55'498"D, 827 m, 22.04.2008
 BE138: DENİZLİ: Çivril (Gökgöl Village-Işıklı Lake 2nd station), 38°12'375"K 30°02'332"D, 1118 m, 22.04.2008
 BE139: AFYON: Başmakçı (Acıgöl), 37°50'127"K 29°57'454"D, 851 m, 22.04.2008
 BE140: DENİZLİ: Çardak (Beylerli Town-Değirmendere), 37°41'294"K 29°37'290"D, 921 m, 22.04.2008
 BE141: AFYON: Bayat (Bayat pond), 38°58'536"K 30°53'970"D, 1145 m, 03.05.2008
 BE142: AFYON: İncehisar (İncehisar Dam), 38°47'393"K 30°48'221"D, 1044 m, 03.05.2008
 BE143: AFYON: İhsaniye (Döğer Village Emre Pond), 39°06'607"K 30°26'403"D, 1154 m, 04.05.2008
 BE144: KÜTAHYA: Söğüt (Frig Valley caves-puddle of the rain), 39°26'445"K 30°10'569"D, 1082 m, 04.05.2008
 BE145: KÜTAHYA: Between Kozluca-Yumaklı (Türkmen Mt.), 39°25'410"K 30°16'608"D, 1305 m, 04.05.2008
 BE146: KÜTAHYA: Bayram-Sabuncupınar Road (Doğuluşah Stream), 39°30'932"K 30°09'867"D, 984 m, 04.05.2008
 BE147: KÜTAHYA: Domaniç (Domaniç-Bursa Road 8th km, pond of Palazoğlu Fish facility), 39°51'823"K 29°38'393"D, 1333 m, 05.05.2008
 BE148: KÜTAHYA: Tavşanlı (Güzelyurt pond), 39°29'007"K 29°34'480"D, 850 m, 05.05.2008
 BE149: KÜTAHYA: Tavşanlı (Kayaboğazı Dam), 39°25'151"K 29°36'727"D, 927 m, 05.05.2008
 BE150: KÜTAHYA: Çavdarhisar (exit of Çetre pond, stream), 39°15'890"K 29°28'407"D, 1165 m, 05.05.2008
 BE151: KÜTAHYA: Simav (Gölcük Plateau Lake), 39°09'975"K 29°05'108"D, 1309 m, 06.05.2008
 BE152: KÜTAHYA: Simav (Örenli Village-Örenli Pond), 39°11'741"K 28°53'382"D, 819 m, 06.05.2008
 BE153: DENİZLİ: Çivril (Gökgöl Village-Işıklı Lake 2nd station), 38°12'375"K 30°02'332"D, 1118 m, 07.05.2008
 BE154: DENİZLİ: Kakhk (Kakhk cave, pool), 37°51'364"K 29°23'135"D, 517 m, 07.05.2008
 BE155: DENİZLİ: Honaz (Yukarıdağdere village-Saklı Lake), 37°46'621"K 29°21'901"D, 959 m, 07.05.2008
 BE156: AFYON: Dinar (Karakuyu Lake), 38°04'587"K 30°16'505"D, 1020 m, 08.05.2008
 BE157: AFYON: Çay (Eber Lake), 38°36'875"K 31°09'611"D, 973 m, 08.05.2008

- BE158: AFYON: Emirdağ (Kemer kaya), 38°54'014"K 31°07'498"D, 1232 m, 10.06.2008
 BE159: AFYON: Çay (Eber Lake), 38°36'875"K 31°09'611"D, 973 m, 10.06.2008
 BE160: AFYON: Sultandağı (Yakasenek Village Fountain), 38°32'370"K 31°09'695"D, 1542 m, 11.06.2008
 BE161: AFYON: Sultandağı (Dereçine-Kapı Stream), 38°28'226"K 31°14'964"D, 1148 m, 11.06.2008
 BE162: AFYON: Çay (Pazarağaç Town-Devrendöğü farm district, roadside puddle), 38°36'867"K 30°51'268"D, 996 m, 11.06.2008
 BE163: AFYON: İhsaniye (Döğer Village, Emre Pond), 39°06'607"K 30°26'403"D, 1154 m, 11.06.2008
 BE164: AFYON: İhsaniye (Döğer Village, Emre Pond 2nd station), 39°06'607"K 30°26'403"D, 1154 m, 11.06.2008
 BE165: KÜTAHYA: İnli Village (Frig Valley road), 39°27'726"K 30°11'603"D, 1097 m, 12.06.2008
 BE166: KÜTAHYA: Domaniç (Landslide region-Çakıl Stream), 39°50'177"K 29°38'605"D, 966 m 12.06.2008
 BE167: AFYON: Emirdağ (Pınarbaşı Pond), 39°02'877"K 31°19'605"D, 899 m, 16.08.2008
 BE168: AFYON: Sultandağı (Dereçine-Kapı Stream), 38°28'226"K 31°14'964"D, 1148 m, 16.08.2008
 BE169: AFYON: Çay (Karamık marshy place), 38°25'271"K 30°53'090"D, 1014 m, 17.08.2008
 BE170: AFYON: İhsaniye (Döğer Village, Emre Pond 2nd station), 39°06'607"K 30°26'403"D, 1154 m, 17.08.2008
 BE171: KÜTAHYA: Türkmen Mt. (Söğüt Plateau-stream), 39°23'713"K 30°19'218"D, 1373 m, 17.08.2008
 BE172: KÜTAHYA: Türkmen Mt. (Güllüdere-Gölcük), 39°26'572"K 30°22'090"D, 1639 m, 18.08.2008
 BE173: KÜTAHYA: Between Yumaklı-Bayat Village 2nd km (stream), 39°25'911"K 30°16'100"D, 1269 m, 18.08.2008
 BE174: KÜTAHYA: İnli-Doğuluşah Road (Doğuluşah stream), 39°29'534"K 30°12'506"D, 1051 m, 18.08.2008
 BE175: KÜTAHYA: Frig Valley (Sabuncupınar stream), 39°33'601"K 30°12'806"D, 960 m, 18.08.2008
 BE176: KÜTAHYA: Altıntaş (Oysu Village-stream), 38°58'218"K 29°53'815"D, 1113 m, 18.08.2008
 BE177: KÜTAHYA: Gediz (Çukürören Village-stream), 38°59'030"K 29°41'225"D, 1180 m, 18.08.2008
 BE178: KÜTAHYA: Simav (Gölcük Plateau Lake), 39°09'975"K 29°05'108"D, 1309 m, 19.08.2008
 BE179: KÜTAHYA: Demirci (Söğütli Village-Güldürek), 39°08'010"K 28°36'122"D, 1195 m, 19.08.2008
 BE180: KÜTAHYA: Demirci (Türkmen Mt.-Sarıçayır Fire pond), 39°07'322"K 28°35'288"D, 1376 m, 19.08.2008
 BE181: KÜTAHYA: Selendi (Havvaoğlu Village-Sülüklü Lake), 38°51'687"K 28°46'940"D, 630 m, 630 m, 19.08.2008
 BE182: AFYON: Sandıklı (Sorkun Akdağ Natural Area Protection Park 6th km, Stream), 38°24'006"K 30°01'760"D, 1131 m, 20.08.2008
 BE183: AFYON: Sandıklı (Sorkun Plateau), 38°21'146"K 30°01'398"D, 1464 m, 20.08.2008
 BE184: AFYON: Sandıklı (near Akdağ Fire watchtower, fountain), 38°20'508"K 29°59'607"D, 1800 m, 20.08.2008
 BE185: DENİZLİ: Akdağ (near Cumalar Village, Sığırkuyruğu district Stream), 38°20'492"K 29°58'451"D, 1710 m, 20.08.2008
 BE186: DENİZLİ: Çivril (Gökgöl Village-Işıklı Lake 2nd station), 38°12'375"K 30°02'332"D, 1118 m, 20.08.2008
 BE187: AFYON: Dinar (Karakuyu Lake), 38°04'587"K 30°16'505"D, 1020 m, 20.08.2008
 BE188: AFYON: Bayat (Gömü Road 3rd km, roadside stream), 38°59'981"K 30°58'211"D, 1027 m, 15.09.2008
 BE189: KÜTAHYA: Türkmen Mt. (near Söğüt Plateau, roadside stream), 39°23'672"K 30°18'941"D, 1414 m, 16.09.2008
 BE190: KÜTAHYA: Between Yumaklı-Bayat Village 2nd km (stream), 39°25'911"K 30°16'100"D, 1269 m, 16.09.2008
 BE191: KÜTAHYA: Alayunt Village (Kocaköprü stream), 39°24'839"K 30°03'630"D, 930 m, 16.09.2008
 BE192: KÜTAHYA: Çavdarhisar (2nd km Porsuk stream), 39°21'463"K 30°02'552"D, 976 m, 16.09.2008
 BE193: KÜTAHYA: Simav (Örenli Village-Örenli Pond), 39°11'741"K 28°53'382"D, 819 m, 16.09.2008
 BE194: UŞAK: Center (Göğem Pond), 38°43'200"K 29°33'351"D, 958 m, 17.09.2008
 BE195: UŞAK: Altıntaş (exit of Mesudiye pond), 38°43'017"K 29°30'240"D, 930 m, 17.09.2008
 BE196: UŞAK: Eşme (1st km roadside stream), 38°38'549"K 29°03'084"D, 554 m, 17.09.2008
 BE197: UŞAK: Banaz (Ahat pond), 38°38'684"K 29°46'653"D, 1025 m, 17.09.2008
 BE198: UŞAK: Banaz-Hocalar road (exit of Ahat Village, puddle of irrigation canal), 38°39'110"K 29°48'751"D, 1003 m, 17.09.2008
 BE199: DENİZLİ: Çivril (Gökgöl Village-Işıklı Lake 2nd station), 38°12'375"K 30°02'332"D, 1118 m, 18.09.2008
 BE200: DENİZLİ: Beyağaç (Eşen Pond), 37°12'468"K 29°00'550"D, 1017 m, 18.09.2008
 BE201: AFYON: Çay (Çayyazı Village Pond), 38°22'468"K 30°44'550"D, 1112 m, 19.09.2008
 BE202: AFYON: Sultandağı (Dereçine-Kapı Stream), 38°28'226"K 31°14'964"D, 1148 m, 19.09.2008
 BE203: KÜTAHYA: Center-Frig Valley (Muratboğazı Village-Çinili fountain), 39°20'668"K 30°12'679"D, 1100 m, 27.04.2009
 BE204: KÜTAHYA: Türkmen Mt. (Söğüt Plateau-stream), 39°23'713"K 30°19'218"D, 1373 m, 27.04.2009
 BE205: KÜTAHYA: Türkmen Mt. (Güllüdere-Gölcük), 39°26'572"K 30°22'090"D, 1639 m, 27.04.2009

- BE206: KÜTAHYA: Center (near organized industry area-swampland), 39°23'255"K 30°06'607"D, 939 m, 28.04.2009
- BE207: KÜTAHYA: Between Kozluca-Yumaklı (Türkmen Mt.), 39°25'410"K 30°16'608"D, 1305 m, 28.04.2009
- BE208: KÜTAHYA: Simav (Gölcük Plateau Lake), 39°09'975"K 29°05'108"D, 1309 m, 28.04.2009
- BE209: KÜTAHYA: Simav (Örenli Village-Örenli Pond), 39°11'741"K 28°53'382"D, 819 m, 28.04.2009
- BE210: KÜTAHYA: Simav (Simav Lake), 39°10'549"K 28°55'586"D, 789 m, 28.04.2009
- BE211: DENİZLİ: Çivril (Işıklı Lake, 1st station), 38°16'077"K 29°55'498"D, 827 m, 29.04.2009
- BE212: DENİZLİ: Çivril (Gökgöl Village-Işıklı Lake 2nd station), 38°12'375"K 30°02'332"D, 1118 m, 29.04.2009
- BE213: DENİZLİ: Çivril (Gökgöl Village-Işıklı Lake 3rd station), 38°11'656"K 30°03'523"D, 830 m, 29.04.2009
- BE214: DENİZLİ: Buldan (Süleymanlı Lake), 38°03'035"K 28°46'291"D, 1157 m, 29.04.2009
- BE215: DENİZLİ: Beylerli (Çaltı Lake-1st station), 37°43'458"K 29°41'070"D, 853 m, 30.04.2009
- BE216: DENİZLİ: Beylerli (Çaltı Lake-2nd station), 37°43'676"K 29°41'301"D, 851 m, 30.04.2009
- BE217: DENİZLİ: Çardak (exit of Gemiş village-fountain puddle), 37°46'367"K 29°50'622"D, 847 m, 30.04.2009
- BE218: DENİZLİ: Çardak (Acıgöl-1st station), 37°47'759"K 29°53'378"D, 849 m, 30.04.2009
- BE219: DENİZLİ: Çardak (Acıgöl-2nd station), 37°49'054"K 29°55'619"D, 826 m, 30.04.2009
- BE220: AFYON: Dinar (Karakuyu Lake), 38°04'587"K 30°16'505"D, 1020 m, 30.04.2009
- BE221: AFYON: Emirdağ (Pınarbaşı Pond), 39°02'877"K 31°19'605"D, 899 m, 19.05.2009
- BE222: AFYON: Sultandağı (Yakasenek Village Fountain), 38°32'370"K 31°09'695"D, 1542 m, 19.05.2009
- BE223: AFYON: Sultandağı (Gölköy-Akşehir Lake), 38°29'200"K 31°20'746"D, 953 m, 19.05.2009
- BE224: AFYON: Çay (Eber Lake-2nd station), 38°36'828"K 31°08'467"D, 968 m, 19.05.2009
- BE225: AFYON: Çay (Eber Lake-1st station), 38°36'875"K 31°09'611"D, 973 m, 19.05.2009
- BE226: AFYON: Çay (Karamık marshy place-1st station), 38°25'271"K 30°53'090"D, 1014 m, 20.05.2009
- BE227: AFYON: Çay (Karamık marshy place-2nd station), 38°26'956"K 30°50'248"D, 1009 m, 20.05.2009
- BE228: AFYON: İhsaniye (Döğer Village, Emre Pond 2nd station), 39°06'607"K 30°26'403"D, 1154 m, 20.05.2009
- BE229: KÜTAHYA: Simav (between Söğüt Village-Gökçeler Village 4th km, roadside stream), 39°06'322"K 29°03'129"D, 898 m, 21.05.2009
- BE230: KÜTAHYA: Simav (Gökçeler Village-irrigation Pond), 39°06'124"K 29°02'179"D, 834 m, 21.05.2009
- BE231: KÜTAHYA: Simav (Örenli Village-Örenli Pond), 39°11'741"K 28°53'382"D, 819 m, 21.05.2009
- BE232: DENİZLİ: Çivril (Gökgöl Village-Işıklı Lake 2nd station), 38°12'375"K 30°02'332"D, 1118 m, 21.05.2009
- BE233: DENİZLİ: Çivril (Gökgöl Village-Işıklı Lake 3rd station), 38°11'656"K 30°03'523"D, 830 m, 21.05.2009
- BE234: DENİZLİ: Honaz (Kızılyer Town, roadside stream), 37°45'842"K 29°22'108"D, 804 m, 22.05.2009
- BE235: AFYON: Dinar (Karakuyu Lake-1st station), 38°04'587"K 30°16'505"D, 1020 m, 22.05.2009
- BE236: AFYON: Dinar (Gökçeler Village-Karakuyu Lake-2nd station), 38°03'999"K 30°14'776"D, 1004 m, 22.05.2009
- BE237: AFYON: Emirdağ (Pınarbaşı Pond), 39°02'877"K 31°19'605"D, 899 m, 17.06.2009
- BE238: AFYON: Emirdağ (Kemer kaya Town, Pancarlı Stream), 38°51'874"K 31°10'088"D, 1435 m, 17.06.2009
- BE239: AFYON: Emirdağ (Kemer kaya Town-Yapracıklı district, roadside stream), 38°54'040"K 31°07'468"D, 1236 m, 17.06.2009
- BE240: AFYON: Çay (Pazarağaç Town-Devrendöğü farm district, roadside puddle), 38°36'867"K 30°51'268"D, 996 m, 17.06.2009
- BE241: AFYON: Çay (Eber Lake-1st station), 38°36'875"K 31°09'611"D, 973 m, 17.06.2009
- BE242: AFYON: Çay (Karamık marshy place-1st station), 38°25'271"K 30°53'090"D, 1014 m, 18.06.2009
- BE243: AFYON: Çay (Karamık marshy place-2nd station), 38°26'956"K 30°50'248"D, 1009 m, 18.06.2009
- BE244: AFYON: İhsaniye (Döğer Village, Emre Pond), 39°06'607"K 30°26'403"D, 1154 m, 18.06.2009
- BE245: AFYON: İhsaniye (Döğer Village, Emre Pond, 2nd station), 39°06'607"K 30°26'403"D, 1154 m, 18.06.2009
- BE246: KÜTAHYA: Türkmen Mt. (Söğüt Plateau-stream), 39°23'713"K 30°19'218"D, 1373 m, 18.06.2009
- BE247: KÜTAHYA: Tavşanlı (entry Derehi Village-roadside pond), 39°29'283"K 29°14'820"D, 603 m, 19.06.2009
- BE248: KÜTAHYA: Tavşanlı (Ormanlı Village-Emet Stream), 39°29'234"K 29°11'633"D, 498 m, 19.06.2009
- BE249: UŞAK: Ulubey (stream in Ulubey canyons), 38°24'306"K 29°18'487"D, 563 m, 20.06.2009
- BE250: DENİZLİ: Çivril (Gökgöl Village-Işıklı Lake 2nd station), 38°12'375"K 30°02'332"D, 1118 m, 20.06.2009

- BE251: AFYON: Dinar (Karakuyu Lake-1st station), 38°04'587"K 30°16'505"D, 1020 m, 20.06.2009
 BE252: DENİZLİ: Çardak (Acıgöl-1st station), 37°47'759"K 29°53'378"D, 849 m, 20.06.2009
 BE253: DENİZLİ: Bozkurt (Çambaşı Village-Karagöl), 37°44'084"K 29°29'530"D, 1266 m, 21.06.2009
 BE254: DENİZLİ: Honaz (Yukarıdağdere village-Saklı Lake), 37°46'621"K 29°21'901"D, 959 m, 21.06.2009
 BE255: DENİZLİ: Tavas (Kızılcaölük Town-Çakıroluk district), 37°41'412"K 29°02'884"D, 1664 m, 21.06.2009
 BE256: DENİZLİ: Çameli (Kınıkyeri village 8th km, roadside fountain), 37°13'640"K 29°26'770"D, 1303 m, 22.06.2009
 BE257: KÜTAHYA: Center (near organized industry area-swampland), 39°23'255"K 30°06'607"D, 939 m, 17.07.2009
 BE258: KÜTAHYA: Türkmen Mt. Road (near Ürünlü farm-irrigation ditch), 39°20'737"K 30°11'633"D, 1044 m, 17.07.2009
 BE259: KÜTAHYA: Hisarcık (Dereli Village-Stream), 39°09'208"K 29°17'130"D, 835 m, 18.07.2009
 BE260: DENİZLİ: Çardak (Acıgöl-2nd station), 37°49'054"K 29°55'619"D, 826 m, 19.07.2009
 BE261: AFYON: Dinar (Karakuyu Lake-1st station), 38°04'587"K 30°16'505"D, 1020 m, 20.07.2009

RESULTS

Helophoridae Leach, 1815

Helophorus (Empleurus) nubilus Fabricius, 1777

Material examined: BE1: 4 ex.; BE2: 1 ex.; BE5: 18 ex.; BE6: 5 ex.; BE11: 3 ex.; BE12: 1 ex.; BE17: 2 ex.; BE21: 1 ex.; BE23: 2 ex.; BE32: 5 ex.; BE37: 1 ex.; BE58: 3 ex.; BE13: 4 ex.; BE133: 9 ex.; BE141: 8 ex.; BE142: 2 ex.; BE143: 8 ex.; BE144: 5 ex.; BE146: 34 ex.; BE150: 5 ex.; BE203: 3 ex.; BE206: 5 ex.; BE216: 7 ex.; BE220: 4 ex.; BE224: 1 ex.; BE225: 9 ex.; BE228: 1 ex.; BE235: 1 ex.; BE241: 2 ex.

Helophorus (Eutrichelophorus) micans Faldermann, 1835

Material examined: BE2: 1 ex.; BE5: 1 ex.; BE8: 11 ex.; BE14: 2 ex.; BE18: 4 ex.; BE22: 3 ex.; BE38: 2 ex.; BE127: 2 ex.; BE135: 2 ex.; BE137: 11 ex.; BE142: 10 ex.; BE208: 21 ex.; BE216: 2 ex.; BE219: 1 ex.; BE221: 2 ex.; BE224: 32 ex.; BE228: 1 ex.; BE237: 1 ex.; BE245: 2 ex.

Helophorus (Helophorus) aquaticus (Linnaeus, 1758)

Material examined: BE1: 1 ex.; BE5: 1 ex.; BE13: 1 ex.; BE23: 1 ex.; BE27: 3 ex.; BE28: 20 ex.; BE32: 6 ex.; BE33: 52 ex.; BE65: 1 ex.; BE66: 2 ex.; BE96: 1 ex.; BE158: 8 ex.; BE164: 2 ex.; BE166: 1 ex.; BE229: 13 ex.; BE230: 2 ex.; BE235: 3 ex.; BE239: 7 ex.; BE246: 158 ex.; BE258: 4 ex.

Helophorus (Helophorus) liguricus Angus, 1970

Material examined: BE206: 1 ex.

Helophorus (Helophorus) syriacus Kuwert, 1885

Material examined: BE2: 21 ex.; BE8: 1 ex.; BE29: 1 ex.; BE32: 11 ex.; BE35: 1 ex.; BE37: 1 ex.; BE45: 1 ex.; BE160: 8 ex.; BE219: 5 ex.; BE224: 1 ex.; BE228: 1 ex.; BE230: 2 ex.; BE237: 2 ex.; BE246: 3 ex.; BE254: 3 ex.; BE255: 1 ex.

Helophorus (Rhopalohelophorus) abeillei Guillebeau, 1896

Material examined: BE40: 12 ex.; BE96: 3 ex.

Helophorus (Rhopalohelophorus) brevipalpis Bedel, 1881

Material examined: BE1: 3 ex.; BE3: 1 ex.; BE4: 9 ex.; BE9: 2 ex.; BE11: 1 ex.; BE13: 9 ex.; BE22: 13 ex.; BE23: 4 ex.; BE25: 1 ex.; BE27: 3 ex.; BE34: 2 ex.; BE38: 5 ex.; BE39: 4 ex.; BE41: 12 ex.; BE43: 2 ex.; BE46: 4 ex.; BE54: 7 ex.; BE64: 10 ex.; BE70: 7 ex.; BE142: 5 ex.; BE143: 1 ex.; BE146: 1 ex.; BE155: 2 ex.; BE158: 8 ex.; BE160: 15 ex.; BE161: 6 ex.; BE162: 6 ex.; BE164: 2 ex.; BE165: 2 ex.; BE203: 1 ex.; BE205: 2 ex.; BE214: 8 ex.; BE224: 1 ex.; BE230: 7 ex.; BE234: 2 ex.; BE235: 16 ex.; BE239: 7 ex.; BE240: 2 ex.; BE241: 2 ex.; BE245: 2 ex.; BE246: 1 ex.; BE247: 5 ex.

Helophorus (Rhopalohelophorus) daedalus d'Orchymont, 1932

Material examined: BE58: 3 ex.; BE65: 2 ex.; BE70: 1 ex.; BE71: 24 ex.; BE83: 2 ex.; BE99: 2 ex.; BE120: 4 ex.; BE171: 4 ex.; BE172: 1 ex.; BE173: 6 ex.; BE174: 1 ex.; BE195: 1 ex.; BE253: 5 ex.; BE255: 2 ex.; BE258: 16 ex.; BE261: 2 ex.

Helophorus (Rhopalohelophorus) discrepans Rey, 1885

Material examined: BE5: 12 ex.; BE32: 11 ex.; BE43: 1 ex.; BE44: 3 ex.; BE46: 9 ex.; BE47: 14 ex.; BE50: 2 ex.; BE55: 3 ex.; BE65: 1 ex.; BE66: 3 ex.; BE68: 10 ex.; BE86: 21 ex.; BE96: 6 ex.; BE165: 7 ex.; BE246: 10 ex.

***Helophorus (Rhopalohelophorus) flavipes* Fabricius, 1792**

Material examined: BE240: 8 ex.

***Helophorus (Rhopalohelophorus) griseus* Herbst, 1793**

Material examined: BE2: 1 ex.; BE25: 2 ex.; BE26: 3 ex.; BE59: 1 ex.; BE158: 1 ex.; BE239: 24 ex.; BE246: 5 ex.

***Helophorus (Rhopalohelophorus) helenae* Angus, 1998**

Material examined: BE145: 6 ex.; BE205: 4 ex.

***Helophorus (Rhopalohelophorus) illustris* Sharp, 1916**

Material examined: BE38: 5 ex.; BE70: 5 ex.; BE162: 27 ex.

***Helophorus (Rhopalohelophorus) lapponicus* Thomson, 1853**

Material examined: BE229: 10 ex.; BE235: 12 ex.; BE239: 4 ex.

***Helophorus (Rhopalohelophorus) lewisi* Angus, 1985**

Material examined: BE33: 5 ex.; BE130: 8 ex.

***Helophorus (Rhopalohelophorus) longitarsis* Wollaston, 1864**

Material examined: BE8: 2 ex.; BE47: 2 ex.; BE58: 5 ex.; BE82: 1 ex.; BE131: 1 ex.; BE135: 2 ex.; BE214: 13 ex.

***Helophorus (Rhopalohelophorus) montenegrinus* Kuwert, 1885**

Material examined: BE166: 2 ex.

***Helophorus (Rhopalohelophorus) nanus* Sturm, 1836**

Material examined: BE245: 8 ex.

***Helophorus (Rhopalohelophorus) obscurus* Mulsant, 1844**

Material examined: BE2: 3 ex.; BE8: 4 ex.; BE12: 1 ex.; BE16: 2 ex.; BE22: 8 ex.; BE26: 2 ex.; BE27: 43 ex.; BE28: 1 ex.; BE32: 11 ex.; BE33: 13 ex.; BE35: 7 ex.; BE37: 1 ex.; BE38: 11 ex.; BE47: 1 ex.; BE48: 2 ex.; BE52: 3 ex.; BE56: 9 ex.; BE58: 4 ex.; BE65: 3 ex.; BE66: 2 ex.; BE77: 7 ex.; BE79: 10 ex.; BE87: 16 ex.; BE117: 9 ex.; BE129: 1 ex.; BE138: 8 ex.; BE142: 10 ex.; BE143: 14 ex.; BE153: 3 ex.; BE156: 5 ex.; BE158: 20 ex.; BE160: 26 ex.; BE163: 6 ex.; BE165: 4 ex.; BE166: 6 ex.; BE169: 4 ex.; BE170: 1 ex.; BE172: 1 ex.; BE178: 12 ex.; BE230: 5 ex.; BE246: 27 ex.; BE250: 2 ex.; BE255: 7 ex.; BE258: 1 ex.

***Helophorus (Rhopalohelophorus) pallidipennis* Mulsant & Wachanru, 1852**

Material examined: BE3: 1 ex.

***Helophorus (Rhopalohelophorus) subcarinatus* Angus, 1985**

Material examined: BE136: 1 ex.; BE246: 6 ex.

Hydrochidae Thomson, 1859***Hydrochus elongatus* (Schaller, 1783)**

Material examined: BE47: 5 ex.; BE77: 6 ex.; BE79-3 ex.; BE127: 7 ex.; BE143: 19 ex.; BE163: 5 ex.; BE164: 7 ex.; BE199: 1 ex.; BE212: 3 ex.; BE220: 1 ex.; BE228: 10 ex.; BE236: 9 ex.; BE241: 2 ex.; BE245: 21 ex.

Remarks: This species has been published as a new record for the fauna of Turkey (Darilmaz & Kiyak, 2008).***Hydrochus flavipennis* Kuster, 1852**

Material examined: BE8: 20 ex.; BE27: 25 ex.; BE77: 2 ex.; BE87: 14 ex.; BE117: 6 ex.; BE151: 4 ex.; BE159: 6 ex.; BE162: 1 ex.; BE171: 1 ex.; BE183: 12 ex.; BE214: 2 ex.; BE240: 1 ex.; BE246: 1 ex.; BE261: 1 ex.

***Hydrochus ignicollis* Motschulsky, 1860**

Material examined: BE157: 17 ex.; BE241: 1 ex.

Hydrophilidae Latreille, 1802***Anacaena limbata* (Fabricius, 1792)**

Material examined: BE27: 18 ex.; BE79: 1 ex.; BE84: 3 ex.; BE87: 11 ex.; BE124: 3 ex.; BE127: 15 ex.; BE133: 13 ex.; BE151: 21 ex.; BE157: 17 ex.; BE163: 1 ex.; BE164: 1 ex.; BE167: 8 ex.; BE173: 2 ex.; BE178: 1 ex.; BE192: 4 ex.; BE205: 9 ex.; BE206: 12 ex.; BE208: 1 ex.; BE212: 1 ex.; BE260: 1 ex.

***Anacaena lutescens* (Stephens, 1829)**

Material examined: BE4: 1 ex.; BE8: 7 ex.; BE18: 4 ex.; BE32: 26 ex.; BE54: 1 ex.; BE65: 7 ex.; BE68: 1 ex.

***Paracymus aeneus* (Germar, 1824)**

Material examined: BE18: 1 ex.; BE22: 4 ex.; BE80: 1 ex.; BE127: 2 ex.; BE157: 6 ex.; BE160: 1 ex.; BE162: 14 ex.; BE169: 3 ex.; BE208: 11 ex.; BE224: 1 ex.; BE240: 8 ex.; BE251: 1 ex.

***Paracymus relaxus* Rey, 1884**

Material examined: BE70: 1 ex.

Remarks: This species has been published as an exact locality for the fauna of Turkey (Darilmaz & Kıyak, 2009a).

***Berosus (Berosus) affinis* Brullé, 1835**

Material examined: BE34: 9 ex.; BE80: 6 ex.; BE105: 5 ex.; BE131: 9 ex.; BE137: 7 ex.; BE138: 2 ex.; BE162: 7 ex.; BE198: 1 ex.; BE199: 1 ex.; BE208: 14 ex.; BE211: 5 ex.; BE232: 1 ex.; BE240: 4 ex.; BE250: 1 ex.; BE260: 2 ex.

***Berosus (Berosus) luridus* (Linnaeus, 1760)**

Material examined: BE6: 1 ex.; BE7: 40 ex.; BE77: 6 ex.; BE79: 8 ex.; BE164: 1 ex.; BE169: 28 ex.

***Berosus (Berosus) signaticollis* (Charpentier, 1825)**

Material examined: BE2: 2 ex.; BE7: 1 ex.; BE8: 2 ex.; BE32: 1 ex.; BE-137: 4 ex.; BE138: 1 ex.; BE211: 5 ex.; BE228: 2 ex.

***Berosus (Enoplurus) frontifoveatus* Kuwert, 1888**

Material examined: BE2: 1 ex.; BE31: 5 ex.; BE34: 2 ex.; BE46: 1 ex.; BE47: 4 ex.; BE163: 1 ex.; BE214: 1 ex.; BE246: 1 ex.

***Berosus (Enoplurus) jaechi* Schödl, 1991**

Material examined: BE240: 2 ex.

***Berosus (Enoplurus) spinosus* (Steven, 1808)**

Material examined: BE27: 1 ex.; BE216: 3 ex.; BE223: 5 ex.; BE224: 15 ex.; BE240: 1 ex.

***Chaetarthria seminulum* (Herbst, 1797)**

Material examined: BE63: 1 ex.; BE70: 1 ex.

***Chasmogenus livornicus* (Kuwert, 1890)**

Material examined: BE131: 5 ex.; BE138: 10 ex.; BE199: 12 ex.; BE211: 3 ex.; BE212: 23 ex.; BE232: 1 ex.; BE250: 3 ex.; BE254: 3 ex.

Remarks: This species has been published as an exact locality for the fauna of Turkey (Darilmaz & Kıyak, 2009a).

***Cymbiodyta marginella* (Fabricius, 1792)**

Material examined: BE2: 1 ex.; BE8: 2 ex.; BE127: 70 ex.; BE131: 8 ex.; BE140: 1 ex.; BE153: 8 ex.; BE157: 31 ex.; BE159: 47 ex.; BE164: 3 ex.; BE186: 1 ex.; BE199: 17 ex.; BE208: 1 ex.; BE212: 6 ex.; BE213: 8 ex.; BE214: 13 ex.; BE219: 1 ex.; BE220: 18 ex.; BE224: 1 ex.; BE232: 2 ex.; BE235: 4 ex.; BE241: 13 ex.; BE245: 1 ex.; BE250: 6 ex.; BE251: 19 ex.; BE261: 6 ex.

***Enochrus (Enochrus) melanocephalus* (Olivier, 1792)**

Material examined: BE7: 9 ex.; BE27: 1 ex.; BE34: 1 ex.; BE78: 1 ex.; BE124: 13 ex.; BE211: 1 ex.; BE219: 4 ex.

***Enochrus (Lumetus) ater* (Kuwert, 1888)**

Material examined: BE169: 8 ex.

***Enochrus (Lumetus) bicolor* (Fabricius, 1792)**

Material examined: BE18: 9 ex.; BE27: 2 ex.; BE50: 1 ex.; BE70: 1 ex.; BE77: 3 ex.; BE82: 9 ex.; BE143: 3 ex.; BE159: 5 ex.; BE195: 5 ex.; BE220: 3 ex.; BE223: 1 ex.; BE224: 6 ex.; BE235: 1 ex.; BE240: 1 ex.; BE241: 2 ex.; BE254: 4 ex.; BE261: 1 ex.

***Enochrus (Lumetus) fuscipennis* (Thomson, 1884)**

Material examined: BE5: 7 ex.; BE9: 1 ex.; BE18: 17 ex.; BE26: 1 ex.; BE34: 53 ex.; BE37: 1 ex.; BE40: 3 ex.; BE55: 16 ex.; BE59: 7 ex.; BE60: 10 ex.; BE67: 2 ex.; BE70: 11 ex.; BE72: 2 ex.; BE83: 5 ex.; BE136: 27 ex.; BE149: 2 ex.; BE198: 1 ex.; BE229: 2 ex.; BE230: 3 ex.; BE237: 2 ex.

***Enochrus (Lumetus) halophilus* (Bedel, 1878)**

Material examined: BE240: 57 ex.

Remarks: This species has been published as a new record for the fauna of Turkey (Darilmaz & Kıyak, 2009b).

***Enochrus (Lumetus) politus* (Küster, 1849)**

Material examined: BE196: 8 ex.

Remarks: This species has been published as a new record for the fauna of Turkey (Darilmaz & Kıyak, 2009b).

***Enochrus (Lumetus) quadripunctatus* (Herbst, 1797)**

Material examined: BE34: 7 ex.; BE137: 6 ex.

Enochrus (Lumetus) testaceus (Fabricius, 1801)

Material examined: BE17: 1 ex.; BE78: 5 ex.; BE80: 2 ex.; BE88: 6 ex.; BE186: 1 ex.; BE208: 2 ex.; BE214: 7 ex.; BE220: 1 ex.; BE236: 4 ex.; BE259: 1 ex.; BE260: 2 ex.

Enochrus (Methydrus) coarctatus (Gredler, 1863)

Material examined: BE37: 1 ex.; BE127: 6 ex.; BE153: 2 ex.; BE157: 2 ex.; BE212: 2 ex.; BE220: 7 ex.; BE232: 1 ex.; BE235: 2 ex.; BE236: 7 ex.; BE261: 3 ex.

Enochrus (Methydrus) nigrinus (Sharp, 1872)

Material examined: BE8: 8 ex.; BE77: 1 ex.; BE79: 2 ex.; BE131: 2 ex.; BE136: 1 ex.; BE186: 4 ex.; BE199: 2 ex.; BE214: 13 ex.; BE250: 3 ex.

Helochares (Helochares) lividus (Forster, 1771)

Material examined: BE2: 7 ex.; BE3: 1 ex.; BE8: 5 ex.; BE31: 23 ex.; BE32: 3 ex.; BE33: 6 ex.; BE42: 1 ex.; BE43: 16 ex.; BE61: 6 ex.; BE68: 1 ex.; BE69: 7 ex.; BE76: 2 ex.; BE85: 1 ex.; BE88: 2 ex.; BE89: 2 ex.; BE94: 7 ex.; BE103: 2 ex.; BE106: 3 ex.; BE110: 1 ex.; BE111: 1 ex.; BE112: 10 ex.; BE113: 5 ex.; BE116: 8 ex.; BE120: 7 ex.; BE135: 9 ex.; BE149: 1 ex.; BE152: 5 ex.; BE165: 5 ex.; BE167: 5 ex.; BE182: 1 ex.; BE193: 4 ex.; BE196: 3 ex.; BE198: 4 ex.; BE209: 10 ex.; BE214: 14 ex.; BE230: 4 ex.; BE231: 9 ex.; BE237: 4 ex.; BE247: 12 ex.

Helochares obscurus (O. F. Müller, 1776)

Material examined: BE27: 34 ex.; BE77: 7 ex.; BE79: 10 ex.; BE87: 16 ex.; BE117: 9 ex.; BE138: 8 ex.; BE142: 10 ex.; BE143: 4 ex.; BE153: 3 ex.; BE156: 5 ex.; BE163: 6 ex.; BE169: 4 ex.; BE170: 1 ex.; BE172: 1 ex.; BE178: 12 ex.

Helochares punctatus Sharp, 1869

Material examined: BE46: 3 ex.; BE47: 19 ex.; BE80: 3 ex.; BE107: 6 ex.; BE108: 3 ex.; BE127: 8 ex.; BE131: 5 ex.; BE151: 9 ex.; BE157: 7 ex.; BE159: 8 ex.; BE164: 9 ex.; BE205: 1 ex.; BE208: 10 ex.; BE212: 21 ex.; BE213: 1 ex.; BE224: 2 ex.; BE228: 33 ex.; BE232: 5 ex.; BE235: 32 ex.; BE241: 5 ex.; BE244: 21 ex.; BE245: 11 ex.; BE251: 13 ex.; BE258: 1 ex.; BE261: 4 ex.

Hydrobius fuscipes (Linnaeus, 1758)

Material examined: BE2: 1 ex.; BE3: 1 ex.; BE4: 2 ex.; BE8: 2 ex.; BE33: 6 ex.; BE43: 1 ex.; BE87: 6 ex.; BE125: 1 ex.; BE127: 16 ex.; BE130: 2 ex.; BE146: 1 ex.; BE149: 1 ex.; BE151: 9 ex.; BE152: 3 ex.; BE157: 10 ex.; BE161: 1 ex.; BE162: 1 ex.; BE163: 2 ex.; BE164: 1 ex.; BE206: 2 ex.; BE208: 3 ex.; BE224: 6 ex.; BE225: 5 ex.; BE229: 2 ex.; BE240: 2 ex.; BE241: 4 ex.; BE245: 5 ex.; BE246: 6 ex.; BE247: 2 ex.; BE250: 1 ex.; BE255: 31 ex.; BE258: 3 ex.

Linnoxenus niger (Gmelin, 1790)

Material examined: BE70: 6 ex.; BE77: 1 ex.; BE79: 6 ex.; BE107: 6 ex.; BE108: 1 ex.; BE131: 3 ex.; BE136: 2 ex.; BE140: 2 ex.; BE141: 1 ex.; BE146: 1 ex.; BE153: 1 ex.; BE156: 3 ex.; BE157: 6 ex.; BE159: 1 ex.; BE162: 1 ex.; BE163: 1 ex.; BE164: 2 ex.; BE167: 1 ex.; BE169: 2 ex.; BE170: 3 ex.; BE186: 2 ex.; BE194: 1 ex.; BE197: 3 ex.; BE199: 6 ex.; BE212: 4 ex.; BE216: 2 ex.; BE219: 4 ex.; BE220: 20 ex.; BE221: 1 ex.; BE224: 8 ex.; BE226: 1 ex.; BE228: 5 ex.; BE235: 36 ex.; BE236: 6 ex.; BE237: 1 ex.; BE241: 2 ex.; BE245: 3 ex.; BE251: 7 ex.; BE253: 2 ex.; BE254: 1 ex.; BE260: 9 ex.; BE261: 4 ex.

Hydrochara caraboides (Linnaeus, 1758)

Material examined: BE79: 1 ex.; BE127: 6 ex.; BE157: 15 ex.; BE159: 4 ex.; BE220: 8 ex.; BE235: 8 ex.; BE236: 2 ex.

Hydrochara dichroma (Fairmaire, 1892)

Material examined: BE58: 6 ex.; BE232: 1 ex.; BE240: 1 ex.; BE241: 1 ex.; BE245: 1 ex.; BE247: 1 ex.; BE251: 2 ex.

Hydrochara flavipes (Steven, 1808)

Material examined: BE87: 3 ex.; BE197: 2 ex.; BE219: 1 ex.; BE224: 2 ex.

Brownephilus major (Incekara, Mart, Polat & Karaca, 2009)

Material examined: BE235: 5 ex.; BE251: 2 ex.

Remarks: This species has been published as a new combination and first female description (Darilmaz et al., 2010).

Hydrophilus (Hydrophilus) piceus (Linnaeus, 1758)

Material examined: BE80: 1 ex.; BE105: 2 ex.; BE156: 1 ex.; BE157: 1 ex.; BE212: 2 ex.; BE220: 5 ex.; BE226: 1 ex.; BE227: 2 ex.; BE235: 5 ex.; BE242: 2 ex.; BE243: 29 ex.; BE247: 1 ex.; BE251: 9 ex.; BE261: 5 ex.

Laccobius (Dimorpholaccobius) bipunctatus (Fabricius, 1775)

Material examined: BE58: 11 ex.; BE81: 9 ex.; BE89: 22 ex.

Laccobius (Dimorpholaccobius) obscuratus aegaeus Gentili, 1974

Material examined: BE19: 2 ex.; BE29: 4 ex.; BE35: 3 ex.; BE42: 5 ex.; BE52: 21 ex.; BE57: 7 ex.; BE58: 3 ex.; BE59: 2 ex.; BE64: 4 ex.; BE66: 1 ex.; BE69: 18 ex.; BE74: 6 ex.; BE93: 5 ex.; BE96: 12 ex.; BE99: 8 ex.; BE100: 7 ex.; BE101: 3 ex.; BE102: 6 ex.; BE108: 2 ex.; BE129: 2 ex.; BE173: 11 ex.; BE235: 5 ex.; BE247: 6 ex.; BE256: 15 ex.; BE258: 3 ex.

Laccobius (Dimorpholaccobius) scutellaris Motschulsky, 1855

Material examined: BE256: 6 ex.

Laccobius (Dimorpholaccobius) simulatrix d'Orchymont, 1932

Material examined: BE1: 9 ex.; BE26: 6 ex.; BE38: 10 ex.; BE40: 10 ex.; BE58: 19 ex.; BE59: 12 ex.; BE60: 20 ex.; BE61: 4 ex.; BE63: 21 ex.; BE67: 2 ex.; BE70: 1 ex.; BE110: 3 ex.; BE118: 17 ex.; BE158: 5 ex.; BE182: 6 ex.; BE183: 10 ex.; BE195: 13 ex.; BE248: 4 ex.; BE254: 6 ex.

Laccobius (Dimorpholaccobius) striatulus (Fabricius, 1801)

Material examined: BE3: 3 ex.; BE4: 5 ex.; BE6: 3 ex.; BE12: 5 ex.; BE55: 5 ex.; BE70: 4 ex.; BE75: 25 ex.; BE83: 24 ex.; BE84: 4 ex.; BE108: 6 ex.; BE123: 4 ex.; BE132: 9 ex.; BE133: 4 ex.; BE136: 11 ex.; BE259: 7 ex.

Laccobius (Dimorpholaccobius) sulcatulus Reitter, 1909

Material examined: BE11: 3 ex.; BE32: 9 ex.; BE43: 10 ex.; BE50: 7 ex.; BE198: 7 ex.

Laccobius (Dimorpholaccobius) syriacus Guillebeau, 1896

Material examined: BE17: 3 ex.; BE18: 10 ex.; BE25: 8 ex.; BE30: 4 ex.; BE32: 6 ex.; BE33: 13 ex.; BE47: 1 ex.; BE65: 1 ex.; BE68: 8 ex.; BE77: 1 ex.; BE86: 23 ex.; BE99: 10 ex.; BE104: 7 ex.; BE107: 26 ex.; BE120: 8 ex.; BE124: 3 ex.; BE139: 3 ex.; BE142: 9 ex.; BE154: 2 ex.; BE165: 3 ex.; BE167: 6 ex.; BE183: 6 ex.; BE184: 11 ex.; BE192: 1 ex.; BE196: 25 ex.; BE201: 1 ex.; BE221: 11 ex.; BE234: 1 ex.; BE260: 3 ex.

Laccobius (Microlaccobius) gracilis Motschulsky, 1855

Material examined: BE11: 2 ex.; BE12: 2 ex.; BE13: 16 ex.; BE14: 20 ex.; BE38: 7 ex.; BE40: 10 ex.; BE42: 5 ex.; BE50: 20 ex.; BE55: 1 ex.; BE58: 4 ex.; BE60: 3 ex.; BE61: 10 ex.; BE67: 3 ex.; BE70: 2 ex.; BE73: 1 ex.; BE74: 1 ex.; BE83: 2 ex.; BE89: 4 ex.; BE91: 1 ex.; BE101: 3 ex.; BE110: 9 ex.; BE114: 5 ex.; BE115: 4 ex.; BE124: 1 ex.; BE154: 3 ex.; BE167: 1 ex.; BE182: 6 ex.; BE183: 1 ex.; BE195: 3 ex.; BE196: 6 ex.; BE235: 1 ex.; BE237: 1 ex.; BE248: 1 ex.; BE254: 1 ex.; BE256: 6 ex.

Coelostoma (Coelostoma) orbiculare (Fabricius, 1775)

Material examined: BE4: 1 ex.; BE8: 1 ex.; BE27: 6 ex.; BE88: 1 ex.; BE106: 3 ex.; BE127: 1 ex.; BE136: 1 ex.; BE138: 1 ex.; BE150: 1 ex.; BE154: 1 ex.; BE155: 2 ex.; BE157: 1 ex.; BE-159: 1 ex.; BE167: 1 ex.; BE212: 2 ex.; BE220: 4 ex.; BE241: 1 ex.; BE254: 2 ex.; BE255: 4 ex.; BE261: 2 ex.

Cercyon (Cercyon) circumcinctus Reitter, 1889

Material examined: BE7: 3 ex.; BE34: 25 ex.; BE105: 10 ex.; BE127: 30 ex.; BE138: 1 ex.; BE157: 10 ex.; BE159: 1 ex.; BE169: 1 ex.; BE211: 1 ex.; BE235: 6 ex.; BE236: 1 ex.; BE245: 1 ex.; BE261: 9 ex.

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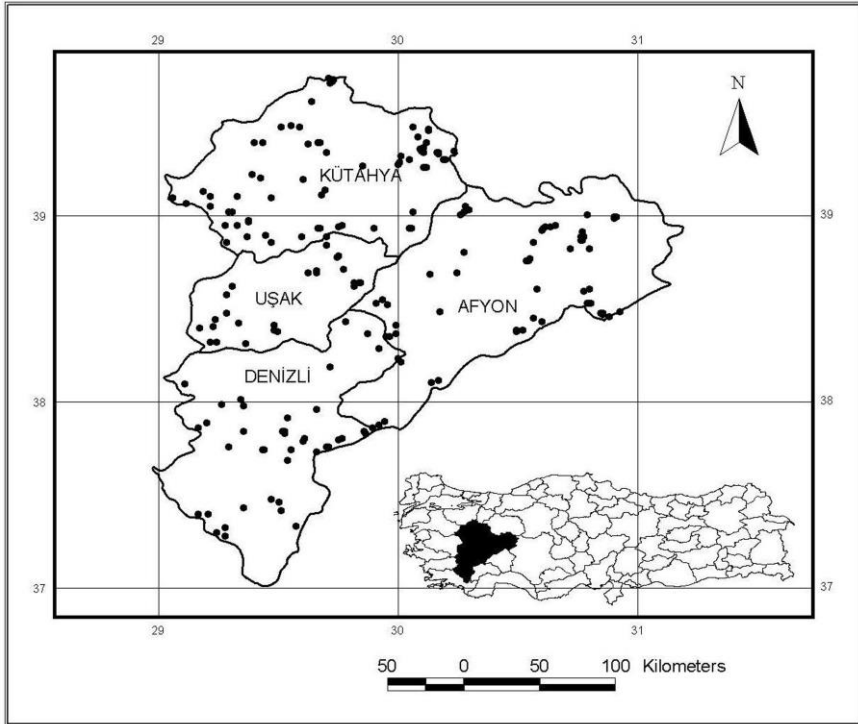


Figure 1. Map of study area showing sample localities (black dot).