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Checklist of Gyrinidae, Haliplidae, Noteridae and Dytiscidae of Turkey (Coleoptera: Adepnaga)

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An updated species list of four beetle families is given for Turkey. A total of 35 genera and 167 species and subspecies are known to occur in Turkey. Ten species and two subspecies are from the family Gyrinidae, 16 species are from the family Haliplidae, three species are from the family Noteridae and 129 species and seven subspecies are from the family Dytiscidae.

Keywords: Coleoptera; Adepnaga; water beetles; checklist; Turkey

Introduction

Guéorguiev (1981) summarized all the available information about adepnagous water beetles and their distribution in Turkey. The author listed 134 species and subspecies (13 Gyrinidae, 10 Haliplidae, 111 Dytiscidae) that are known from the area of Turkey.

Since then, this group has undergone major revision, and is subject to change even today. As a result the mentioned work, although up-to-date in the 1970s, is now almost useless except for some of the treated taxa.

The main types of changes are the following (see also Appendix 1).

Changes in taxonomic status

- (1) The subfamily Noterinae was separated from the family Dytiscidae and was subsequently placed in the family Noteridae.
- (2) Some infraspecific categories were raised to specific level (e.g. *Hydroporus discretus ponticus* Zaitzev, 1927, *Hydroporus discretus* Fairmaire and Brisout, 1859).
- (3) Some specific categories were reduced to infraspecific level [*Cybister lateralmarginalis* (De Geer, 1774), *Cybister lateralimarginalis torquatus* (Fischer von Waldheim, 1829)].
- (4) Some species were transferred to other genera (e.g. *Copelatus haemorrhoidalis* (Fabricius, 1787), *Liopterus haemorrhoidalis* (Fabricius, 1787)].

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Synonymies

- (1) Some of the species treated in 1981 as distinct species were synonymized [e.g. *Graptodytes concinnus* (Stephens, 1835), *Graptodytes flavipes* (Olivier, 1795)].

Species not mentioned by Guéorguiev (1981)

- (1) Species described since 1981 (e.g. *Deronectes evelynae* Fery and Hosseinie, 1998).
- (2) Species found since 1981 (e.g. *Haliplus kulleri* Vondel, 1988).

Species occurring outside Turkey

- (1) Species on misidentification (insects wrongly identified in taxonomy).
- (2) Species on mislabelling (insects correctly identified but wrongly located in taxonomy).

Notes on the checklist

While preparing the present work we revised the major part of the water beetles of the Coleoptera Collection of the Gazi University Zoological Museum and included all reliable literature data. This paper chiefly follows the classification and nomenclature of the aquatic beetles suggested by Holmen (1987), Vondel (1991, 1992, 2007), Nilsson (2001, 2003a, 2003b, 2004, 2007), Löbl and Smetana (2003), Vondel et al. (2006), and Nilsson and Fery (2006).

Information in the text is given in the following order: Data, i.e. the present name of the taxon; Synonyms, as far as possible including all synonyms proposed; Distribution in Turkey, given by various authors in the preceding literature; Notes, any additional information regarded as relevant.

Checklist of Adepagous water beetles recorded from Turkey

Order **COLEOPTERA**
Suborder **ADEPHAGA**
Family **GYRINIDAE**
Subfamily **GYRININAE** Latreille, 1810
Genus *Aulonogyrus* Motschulsky, 1853
Subgenus *Aulonogyrus* Motschulsky, 1853
Aulonogyrus concinnus (Klug, 1834)

Synonyms

Gyrinus concinnus Klug, 1834; *Gyrinus strigipennis* Suffrian, 1842; *Aulonogyrus concinnus* var. *opacinus* Ragusa, 1889

Distribution in Turkey

Aksaray, Aydın, Denizli, Erzurum, Eskişehir, Toros Mountains (Ienistea 1978; Franciscolo 1979; Guéorguiev 1981; Holmen 1987; Kıyak et al. 2006; Darılmaz and Kıyak 2006).

Aulonogyrus striatus (Fabricius, 1792)

Synonyms

Gyrinus striatus Fabricius, 1792; *Gyrinus festivus* Klug, 1833; *Gyrinus limbatus* Solier, 1833; *Gyrinus strigosus* Ghiliani, 1887.

Distribution in Turkey

Adana, Antalya, Muğla (Guéorguiev 1981; Holmen, 1987; Kıyak et al. 2006).

Genus ***Gyrinus*** O.F. Müller, 1764
Subgenus ***Gyrinus*** O.F. Müller, 1764
Gyrinus caspius Ménétrés, 1832

Synonyms

Gyrinus elongatus Aubé, 1838; *Gyrinus caspius* var. *angustatus* Aubé, 1838; *Gyrinus celox* Schiodte, 1841

Distribution in Turkey

Adana, Afyon, Aksaray, Antalya, Burdur, Edirne, Hatay, Toros Mountains. (Zaitsev 1972; Ienistea 1978; Franciscolo 1979; Guéorguiev 1981; Holmen, 1987; Kıyak et al. 2006; Darılmaz and Kıyak 2006).

Gyrinus colymbus Erichson, 1837

Synonyms

Gyrinus distinctus var. *strigulosus* Régimbart, 1892; *Gyrinus striolatus*, sensu auctt.; misident., nec Fowler, 1887

Distribution in Turkey

Muğla, Erzurum, Kars, İstanbul (Ienistea 1978; Franciscolo 1979; Guéorguiev, 1981; Holmen, 1987).

Gyrinus dejeani Brullé, 1832

Synonyms

Gyrinus dejeani var. *krueperii* Seidlitz, 1887

Distribution in Turkey

Adana, Antalya, Aydın, İzmir, Hatay, Muğla (Guignot 1947; Zaitsev 1972; Ienistea 1978; Guéorguiev, 1981; Kiyak et al. 2006).

***Gyrinus distinctus* Aubé, 1838**

Synonyms

Gyrinus colymbus var. *distinctus* Aubé, 1838; *Gyrinus aegyptiacus* Régimbart, 1883; *Gyrinus distinctus* var. *hungaricus* Seidlitz, 1887; *Gyrinus atlanticus* Régimbart, 1892; *Gyrinus distinctus* var. *fairmairei* Régimbart, 1883; *Gyrinus niloticus* Walth, 1838; *Gyrinus fulviventris* Reitter, 1908; *Gyrinus guernei* Méquignon, 1942

Distribution in Turkey

Adana, Aksaray, Antalya, Bursa, Denizli, Isparta, İzmir, Konya, Bolkar Mountains (Ienistea 1978; Franciscolo 1979; Guéorguiev 1981; Holmen 1987; Kiyak et al. 2006; Darılmaz and Kiyak 2006).

***Gyrinus paykulli* G. Ochs, 1927**

Synonyms

Gyrinus celox Zaitzev, 1907; *Gyrinus paykulli* var. *ochsi* Franck, 1932

Distribution in Turkey

Adana, İzmir, Toros Mountains (Franciscolo 1979; Guéorguiev 1981; Holmen 1987).

***Gyrinus substriatus* Stephens, 1828**

Synonyms

Gyrinus cercurus Schiodte, 1841; *Gyrinus natator* var. *corpulentus* Schatzmayr, 1903; *Gyrinus natator* var. *fowleri* Omer-Cooper, 1930; *Gyrinus natator* var. *oblitus* Sharp, 1914; *Gyrinus substriatus* var. *schatzmayri* Ochs, 1927; *Gyrinus siculus* Régimbart, 1882

Distribution in Turkey

Adana, Kars, Kayseri, Konya, Sakarya, Tokat, Başköy (most probably Eastern Anatolia) (Ienistea 1978; Franciscolo 1979; Guéorguiev 1981; Holmen 1987; Özemi and Önder 1988).

***Gyrinus suffriani* W. Scriba, 1855**

Distribution in Turkey

Konya, Muğla (Zaitsev 1972; Ienistea 1978; Franciscolo 1979; Guéorguiev 1981; Holmen 1987; Kiyak et al. 2006; Darılmaz and Kiyak 2006).

Gyrinus urinator Illiger, 1807

Synonyms

Gyrinus lineatus Stephens, 1829; *Gyrinus urinator* var. *naxius* J. Müller, 1924; *Gyrinus urinator* var. *variabilis* Aubé, 1836

Distribution in Turkey

Adana, Bolu, Erzurum (Franciscolo 1979; Guéorguiev 1981; Holmen 1987).

Genus ***Orectochilus*** Dejean, 1833
Subgenus ***Orectochilus*** Dejean, 1833
Orectochilus villosus involvens Faldermann, 1836

Distribution in Turkey

Erzurum (Zaitsev 1972; Guéorguiev 1981).

Orectochilus villosus villosus (O.F. Müller, 1776)

Synonyms

Gyrinus villosus O.F. Müller, 1776; *Gyrinus aquatica* Modeer, 1776; *Gyrinus modeeri* Marsham, 1802; *Orectochilus seidlitzi* Jakobson, 1908

Distribution in Turkey

Antalya, Malatya (Zaitsev 1972; Guéorguiev 1981; Holmen 1987; Kıyak et al. 2006).

Family **HALIPLIDAE**
Genus ***Haliplus*** Latreille, 1802
Subgenus ***Haliplidius*** Guignot, 1928
Haliplus confinis Stephens, 1828

Synonyms

Haliplus confinis var. *nebulosus* Stephens, 1828; *Haliplus lineatus* Aubé, 1836; *Haliplus varius* Bold, 1868; *Haliplus confinis* var. *pallens* Fowler, 1887; *Haliplis confinis* f. *hellieseni* Munster, 1922 *Haliplus confinis* var. *halberti* Bullock, 1928

Distribution in Turkey

Bolu (Balfour-Browne 1963; Franciscolo 1979; Guéorguiev 1981; Holmen 1987).

Haliplus obliquus (Fabricius, 1787)

Synonyms

Dytiscus obliquus Fabricius, 1787; *Dytiscus amoenus* Olivier, 1795; *Halipus obliquus* Gyllenhal, 1808; *Hoplitus obliquus* Clairville, 1806; *Haliplus obliquus* var. *albinus* Reitter, 1911; *Haliplus obliquus* var. *mulleri* Reitter, 1912; *Haliplus obliquus* var. *obsruellus* Guignot, 1930; *Haliplus amvenus* Zimmermann, 1924

Distribution in Turkey

Başköy (most probably Eastern Anatolia) (Zaitsev 1972; Franciscolo 1979; Guéorguiev 1981; Holmen 1987).

Subgenus: ***Haliplus*** Latreille, 1802

Haliplus fluviatilis Aubé, 1836

Synonyms

Haliplus fluviatilis var. *maculatus* Gozis, 1915; *Haliplus fluviatilis* var. *mannerheimi* Gozis, 1915

Distribution in Turkey

Bolu (Guéorguiev 1981; Holmen 1987).

Haliplus heydeni Wehncke, 1875

Synonyms

Haliplus multipunctatus Wehncke, 1875; *Haliplus foveastriatus* C.G. Thomson, 1884; *Haliplus ruficollis* var. *pedemontanus* A. Fiori, 1904; *Haliplus fulvicollis* var. *romanus* A. Fiori, 1904; *Haliplus ruficollis* var. *heydeni* Porta, 1923

Distribution in Turkey

No locality data (Guignot 1947; Zaitsev 1972; Franciscolo 1979; Holmen 1987; Nardi 2001).

Haliplus ruficollis (De Geer, 1774)

Synonyms

Dytiscus ruficollis De Geer, 1774; *Dytiscus impressus* Fabricius, 1787; *Dytiscus marginepunctatus* Panzer, 1793; *Haliplus affinis* Stephens, 1828; *Haliplus rubicundus* Babington, 1836; *Haliplus fluviatilis* ab. *seidlitzii* Csiki, 1946

Distribution in Turkey

Samsun (Guignot 1947; Zaitsev 1972; İenistea 1978; Franciscolo 1979; Guéorguiev 1981; Holmen 1987; İncekara et al. 2009).

Haliplus sibiricus Motschulsky, 1860

Synonyms

Haliplus borealis Gerhardt, 1877; *Haliplus wehnckeii* Gerhardt, 1877; *Haliplus alsaticus* E. Scriba, 1905; *Haliplus holsaticus* Reitter, 1908; *Haliplus lindbergi* Falkenström, 1939; *Haliplus sahlbergi* Falkenström, 1939

Distribution in Turkey

No locality data (Nardi 2001).

Subgenus ***Liaphlus*** Guignot, 1928

Haliplus dalmatinus J. Müller, 1900

Synonyms

Haliplus dalmatinus var. *weberi* J. Müller, 1900; *Haliplus dalmatinus* Zimmermann, 1920; *Haliplus dalmatinus* var. *weberi* Zimmermann, 1920

Distribution in Turkey

No locality data (Vondel 1991; Nardi 2001).

Haliplus flavicollis Sturm, 1834

Synonyms

Haliplus ferrugineus auctt., nec Linnaeus 1767; *Haliplus impressus* auctt., nec Fabricius 1787; *Haliplus flavicollis* var. *pallida* Semenov 1904; *Haliplus flavicollis* var. *expallida* Zaitsev 1907; *Haliplus unicolor* Fiori 1914

Distribution in Turkey

No locality data (Guignot 1947; Franciscolo 1979; Holmen 1987; Vondel 1991; Nardi 2001).

Haliplus fulvus (Fabricius, 1801)

Synonyms

Dytiscus fulvus Fabricius, 1801; *Dytiscus interpunctatus* Marsham, 1802; *Dytiscus ferrugineus* Gyllenhal, 1808; *Haliplus lapponum* C.G. Thomson, 1854; *Haliplus pyreneus* Delarouzeé, 1857; *Haliplus lapponum* var. *niger* Seidlitz, 1887; *Haliplus fulvus* var. *carlittensis* Regimbart, 1901; *Haliplus maculipennis* Regimbart, 1877; *Haliplus fulvus* var. *multistriatus* Scholz, 1915; *Haliplus pyrenaeus* Delarouzeé, 1857; *Haliplus fulvus* var. *sparreschneideri* Munster, 1922; *Haliplus fulvus* var. *unicolor* Munster, 1922; *Haliplus salinarius* Wallis, 1933; *Haliplus ferrugineus* auctt., nec Linnaeus, 1767

Distribution in Turkey

Balıkesir (Zaitsev 1972; Guéorguiev 1981; Holmen 1987; Vondel 1991).

Haliplus kulleri Vondel, 1988

Synonyms

Haliplus jaechi Vondel, 1991; *Haliplus ortalı* Vondel, 1991

Distribution in Turkey

Diyarbakır (Vondel 1991; Nardi 2001).

Haliplus maculatus Motschulsky, 1860

Synonyms

Haliplus syriacus Wehncke, 1880; *Haliplus fluviatilis* var. *maculatus* Seidlitz, 1887; *Haliplus flavicollis* var. *ruszkyi* Stange, 1903; *Haliplus zimmermanni* Gschwendtner, 1921

Distribution in Turkey

Antalya (Nardi 2001).

Haliplus mucronatus Stephens, 1828

Synonyms

Haliplus badius Aubé, 1836; *Haliplus parallelus* Babington, 1836; *Haliplus siculus* Wehncke, 1883

Distribution in Turkey

Aydın, Isparta (Guéorguiev 1981; Holmen 1987; Vondel 1991).

Haliplus variegatus Sturm, 1834

Synonyms

Haliplus subnubilus Babington, 1836; *Haliplus rubicundus* Babington, 1836; *Haliplus variegatus* var. *obsoletus* Westhoff, 1881; *Haliplus variegatus* var. *pallidior* Müller, 1900; *Haliplus pantherinus* Sahlberg, 1900?, nec Aube 1838; *Haliplus leopardinus* Sahlberg, 1990; *Haliplus transvolgensis* Semenov, 1904; *Haliplis variegatus galilea* Sahlberg, 1913

Distribution in Turkey

Adana, Bilecik, Isparta, Konya, Toros Mountains (Franciscolo 1979; Guéorguiev 1981; Holmen 1987; Vondel 1991).

Subgenus *Neohaliplus* Netolitzky, 1911

Haliplus lineatocollis (Marsham, 1802)

Synonyms

Dytiscus lineatocollis Marsham, 1802; *Haliplus bistriolatus* Duftschmid, 1805; *Haliplus trimaculatus* Drapiez, 1819; *Haliplus transversalis* Gautier, 1861; *Haliplus lineatocollis* var. *beckmanni* Ahlwarth, 1913; *Haliplus directus* des Gozis, 1914; *Haliplus lineatocollis* var. *nitidicollis* Müller, 1900; *Haliplus lineatocollis* var. *pallidus* Sahlberg, 1903; *Haliplus lineatocollis intemeratus* des Gozis, 1914; *Haliplus lineatocollis* var. *suffusus* Wollaston, 1863; *Haliplus lineatocollis* var. *pici* Régimbart, 1895

Distribution in Turkey

Afyon, Gümüşhane, İzmir (Zimmermann 1920; Bertrand 1928; Guignot 1947; Zaitsev 1972; Ienistea 1978; Franciscolo 1979; Guéorguiev 1981; Holmen 1987).

Genus *Peltodytes* Régimbart, 1879

Peltodytes caesus (Duftschmid, 1805)

Synonyms

Dytiscus caesus Duftschmid, 1805; *Cnemidotus caesus* Duftschmid 1805; *Cnemidotus impressus* Fabricius, 1787; *Dytiscus impressus* Fabricius, 1787; *Peltodytes impressus* Panzer, 1794; *Peltodytes quadrimaculatus* Drapiez, 1820; *Haliplus quadrimaculatus* Drapiez, 1820; *Haliplus rotundatus* Gistel, 1857; *Cnemidotus caesus* var. *levantinus* Sahlberg, 1903; *Peltodytes curculinus* Müller, 1776; *Peltodytes caesus levantinus* Sahlberg, 1902; *Cnemidotes delhermi* Mazeret, 1923

Distribution in Turkey

Adana, Afyon, Aksaray, Aydın, Balıkesir, Bolu, Eskişehir, Isparta, İzmir, Konya, Samsun, Toros Mountains (Guignot 1947; Guéorguiev 1968, 1981; Franciscolo 1979; Holmen 1987; Vondel 1992; Darılmaz and Kıyak 2006; İncekara et al. 2009).

Peltodytes rotundatus (Aubé, 1836)

Synonyms

Cnemidotus rotundatus Aube, 1836; *Cnemidotus conifer* Seidlitz, 1887; *Peltodytes conifer* Seidlitz, 1914; *Peltodytes rotundatus* var. *conifer* Seidlitz, 1887; *Peltodytes rotundatus conifer* Seidlitz 1887

Distribution in Turkey

No locality data (Zaitsev 1972; Guéorguiev 1981; Vondel 1992; Nardi 2001).

Family **NOTERIDAE**
Subfamily **NOTERINAE** Thomson 1860
Tribe **Noterini** Sharp, 1882
Genus *Canthydrus* Sharp, 1882
Subgenus *Canthydrus* Sharp, 1882
Canthydrus diophthalmus (Reiche and Saulcy, 1855)

Synonyms

Hydrocanthus diophthalmus Reiche and Saulcy, 1855

Distribution in Turkey

İçel, Antalya (Barclay et al. 2001; Hájek 2005).

Genus *Noterus* Clairville, 1806
Noterus clavicornis (De Geer, 1774)

Synonyms

Dytiscus clavicornis De Geer, 1774; *Dytiscus capricornis* Herbst, 1784; *Dytiscus semipunctata* Fabricius, 1792; *Dytiscus sparsus* Marsham, 1802; *Noterus crassicornis*, sensu auctt.; misident., nec (Müller, 1776); *Noterus clavicornis* var. *convexiusculus* Reiche, 1855

Distribution in Turkey

Aksaray, Ankara, Antalya, Aydın, Balıkesir, Bilecik, Bolu, Isparta, İzmir, Kayseri, Konya, Manisa, Samsun, Trabzon (Zimmermann 1930; Balfour-Browne 1963; Guéorguiev 1968, 1981; Zaitsev 1972; Ienistea 1978; Franciscolo 1979; Holmen 1987; Özemi and Önder 1988; Darılmaz and Kiyak 2006; Kiyak et al. 2007; Karaman et al. 2008; İncekara et al. 2009).

Noterus crassicornis (O.F. Müller, 1776)

Synonyms

Dytiscus crassicornis Müller, 1776; *Dytiscus capricornis* Herbst, 1784; *Noterus geeri* Leach, 1817; *Noterus minor* F. Balfour-Browne, 1965; *Noterus crassicornis* var. *simulator* Porta, 1923; *Dytiscus capricornis* Herbst, 1784

Distribution in Turkey

Adana, Isparta, Samsun (Guéorguiev 1981; İncekara et al. 2009).

Family **DYTISCIDAE**
Subfamily **Agabinae** Thomson, 1867
Tribe **Agabini** Thomson, 1867
Genus *Agabus* Leach, 1817
Subgenus *Acatodes* Thomson, 1859
Agabus bergi Zaitzev, 1913

Distribution in Turkey

Erzurum (Erman et al. 2005, 2007).

Agabus congener (Thunberg, 1794)

Synonyms

Dytiscus congener Thunberg, 1794; *Dytiscus congener* Paykull, 1798; *Agabus daisetsuzanus* Kamiya, 1938; *Agabus foveolatus* Mulsant and Godart, 1860; *Agabus congener* var. *funkii* Seidlitz, 1887; *Agabus congener* var. *venturii* Bertolini, 1870

Distribution in Turkey

Antalya, Denizli, Erzurum, Kars (Guéorguiev 1981; Kiyak et al. 2007; Erman et al. 2007).

Agabus coxalis schmidti Zaitzev, 1913

Synonyms

Agabus schmidti Zaitzev, 1913

Distribution in Turkey

No locality data (Nilsson 2003a, b, 2007).

Agabus lapponicus (Thomson, 1867)

Synonyms

Gaurodytes lapponicus Thomson, 1867; *Gaurodytes obovatus* J.R. Sahlberg, 1875; *Gaurodytes obscuripennis* J.R. Sahlberg, 1875

Distribution in Turkey

Rize (Erman et al. 2005).

Agabus sturmii (Gyllenhal in Schönherr, 1808)

Synonyms

Dytiscus sturmii Gyllenhal in Schönherr, 1808; *Agabus sturmii* var. *fallax* Munster, 1932; *Colymbetes goedelii* A. Villa and G.B. Villa, 1933

Distribution in Turkey

Kars, Sakarya (Ienistea 1978; Guéorguiev 1981).

Subgenus *Agabus* Leach, 1817
Agabus labiatus (Brahm, 1790)

Synonyms

Dytiscus labiatus Brahm, 1790; *Colymbetes assimilis* Sturm, 1834; *Dytiscus femoralis* Paykull, 1798; *Dytiscus femoralis* Gravenhorst, 1807; *Agabus hochhuti* Zaitzev, 1908; *Colymbetes impressus* Zoubkoff, 1833; *Agabus labiatus transcaucasicus* Zaitzev, 1927

Distribution in Turkey

İzmir (Guéorguiev 1981)

Agabus zimmermanni Scholz, 1920

Distribution in Turkey

Aydın (Zimmermann 1935; Zaitsev 1972; Guéorguiev 1981; Nilsson 1990; Shaverdo, 2002).

Subgenus *Gaurodytes* Thomson, 1859
Agabus biguttatus (Olivier, 1795)

Synonyms

Dytiscus biguttatus Olivier, 1795; *Agabus biguttatus alligator* Normand, 1933; *Colymbetes annulatus* Zoubkoff, 1833; *Agabus concii* Franciscolo, 1942; *Agabus consanguineus* Wollaston, 1864; *Colymbetes fontinalis* Stephens, 1828; *Agabus biguttatus* var. *impressus* Guignot, 1932; *Agabus indicus* Régimbart, 1899; *Agabus melas* Aubé, 1837; *Colymbetes nigricollis* Zoubkoff, 1833; *Dytiscus nitidus* Fabricius, 1801; *Agabus biguttatus* var. *nubiensis* Régimbart, 1895; *Agabus olivieri* Zaitzev, 1908; *Agabus nitidus* var. *pauper* Schilsky, 1888; *Colymbetes fontinalis* var. *picicornis* Stephens, 1828; *Agabus silesiacus* Letzner, 1844; *Agabus biguttatus* var. *subaquilus* Gozis, 1912

Distribution in Turkey

Adana, Afyon, Aksaray, Ankara, Artvin, Bayburt, Bilecik, Bursa, Çankırı, Erzurum, Gümüşhane, Isparta, İçel, İzmir, Kastamonu, Rize, Sakarya, Trabzon, Yozgat, Toros Dağları, Karaboğaz Dağ (Elazığ or Bingöl) (Zimmermann 1920, 1930; Bertrand 1928; Guéorguiev 1968, 1981; Ienistea 1978; Franciscolo 1979; Shaverdo 2002; Darilmaz and Kiyak 2006; Erman et al. 2007; Erman and Erman 2008; Karaman et al. 2008).

Agabus bipustulatus (Linnaeus, 1767)

Synonyms

Dytiscus bipustulatus Linnaeus, 1767; *Colymbetes abdominalis* Costa, 1847; *Dytiscus acuductus* Marsham, 1802; *Agabus alpestris* Heer, 1837; *Agabus solieri alpicola*

Zaitzev, 1927; *Agabus bipustulatus alticola* Bruneau de Miré and Legros, 1963; *Dytiscus bipustulatus* O.F. Müller, 1776; *Gaurodytes callosus* Thomson, 1884; *Dytiscus carbonarius* Fabricius, 1801; *Agabus bipustulatus dolomitanus* Scholz, 1935; *Agabus solieri* var. *falcozi* Guignot, 1932; *Dytiscus immaculatus* Schrank, 1781; *Agabus solieri* var. *kiesenwetterii* Seidlitz, 1887; *Colymbetes latus* Gebler, 1841; *Dytiscus luctuosus* Geoffroy, 1785; *Gaurodytes bipustulatus* var. *maurus* Zimmermann, 1919; *Agabus bipustulatus peyerimhoffi* Bruneau de Miré and Legros, 1963; *Agabus picipennis* J.R. Sahlberg, 1903; *Agabus solieri pyrenaeus* Fresneda and Hernando, 1988; *Agabus regalis* Pétri, 1903; *Agabus bipustulatus* var. *remotus* J.R. Sahlberg, 1913; *Agabus sexualis* Reiche, 1857; *Colymbetes snowdonius* Newman, 1833; *Agabus solieri* Aubé, 1837

Distribution in Turkey

Antalya, Artvin, Bursa, Denizli, Erzurum, Gümüşhane, Isparta, İçel, İstanbul, İzmir, Kars, Kastamonu, Kayseri, Kocaeli, Konya, Muğla, Rize Van, Trabzon, Toros Mountains (Zimmermann 1920, 1934; Bertrand 1928; Guéorguiev 1968, 1981; Ienistea 1978; Franciscolo 1979; Kıyak et al. 2007; Erman et al. 2007; Erman and Erman 2008; Karaman et al. 2008).

Agabus caraboides Sharp, 1882

Synonyms

Agabus merkli Régimbart, 1884

Distribution in Turkey

Bursa, Bolu, Erzurum, Giresun, Kars, Konya, Tunceli (Zimmermann 1920; Guéorguiev 1968, 1981; Ienistea 1978; Erman et al. 2007).

Agabus conspersus (Marsham, 1802)

Synonyms

Dytiscus conspersus Marsham, 1802; *Gaurodytes bulgaricus* Csiki, 1943; *Agabus conspersus* var. *corsicus* Guignot, 1932; *Agabus gougeletii* Reiche, 1863; *Agabus luniger* Kolenati, 1845; *Agabus nebulosus* Schiødte, 1841; *Agabus perlautus* Gozis, 1912; *Colymbetes subnebulosus* Stephens, 1828

Distribution in Turkey

Afyon, Antalya, Burdur, Bursa, Denizli, Erzurum, Isparta, İzmir, Konya, Toros Mountains (Zimmermann 1934; Guéorguiev 1968, 1981; Zaitsev 1972; Ienistea 1978; Franciscolo 1979; Shaverdo 2002; Kıyak et al. 2007; Erman et al. 2007).

Agabus didymus (Olivier, 1795)

Synonyms

Dytiscus didymus Olivier, 1795; *Agabus didymus* var. *chalybaeus* J.R. Sahlberg, 1903; *Dytiscus vitreus* Paykull, 1798

Distribution in Turkey

Afyon, Antalya, Balıkesir, Isparta, İzmir, Manisa (Franciscolo 1979; Guéorguiev 1981; Kiyak et al. 2007).

Agabus dilatatus (Brullé, 1832)

Synonyms

Colymbetes dilatatus Brullé, 1832; *Agabus castaneus* Sharp, 1882; *Agabus gory* Aubé, 1837

Distribution in Turkey

Adana, Ankara, Antalya, Bolu, Bursa, Erzurum, Giresun, Gümüşhane, Isparta, İçel, İzmir, Kocaeli, Konya, Rize, Samsun, Trabzon, Van, Toros Mountains, Karaboğa dağ (Elazığ or Bingöl) (Zimmermann 1920, 1934; Balfour-Browne 1963; Guéorguiev 1968, 1981; Ienistea 1978; Franciscolo 1979; Erman et al. 2007; Karaman et al. 2008; İncekara et al. 2009).

Agabus faldermanni Zaitzev, 1927

Synonyms

Agabus iranicus Guéorguiev, 1965; *Gaurodytes palaestinus* Zimmermann, 1934

Distribution in Turkey

Diyarbakır, Isparta, Konya, Muğla, Nevşehir (Guéorguiev 1968, 1981; Nilsson 1992; Kiyak et al. 2007).

Agabus glacialis Hochhuth, 1846

Synonyms

Agabus armeniacus Sharp, 1882; *Agabus inguttatus* Reitter, 1908

Distribution in Turkey

Ardahan, Artvin, Bursa, Gümüşhane, Rize, Trabzon (Guéorguiev 1981; Ienistea 1978; Erman and Erman 2008).

Agabus guttatus guttatus (Paykull, 1798)

Synonyms

Dytiscus guttatus Paykull, 1798; *Colymbetes guttatus* var. *nigripes* Costa, 1847; *Dytiscus picinus* Marsham, 1802; *Gaurodytes septemseriatus* J.R. Sahlberg, 1875; *Agabus guttatus* var. *severior* Gozis, 1912; *Colymbetes signatus* Grimmer, 1841; *Agabus styriacus* Sharp, 1882; *Agabus guttatus* var. *unicolor* Dalla Torre, 1877

Distribution in Turkey

Antalya, Bolu, Denizli, Kastamonu (Guéorguiev 1981; Ienistea 1978; Franciscolo 1979; Kiyak et al. 2007).

Agabus nebulosus (Forster, 1771)

Synonyms

Dytiscus nebulosus Forster, 1771; *Agabus nebulosus* var. *abdominalis* Ragusa, 1887; *Dytiscus bipunctatus* Fabricius, 1787; *Gaurodytes nebulosus* var. *immaculatus* Gschwendtner, 1927; *Agabus nebulosus mixtus* Guignot, 1949; *Dytiscus naevius* Gmelin, 1790; *Dytiscus nigromaculatus* Goeze, 1777; *Dytiscus notatus* Bergsträsser, 1778; *Agabus nebulosus* var. *pratensis* Schaufuss, 1882; *Agabus ragusai* Zaitzev, 1908; *Agabus nebulosus* var. *rugosipennis* Guignot, 1932; *Dytiscus tessellatus* Geoffroy, 1785; *Dytiscus humeralis* Audinet-Serville, 1821

Distribution in Turkey

Afyon, Antalya, Aydın, Burdur, Bursa, Denizli, İstanbul, İzmir, Muğla, Samsun, Sinop, Toros Mountains (Zimmermann 1920; Guéorguiev 1981; Kiyak et al. 2007; İncekara et al. 2009).

Agabus paludosus (Fabricius, 1801)

Synonyms

Dytiscus paludosus Fabricius, 1801; *Agabus marginalis* Sharp, 1882; *Colymbetes pallidipennis* Laporte, 1835; *Dytiscus politus* Marsham, 1802

Distribution in Turkey

Artvin, Ankara, Erzurum, Rize (Zaitsev 1972; Guéorguiev 1981; Erman and Erman 2008).

Genus *Ilybius* Erichson, 1832

Ilybius chalconatus (Panzer, 1796)

Synonyms

Dytiscus chalconatus Panzer, 1796; *Colymbetes aterrimus* Stephens, 1828; *Agabus fuscoaelescens* Régimbart, 1878; *Dytiscus nigroaeneus* Marsham, 1802

Distribution in Turkey

Afyon, Ankara, Bolu, Diyarbakır, Erzurum, Eskişehir, İzmir, Kars, Kastamonu, Konya, Muş, Van Lake (Zimmermann 1920, 1934; Guéorguiev 1981; Ienistea 1978; Franciscolo 1979; Fery and Nilsson 1993).

Ilybius fuliginosus fuliginosus (Fabricius, 1792)

Synonyms

Dytiscus fuliginosus Fabricius, 1792; *Dytiscus foetidus* O.F.Müller, 1776; *Dytiscus lacustris* Panzer, 1796; *Ilybius fuliginosus pirinicus* Guéorguiev, 1957

Distribution in Turkey

Artvin, Erzurum, Isparta, İçel, Kars, Konya, Rize, Trabzon, Karaboğa Mountain (Elaziğ or Bingöl) (Ienistea 1978; Guéorguiev 1981; Kiyak et al. 2007; Erman et al. 2007; Erman and Erman 2008; Karaman et al. 2008).

Ilybius jaechi (Fery and Nilsson, 1993)

Synonyms

Agabus jaechi Fery and Nilsson, 1993

Distribution in Turkey

Aydın, Tekirdağ (Fery and Nilsson 1993).

Ilybius quadriguttatus (Lacordaire, 1835)

Synonyms

Colymbetes quadriguttatus Lacordaire, 1835; *Dytiscus obscurus* Marsham, 1802; *Ilybius sexdentatus* Schiødte, 1841

Distribution in Turkey

Bolu (Guéorguiev 1981).

Ilybius satunini (Zaitzev, 1913)

Synonyms

Agabus satunini Zaitzev, 1913

Distribution in Turkey

Artvin, Erzurum, Kars (Fery and Nilsson 1993; Erman et al. 2007; Erman and Erman 2008).

Ilybius wewalkai (Fery and Nilsson, 1993)

Synonyms

Agabus wewalkai Fery and Nilsson, 1993

Distribution in Turkey

Artvin, Erzurum (Fery and Nilsson 1993; Erman 2005; Erman et al. 2007).

Notes

This species is endemic to Turkey.

Genus ***Platambus*** Thomson, 1859

Platambus lunulatus (Fischer von Waldheim, 1829)

Synonyms

Colymbetes lunulatus Fischer von Waldheim, 1829; *Agabus sinuatus* Aubé, 1837

Distribution in Turkey

Artvin, Bursa, Erzurum, Giresun, Gümüşhane, İçel, İstanbul, Kayseri, Niğde, Rize Trabzon, Tunceli (Zimmermann 1920, 1935; Balfour-Browne 1963; Guéorguiev 1968, 1981; Ienistea 1978; Brancucci 1988; Erman et al. 2007; Erman and Erman 2008; Karaman et al. 2008).

Platambus maculatus (Linnaeus, 1758)

Synonyms

Dytiscus maculatus Linnaeus, 1758; *Dytiscus biocellatus* O.F. Müller, 1776; *Platambus maculatus* var. *cantalicus* Pic, 1912; *Platambus maculatus caucasicus* Zaitzev, 1927; *Platambus escalerae* Régimbart, 1900; *Agabus glacialis* Graells, 1858; *Agabus graellsii* Gemminger and Harold, 1868; *Dytiscus hebraicus* Geoffroy, 1785; *Platambus maculatus* var. *inornatus* Schilsky, 1888; *Dytiscus ornatus* Herbst, 1784; *Agabus maculatus* var. *praetextus* Dalla Torre, 1877; *Colymbetes pulchellus* Heer, 1839

Distribution in Turkey

Bilecik, Bolu, Burdur, Erzurum, Kars, Muğla (Guignot 1947; Zaitsev 1972; Franciscolo 1979; Guéorguiev 1981; Brancucci 1988; Kıyak et al. 2007; Erman et al. 2007).

Subfamily **COLYMBETINAE** Erichson, 1837

Tribe **Colymbetini** Erichson, 1837

Genus ***Colymbetes*** Clairville, 1806

Colymbetes fuscus (Linnaeus, 1758)

Synonyms

Dytiscus fuscus Linnaeus, 1758; *Colymbetes fuscus* var. *affinis* Stein, 1881; *Colymbetes fuscus* var. *semirufus* Zimmermann, 1921; *Dytiscus transversestriatus* De Geer, 1774

Distribution in Turkey

Afyon, Aksaray, Burdur, Erzurum, İzmir, Konya, Samsun (Zimmermann, 1920; Bertrand 1928; Gschwendtner 1936; Zaitsev 1972; Franciscolo 1979; Guéorguiev 1981; Darilmaz and Kiyak 2006; Kiyak et al. 2007; Erman et al. 2007; İncekara et al. 2009).

Colymbetes koenigi Zaitzev, 1927

Distribution in Turkey

Erzurum, Kars (Zaitsev 1972; Guéorguiev 1981; Erman et al. 2007).

Genus *Meladema* Laporte, 1835

Meladema coriacea Laporte, 1835

Distribution in Turkey

İzmir (Guéorguiev 1981).

Genus *Rhantus* Dejean, 1833

Subgenus *Rhantus* Dejean, 1833

Rhantus suturalis (W.S. MacLeay, 1825)

Synonyms

Colymbetes suturalis W.S. MacLeay, 1825; *Rhantus annamita* Régimbart, 1899; *Colymbetes australis* Aubé, 1838; *Rhantus birmanicus* Vazirani, 1970; *Rhantus pulverosus bramardi* Guignot, 1942; *Rhantus chinensis* Falkenström, 1936; *Rhantus dispar* Régimbart, 1899; *Rhantus punctatus* var. *flaviventris* Schilsky, 1908; *Rhantus hypochlorus* Gozis, 1911; *Colymbetes montrouzieri* Lucas, 1860; *Rhantus morneri* Falkenström, 1937; *Rhantus neoguineensis* Guéorguiev and Rocchi, 1993; *Colymbetes pulverosus* Stephens, 1828; *Dytiscus punctatus* Geoffroy, 1785; *Rhantus regimbarti* Jakovlev, 1896; *Rhantus punctatus* var. *ruficollis* Schilsky, 1908; *Colymbetes rufimanus* White, 1846; *Rhantus regimbarti* var. *sharpi* Jakovlev, 1896

Distribution in Turkey

Aksaray, Erzurum, Konya, Manisa, Rize, Trabzon (Guéorguiev 1981; Darilmaz and Kiyak 2006; Erman et al. 2007; Erman and Erman 2008; Karaman et al. 2008).

Subfamily COPELATINAE Branden, 1885

Tribe Copelatini Branden, 1885

Genus *Liopterus* Dejean, 1833

Liopterus haemorrhoidalis (Fabricius, 1787)

Synonyms

Dytiscus haemorrhoidalis Fabricius, 1787; *Dytiscus agilis* Fabricius, 1792; *Dytiscus oblongus* Illiger, 1801; *Dytiscus ruficollis* Schaller, 1783; *Dytiscus schalleri* Gmelin, 1790

Distribution in Turkey

Kütahya (Guéorguiev 1981; Nilsson and Holmen 1995).

Subfamily **DYTISCINAE** Leach, 1815

Tribe **Aciliini** Thomson, 1867

Genus ***Acilius*** Leach, 1817

Subgenus ***Acilius*** Leach, 1817

Acilius sulcatus (Linnaeus, 1758)

Synonyms

Dytiscus sulcatus Linnaeus, 1758; *Acilius sulcatus blancki* Peyerimhoff, 1927; *Acilius brevis* Aubé, 1837; *Dytiscus fasciatus* DeGeer, 1774; *Dytiscus punctatus* Scopoli, 1763; *Dytiscus scopoli* Gmelin, 1790; *Acilius sulcatus* var. *scoticus* Stephens, 1828; *Acilius tomentosus* Motschulsky, 1845; *Acilius sulcatus* var. *varipes* Stephens, 1828

Distribution in Turkey

Artvin, Erzurum, Kastamonu, Kayseri (Zaitsev 1972; Guéorguiev 1981; Franciscolo 1979; Erman et al. 2007; Erman and Erman 2008).

Genus ***Graphoderus*** Dejean, 1833

Graphoderus cinereus (Linnaeus, 1758)

Synonyms

Dytiscus cinereus Linnaeus, 1758; *Hydaticus zonatus* var. *intermedius* Westhoff, 1881; *Hydaticus zonatus* var. *simulator* Westhoff, 1882; *Dytiscus taeniatus* Rossi, 1792

Distribution in Turkey

Afyon, Ağrı, Erzurum, Samsun (Guéorguiev 1981; Kıyak et al. 2007; Erman et al. 2007; İncekara et al. 2009).

Graphoderus zonatus zonatus (Hoppe, 1795)

Synonyms

Dytiscus zonatus Hoppe, 1795; *Hydaticus zonatus* var. *interiectus* Westhoff, 1882; *Dytiscus zonatus* Panzer, 1796

Distribution in Turkey

Erzurum, Kars (Zaitsev 1972; Guéorguiev 1981; Franciscolo 1979; Erman et al. 2007).

Tribe **Cybistrini** Sharp, 1882
Genus **Cybister** Curtis, 1827
Subgenus **Cybister** Curtis, 1827
Cybister lateralimarginalis torquatus (Fischer von Waldheim, 1829)

Synonyms

Dytiscus torquatus Fischer von Waldheim, 1829; *Cybister chaudiroidii* Hochhuth, 1846;
Cybister hedini Zaitzev, 1908

Distribution in Turkey

Adana, Burdur, Denizli, Erzurum, Eskişehir, İçel, İzmir, Kayseri Konya, Van (Zimmermann 1920; Gschwendtner 1938; Zaitzev 1972; Franciscolo 1979; Guéorguiev 1981; Özemsi and Önder 1988; Kiyak et al. 2007; Erman et al. 2007).

Cybister tripunctatus lateralis (Fabricius, 1798)

Synonyms

Dytiscus lateralis Fabricius, 1798; *Cybister asiaticus* Sharp, 1882; *Cybister gotschii* Hochhuth, 1846; *Cybister similis* Régimbart, 1899; *Cybister tripunctatus orientalis* Gschwendtner, 1931

Distribution in Turkey

Adana, Antalya, Aydın, İçel, İzmir (Guéorguiev 1981; Fery 2001; Kiyak et al. 2007).

Tribe **Dytiscini** Leach, 1815
Genus **Dytiscus** Linnaeus, 1758
Dytiscus circumflexus Fabricius, 1801

Synonyms

Dytiscus dubius Audinet-Serville, 1821; *Dytiscus flavomaculatus* Curtis, 1826;
Dytiscus flavoscutellatus Latreille, 1804; *Dytiscus pisanus* var. *kunstleri* Peytoureau, 1894; *Dytiscus perplexus* Lacordaire, 1835

Distribution in Turkey

Adana, Aydın, Balıkesir, Erzurum, Iğdır, Isparta, Kars, Kütahya (Gschwendtner 1938; Zaitzev 1972; Franciscolo 1979; Guéorguiev 1981; Kiyak et al. 2007).

Dytiscus dimidiatus Bergsträsser, 1778

Distribution in Turkey

İzmir, Samsun (Zimmermann 1920; Bertrand 1928; Gschwendtner 1938; Zaitzev 1972; Franciscolo 1979; Guéorguiev 1981; Kiyak et al. 2007).

Dytiscus marginalis marginalis Linnaeus, 1758

Synonyms

Dytiscus circumductus Audinet-Serville, 1821; *Dytiscus conformis* Kunze, 1818; *Dytiscus marginalis* f. *semicostatus* Reineck, 1921; *Dytiscus semistriatus* Linnaeus, 1758; *Dytiscus submarginatus* Stephens, 1828; *Dytiscus totemarginalis* De Geer, 1774

Distribution in Turkey

Afyon, Ankara, Antalya, Denizli, Erzurum, Iğdır, Isparta, Kars, Kayseri, Konya, Muğla (Guéorguiev 1968, 1981; Ienistea 1978; Franciscolo 1979; Kıyak et al. 2007; Erman et al. 2007).

Dytiscus persicus Wehncke, 1876

Distribution in Turkey

Erzurum (Zaitsev 1972; Guéorguiev 1981; Erman et al. 2007).

Dytiscus semisulcatus O.F. Müller, 1776

Synonyms

Dytiscus punctulatus var. *expectatus* Peyerimhoff, 1905; *Dytiscus frischii* Bergsträsser, 1778; *Dytiscus punctulatus* var. *laevis* Engert, 1911; *Dytiscus punctulatus* var. *maurus* Schaufuss, 1883; *Dytiscus porcatus* Thunberg, 1794; *Dytiscus punctatus* Olivier, 1795; *Dytiscus punctulatus* Fabricius, 1777; *Dytiscus stagnalis* Geoffroy, 1785

Distribution in Turkey

Isparta, Muğla (Zimmermann 1920; Bertrand 1928; Gschwendtner 1938; Franciscolo 1979; Guéorguiev 1981; Kıyak et al. 2007).

Tribe **Eretini** Crotch, 1873

Genus **Eretes** Laporte, 1833

Eretes griseus (Fabricius, 1781)

Synonyms

Dytiscus griseus Fabricius, 1781; *Eretes sticticus moroderi* Báguena Corella, 1935; *Eunectes plicipennis* Motschulsky, 1845; *Eunectes succinctus* Klug, 1834

Distribution in Turkey

Antalya (Kıyak et al. 2007).

Eretes sticticus (Linnaeus, 1767)

Synonyms

Dytiscus sticticus Linnaeus, 1767; *Eunectes conicollis* Wollaston, 1861; *Eunectes helvolus* Klug, 1834; *Eunectes occidentalis* Erichson, 1847; *Eunectes punctatus* Zoubkoff, 1837; *Eunectes subcoriaceus* Wollaston, 1861; *Eunectes subdiaphanus* Wollaston, 1861

Distribution in Turkey

Adana, İçel, Toros Mountains (Franciscolo 1979; Guéorguiev 1981).

Tribe **Hydaticini** Sharp, 1882
Genus *Hydaticus* Leach, 1817
Subgenus *Guignotites* Brinck, 1943
Hydaticus leander (Rossi, 1790)

Synonyms

Dytiscus leander Rossi, 1790; *Hydaticus debarrosmachadoi* Franciscolo, 1968; *Hydaticus fusciventris* Reiche and Saulcy, 1855; *Hydaticus nauzieli* Fairmaire, 1859

Distribution in Turkey

İzmir, Samsun (Zimmermann 1920; Guéorguiev 1981; İncekara et al. 2009).

Hydaticus ponticus Sharp, 1882

Distribution in Turkey

Aydın, Burdur (Wewalka 1979; Guéorguiev 1981; Kiyak et al. 2007).

Subgenus *Hydaticus* Leach, 1817
Hydaticus transversalis laevisculptus Zaitzev, 1910

Distribution in Turkey

Adana, Denizli, Kütahya, Samsun (Zimmermann 1920; Gschwendtner 1937; Zaitsev 1972; Franciscolo 1979; Guéorguiev 1981; Kiyak et al. 2007; İncekara et al. 2009).

Subfamily **Hydroporinae** Aubé, 1836
Tribe **Bidessini** Sharp, 1882
Genus *Bidessus* Sharp, 1882
Bidessus anatolicus anatolicus Wewalka, 1972

Distribution in Turkey

Adana, Antalya (Wewalka 1971a; Guéorguiev 1981; Bistrom 1987).

Notes

This species is endemic to Turkey.

Bidessus calabricus Guignot, 1957

Synonyms

Bidessus minutissimus calabricus Guignot, 1957

Distribution in Turkey

Ankara, Antalya, Çanakkale, İstanbul, İzmir, Kocaeli, Muğla (Fery, 1991).

Bidessus delicatulus (Schaum, 1844)

Synonyms

Hydroporus delicatulus Schaum, 1844

Distribution in Turkey

Ankara, İzmir, Muğla (Zaitsev 1972; Franciscolo 1979; Guéorguiev 1981; Fery, 1991).

Bidessus exornatus (Reiche and Saulcy, 1855)

Synonyms

Hydroporus exornatus Reiche and Saulcy, 1855

Distribution in Turkey

Adana, Ankara, Kayseri, Konya, Toros Mountains (Zimmermann 1920, 1930; Zaitsev 1972; Guéorguiev 1981).

Bidessus minutissimus (Germar, 1824)

Synonyms

Hydroporus minutissimus Germar, 1824; *Bidessus minutissimus* var. *circumflexus* Breit, 1908; *Bidessus minutissimus* var. *interruptefasciatus* Breit, 1908; *Bidessus minutissimus* var. *lepineyi* Kocher, 1957; *Hydroporus trifasciatus* Wollaston, 1846

Distribution in Turkey

İzmir (Guéorguiev 1981; İenistea 1978).

Notes

Bidessus minutissimus is not included for Turkey in Nilsson (2003a, 2007). However it was listed from Turkey in Guéorguiev (1981).

Bidessus nasutus Sharp, 1887

Distribution in Turkey

Afyon, Kayseri, Konya, Samsun (Guéorguiev 1981; Özemsi and Önder 1988; İncekara et al. 2009).

Bidessus unistriatus (Goeze, 1777)

Synonyms

Dytiscus unistriatus Goeze, 1777; *Dytiscus unistriatus* Schrank, 1781; *Hygrotus bisulcatus* Curtis, 1840; *Dyticus monostriatus* Geoffroy, 1785; *Dyticus nanus* Gmelin, 1790; *Dyticus unistriatus* Gmelin, 1790; *Bidessus unistriatus* var. *opacus* Guignot, 1932; *Bidessus unistriatus* var. *subrufulus* Schneider, 1898

Distribution in Turkey

Erzurum (Erman et al. 2005, 2007).

Genus ***Hydroglyphus*** Motschulsky, 1853

Hydroglyphus confusus (Klug, 1834)

Synonyms

Hydroporus confusus Klug, 1834

Distribution in Turkey

No locality data (Guéorguiev 1981).

Hydroglyphus geminus (Fabricius, 1792)

Synonyms

Dytiscus geminus Fabricius, 1792; *Bidessus geminus* var. *corsicus* O.Schneider, 1903; *Hydroporus geminus* var. *duftschmidi* Dalla Torre, 1877; *Bidessus geminus* var. *immaculatus* Báguena Corella, 1935; *Bidessus geminus* var. *nitens* Falkenström, 1939; *Bidessus geminus* var. *obscurus* J.R. Sahlberg, 1903; *Bidessus geminus* var. *ocellatus* Báguena Corella, 1935; *Bidessus geminus* var. *pectinatus* Báguena Corella, 1935; *Hydroporus monaulacus* Drapiez, 1820; *Dytiscus pusillus* Fabricius, 1781; *Dytiscus pygmeus* Olivier, 1795; *Hydroporus symbolum* Kolenati, 1845; *Dytiscus trifidus* Panzer, 1795

Distribution in Turkey

Adana, Afyon, Aksaray, Ankara, Antalya, Artvin, Aydın, Balıkesir, Bolu, Bursa, Edirne, Erzurum, Eskişehir, Gümüşhane, Isparta, İçel, İzmir, Kastamonu, Kayseri, Konya, Kilis, Manisa, Muğla, Rize, Samsun, Trabzon (Franciscolo 1979; Guéorguiev 1981; Nilsson 1995; Darilmaz and Kiyak 2006; Kiyak et al. 2007; ; Erman et al. 2007; Erman and Erman 2008; Karaman et al. 2008; İncekara et al. 2009).

Hydroglyphus signatellus (Klug, 1834)

Synonyms

Hydroporus signatellus Klug, 1834; *Bidessus thermalis* var. *razzautii* Doderò, 1922; *Hydroporus tetragrammus* Hochhuth, 1846; *Hydroporus thermalis* Germar, 1838

Distribution in Turkey

Adana, İçel, Konya (Guéorguiev 1981).

Tribe **Hydroporini** Aubé, 1836
Genus ***Deronectes*** Sharp, 1882
Deronectes abnormicollis Semenov, 1900

Synonyms

Deronectes microthorax Semenov, 1900

Distribution in Turkey

Gümüşhane (Guéorguiev 1981).

Notes

Deronectes abnormicollis is not included for Turkey in Nilsson (2003a, 2007). However it was listed from Turkey in Guéorguiev (1981).

Deronectes angulipennis (Peyron, 1858)

Synonyms

Hydroporus angulipennis Peyron, 1858

Distribution in Turkey

İçel (Guéorguiev 1981; Wewalka 1970; Fery and Hosseinie 1998).

Notes

This species is endemic to Turkey.

Deronectes doriae Sharp, 1882

Distribution in Turkey

Ankara, Artvin, Bilecik, Bursa, Erzurum, Gümüşhane, Kars, Muğla (Wewalka 1970, 1989a; Guéorguiev 1981; Fery and Brancucci 1997; Fery et al. 2001; Erman et al. 2007; Erman and Erman 2008).

Deronectes evelynae Fery and Hosseinie, 1998

Distribution in Turkey

Adiyaman, Diyarbakır, Gaziantep (Fery and Hosseinie 1998; Fery et al. 2001).

Notes

This species is endemic to Turkey.

Deronectes hakkariensis Wewalka, 1989

Distribution in Turkey

Erzurum, Şırnak (Wewalka 1989a; Fery and Brancucci 1997; Fery et al. 2001; Erman et al. 2007).

Notes

This species is endemic to Turkey.

Deronectes hebauerorum Fery and Hosseinie, 1998

Distribution in Turkey

Gaziantep (Fery and Hosseinie 1998).

Notes

This species is endemic from Turkey.

Deronectes jaechi Wewalka, 1989

Distribution in Turkey

Hakkari, Şırnak (Wewalka 1989a; Fery and Hosseinie 1998).

Notes

This species is endemic from Turkey.

Deronectes kinzelbachi Fery and Hosseinie, 1998

Distribution in Turkey

Hatay (Fery et al. 2001; Fery and Hosseinie 1998).

Deronectes latus (Stephens, 1829)

Synonyms

Hydroporus latus Stephens, 1829; *Hydroporus latus* Curtis, 1831; *Hydroporus castaneus* Heer, 1837; *Hydroporus ovatus* Sturm, 1835; *Hydroporus latus pyrenaeus* var. Schaefer, 1930

Distribution in Turkey

Erzurum (Fery and Brancucci 1997).

Notes

Deronectes latus is not included for Turkey in Nilsson (2003a, 2007). However, it was listed from Turkey in Fery and Brancucci (1997).

Deronectes longipes Sharp, 1882

Distribution in Turkey

Diyarbakır, Gaziantep, İzmir, Mardin, Siirt (Guéorguiev 1981; Wewalka 1989a).

Notes

Deronectes longipes is not included for Turkey in Nilsson (2003a, 2007). However, it was listed from Turkey in Guéorguiev (1981) and Wewalka (1989a).

Deronectes parvicollis (Schaum, 1864)

Synonyms

Hydroporus parvicollis Schaum, 1864; *Deronectes planicollis* Sharp, 1882

Distribution in Turkey

Afyon, Ankara, Antalya, Artvin, Bilecik, Erzurum, Gümüşhane, Hakkari, Isparta, İçel, Kars, Kastamonu, Kayseri, Muğla, Nevşehir, Niğde, Van, Yozgat, Köseadağ (Çorum or Sivas), Toros Mountains (Zimmermann 1920, 1932; Ienistea 1978; Guéorguiev 1981; Wewalka 1989a; Fery and Hosseinie 1998; Fery et al. 2001; Kıyak et al. 2007; Erman et al. 2007).

Deronectes riberai Fery and Hosseinie, 1998

Distribution in Turkey

Şırnak (Fery and Hosseinie 1998).

Deronectes sahlbergi Zimmermann, 1932

Distribution in Turkey

Antalya, Balıkesir, Bilecik, Edirne, İzmir, Muğla (Wewalka 1970, 1975, 1989a; Ienistea 1978; Guéorguiev 1981; Fery and Brancucci 1997; Fery et al. 2001).

Deronectes schuberti Wewalka, 1970

Distribution in Turkey

Kahramanmaraş (Wewalka 1970; Guéorguiev 1981; Fery and Hosseinie 1998).

Notes

This species is endemic to Turkey.

Deronectes syriacus Wewalka, 1970

Distribution in Turkey

Diyarbakır, Gaziantep, Hatay, Mardin, Urfa (Wewalka 1970, 1989; Guéorguiev 1981; Fery and Hosseinie 1998).

Notes

This species is endemic to Turkey.

Deronectes toledo Fery, Erman and Hosseinie, 2001

Distribution in Turkey

Erzurum (Fery et al. 2001; Erman et al. 2007).

Notes

This species is endemic to Turkey.

Deronectes wittmeri Wewalka, 1970

Distribution in Turkey

Antalya, Isparta (Wewalka 1970, 1989a; Guéorguiev 1981; Fery and Brancucci 1997).

Notes

This species is endemic to Turkey.

Deronectes witzgalli Fery and Brancucci, 1997

Distribution in Turkey

Antalya (Fery and Brancucci 1997).

Notes

This species is endemic to Turkey.

Genus ***Graptodytes*** Seidlitz, 1887
Graptodytes bilineatus (Sturm, 1835)

Synonyms

Hydroporus bilineatus Sturm, 1835; *Hydroporus bilineatus* var. *hopffgarteni* Schilsky, 1892; *Hydroporus narentinus* Zimmermann, 1915; *Hydroporus nigratarsis* Sharp, 1882; *Hydroporus granularis* var. *pervasus* Gozis, 1914; *Graptodytes bilineatus* var. *dalmatinus* Zimmermann, 1932

Distribution in Turkey

Erzurum, Rize (Franciscolo 1979; Erman and Erman 2004; Erman et al. 2007).

Graptodytes flavipes (Olivier, 1795)

Synonyms

Dytiscus flavipes Olivier, 1795; *Graptodytes flavipes* var. *cebennicus* Guignot, 1932; *Hydroporus concinnus* Stephens, 1835; *Hydroporus flavipes* var. *manducus* Schaufuss, 1882; *Hydroporus marmoratus* Stephens, 1835; *Hydroporus flavipes* var. *portalegrensis* Schaufuss, 1882

Distribution in Turkey

İzmir, Manastır (most probably Trabzon) (Guéorguiev 1981).

Graptodytes sedilloti phrygius Guignot, 1942

Synonyms

Graptodytes phrygius Guignot, 1942; *Graptodytes pseudophrygius* Guéorguiev, 1965

Distribution in Turkey

Ankara, Aydın, Antalya, Çanakkale, Diyarbakir, İzmir, Şırnak (Ienistea 1978; Guéorguiev, 1981; Fery, 1994; Nardi 2004).

***Graptodytes veterator behningi* Zaitzev, 1927**

Synonyms

Graptodytes behningi Zaitzev, 1927

Distribution in Turkey

Afyon, Ankara, Balıkesir, Bingöl, Bursa, Erzurum, İzmir, Konya (Zimmermann 1935; İenistea 1978; Franciscolo 1979; Guéorguiev 1981; Erman et al. 2007).

Notes

This species is endemic to Turkey.

Genus ***Hydroporus*** Clairville, 1806

Hydroporus anatolicus J.Balfour-Browne, 1963

Distribution in Turkey

Erzurum, Gümüşhane, Ordu, Trabzon (Balfour-Browne 1963; Wewalka 1974; Guéorguiev 1981; Erman et al. 2007).

Notes

This species is endemic to Turkey.

Hydroporus askalensis Wewalka, 1992

Distribution in Turkey

Çanakkale, Erzurum (Wewalka 1992; Erman et al. 2007).

Notes

This species is endemic to Turkey.

Hydroporus bodemeyeri Ganglbauer, 1900

Synonyms

Hydroporus bulgaricus Hlisnikovský, 1955; *Hydroporus collarti* Guignot, 1949; *Hydroporus guignoti* Gschwendtner, 1935

Distribution in Turkey

Ankara, Bolu, İçel, İzmir, Muğla, Karaköy (Wewalka 1971b, 1974; İenistea 1978; Guéorguiev 1981).

Hydroporus brucki Wehncke, 1875

Distribution in Turkey

No locality data (Zimmermann 1920, 1931; Ienistea 1978; Guéorguiev 1981; Fery and Petrov 2005).

Hydroporus discretus Fairmaire and Brisout, 1859

Synonyms

Hydroporus alpestris Falkenström, 1939; *Hydroporus cyprius* Régimbart, 1878; *Hydroporus lundbladi* Falkenström, 1939; *Hydroporus maurus* Sharp, 1882; *Hydroporus neuter* Fairmaire and Laboulbène, 1854; *Hydroporus corsicus* Wehncke, 1872; *Hydroporus discretus* var. *pescheti* Guignot, 1930; *Hydroporus ponticus* Zaitzev, 1927; *Hydroporus discretus* var. *sublaevis* Falkenström, 1922; *Hydroporus discretus tatricus* Kinel, 1949

Distribution in Turkey

Artvin, Bayburt, Erzurum, Gümüşhane, Iğdır, Rize (Ienistea 1978; Guéorguiev 1981; Erman et al. 2007; Erman and Erman 2008).

Hydroporus erythrocephalus (Linnaeus, 1758)

Synonyms

Dytiscus erythrocephalus Linnaeus, 1758; *Hyphyrus deplanatus* Gyllenhal, 1826; *Hydroporus derelictus* Clark, 1862; *Hydroporus erythrocephalus* var. *faroensis* Mjöberg, 1917; *Dytiscus sericeus* Eschscholtz, 1818; *Hydroporus erythrocephalus* var. *subcostatus* Gerhardt, 1909

Distribution in Turkey

Erzincan, Erzurum (Guéorguiev 1981; Erman et al. 2007)

Hydroporus erzurumensis Erman and Fery, 2000

Distribution in Turkey

Erzurum (Erman and Fery 2000; Erman et al. 2007).

Notes

This species is endemic to Turkey.

Hydroporus hebaueri Hendrich, 1990

Distribution in Turkey

Edirne (Fery 1999).

***Hydroporus jacobsoni* Zaitzev, 1927**

Distribution in Turkey

Antalya, Kastamonu, Van, Toros Mountains (Guéorguiev 1981).

***Hydroporus jonicus caucasicus* Zaitzev, 1927**

Synonyms

Hydroporus vagepictus caucasicus Zaitzev, 1927

Distribution in Turkey

Erzurum, Kars (Ienistea 1978; Guéorguiev 1981; Erman et al. 2007).

***Hydroporus kasyi* Wewalka, 1984**

Distribution in Turkey

İçel (Wewalka 1984).

***Hydroporus kozlovskii* Zaitzev, 1927**

Distribution in Turkey

Antalya, Artvin, Erzincan, Erzurum, Gümüşhane, Kars, Muş, Rize (Zaitsev 1972; Guéorguiev 1981; Shaverdo 2004; Erman et al. 2007; Erman and Erman 2008).

***Hydroporus libanus* Régimbart, 1901**

Distribution in Turkey

Hatay (Wewalka 1989b).

***Hydroporus limbatus* Aubé, 1838**

Distribution in Turkey

İçel (Guéorguiev 1981).

Notes

Hydroporus limbatus is not included for Turkey in Nilsson (2003a, 2007). However, it was listed from Turkey in Guéorguiev (1981).

Hydroporus marginatus (Duftschmid, 1805)

Synonyms

Dytiscus marginatus Duftschmid, 1805; *Hydroporus bosnicus* Apfelbeck, 1909; *Hydroporus marginatus* var. *pallens* Zimmermann, 1915

Distribution in Turkey

Ankara, Erzurum, Kars, Konya, Muğla, Samsun, Sivas, Trabzon (Guignot 1947; Franciscolo 1979; Guéorguiev 1981; Fery and Petrov 2005; Kiyak et al. 2007; Erman et al. 2007; Karaman et al. 2008; İncekara et al. 2009).

Hydroporus neclae Erman and Fery, 2006

Distribution in Turkey

Erzurum (Erman and Fery 2006; Erman et al. 2007).

Notes

This species is endemic to Turkey.

Hydroporus nigellus Mannerheim, 1853

Synonyms

Hydroporus bungei Zaitzev, 1910; *Hydroporus mtiula* Zaitzev, 1927; *Hydroporus obscuripes* Motschulsky, 1860; *Hydroporus pyrenaeus* Wehncke, 1872; *Hydroporus sieversi* J.R. Sahlberg, 1910; *Hydroporus tungus* Zaitzev, 1910

Distribution in Turkey

Erzurum, Rize (Erman et al. 2005, 2007; Erman and Erman 2008).

Hydroporus obsoletus Aubé, 1838

Distribution in Turkey

İzmir (Guéorguiev 1981).

Hydroporus palustris (Linnaeus, 1761)

Synonyms

Dytiscus palustris Linnaeus, 1761; *Hydroporus palustris* var. *apicalis* Schilsky, 1888; *Hydroporus palustris buresi* Maran, 1938; *Hydroporus cambriensis* Curtis, 1831; *Dytiscus cristatomarginatus* Goeze, 1777; *Dytiscus fimbriatus* Gmelin, 1790; *Hydroporus palustris* var. *fuscorufus* Munster, 1927; *Hydroporus palustris* var.

limbatus Dalla Torre, 1877; *Dytiscus lituratus* Fabricius, 1781; *Hydroporus proximus* Stephens, 1828; *Dytiscus sexpustulatus* Fabricius, 1777; *Hydroporus striola* var. *styriacus* Seidlitz, 1887; *Hydroporus tinctus* Clark, 1862; *Dytiscus variegatus* Geoffroy, 1785

Distribution in Turkey

Artvin, Erzurum, Rize, Samsun, Trabzon (Guignot 1947; Ienistea 1978; Franciscolo 1979; Guéorguiev 1981; Erman et al. 2007; Erman and Erman 2008; Karaman et al. 2008; İncekara et al. 2009).

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

Synonyms

Dytiscus planus Fabricius, 1782; *Dytiscus ater* Forster, 1771; *Dytiscus flavipes* Fabricius, 1792; *Hydroporus planus* var. *flavipes* Dalla Torre, 1879 *Hydroporus planus* var. *frisius* Verhoeff, 1891; *Hydroporus fuscatus* Stephens, 1828; *Dytiscus fuscus* Schrank, 1781; *Dytiscus holosericeus* Marsham, 1802; *Dytiscus humeralis* Marsham, 1802; *Dytiscus lividus* Geoffroy, 1785; *Dytiscus nigricans* Schrank, 1781; *Hydroporus nigriceps* Preller, 1862; *Hydroporus planus* var. *pallescens* Seidlitz, 1887; *Dytiscus sordidus* Herbst, 1784

Distribution in Turkey

Antalya, Artvin, Balıkesir, Bursa, Erzincan, Erzurum, İstanbul, Kars, Rize, Samsun, Toros Mountains (Ienistea 1978; Guéorguiev 1981; Kiyak et al. 2007; Erman et al. 2007; Erman and Erman 2008; İncekara et al. 2009).

***Hydroporus pubescens* (Gyllenhal, 1808)**

Synonyms

Hyphydrus pubescens Gyllenhal, 1808; *Hydroporus antidotus* Sharp, 1882; *Hydroporus caliginosus* Stephens, 1839; *Hydroporus distinguendus* var. *estrellensis* Schaufuss, 1882; *Hydroporus pubescens* var. *fulvipennis* Munster, 1932; *Hydroporus habelmanni* Wehncke, 1876; *Dytiscus melanocephalus* Marsham, 1802; *Hydroporus pubescens* var. *roseni* Zimmermann, 1919; *Hydroporus scaphula* Sturm, 1835; *Hydroporus scopularis* Schiödte, 1841

Distribution in Turkey

Aksaray, Antalya, Artvin, Bursa, Erzincan, Erzurum, Gümüşhane, İçel, İzmir, Manisa, Niğde, Ordu, Rize, Sakarya, Trabzon (Bertrand 1928; Zimmermann 1931; Guéorguiev 1981; Ienistea 1978; Franciscolo 1979; Fery and Petrov 2005; Darilmaz and Kiyak 2006; Erman et al. 2007; Erman and Erman 2008).

Hydroporus tessellatus (Drapiez, 1819)

Synonyms

Dytiscus tessellatus Drapiez, 1819; *Hydroporus tessellatus* var. *chrysostomus* Gozis, 1914; *Hydroporus nigricollis* Desbrochers des Loges, 1871; *Hydroporus nigricollis* Fairmaire, 1872; *Hydroporus guernei* var. *pueli* Barthe, 1916; *Hydroporus xanthopus* Stephens, 1835

Distribution in Turkey

Adana, Afyon, Bolu, Bursa, Erzurum, Ordu, Sinop, Sivas, Trabzon, Zonguldak (Zimmermann 1920; Ienistea 1978; Franciscolo 1979; Guéorguiev 1981; Erman et al. 2007).

Hydroporus thracicus Guéorguiev, 1966

Distribution in Turkey

Ankara, Artvin, Erzurum, Kars, Kastamonu, Rize (Shaverdo 2004; Erman et al. 2007; Erman and Erman 2008).

Hydroporus transgrediens Gschwendtner, 1923

Synonyms

Hydroporus pubescens transgrediens Gschwendtner, 1923

Distribution in Turkey

Ardahan, Antalya, Artvin, Bayburt, Bolu, Erzurum, Isparta, İstanbul, Kahramanmaraş, Kütahya, Nevşehir, Rize, Trabzon, Van (Fery and Petrov 2005).

Hydroporus tristis (Paykull, 1798)

Synonyms

Dytiscus tristis Paykull, 1798; *Hydroporus ampliceps* J.R. Sahlberg, 1921; *Hydroporus ruficapillus* Mannerheim, 1852; *Hydroporus varians* LeConte, 1850

Distribution in Turkey

No locality data (Zimmermann 1931; Guignot 1947; Franciscolo 1979).

Genus ***Nebrioporus*** Régimbart, 1906
Subgenus ***Nebrioporus*** Régimbart, 1906
Nebrioporus airumlus (Kolenati, 1845)

Synonyms

Hydroporus airumlus Kolenati, 1845; *Deronectes amurensis* Sharp, 1882; *Hydroporus kashmirensis* Régimbart, 1899; *Deronectes airumlus rybinskii* Kinel, 1936

Distribution in Turkey

Artvin, Erzurum, Gümüşhane, Kars, Van (Guéorguiev 1981; Toledo 1998; Erman et al. 2007; Erman and Erman 2008).

Nebrioporus clarkii (Wollaston, 1862)

Synonyms

Hydroporus clarkii Wollaston, 1862; *Hydroporus andalusiae* Clark, 1862; *Hydroporus subtruncatus* Fairmaire, 1876; *Hydroporus clarki* var. *unilineatus* Báguena Corella, 1935

Distribution in Turkey

Anatolia (Franciscolo 1979; Guéorguiev, 1981).

Nebrioporus laeviventris (Reiche and Saulcy, 1855)

Synonyms

Hydroporus laeviventris Reiche and Saulcy, 1855; *Deronectes scutellaris* Sharp, 1882

Distribution in Turkey

İçel (Zimmermann 1920, 1933; Franciscolo 1979; Guéorguiev 1981).

Nebrioporus luctuosus (Aubé, 1838)

Synonyms

Hydroporus luctuosus Aubé, 1838; *Deronectes luctuosus* var. *flavopunctatus* Pic, 1895; *Hydroporus luctuosus* var. *lugubris* Ragusa, 1887; *Hydroporus duodecimpustulatus* var. *sericeus* Costa, 1847

Distribution in Turkey

Toros Mountains (Guignot 1947; Franciscolo 1979; Guéorguiev 1981).

Nebrioporus suavis (Sharp, 1882)

Synonyms

Deronectes suavis Sharp, 1882; *Deronectes variegatus* var. *infuscatus* J.R. Sahlberg, 1913; *Hydroporus variegatus* Aubé, 1838

Distribution in Turkey

Ankara, Amasya, Antalya, Balıkesir, Bilecik, Bursa, Eskişehir, Gümüşhane, Isparta, İçel, İzmir, İstanbul, Konya, Ordu, Trabzon, Toros Mountains (Zimmermann 1920, 1933; Franciscolo 1979; Guéorguiev 1981; Kiyak et al. 2007).

Nebrioporus turca (Seidlitz, 1887)

Synonyms

Deronectes turca Seidlitz, 1887; *Nebrioporus rufino* J.R. Sahlberg, 1913

Distribution in Turkey

Antalya, Artvin, Elazığ, Erzurum, Isparta, İçel, İzmir, Konya, Trabzon (Zimmermann 1920, 1933; Guéorguiev 1968, 1981; Ienistea 1978; Kiyak et al. 2007; Erman et al. 2007; Erman and Erman 2008).

Subgenus ***Zimmermannius*** Guignot, 1941

Nebrioporus ceresyi (Aubé, 1838)

Synonyms

Hydroporus ceresyi Aubé, 1838; *Hydroporus lyellii* Wollaston, 1857; *Hydroporus salinus* Joly, 1840; *Hydroporus undecimlineellus* Fairmaire, 1877

Distribution in Turkey

Konya (Dumont 1981).

Genus ***Oreodytes*** Seidlitz, 1887

Oreodytes davisii davisii (Curtis, 1831)

Synonyms

Hydroporus davisii Curtis, 1831; *Hydroporus borealis* var. *montanus* Zimmermann, 1915

Distribution in Turkey

Antalya Artvin, Erzurum, Rize (Erman and Erman 2002, 2008; Kiyak et al. 2007; Erman et al. 2007).

Oreodytes septentrionalis (Gyllenhal, 1826)

Synonyms

Hyphyrus septentrionalis Gyllenhal, 1826; *Hydroporus septentrionalis* var. *devillei* Régimbart, 1901; *Hydroporus fluviatilis* Sturm, 1835; *Hydroporus septentrionalis* var. *helveticus* Régimbart, 1901

Distribution in Turkey

Aksaray, Erzurum (Erman and Erman 2002; Darılmaz and Kiyak 2006; Erman et al. 2007).

Genus *Porhydrus* Guignot, 1945
Porhydrus lineatus (Fabricius, 1775)

Synonyms

Dytiscus lineatus Fabricius, 1775; *Dytiscus ovalis* Marsham, 1802; *Dytiscus parvulus* Herbst, 1784; *Dytiscus pygmaeus* Fabricius, 1792; *Hydroporus pygmaeus* Stephens, 1835; *Dytiscus quadrilineatus* Drapiez, 1819; *Hydroporus thoreii* Clark, 1862; *Hydroporus lineatus* var. *unicolor* Dalla Torre, 1877; *Dytiscus velox* O.F. Müller, 1776

Distribution in Turkey

Manastır (Most probably Trabzon), Samsun (Guéorguiev 1981; İncekara et al. 2009)

Genus *Scarodytes* Gozis, 1914
Scarodytes halensis halensis (Fabricius, 1787)

Synonyms

Dytiscus halensis Fabricius, 1787; *Hydroporus amoenus* J.R. Sahlberg, 1908; *Dytiscus areolatus* Duftschmid, 1805; *Dytiscus areolatus* Gravenhorst, 1807; *Hydroporus halensis* var. *ibericus* Régimbart, 1901; *Dytiscus nubilus* Gmelin, 1790; *Scarodytes halensis* var. *reticulosus* Falkenström, 1939

Distribution in Turkey

Aksaray, Ankara, Antalya, Artvin, Bursa, Erzurum, Eskişehir, Gümüşhane, Isparta, İçel, İzmir, Kayseri, Van, Trabzon, Yozgat (Zimmermann 1933; İenistea 1978; Franciscolo 1979; Guéorguiev 1981; Darilmaz and Kiyak 2006; Kiyak et al. 2007; Erman et al. 2007; Erman and Erman 2008; Karaman et al. 2008).

Scarodytes malickyi Wewalka, 1977

Distribution in Turkey

Muş (Wewalka 1977; İenistea 1978).

Genus: *Stictotarsus* Zimmermann, 1919
Stictotarsus griseostriatus (De Geer, 1774)

Synonyms

Dytiscus griseostriatus De Geer, 1774; *Hydroporus catascopium* Say, 1823; *Hydroporus coloradensis* Fall, 1923; *Hydroporus interruptus* Say, 1830; *Deronectes maritimus* Helliesen, 1890; *Hydroporus mathiasi* Hatch, 1933; *Hydroporus griseostriatus* var. *nigrescens* Favre, 1890; *Hydroporus griseostriatus* var. *obscurus* Della Beffa, 1931; *Deronectes griseostriatus* var. *palaestinus* Baudi di Selve, 1894; *Hydroporus parallelus* Say, 1823; *Hydroporus piochardi* Régimbart, 1878; *Deronectes prosternalis* Sharp,

1882; *Hyphydrus quadristriatus* Eschscholtz, 1823; *Deronectes griseostriatus strandi* Brinck, 1943; *Deronectes suffusus* Sharp, 1882

Distribution in Turkey

Erzurum, Rize, Van Lake (Guéorguiev 1981; Erman et al. 2007; Erman and Erman 2008).

Stictotarsus riberae Dutton and Angus, 2007

Distribution in Turkey

Düzce (Dutton and Angus 2007).

Genus ***Hydrovatus*** Motschulsky, 1853

Hydrovatus cuspidatus (Kunze, 1818)

Synonyms

Hyphydrus cuspidatus Kunze, 1818; *Hydrovatus maculatus* Sharp, 1882; *Hydrovatus maculosus* Zimmermann, 1919; *Hydrovatus simplex* Sharp, 1882

Distribution in Turkey

Afyon, Antalya, Kayseri, Samsun, Toros Mountains (Guéorguiev 1981; Özemsi and Önder 1988; Fery 2001; İncekara et al. 2009).

Tribe ***Hygrotini*** Portevin, 1929

Genus ***Herophydrus*** Sharp, 1882

Herophydrus cleopatrae (Peyron, 1858)

Synonyms

Hydroporus cleopatrae Peyron, 1858; *Herophydrus galileae* Wewalka, 1984; *Hygrotus gouini* Guignot, 1953

Distribution in Turkey

Adana, Antalya, İçel, Muğla (Zimmermann 1920; Guéorguiev 1981; Fery 2001).

Herophydrus musicus (Klug, 1834)

Synonyms

Hydroporus musicus Klug, 1834; *Hydroporus fractilinea* Solsky, 1874; *Coelambus interruptus* Sharp, 1882; *Hygrotus alei* Abdul-Karim and Ali, 1986

Distribution in Turkey

No locality data (Guéorguiev 1981).

Genus *Hygrotus* Stephens, 1828
Subgenus *Coelambus* Thomson, 1860
Hygrotus ahmeti Hájek, Fery and Erman, 2005

Distribution in Turkey

Erzurum (Hájek et al. 2005; Erman et al. 2007).

Notes

This species is endemic to Turkey.

Hygrotus armeniacus (Zaitzev, 1927)

Synonyms

Coelambus armeniacus Zaitzev, 1927

Distribution in Turkey

Artvin, Erzurum, Kars (Ienistea 1978; Guéorguiev 1981; Hájek et al. 2005; Erman et al. 2007; Erman and Erman 2008).

Hygrotus confluens (Fabricius, 1787)

Synonyms

Dytiscus confluens Fabricius, 1787

Distribution in Turkey

Adana, Afyon, Ankara, Bolu, Erzurum, Eskişehir, Isparta, İçel, İzmir, Kayseri, Konya (Franciscolo 1979; Guéorguiev 1981; Hájek et al. 2005; Erman et al. 2007).

Hygrotus enneagrammus (Ahrens, 1833)

Synonyms

Hydroporus enneagrammus Ahrens, 1833; *Hydroporus blandus* Germar, 1836; *Coelambus puncticeps* Seidlitz, 1887; *Hydroporus tauricus* Motschulsky, 1860

Distribution in Turkey

Tuzgölü Lake (Guéorguiev 1981; Hájek et al. 2005).

Hygrotus impressopunctatus (Schaller, 1783)

Synonyms

Dytiscus impressopunctatus Schaller, 1783; *Dytiscus alternans* Gravenhorst, 1807; *Hydroporus similis* Kirby, 1837; *Hydroporus decemlineatus* Mannerheim, 1853;

Dytiscus flavicans Gmelin, 1790; *Dytiscus lineatus* O.F. Müller, 1776; *Hyphydrus lineellus* Gyllenhal, 1808; *Coelambus chinensis* var. *opacus* Falkenström, 1932; *Dytiscus ovalis* Thunberg, 1784; *Dytiscus picipes* Fabricius, 1787; *Dytiscus punctatus* Marsham, 1802; *Coelambus roborovskii* Zaitzev, 1953; *Coelambus hiurai* Satô, 1972

Distribution in Turkey

Erzurum, Konya (Zimmermann 1920; Bertrand 1928; Franciscolo 1979; Guéorguiev 1981; Hájek et al. 2005; Erman et al. 2007).

***Hygrotus lernaeus* (Schaum, 1857)**

Synonyms

Hydroporus lernaeus Schaum, 1857

Distribution in Turkey

Adana, Ankara, Antalya, Aydın, Diyarbakır, Elazığ, Erzurum, Eskişehir, Muğla, Kayseri, Kocaeli, Konya, Niğde, Samsun, Sivas, Van, Yozgat (Guéorguiev 1968, 1981; Ienistea 1978; Franciscolo 1979; Fery et al. 2005; Hájek et al. 2005; Erman et al. 2007).

***Hygrotus marklini* (Gyllenhal, 1813)**

Synonyms

Hyphydrus marklini Gyllenhal, 1813; *Hydroporus astur* Sharp, 1882; *Coelambus awajewi* Jakovlev, 1899; *Coelambus canadensis* Fall, 1919; *Hydroporus lutzi* Reitter, 1908; *Hydroporus mistellus* Marseul, 1882; *Hydroporus mixtus* Fischer von Waldheim, 1829; *Hydroporus pallens* Aubé, 1838; *Hydroporus steppensis* Branden, 1885; *Coelambus virgo* Fall, 1919

Distribution in Turkey

Erzurum (Guéorguiev 1981; Hájek et al. 2005; Erman et al. 2007).

***Hygrotus pallidulus* (Aubé, 1850)**

Synonyms

Hydroporus pallidulus Aubé, 1850; *Hydroporus fulviventris* Costa, 1883

Distribution in Turkey

İçel, Konya (Guéorguiev 1981; Hájek et al. 2005).

Hygrotus parallelogrammus (Ahrens, 1812)

Synonyms

Dytiscus parallelogrammus Ahrens, 1812; *Hyphydrus consobrinus* Kunze, 1818; *Coelambus distinctus* Feng, 1936; *Coelambus kaszabi* Guéorguiev, 1970; *Hydroporus punctum* Gebler, 1829

Distribution in Turkey

Afyon, Ankara, Erzurum, Konya, Kütahya, Samsun, Tuzgözü, Toros Mountains (Guéorguiev 1981; Hájek et al. 2005; Erman et al. 2007; İncekara et al. 2009).

Hygrotus saginatus (Schaum, 1857)

Synonyms

Hydroporus saginatus Schaum, 1857; *Coelambus elevatus* Sharp, 1882; *Hydroporus mulsanti* Peyron, 1858

Distribution in Turkey

Antalya, Hatay, İçel, Ordu, Toros Mountains (Zimmermann 1920, 1930; Ienistea 1978; Guéorguiev 1981; Fery 1992, 2003; Hájek et al. 2005).

Subgenus ***Hygrotus*** Stephens, 1828

Hygrotus inaequalis (Fabricius, 1777)

Synonyms: *Dytiscus inaequalis* Fabricius, 1777; *Hygrotus inaequalis* var. *dalmatinus* Zimmermann, 1915; *Hygrotus inaequalis* var. *fasciatus* Dalla Torre, 1877; *Hydroporus minor* Costa, 1847; *Dytiscus parvulus* Fabricius, 1792; *Hygrotus inaequalis* var. *uhagonii* Seidlitz, 1887 *Hygrotus inaequalis hokkaidensis* Satô, 1972

Distribution in Turkey

Afyon, Artvin, Bolu, Erzurum, Isparta, Konya, Manisa, Samsun (Guignot 1947; Balfour-Browne 1963; Franciscolo 1979; Guéorguiev 1981; Hájek et al. 2005; Erman et al. 2007; Erman and Erman 2008; İncekara et al. 2009).

Tribe **Hyphydrini** Sharp, 1882

Genus ***Hyphydrus*** Illiger, 1802

Hyphydrus anatolicus Guignot, 1957

Synonyms

Hyphydrus carrarai Sanfilippo, 1963

Distribution in Turkey

Ankara (Guéorguiev 1981; Bistrom 1982).

Hyphydrus ovatus (Linnaeus, 1761)

Synonyms

Dytiscus ovatus Linnaeus, 1761; *Hyphydrus fabricii* Cristofori, 1832; *Dytiscus ferrugineus* Linnaeus, 1767; *Dytiscus gibbus* Fabricius, 1777; *Dytiscus grossus* O.F. Müller, 1776; *Dytiscus ovalis* Illiger, 1798; *Dytiscus sphaericus* DeGeer, 1774; *Hyphydrus variegatus* Stephens, 1828

Distribution in Turkey

Amasya, Bolu, Erzurum, Samsun (Balfour-Browne 1963; Franciscolo 1979; Guéorguiev 1981; Bistrom 1982; Erman et al. 2007; İncekara et al. 2009).

Subfamily **LACCOPHILINAE** Gistel, 1856

Tribe **Laccophilini** Gistel, 1856

Genus ***Laccophilus*** Leach, 1815

Laccophilus hyalinus hyalinus (De Geer, 1774)

Synonyms

Dytiscus hyalinus De Geer, 1774; *Laccophilus hyalinus* var. *cyprioticus* Mouchamps, 1956; *Dytiscus hyalinus* Marsham, 1802; *Laccophilus inflatus* Wollaston, 1864; *Dytiscus interruptus* Panzer, 1795; *Laccophilus kusteri* Marseul, 1866; *Dytiscus marmoratus* Geoffroy, 1785; *Dytiscus marmoreus* Olivier, 1795; *Laccophilus pictus* Küster, 1851; *Laccophilus testaceus* Aubé, 1837

Distribution in Turkey

Adana, Antalya, Artvin, Aydın, Bolu, Burdur, Erzurum, Isparta, İçel, İzmir, Kars, Kırşehir, Kilis, Konya, Manisa, Trabzon (Zimmermann 1920, 1930; Zaitsev 1972; İenistea 1978; Franciscolo 1979; Guéorguiev 1981; Darılmaz and Kıyak 2006; Kıyak et al. 2007; Erman et al. 2007; Erman and Erman 2008; Karaman et al. 2008).

Laccophilus minutus (Linnaeus, 1758)

Synonyms

Dytiscus minutus Linnaeus, 1758; *Dyticus cimicoides* O.F. Müller, 1776; *Dyticus gibbus* Gmelin, 1790; *Dyticus gilvus* O.F. Müller, 1776; *Dyticus melanophthalmos* Geoffroy, 1785; *Dyticus obscurus* Panzer, 1795; *Laccophilus minutus* f. *striatus* Depoli, 1930; *Dyticus variolosus* Herbst, 1784; *Dyticus virescens* Brahm, 1790

Distribution in Turkey

Afyon, Aksaray, Ankara, Antalya, Artvin, Aydın, Balıkesir, Bolu, Burdur, Bursa, Erzurum, Gümüşhane, Isparta, İzmir, Konya, Kayseri, Manisa, Rize, Samsun, Sinop, Sivas, Trabzon, Toros Mountains (Zimmermann 1920, 1930; Zaitsev 1972; İenistea 1978; Franciscolo 1979; Guéorguiev 1981; Darılmaz and Kıyak 2006; Kıyak et al. 2007; Erman et al. 2007; Erman and Erman 2008; Karaman et al. 2008; İncekara et al. 2009).

Laccophilus poecilus Klug, 1834

Synonyms

Laccophilus variegatus var. *latior* Pic, 1896; *Laccophilus variegatus* var. *parumpunctatus* O.Schneider, 1903; *Laccophilus ponticus* Sharp, 1882; *Dytiscus variegatus* Germar and Kaulfuss, 1816

Distribution in Turkey

Adana, Afyon, Antalya, Aydın, Bolu, Erzurum, Isparta, İzmir, Kayseri, Konya, Manisa, Rize, Samsun (Franciscolo 1979; Guéorguiev 1981; Özemsi and Önder 1988; Fery 2001; Kiyak et al. 2007; Erman et al. 2007; Erman and Erman 2008; İncekara et al. 2009).

Doubtful records

Family **GYRINIDAE**

Dineutus grandis (Klug, 1834)

This species was recorded by Guéorguiev (1981) from Anatolia. Probably mislabelling, the species lives only in the region of North Africa (Mazzoldi 2003).

Family **NOTERIDAE**

Canthyrus notula (Erichson, 1843)

This species was recorded by Guéorguiev (1981) from Anatolia. Probably mislabelling, the species lives only in the region of Africa (Nilsson 2003a).

Family **DYTISCIDAE**

Ilybius hulae (Wewalka, 1984)

Nilsson (2003a) listed *I. hulae* from Israel, Syria and Turkey. It was collected in North Israel (Wewalka 1984). The note of Nilsson (2003a) for Syria and Turkey is erroneous because *I. hulae* has not yet been found in Syria and Turkey.

Scarodytes margaliti Wewalka, 1977

Nilsson (2003a) listed *S. margaliti* from Israel, Syria and Turkey. *Scarodytes margaliti* was collected in Israel (Golan) (Wewalka 1977). The note of Nilsson (2003a) for Syria and Turkey is erroneous because *S. margaliti* has not yet been found in Syria and Turkey.

Rhantus frontalis (Marsham, 1802)

Dytiscus circumcinctus Ahrens, 1811

Dytiscus thianschanicus (Gschwendtner, 1923)

Hydaticus grammicus (Germar, 1827)

Hydroglyphus angularis (Klug, 1834)
Hydroporus sabaudus sabaudus Fauvel, 1865
Hydrovatus acuminatus Motschulsky, 1859
Methles spinosus Sharp, 1882
Hydroporus angustatus Sturm, 1835
Hydroporus dobrogeanus Ienișteea, 1962

In addition, Nilsson (2003a, 2007) listed the species above as having distributions in Turkey. We have not been able to verify the literature records of this species from Turkey.

Comparison with Adepagous water beetle faunas of other zoogeographical areas

The adepagous water beetles in Turkey include 167 species and subspecies of which 17 are endemic to Turkey. Comparisons between the numbers of species of the beetles in Turkey, Greece, Bulgaria, Syria, Israel, Germany, France and Italy are presented in Table 1 and in Figure 1 as a diagram with a species–area plot for these particular regions. Species numbers, even if accurately estimated, are determined by many factors besides area, including latitude, climate, topography (resulting in habitat diversity), aquatic habitats and geological and biological history of the area (including the impact of Pleistocene glaciations and the degree and duration of isolation from other areas).

As a consequence, we will not attempt to explain Figure 1 in detail, but will point out that Turkey's water beetle fauna is comparable in size, for its land area, to those of a diversity of areas. This is quite striking in view of Turkey's much longer isolation from other lands (compared with the other areas in Table 1 and Figure 1), which perhaps explains the absence of several major lineages from Turkey. The tremendous topographic, climatic and aquatic habitat diversity of Turkey could certainly support wide species diversity. Also the Turkish water beetle fauna has not been thoroughly investigated previously.

Within the Palearctic Region, the Mediterranean countries and Anatolia are to be regarded as biodiversity hotspots, at least for certain families (Jäch and Balke 2008).

Table 1. Comparison of land areas and numbers of species of beetles for several parts of the world.

Zoogeographical area	Land area (km ²)	Number of spp.	Selected references
Turkey	783,500	167	This study
Greece	131,990	127	Löbl and Smetana 2003; Nilsson 2007
Bulgaria	110,910	135	Löbl and Smetana 2003; Nilsson 2007
Syria	185,180	81	Löbl and Smetana 2003; Nilsson 2007
Israel	20,770	75	Löbl and Smetana 2003; Nilsson 2007
Germany	357,021	180	Löbl and Smetana 2003; Nilsson 2007
France	674,843	237	Löbl and Smetana 2003; Nilsson 2007
Italy	301,318	234	Löbl and Smetana 2003; Nilsson 2007

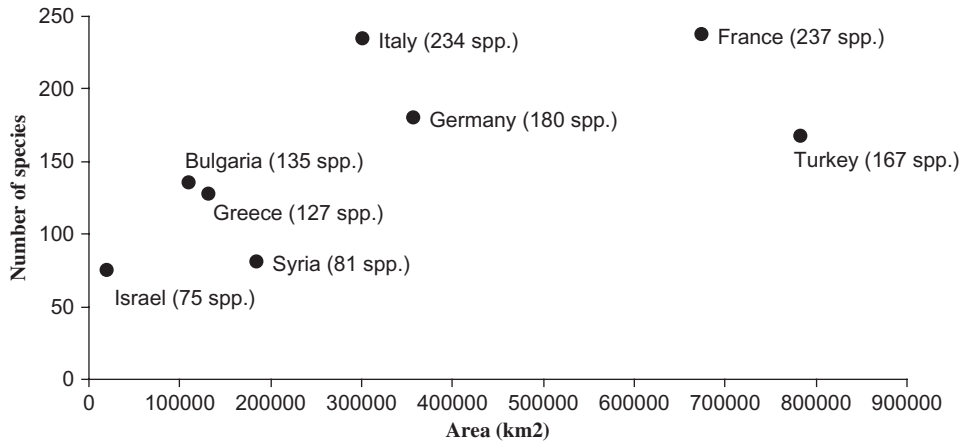


Figure 1. Numbers of species of beetles occurring in geographical areas in Table 1 versus approximate land areas.

In Turkey, a large country with distinctly different geographical regions and different climates, the number of water beetle species must be expected to be much higher than has been recorded so far. New intensive studies of these insects are suggested.

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Appendix 1

Summary of changes: 1. Changed taxonomic status; 2. Synonymic species name; 3. Species not mentioned in Guéorguiev's work; 4. Species not occurring in Turkey.

Species and names of actual list	1	2	3	4	Guéorguiev's species and names
Gyrinidae					
<i>Orectochilus villosus involvens</i> Faldermann, 1836	*				<i>Orectochilus involvens</i> Faldermann, 1836
<i>Dineutus grandis</i> Klug, 1834				*	
Haliplidae					
<i>Haliplus heydeni</i> Wehncke, 1875				*	
<i>Haliplus sibiricus</i> Motschulsky, 1860				*	
<i>Haliplus dalmatinus</i> J. Müller, 1900				*	
<i>Haliplus flavicollis</i> Sturm, 1834				*	
<i>Haliplus kulleri</i> Vondel, 1988				*	
<i>Haliplus maculatus</i> Motschulsky, 1860				*	
<i>Peltodytes rotundatus</i> (Aubé, 1836)	*				<i>Peltodytes rotundatus conifer</i> (Seidlitz, 1887)
Noteridae					
<i>Canthydrus diophthalmus</i> (Reiche and Saulcy, 1855)				*	
<i>Canthydrus notula</i> (Erichson, 1843)				*	
Dytiscidae					
<i>Agabus bergi</i> Zaitzev, 1913				*	
<i>Agabus coxalis schmidti</i> Zaitzev, 1913				*	
<i>Agabus lapponicus</i> (Thomson, 1867)				*	
<i>Agabus faldermanni</i> Zaitzev, 1927				*	<i>Agabus palaestinus</i> Zimmermann, 1934
<i>Ilybius chalconatus</i> (Panzer, 1796)	*				<i>Agabus chalconatus</i> (Panzer, 1796)
<i>Ilybius jaechi</i> (Fery and Nilsson, 1993)				*	
<i>Ilybius satunini</i> (Zaitzev, 1913)				*	
<i>Ilybius wewalkai</i> (Fery and Nilsson, 1993)				*	
<i>Rhantus frontalis</i> (Marshall, 1802)				*	
<i>Liopterus haemorrhoidalis</i> (Fabricius, 1787)	*				<i>Copelatus haemorrhoidalis</i> (Fabricius, 1787)
<i>Cybister tripunctatus lateralis</i> (Fabricius, 1798)	*	*			<i>Cybister gotschii</i> Hochhuth, 1846
<i>Cybister lateralimarginalis torquatus</i> (Fischer von Waldheim, 1829)	*				<i>Cybister lateralimarginalis</i> (DeGeer, 1774)
<i>Dytiscus circumcinctus</i> Ahrens, 1811				*	
<i>Dytiscus thianschanicus</i> (Gschwendtner, 1923)				*	
<i>Eretes griseus</i> (Fabricius, 1781)				*	
<i>Hydaticus grammicus</i> (Germar, 1827)				*	
<i>Bidessus calabricus</i> Guignot, 1957				*	
<i>Bidessus saucius</i> (Desbrochers des Loges, 1871)				*	
<i>Bidessus unistriatus</i> (Goeze, 1777)				*	
<i>Hydroglyphus angularis</i> (Klug, 1834)				*	

(Continued)

Appendix 1 (Continued)

Species and names of actual list	1	2	3	4	Guéorguiev's species and names
<i>Hydroglyphus confusus</i> (Klug, 1834)	*				<i>Guignotus confusus</i> (Klug, 1834)
<i>Hydroglyphus geminus</i> (Fabricius, 1792)	*	*			<i>Guignotus pusillus</i> (Fabricius, 1792)
<i>Hydroglyphus signatellus</i> (Klug, 1834)	*				<i>Guignotus signatellus</i> (Klug, 1834)
<i>Deronectes evelynae</i> Fery and Hosseinie, 1998				*	
<i>Deronectes hakkariensis</i> Wewalka, 1989				*	
<i>Deronectes hebaueri</i> Fery and Hosseinie, 1998				*	
<i>Deronectes jaechi</i> Wewalka, 1989				*	
<i>Deronectes kinzelbachi</i> Fery and Hosseinie, 1998				*	
<i>Deronectes latus</i> Stephens, 1829				*	
<i>Deronectes riberai</i> Fery and Hosseinie, 1998				*	
<i>Deronectes toledo</i> Fery, Erman and Hosseinie, 2001				*	
<i>Deronectes witzgalli</i> Fery and Brancucci, 1997				*	
<i>Graptodytes bilineatus</i> (Sturm, 1835)				*	
<i>Graptodytes flavipes</i> (Olivier, 1795)		*			<i>Graptodytes concinnus</i> (Stephens, 1835)
<i>Graptodytes sedilloti phrygius</i> Guignot, 1942	*	*			<i>Graptodytes phrygius</i> Guignot, 1942
<i>Graptodytes veterator behningi</i> Zaitzev, 1927	*				<i>Graptodytes veterator</i> Zimmermann, 1918
<i>Hydroporus askalensis</i> Wewalka, 1992				*	
<i>Hydroporus cantabricus</i> Sharp, 1882				*	
<i>Hydroporus discretus</i> Fairmaire and Brisout, 1859	*				<i>Hydroporus discretus ponticus</i> Zaitzev, 1927
<i>Hydroporus erzurumensis</i> Erman and Fery, 2000				*	
<i>Hydroporus foveolatus</i> Heer, 1839				*	
<i>Hydroporus hebaueri</i> Hendrich, 1990				*	
<i>Hydroporus jurjurensis</i> Régimbart, 1895				*	
<i>Hydroporus kasyi</i> Wewalka, 1984				*	
<i>Hydroporus libanus</i> Régimbart, 1901				*	
<i>Hydroporus neclae</i> Erman and Fery, 2006				*	
<i>Hydroporus nigellus</i> Mannerheim, 1853				*	
<i>Hydroporus sabaudus sabaudus</i> Fauvel, 1865				*	
<i>Hydroporus thracicus</i> Guéorguiev, 1966				*	
<i>Hydroporus transgrediens</i> Gschwendtner, 1923				*	
<i>Hydroporus tristis</i> Paykull, 1798				*	
<i>Nebrioporus airumlus</i> (Kolenati, 1845)	*				<i>Potamonectes airumlus</i> (Kolenati, 1845)
<i>Nebrioporus clarkii</i> (Wollaston, 1862)	*				<i>Potamonectes clarkii</i> (Wollaston, 1862)

(Continued)

Appendix 1 (Continued)

Species and names of actual list	1	2	3	4	Guéorguiev's species and names
<i>Nebrioporus laeiventris</i> (Reiche and Saulcy, 1855)	*				<i>Potamonectes laeiventris</i> (Reiche and Saulcy, 1855)
<i>Nebrioporus luctuosus</i> (Aubé, 1838)	*				<i>Potamonectes luctuosus</i> (Aubé, 1838)
<i>Nebrioporus suavis</i> (Sharp, 1882)	*				<i>Potamonectes suavis</i> (Sharp, 1882)
<i>Nebrioporus turca</i> (Seidlitz, 1887)	*				<i>Potamonectes turca</i> (Seidlitz, 1887)
<i>Nebrioporus ceresyi</i> (Aubé, 1838)				*	
<i>Oreodytes davisii davisii</i> (Curtis, 1831)				*	
<i>Oreodytes septentrionalis</i> (Gyllenhal, 1826)				*	
<i>Scarodytes malickyi</i> Wewalka, 1977				*	
<i>Scarodytes margaliti</i> Wewalka, 1977				*	
<i>Stictotarsus griseostriatus</i> (DeGeer, 1774)	*				<i>Potamonectes griseostriatus</i> (DeGeer, 1774)
<i>Stictotarsus riberae</i> Dutton and Angus, 2007				*	
<i>Hydrovatus acuminatus</i> (Motschulsky, 1859)				*	
<i>Herophydrus cleopatrae</i> (Peyron, 1858)	*	*			<i>Hygrotus gouini</i> Guignot, 1953
<i>Hygrotus ahmeti</i> Hájek, Fery and Erman, 2005				*	
<i>Hygrotus armeniacus</i> (Zaitzev, 1927)	*				<i>Coelambus armeniacus</i> (Zaitzev, 1927)
<i>Hygrotus confluens</i> (Fabricius, 1787)	*				<i>Coelambus confluens</i> (Fabricius, 1787)
<i>Hygrotus enneagrammus</i> (Ahrens, 1833)	*				<i>Coelambus enneagrammus</i> (Ahrens, 1833)
<i>Hygrotus impressopunctatus</i> (Schaller, 1783)	*				<i>Coelambus impressopunctatus</i> (Schaller, 1783)
<i>Hygrotus lernaeus</i> (Schaum, 1857)	*				<i>Coelambus lernaeus</i> (Schaum, 1857)
<i>Hygrotus marklini</i> (Gyllenhal, 1813)	*				<i>Coelambus marklini</i> (Gyllenhal, 1813)
<i>Hygrotus pallidulus</i> (Aubé, 1850)	*				<i>Coelambus pallidulus</i> (Aubé, 1850)
<i>Hygrotus parallellogrammus</i> (Ahrens, 1812)	*				<i>Coelambus parallellogrammus</i> (Ahrens, 1812)
<i>Hygrotus saginatus</i> (Schaum, 1857)	*				<i>Coelambus saginatus</i> (Schaum, 1857)
<i>Methles spinosus</i> Sharp, 1882				*	
<i>Laccophilus poecilus</i> (Klug, 1834)		*			<i>Laccophilus variegatus</i> (Klug, 1834)