An updated checklist of the water beetles of Montenegro

(Coleoptera, Hydradephaga)

Kevin Scheers


During a short collecting trip to Montenegro in 2014, 26 locations were sampled and 692 specimens belonging to 45 species of water beetles were collected. The following species are recorded for the first time from Montenegro: Haliplus dalmatinus J. Müller, 1900, Haliplus heydeni Wehncke, 1875, Haliplus laminatus (Schaller, 1783), Hydroporus erythrocephalus (Linnaeus, 1758), Hyphydrus anatolicus (Guignot, 1957), Melanodytes pustulatus (Rossi, 1792) and Rhan­tus bistriatus (Bergsträsser, 1778). The addition of these seven species brings the total of Hydradephaga known from Montenegro to 91 species. The new records are presented and an updated checklist of the Hydradephaga of Montenegro is given.

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Introduction

The first data on the Hydradephaga of Montenegro were given by Guéorguiev (1971). In his catalogue on the water beetles of Yugoslavia he reported 61 species of Hydradephaga (6 Haliplidae, 1 Noteridae, 9 Gyrinidae and 45 Dytiscidae) from Montenegro. Pešić & Pavićević (2005) report new records of 19 species of Hydradephaga, five of which were new for Montenegro. Pešić 2008 gives a checklist of the diving beetles of Montenegro which contains 52 species of Dytiscidae and one species of Noteridae. Pavićević & Pešić 2010 gave the first record of Oreo­dytes septentrionalis (Gyllenhal, 1826) and later the same authors mentioned ten additional species of Dytiscidae for Montenegro and gave new records of 29 other species (Pavićević & Pešić 2011).

Material and methods

Water beetles were sampled at 26 locations, including both lentic and lotic habitats. The sampling took place between 9.VIII.2014 and 17.VIII.2014 and the locations are presented in Table 1 and in Figure 1. The coordinates of the sampling sites were obtained using a GPS (Garmin eTrex Vista HCx). The material was collected with a small sieve and a hydrobiological handnet. Traps were not used during this study. The material was sorted out in the field, preserved in ethylalcohol (Norvanol D) and determined with the aid of a binocular. After determination all the material was mounted and deposited in the collection of the author. The nomenclature follows Nilsson (2016) (Dytiscidae), Löbl & Smetana (2003) (Gyrinidae), Vondel (2005) (Haliplidae) and Nilsson (2011) (Noteridae). The checklist is ordered alphabetically by family, subfamily and species.

Results

At the 26 stations sampled a total of 692 specimens belonging to 45 species of Hydradephaga were collected. In total, seven species are recorded for the first time from Montenegro: Haliplus dalmatinus J. Müller, 1900, Haliplus heydeni Wehncke, 1875, Haliplus laminatus (Schaller, 1783), Hydroporus erythrocephalus (Linnaeus, 1758), Hyphydrus anatolicus (Guignot, 1957), Melanodytes pustulatus (Rossi, 1792) and Rhan­tus bistriatus (Bergsträsser, 1778).
Dytiscidae

Agabinae

Agabus biguttatus (Olivier, 1795)
Published records: Guéorguiev 1971, Pavičević & Pešić 2011.

Agabus bipustulatus (Linnaeus, 1767)
Published records: Guéorguiev 1971 (both as Agabus bipustulatus (Linnaeus, 1767) and A. solieri Aubé, 1836), Pavičević & Pešić 2005, Pavičević & Pešić 2011. New records: loc. 4 (1 specimen), loc. 6 (14 specimens), loc. 10 (1 specimen), loc. 12 (18 specimens), loc. 14 (10 specimens), loc. 24 (1 specimen).

Agabus conspersus (Marsham, 1802)
Published records: Guéorguiev 1971. Remarks: Although mentioned for Montenegro by Guéorguiev (1971) this species was not included in the previous checklist (Pešić 2008).

Agabus didymus (Olivier, 1795)
Published records: Guéorguiev 1971.

Table 1. Details of sampling sites.

<table>
<thead>
<tr>
<th>Locality</th>
<th>Geographic coordinates</th>
<th>Sampling site</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>loc. 1</td>
<td>N42°23.6’ E18°44.6’</td>
<td>Kotor, small semi-permanent pond with loamy substrate</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 2</td>
<td>N42°23.6’ E18°44.6’</td>
<td>depression in grassland temporary filled with rainwater</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 3</td>
<td>N42°33.7’ E18°42.9’</td>
<td>Solila, salt lake</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 4</td>
<td>N42°45.8’ E18°54.0’</td>
<td>Nikšić, shallow cattle pool with Eleocharis palustris</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 5</td>
<td>N42°45.7’ E18°53.1’</td>
<td>Nikšić, loamy quarry pit devoid of vegetation</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 6</td>
<td>N42°45.1’ E18°53.0’</td>
<td>Nikšić, patchy vegetated pools</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 7</td>
<td>N42°57.4’ E19°05.8’</td>
<td>Savnik, Bukovica stream, substrate of sand and gravel</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 8</td>
<td>N43°09.2’ E19°05.6’</td>
<td>Ivan Do, very small stream next to path</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 9</td>
<td>N43°09.2’ E19°05.4’</td>
<td>Ivan Do, stream</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 10</td>
<td>N43°09.4’ E19°04.8’</td>
<td>Zabljak, Zminje Jezero</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 11</td>
<td>N43°09.3’ E19°04.3’</td>
<td>Ivan Do, seepage next to dirt road at the edge of a forest</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 12</td>
<td>N43°06.2’ E19°01.2’</td>
<td>Ivan Do, small stream in coniferous forest</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 13</td>
<td>N43°05.6’ E19°09.0’</td>
<td>Zabljak, Riblje jezero</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 14</td>
<td>N43°05.7’ E19°09.1’</td>
<td>Zabljak, temporary pool on bare substratum</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 15</td>
<td>N42°48.6’ E18°55.5’</td>
<td>River Zeta, near Mokra Njiva</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 16</td>
<td>N42°23.7’ E18°44.6’</td>
<td>small semi-permanent pond with loamy substrate</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 17</td>
<td>N42°23.7’ E18°44.6’</td>
<td>loamy pool with a lot of garbage</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 18</td>
<td>N42°16.3’ E19°07.2’</td>
<td>Skadarško jezero, Lesendro</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 19</td>
<td>N42°20.0’ E19°12.4’</td>
<td>gravelpit near Vukovci</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 20</td>
<td>N42°19.9’ E19°12.4’</td>
<td>River Moraca near Vukovci</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 21</td>
<td>N42°19.9’ E19°12.4’</td>
<td>pool in riverbed, gravel with a thick layer of organic debris</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 22</td>
<td>N42°15.2’ E19°03.3’</td>
<td>Dupilo, stream Orahovštica</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 23</td>
<td>N42°15.2’ E19°03.3’</td>
<td>Dupilo, stream Orahovštica</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 24</td>
<td>N42°15.4’ E19°02.4’</td>
<td>Dupilo, small shaded stream</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 25</td>
<td>N42°15.2’ E19°02.3’</td>
<td>Dupilo, very small seepage next to path</td>
<td>lentic</td>
</tr>
<tr>
<td>loc. 26</td>
<td>N42°28.6’ E18°27.9’</td>
<td>Sutorina stream, substrate of gravel and stones</td>
<td>lentic</td>
</tr>
</tbody>
</table>
Remarks: Pavićević & Pešić (2011) erroneously mentioned this species as new to the fauna of Montenegro, as it was already mentioned by Guéorguiev (1971).

*Ilybius fenestratus* (Fabricius, 1781)
Published records: Guéorguiev 1971.

*Ilybius fuliginosus fuliginosus* (Fabricius, 1792)
Published records: Pavićević & Pešić 2011.
New records: loc. 12 (14 specimens), loc. 15 (12 specimens).

*Ilybius pseudoneglectus* (Franciscolo, 1972)
Published records: Pavićević & Pešić 2011.
New records: loc. 4 (1 specimen).

*Platambus maculatus* (Linnaeus, 1758)
New records: loc. 15 (9 specimens)

*Colymbetinae*

*Colymbetes fuscus* (Linnaeus, 1758)
Published records: Guéorguiev 1971.
New records: loc. 4 (2 specimens), loc. 6 (10 specimens).

*Melanodytes pustulatus* (Rossi, 1792)
New records: loc. 1 (1 specimen).
Remarks: New to the fauna of Montenegro. This very rare species was until now only recorded from seven countries in the Mediterranean basin. It was already known in the Balkan Peninsula from Croatia to the north and Albania and Greece south of Montenegro. Although this locality was sampled quite intensively twice during this survey, only one specimen could be found.

*Rhantus bistriatus* (Bergsträsser, 1778)
New records: loc. 4 (1 specimen).
Remarks: New to the fauna of Montenegro. A relatively widespread species in Europe. *R. bistriatus* was already known from most Balkan countries and the presence in Montenegro was to be expected.

*Rhantus suturalis* (W. S. Macleay, 1825)
Published records: Guéorguiev 1971.
New records: loc. 1 (1 specimen), loc. 2 (2 specimens), loc. 4 (9 specimens), loc. 5 (2 specimens), loc. 17 (3 specimens).

**Copelatinae**

*Liiopterus haemorrhoidalis* (Fabricius, 1787)
Published records: Pavićević & Pešić 2011.

**Dytiscinae**

*Aciulus sulcatus* (Linnaeus, 1758)

*Cybister lateralimarginalis lateralimarginalis* (De Geer, 1774)
New records: loc. 4 (7 specimens).

*Hydaticus circumcinctus* Ahrens, 1811
Published records: Pavićević & Pešić 2011.

*Hydaticus dimidiatus* Bergsträsser, 1778
Published records: Guéorguiev 1971, Pavićević & Pešić 2011.

*Hydaticus marginalis marginalis* Linnaeus, 1758
Published records: Guéorguiev 1971, Pešić 2008.
New records: loc. 14 (1 specimen).

*Hydaticus semisulcatus* O. F. Müller, 1776
Published records: Pešić & Pavićević 2005.

*Eretes griseus* (Fabricius, 1781)
Published records: Guéorguiev 1971 (as *Eretes sticticus* (Linnaeus, 1767)).
Remarks: Guéorguiev (1971) regarded *Eretes griseus* (Fabricius, 1781) as a synonym of *E. sticticus*. The more common species in the Balkan Peninsula is, however, *E. griseus*. Therefore the record most probably refers to *E. griseus*.

*Hydaticus transversalis transversalis* (Pontoppidan, 1763)
Published records: Guéorguiev 1971, Pavićević & Pešić 2011.

*Hydaticus leander* (Rossi, 1790)
Published records: Guéorguiev 1971.
New records: loc. 1 (10 specimens), loc. 16 (1 specimen), loc. 17 (6 specimens).

**Hydroporinae**

*Bidessus delicatus* (Schaum, 1844)
Published records: Guéorguiev 1971.
New records: loc. 21 (1 specimen).

*Bidessus exornatus* (Reiche & Saulcy, 1855)
Published records: Guéorguiev 1971.

*Bidessus muelleri* Zimmermann, 1927
Published records: Guéorguiev 1971, Pavićević & Pešić 2011.
New records: loc. 4 (10 specimens).

*Bidessus unistriatus* (Goeze, 1777)
Published records: Guéorguiev 1971.

*Boreonectes griseostriatus* (De Geer, 1774)
Published records: Guéorguiev 1971 (as *Potamonectes griseostriatus* (De Geer, 1774)), Pešić & Pavićević 2005 (as *Stictotarsus griseostriatus* (De Geer, 1774)).
Remarks: The species belongs to a species complex (see Dutton & Angus 2007 and Angus 2008, 2010a, 2010b), the true identity of the specimens in Montenegro is not certain. The only *Boreonectes* species known with certainty in the Balkan Peninsula are *B. macedonicus* (Guéorguiev, 1959) from Macedonia and *B. riberae* (Dutton & Angus, 2007) from Bulgaria.

*Deronectes latus* (Stephens, 1829)
Published records: Guéorguiev 1971, Pavićević & Pešić 2011.

*Deronectes moestus* *inconspectus* (Leprieur, 1876)

*Deronectes platynotus* *platynotus* (Germain, 1834)
Published records: Pavićević & Pešić 2011.

*Graptodytes flavipes* (Olivier, 1795)
Published records: Guéorguiev 1971.

*Graptodytes pictus* (Fabricius, 1787)
Published records: Guéorguiev 1971, Pavićević & Pešić 2011.
New records: loc. 21 (1 specimen).

*Graptodytes veterator* *veterator* (Zimmermann, 1918)
New records: loc. 18 (2 specimens).

*Hydroglyphus geminus* (Fabricius, 1792)
Published records: Guéorguiev 1971 (as *Guignotus pusillus* (Fabricius, 1781)), Fery & Št’ ašt’ ný 2007 and Pavićević & Pešić 2011.
New records: loc. 1 (25 specimens), loc. 2 (14 specimens), loc. 3 (1 specimen), loc. 4 (11 specimens), loc. 5 (32 specimens), loc. 6 (2 specimens), loc. 12 (1 specimen).
Hydroglyphus signatellus (Klug, 1834)  
Published records: Guéorguiev 1971 (as Guignotus signatellus (Klug, 1834)).

Hydroorus discreto discretion Fairmaire & Brisout, 1859  

Hydroorus erythrocephalus (Linnaeus, 1758)  
New records: Pešić & Pavićević, 2005 (1 specimen).  
New records: loc. 14 (1 specimen).  
Remarks: New to the fauna of Montenegro.

Hydroorus ferrugineus Stephens, 1829  
Published records: Guéorguiev 1971.

Hydroorus hebaueri Hendrich, 1990  
Published records: Fery 1999.  
New records: loc. 1 (12 specimens), loc. 25 (4 specimens).  
Remarks: At loc. 1 the specimens were all taken at one point at the edge of the pond where a small spring was present, both on 09.VIII.2014 (7 specimens) and 15.VIII.2014 (5 specimens). Loc. 25 was a very small seepage on loamy substratum.

Hydroorus jonicus jonicus L. Miller, 1862  
Published records: Fery 2006, Pavićević & Pešić 2011.  
New records: loc. 4 (1 specimen), loc. 6 (16 specimens).

Hydroorus longulus Mulsant & Rey, 1861  
Published records: Guéorguiev 1971.  
Remarks: The record in Guéorguiev (1971) is probably due to Hydroorus dobrogeanus or H. hebaueri. There are no confirmed records of H. longulus in the Balkan Peninsula and the nearest records are those from Austria and Italy.

Hydroorus macedonicus Fery & Pešić, 2006  
Published records: Pavićević & Pešić 2011.  
Remarks: This species was only recently described by Fery & Pešić (2006) based on two males from Macedonia and was subsequently found in a spring in Montenegro (Pavićević & Pešić 2011).

Hydroorus palustris (Linnaeus, 1761)  
Published records: Guéorguiev 1971, Pavićević & Pešić 2011.  
New records: loc. 12 (1 specimen).

Hydroorus planus (Fabricius, 1782)  
Published records: Guéorguiev 1971.  
New records: loc. 12 (4 specimens), loc. 14 (15 specimens).  
Remarks: Although mentioned for Montenegro by Guéorguiev (1971) this species was not mentioned in the recent checklist (Pešić 2008).

Hydroorus pubescens (Gyllenhal, 1808)  
New records: loc. 5 (1 specimen), loc. 12 (7 specimens), loc. 14 (2 specimens), loc. 24 (1 specimen).

Hydroorus tessellatus (Drapiez, 1819)  
Published records: Guéorguiev 1971, Pavićević & Pešić 2011.  
New records: loc. 6 (10 specimens), loc. 12 (5 specimens), loc. 14 (1 specimen).

Hydroorus zimmermani J. Müller, 1926  
Published records: Guéorguiev 1971, Fery & Petrov 2005.  
New records: loc. 7 (1 specimen), loc. 10 (1 specimen), loc. 12 (2 specimens).  
Remarks: This species has a relatively small distribution occurring only in Slovenia, Croatia, Montenegro and Bosnia-Herzegovina.

Hygrothus confluens (Fabricius, 1787)  
Published records: Guéorguiev 1971 (as Coelambus confluens (Fabricius, 1787)).  
New records: loc. 14 (3 specimens).

Hygrothus inaequalis (Fabricius, 1777)  
Published records: Guéorguiev 1971, Pavićević & Pešić 2011.  
New records: loc. 4 (9 specimens), loc. 6 (12 specimens), loc. 13 (5 specimens), loc. 18 (2 specimens).

Hyphydrus anatolicus Guignot, 1957  
New records: loc. 1 (8 specimens).  
Remarks: New to the fauna of Montenegro. This species was already known from Croatia to the north and Albania to the south of Montenegro. Eight specimens where found on 09.VIII.2014. On a second sampling of this location on 15.VIII.2014 the species could not been found, even after an intensive search.

Hyphydrus aubei Ganglbauer, 1892  
Published records: Guéorguiev 1971.

Hyphydrus ovatus (Linnaeus, 1761)  
Published records: Pešić & Pavićević 2005.
New records:

Nebrioporus luctuosus (Aubé, 1838)
Published records: Pavičević & Pešić 2011.

Nebrioporus stearinus suavis (Sharp, 1882)
Published records: Guéorguiev 1971 (as Potamonecetes suavis (Sharp, 1882)), Ferry & Št’aštný 2007.

Oreodytes davisi davisi (Curtis, 1831)
New records: loc. 7 (20 specimens).

Oreodytes sannarkii sannarkii (C. R. Sahlberg, 1826)
New records: loc. 7 (36 specimens).

Oreodytes septentrionalis (Gyllenhal, 1826)

Porhydrus lineatus (Fabricius, 1775)
Published records: Guéorguiev 1971.

Scarodytes halensis (Fabricius, 1787)

Scarodytes savinensis savinensis (Zimmerman, 1933)
New records: loc. 12 (15 specimens), loc. 19 (1 specimen), loc. 20 (1 specimen), loc. 26 (1 specimen).

Laccophilinae

Laccophilus hyalinus (De Geer, 1774)
Published records: Guéorguiev 1971 (both as Laccophilus hyalinus (De Geer, 1774) and L. testaceus Aubé, 1837), Pešić & Pavičević 2005, Pavičević & Pešić 2011.
New records: loc. 15 (13 specimens), loc. 18 (2 specimens), loc. 21 (10 specimens), loc. 26 (1 specimen).

Laccophilus minutus (Linnaeus, 1758)
New records: loc. 1 (1 specimen), loc. 4 (16 specimens), loc. 6 (11 specimens), loc. 13 (3 specimens), loc. 14 (4 specimens), loc. 15 (1 specimen).

Laccophilus poecilus Klug, 1834
Published records: Guéorguiev 1971 (as Laccophilus variegatus (Germar, 1816)) and Pavičević & Pešić 2011.
New records: loc. 18 (12 specimens).

Gyrinidae

Gyrininae

Aulonogyrus striatus (Fabricius, 1792)
Published records: Guéorguiev 1971.

Gyrinus caspius Ménétriers, 1832
Published records: Guéorguiev 1971.
New records: loc. 7 (8 specimens).

Gyrinus cymbulus Erichson, 1837
Published records: Guéorguiev 1971.

Gyrinus dejani Brullé, 1832
Published records: Guéorguiev 1971.

Gyrinus distinctus Aubé, 1838
Published records: Guéorguiev 1971.

Gyrinus marinus Gyllenhal, 1808
Published records: Guéorguiev 1971.

Gyrinus substriatus Stephens, 1828
Published records: Guéorguiev 1971, Pešić & Pavičević 2005.

Gyrinus urinator Illiger, 1807
Published records: Guéorguiev 1971.

Orectochilus villosus (O. F. Müller, 1776)
Published records: Guéorguiev 1971.
New records: loc. 22 (7 specimens), loc. 23 (8 specimens).

Haliplidae

Brychius elevatus (Panzer, 1794)
Published records: Guéorguiev 1971, Pešić & Pavičević 2005.

Haliplus confinis Stephens, 1828
Published records: Guéorguiev 1971.

Haliplus dalmatinus J. Müller, 1900
New records: loc. 5 (15 specimens).
Remarks: New to the fauna of Montenegro.

Haliplus flavicollis Sturm, 1834
Published records: Guéorguiev 1971, Pešić & Pavičević 2005.

Haliplus heydeni Wehncke, 1875
New records: loc. 14 (9 specimens).
Remarks: New to the fauna of Montenegro.

Haliplus laminatus (Schaller, 1783)
New records: loc. 6 (26 specimens).
Remarks: New to the fauna of Montenegro.

Haliplus lineatocollis (Marsham, 1802)
Published records: Guéorguiev 1971.
New records: loc. 26 (1 specimen).
Halipus mucronatus Stephens, 1828
Published records: Guéorguiév 1971.

Halipus variegatus Sturm, 1834
Published records: Guéorguiév 1971.
New records: loc. 1 (2 specimens), loc. 5 (1 specimen).

Peltodytes caesus (Duftschmid, 1805)
Published records: Guéorguiév 1971, Pešič & Pavićević 2005.
New records: loc. 6 (1 specimen).

Peltodytes rotundatus (Aubé, 1836)
Published records: Pešič & Pavićević 2005.
New records: loc. 6 (10 specimens).

Noteridae

Noterinae

Noterus clavicorns (De Geer, 1774)
Published records: Guéorguiév 1971, Pešič 2008.
New records: loc. 4 (9 specimens), loc. 6 (5 specimens), loc. 18 (10 specimens).

Discussion and conclusion

The addition of these seven new species brings the total of Hydradephaga known from Montenegro on 91 species. The species list is however far from complete. There are at least a dozen of species expected to occur in this country that have not yet been recorded. Some of them are widespread species such as Hygrobia hermanni (Fabricius, 1775), Graphoderus austriacus (Sturm, 1834), G. cinereus (Linnaeus, 1758), Peltodytes bilineatus (Sturm, 1835), Hydroporus memnonius Nicolai, 1822, H. nigrita (Fabricius, 1792), Hydropterus cuspidatus Kunze, 1818 and Hygrotus impressopunctatus (Schaller, 1783), others are Mediterranean elements like Agabus dilatatus (Brunlé, 1832), Bidessus calabricus Guignot, 1957, Dytiscus pisanus Laporte de Castelnau, 1835, D. mutinensis Branden, 1885, Graphoderus ignotus (Mulsant & Rey, 1861), G. varius (Aubé, 1838), Hydroporus marginatus (Duftschmid, 1805), H. obsoletus Aubé, 1838 and Porhydrus genei (Aubé, 1838). Among these there are species of both lentic and lotic habitats. Furthermore brackish water bodies could yield the halobiont species Hygrotus parallelogrammus (Ahrens, 1812), H. saginatus (Schaum, 1857) and Nebriopus cerasyi (Aubé, 1838). All above mentioned species occur in the Balkan Peninsula both north and south of Montenegro and thus are expected to have a continued distribution. More research on Hydradephaga of Montenegro and other countries of the Balkan Peninsula is needed for a better understanding of the distribution of the European species and to detect biogeographical changes in the future.

Acknowledgements

The author would like to thank Anders Nilsson (University of Umeå, Sweden) for providing a copy of the Catalogus Faunae Jugoslaviae of Guéorguiév (1971) which proved to be very hard to find. Furthermore Bernhard van Vondel (Natuurhistorisch Museum Rotterdam, The Netherlands) is acknowledged for confirming the present status of certain species of Halipnidiae from Montenegro. Last but not least I would like to thank two anonymous reviewers for their valuable comments.

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Article: An updated checklist of the water beetles of Montenegro 205-212