

Malacofauna of the catchment area of Rusenski Lom River (North Bulgaria)

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Abstract. Freshwater and terrestrial molluscs were studied at the catchment area of Rusenski Lom River (North Bulgaria), and 121 species were found. Second records of *Bythiospeum iltchokolevi* Georgiev & Glöer, 2015, *Discus rotundatus* (Müller, 1774), and *Oxyloma dunkeri* (L. Pfeiffer, 1865) in Bulgaria were reported.

Key words: Gastropoda, Bivalvia, species diversity, Bulgaria, Rusenski Lom.

Introduction

Büttner (1928) reported the first data for the area, three mollusc species for the Rusenski Lom River at the city of Russe: *Theodoxus transversalis* (C. Pfeiffer, 1828), *Esperiana esperi* (A. Férussac, 1823), and *Esperiana daudebartii acicularis* (A. Férussac, 1823). Later *Gyraulus laevis* (Alder, 1838) was reported for the Danube at Russe (Angelov, 1960). Russev *et al.* (1987) in their hydrobiological study of Rusenski Lom River reported 17 species: *Unio tumidus* Retzius, 1788, *U. crassus* Philipsson, 1788, *Sphaerium* sp., *Pisidium* sp., *Theodoxus danubialis* (C. Pfeiffer, 1828), *Th. fluviatilis* (Linnaeus, 1758), *Th. transversalis* (C. Pfeiffer, 1828), *Esperiana esperi* (A. Férussac, 1823), *E. daudebartii acicularis* (A. Férussac, 1823), *Holandriana holandrii* (C. Pfeiffer, 1828), *Lithoglyphus naticoides* (C. Pfeiffer, 1828), *Valvata piscinalis* (O. F. Müller, 1774), *Galba truncatula* (O. F. Müller, 1774), *Radix auricularia* (Linnaeus, 1758), *Radix* sp., *Planorbis* sp., and *Physella acuta* (Draparnaud, 1805). Information for terrestrial gastropods from the region is scarce and concerning mainly the city of Russe. Petrbok (1941) reported the snail *Arianta arbustorum* (Linnaeus, 1758) from the region of Russe. Later for the same area were published *Aegopinella minor* (Stabile, 1864), *Monacha cartusiana* (O. F. Müller, 1774), *Xerolenta obvia* (Menke 1828) (Pinter & Pinter, 1970), *Bulgarica varnensis* (L. Pfeiffer, 1848) (Damjanov & Likharev 1975), and *Limax maximus* (Linnaeus, 1758) (Wiktor 1983). Nordsieck (2008) reported two more species from Tabachka village – *Alinda biplicata* (Montagu, 1803) and *Laciniaria plicata* (Draparnaud, 1801). Irikov & Georgiev (2008) reported the terrestrial species *Agardhiella truncatella* (L. Pfeiffer, 1841) from deposits of Rusenski Lom River. Subai (2011) revised their materials and reported *Agardhiella armata* (Clessin, 1887) and *Agardhiella parreyssii* (L. Pfeiffer, 1848) from the same area. Neubert (2014) reported *Helix albescens* Rossmässler, 1839 from Tabachka vill. area (I. Dedov Leg.).

Material and Methods

The study was carried out during 12 years period (from 2002 to 2014) at the catchment of Rusenski Lom River (Fig. 1). Snails were collected mostly by the first author. One sample was collected by D. Georgiev (04.07.2006, deposits of Beli Lom River near vill. Ivanovo), and one by I. Dedov (26.5.2007, NE-border of vill. Tabachka, the region of the village). The material was deposited in the collection of the second author. The species are arranged alphabetic. The abbreviation of the conservation status of the species is after Cuttelod et al. (2011). Abbreviation: CS - conservation status (from low to high extinction risk): NA – not applicable, LC – least concern, NT – near threatened, VU – vulnerable, EN – endangered. EM – endemics: BGE – Bulgarian endemic species, BLE – Balkan endemic species.



Fig. 1. Approximate position of the study area: the catchment of Rusenski Lom River.

Results

Class Bivalvia

Anodonta woodiana (Lea, 1834)

26.03.2011, fishponds at vill. Basarbovo; 25.04.2012, vill. Katselovo, fishpond, Yama area; CS – NA.

Corbicula fluminea (O. F. Müller, 1774)

13.07.2011, Russe at Liulyaka base; 11.05.2013, Rusenski Lom River at vill Basarbovo; 23.07.2013, Cherni Lom River near Murdova Leska gorge; CS – NA;

Dreissena polymorpha (Pallas, 1771)

13.07.2011, Russe at Liulyaka base; 11.05.2013, Rusenski Lom River at vill Basarbovo; CS – NA;

Musculium lacustre (Müller, 1774)

11.05.2013, Rusenski Lom River at vill Basarbovo; 12.11.2013, fishponds near vill. Stalpishte; 04.06.2014, Cherni Lom River at vill. Krepcha; CS – LC;

Pisidium amnicum (Müller, 1774)

16.03.2011, Rusenski Lom River at vil. Basarbovo; 23.07.2013, Cherni Lom River near Murdova Leska gorge; CS – LC;

Pisidium casertanum (Poli, 1791)

01.01.2012, Malko Selishte and Golyamo Selishte water sources near vill. Katselovo; 08.08.2012, water source at Beli Lom River, near vill. Pisanets; 13.09.2012, vill. Vlenik, Kiusara area, at water source, near the road to vill. Katselovo; 11.05.2013, Rusenski Lom River at vill. Basarbovo; CS – LC;

Pisidium moitessierianum (Paladilhe, 1866)

08.10.2013, spring on the bank of Cherni Lom River at vill. Pepelina; CS – LC;

Pisidium personatum Malm, 1855

09.03.2012, vill. Katselovo, "Startchi Krak" watersource; 21.04.2012, vill. Garchinovo, watersource; 21.04.2012, vill. Tserovets, watersource; 13.09.2012, water source on the hill near the fishponds of vill. Valenik; CS – LC;

Sphaerium rivicola (Lamarck, 1818)

16.06.2011, Cherni Lom River at vill. Cherven; 05.10.2011, Rusenski Lom River at Russe; 23.07.2013, Cherni Lom River near Murdova Leska gorge; CS – LC;

Unio crassus Philipsson, 1788

01.11.2010, Cherni Lom river at vill. Katselovo; 26.03.2011, Rusenski Lom River at vill. Basarbovo; 23.07.2013, Cherni Lom River near Murdova Leska gorge; CS – VU;

Unio tumidus Retzius, 1788

26.03.2011, Rusenski Lom River at vill. Basarbovo; CS – VU;

Class Gastropoda**Freshwater snails*****Acroloxus lacustris*** (Linnaeus, 1758)

12.11.2013, fishponds near vill. Stalpishte; CS – LC;

Anisus leucostoma (Millet, 1813)

13.07.2011, Russe at Liulyaka base; 06.11.2012, Cherni Lom River at vill. Krepcha; CS – LC;

Anisus septemgyratus (Rossmässler, 1835)

13.07.2011, Russe at Liulyaka base; 08.10.2013, spring on the bank of Cherni Lom River at vill. Pepelina;

Anisus spirorbis (Linnaeus, 1758)

02.11.2012, deposits of Cherni Lom River, "Varbovska Vodenitsa" area; 09.07.2014, Cherni Lom River at vill. Katselovo;

Bithynia tentaculata (Linnaeus, 1758)

13.07.2011, Russe at Liulyaka base; CS – LC;

Bythiospeum iltchokolevi Georgiev & Glöer, 2015

21.04.2012, vill. Tserovets, watersource; EM – BGE;

Remark: This is the second record of this species.

***Bythiospeum* sp.**

08.08.2012, water source at Beli Lom River, near vill. Pisanets; 13.09.2012, vill. Vlenik, Kiusara area, at water source, near the road to vill. Katselovo; 08.10.2013, spring on the bank of Cherni Lom River at vill. Pepelina;

Borysthenia naticina (Menke, 1845)

13.07.2011, Russe at Liulyaka base; 02.11.2012, Cherni Lom River at vill. Karan Varbovka; CS – LC;

Esperiana daudebartii acicularis (A. Férussac, 1823)

01.11.2010, Cherni Lom river at vill. Katselovo; 26.03.2011, Rusenski Lom River at vill. Basarbovo; 13.07.2011, Russe at Liulyaka base; 13.09.2012, vill. Vlenik, Kiusara area, at water source, near the road to vill. Katselovo; 23.07.2013, Cherni Lom River near Murdova Leska gorge; 13.10.2013, vill. Katselovo, "Lakanska Yama", lower fishpond of Ivan Kovacha; CS – LC;

Esperiana esperi (A. Férussac, 1823)

01.11.2010, Cherni Lom river at vill. Katselovo; 26.03.2011, Rusenski Lom River at vill. Basarbovo; 11.05.2013, Rusenski Lom River at vill. Basarbovo; 23.07.2013, Cherni Lom River near Murdova Leska gorge; CS – LC;

Ferrissia fragilis (Tryon 1863)

14.01.2014, Cherni Lom River, Mochura area near vill. Katselovo; 11.05.2013, Rusenski Lom River at vill Basarbovo;

Galba truncatula (O. F. Müller, 1774)

04.07.2006, deposits of Beli Lom River near vill. Ivanovo; 26.03.2011, fishponds at vill. Basarbovo; 21.04.2012, vill. Garchinovo, watersource; 02.11.2012, deposits of Cherni Lom River, "Varbovska Vodenitsa" area; 11.05.2013, Rusenski Lom River at vill Basarbovo; CS – LC;

cf. *Grossuana* sp.

01.01.2012, 17.09.2012, vill. Katselovo, "Panitchka" watersource; 13.09.2012, vill. Vlenik, Kiusara area, at water source, near the road to vill. Katselovo;

Gyraulus albus (O. F. Müller, 1774)

13.07.2011, Russe at Liulyaka base; 02.11.2012, Cherni Lom River at vill. Karan Varbovka; 12.11.2013, fishponds near vill. Stalpishte; CS – LC;

Gyraulus crista (Linnaeus, 1758)

04.06.2014, Cherni Lom River at vill. Krepcha; 09.07.2014, Cherni Lom River at vill. Katselovo; CS – LC;

Gyraulus laevis (Alder, 1838)

11.10.2012, Danube at Russe, Matey Island, shells; 08.10.2013, spring on the bank of Cherni Lom River at vill. Pepelina; CS – LC;

Holandriana holandrii (C. Pfeiffer, 1828)

13.07.2011, Russe at Liulyaka base; CS – LC;

Lithoglyphus naticoides (C. Pfeiffer, 1828)

26.03.2011, fishponds at vill. Basarbovo; 26.03.2011, Rusenski Lom River at vill. Basarbovo; 13.07.2011, Russe at Liulyaka base; 23.10.2012, water source at vill. Ostritsa; 11.05.2013, Rusenski Lom River at vill Basarbovo; 23.07.2013, Cherni Lom River near Murdova Leska gorge; CS – LC;

Lymnaea stagnalis (Linnaeus, 1758)

03.08.2012, Russe, GZ "Liulyaka", estuary of the canal, near the water catchment; 19.10.2012, Stalpishte area, the hills above the fishponds; 12.11.2013, fishponds near vill. Stalpishte; CS – LC;

Physella acuta (Draparnaud, 1805)

04.07.2006, deposits of Beli Lom River near vill. Ivanovo; 26.03.2011, fishponds at vill. Basarbovo; 26.03.2011, Rusenski Lom River at vill. Basarbovo; 02.11.2012, deposits of Cherni Lom River, "Varbovska Vodenitsa" area; 11.05.2013, Rusenski Lom River at vill Basarbovo; 13.07.2011, Russe at Liulyaka base; 13.10.2013, vill. Katselovo, "Lakanska Yama", lower fishpond of Ivan Kovacha; 12.11.2013, fishponds near vill. Stalpishte; CS – LC;

Planorbarius corneus (Linnaeus, 1758)

13.07.2011, Russe at Liulyaka base; 12.11.2013, fishponds at vill. Stalpishte; CS – LC;

Planorbis planorbis (Linnaeus, 1758)

26.03.2011, fishponds at vill. Basarbovo; 13.07.2011, Russe at Liulyaka base; 23.07.2013, Cherni Lom River near Murdova Leska gorge; 02.11.2012, deposits of Cherni Lom River, "Varbovska Vodenitsa" area; 12.11.2013, fishponds near vill. Stalpishte; CS – LC;

Radix auricularia (Linnaeus, 1758)

26.03.2011, fishponds at vill. Basarbovo; 13.10.2013, vill. Katselovo, "Lakanska Yama", lower fishpond of Ivan Kovacha; CS – LC;

Radix cf. balthica (Linnaeus, 1758)

26.03.2011, fishponds at vill. Basarbovo; 26.03.2011, Rusenski Lom River at vill. Basarbovo; CS – LC;

Segmentina nitida (O. F. Müller, 1774)

12.11.2013, fishponds near vill. Stalpishte; CS – LC;

Theodoxus danubialis (C. Pfeiffer, 1828)

01.11.2010, Cherni Lom river at vill. Katselovo; 26.03.2011, Rusenski Lom River at vill. Basarbovo; 16.06.2011, Cherni Lom River at vill. Cherven; 13.07.2011, Russe at Liulyaka base; 05.10.2011, Rusenski Lom River at Russe; 11.05.2013, Rusenski Lom River at vill. Basarbovo; 23.07.2013, Cherni Lom River near Murdova Leska gorge; CS – LC;

Theodoxus fluviatilis (Linnaeus, 1758)

13.07.2011, Russe at Liulyaka base; CS – LC;

Theodoxus transversalis (C. Pfeiffer, 1828)

26.03.2011 and 11.05.2013, Rusenski Lom River at vill. Basarbovo; 23.07.2013, Cherni Lom River near Murdova Leska gorge; CS – EN.

Valvata piscinalis (O. F. Müller, 1774)

13.07.2011, Russe at Liulyaka base; 06.11.2012, water source near vill. Garchinovo; 04.06.2014, Cherni Lom River at vill. Krepcha; CS – LC;

Viviparus acerosus (Bourguignat, 1862)

13.07.2011, Russe at Liulyaka base; CS – LC;

Viviparus viviparus (Linnaeus, 1758)

16.03.2011, Rusenski Lom River at vil. Basarbovo; 26.03.2011, Rusenski Lom River at vill. Basarbovo; 13.07.2011, Russe at Liulyaka base; CS – LC;

Terrestrial snails***Acanthinula aculeata*** (O. F. Müller, 1774)

18.03.2012, vill. Pepelina; 26.04.2012, vill. Karan Varbovka; 20.03.2013, vill. Krepcha; CS – LC;

Agardhiella armata (Clessin, 1887)

04.07.2006, deposits of Beli Lom River near vill. Ivanovo; 29.08.2011, vill. Katselovo; 29.09.2012, vill. Basarbovo; 02.11.2012, deposits of Cherni Lom River, “Varbovska Vodenitsa” area; CS – LC;

Remark: The specimens collected by D. Georgiev on 04.07.2006 were deposited in the coll. of Peter Subai, and identified by him (Subai, 2011);

Agardhiella parreyssii (L. Pfeiffer, 1848)

Reported for the region around Danube by (Subai, 2011); CS – LC , EM – BLE;

Alinda biplicata (Montagu, 1803)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 18.03.2012, Urum Punar area, under the rocks, near vill. Pepelina; 29.08.2012, vill. Nisovo, along Mali Lom River, between Golyam and Malak Nisovski monasteries; 10.09.2012, vill. Ostritsa, Kanarak dere, after Dzhambaza area;

Aegopinella minor (Stabile, 1864)

04.07.2006, deposits of Beli Lom River near vill. Ivanovo; 16.03.2011, rocky gorge, near the fishponds of vill. Basarbovo; 20.04.2011, vill. Katselovo, Gartchinovi terasi area; 29.08.2012, vill. Nisovo, along Mali Lom River, between Golyam and Malak Nisovski monasteries; 10.09.2012, vill. Ostritsa, Kanarak dere, after Dzhambaza area;

Arion subfuscus (Draparnaud, 1805)

25.04.2014, vill. Karan Varbovka; 09.05.2014, vill. Pepelina;

Arion silvaticus Lohmander, 1937

10.04.2012, vill. Katselovo; 20.03.2013, vill. Krepcha; 08.10.2013, vill. Pepelina; 09.05.2014, vill. Ostritsa;

Bulgarica varnensis (L. Pfeiffer, 1848)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 16.03.2011, rocky gorge, near the fishponds of vill. Basarbovo; 24.03.2012, vill. Ivanovo, above "Pismata" (nest of Egyptian vulture); 31.03.2012, sport base Liulyaka, Russe, near canals; 29.08.2012, vill. Nisovo, along Mali Lom River, between Golyam and Malak Nisovski monasteries; 19.10.2012, Stalpishte, the gorge going to Trastenik; EM – BLE;

Candidula rhabdotoides (A. J. Wagner, 1927)

13.07.2011, Russe, Liulyaka sport base; 18.03.2012, Urum Punar area, under the rocks, near vill. Pepelina; 13.09.2012, vill. Vlenik, Kiusara area, at water source, near the road to vill. Katselovo; CS – LC, EM – BLE;

Carpatica stussineri (A. J. Wagner, 1895)

31.03.2012, sport base Liulyaka, Russe, near canals;

Carychium minimum O. F. Müller, 1774

24.04.2011, vill. Katselovo; 19.10.12, vill. Stalpishte; 06.11.2012, vill. Krepcha; 23.07.2013, vill. Cherven;

Carychium tridentatum (Risso, 1826)

24.04.2011, vill. Katselovo; 29.09.2012, vill. Basarbovo; 19.10.12, vill. Stalpishte; 02.07.2013, Russe; 08.10.2013, vill. Pepelina; 12.05.2014, vill. Krepcha;

Cattania balcanica (Kobelt, 1876)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 06.02.2011, Russe, Liulyaka sport base; 16.03.2011, rocky gorge, near the fishponds of vill. Basarbovo; 05.10.2011, under a rock arc, Russe, at the big bridge above Rusenski Lom River; 18.03.2012, Urum Punar area, under the rocks, near vill. Pepelina; EM – BLE;

Cecilioides acicula (O. F. Müller, 1774)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 05.10.2011, under a rock arc, Russe, at the big bridge above Rusenski Lom River; 02.11.2012, deposits of Cherni Lom River, "Varbovska Vodenitsa" area;

Cecilioides jani (De Betta et Martinati, 1855)

31.03.2012, sport base Liulyaka, Russe, near canals;

Cepaea vindobonensis (Férussac, 1821)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 07.11.2010, vill. Basarbovo; 05.10.2011, under a rock arc, Russe, at the big bridge above Rusenski Lom River; 19.10.2012, Stalpishte, the gorge going to Trastenik; 02.03.2013, Russe; 13.06.2013, vill. Pisanets and vill. Tsar Kaloyan. CS – LC;

Cochlicopa lubrica (O. F. Müller, 1774)

04.07.2006, deposits of Beli Lom River near vill. Ivanovo; 13.09.2012, vill. Vlenik, Kiusara area, at water source, near the road to vill. Katselovo;

Cochlicopa lubricella (Porro, 1838)

23.10.2011, vill. Ostritsa; 18.03.2012, vill. Pepelina; 08.08.2012, vill. Pisanets; 13.06.2013, vill. Tsar Kaloyan; 23.07.2013, vill. Cherven; 19.11.2013, vill. Stalpishte; 20.12.2013, vill. Nisovo; 12.05.2014, vill. Nisovo;

Cochlicopa nitens (Gallenstein, 1852)

04.07.2006, deposits of Beli Lom River near vill. Ivanovo; 02.11.2012, deposits of Cherni Lom River, "Varbovska Vodenitsa" area;

Chondrina avenacea (Bruguière, 1792)

24.03.2012, vill. Ivanovo, above "Pismata" (nest of Egyptian vulture); 29.08.2012, vill. Nisovo, along Mali Lom River, between Golyam and Malak Nisovski monasteries; CS – LC;

Chondrula microtragus (Rossmässler, 1839)

04.07.2006, deposits of Beli Lom River near vill. Ivanovo; 26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 20.04.2011, vill. Katselovo, Gartchinovi terasi

area; 05.10.2011, under a rock arc, Russe, at the big bridge above Rusenski Lom River; 24.03.2012, vill. Ivanovo, above "Pismata" (nest of Egyptian vulture); 29.08.2012, vill. Nisovo, along Mali Lom River, between Golyam and Malak Nisovski monasteries; 19.10.2012, Stalpishte area, the hills above the fishponds; 19.10.2012, Stalpishte, the gorge going to Trastenik; CS – LC, EM – BLE;

Chondrula tridens (O. F. Müller, 1774)

04.07.2006, deposits of Beli Lom River near vill. Ivanovo; CS – NT;

Cochlodina laminata (Montagu, 1803)

16.03.2011, rocky gorge, near the fishponds of vill. Basarbovo; 20.04.2011, vill. Katselovo, Gartchinovi terasi area; 18.03.2012, Urum Punar area, under the rocks, near vill. Pepelina; 29.08.2012, vill. Nisovo, along Mali Lom River, between Golyam and Malak Nisovski monasteries; 10.09.2012, vill. Ostritsa, Kanarak dere, after Dzhabaza area;

Daudebardia brevipes (Draparnaud, 1805)

18.03.2012, vill. Pepelina; 06.04.2013, vill. Basarbovo; 04.06.2014, vill. Krepcha;

Daudebardia rufa (Draparnaud, 1805)

14.02.2011, vill. Katselovo; 26.03.2011, vill. Basarbovo; 18.03.2012, Urum Punar area, under the rocks, near vill. Pepelina; 26.04.2013, vill. Shirkovo; 23.07.2013, vill. Cherven; 21.10.2013, vill. Karan Varbovka; 27.03.2014, vill. Nisovo; 04.06.2014, vill. Krepcha;

Deroceras laeve (O. F. Müller, 1774)

20.04.2011, vill. Katselovo; 23.07.2013, vill. Cherven; 01.09.2013, vill. Ivanovo; 17.09.2013, Russe; 20.03.2014, vill. Basarbovo;

Deroceras sturanyi (Simroth, 1894)

13.06.2013, vill. Tsar Kaloyan; 10.07.2013, vill. Katselovo;

Deroceras turcicum (Simroth, 1894)

16.03.2011, vill. Basarbovo; 21.03.2011, vill. Katselovo; 21.04.2012, vill. Tserovets; 02.11.2012, vill. Karan Varbovka; 20.03.2013, vill. Krepcha; 08.10.2013, vill. Pepelina; 23.07.2013, vill. Cherven; 10.12.2013, vill. Pisanets; 20.12.2013, vill. Nisovo;

Discus rotundatus (Müller, 1774)

02.07.2013, Russe, Matey Island, deposits of Danube River;

Remark: This is the second report of this species in Bulgaria;

Euconulus fulvus (O. F. Müller, 1774)

05.03.2014, vill. Katselovo;

Euomphalia strigella (Draparnaud, 1801)

07.02.2011, Russe; 18.03.2011, vill. Basarbovo; 08.08.2012, vill. Tsar Kaloyan; 20.03.2013, vill. Krepcha; 14.04.2013, vill. Katselovo; 13.06.2013, vill. Pisanets; 23.07.2013, vill. Cherven; 01.09.2013, vill. Ivanovo; CS – LC;

Fruticicola fruticum (O. F. Müller, 1774)

04.07.2006, deposits of Beli Lom River near vill. Ivanovo; 26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 26.12.2010, vill. Katselovo; 01.05.2011, vill. Shirokovo; 15.12.2011, vill. Ostritsa; 18.03.2012, Urum Punar area, under the rocks, near vill. Pepelina; 19.10.2012, vill. Mechka; 19.10.2012, Stalpishte, the gorge going to Trastenik; 07.11.2012, vill. Karan Varbovka; 27.11.2012, vill. Basarbovo; 20.03.2013, vill. Krepcha; 23.07.2013, vill. Cherven; CS – LC;

Granaria frumentum (Draparnaud, 1801)

19.11.2013, vill. Stalpishte; CS – LC;

Helix lucorum Linnaeus, 1758

12.11.2010, vill. Katselovo; 15.12.2011, vill. Ostritsa; 18.03.2012, vill. Pepelina; 03.03.2013, Russe; 13.06.2013, vill. Pisanets and vill. Tsar Kaloyan; CS – LC;

Helix pomatia Linnaeus, 1758

04.07.2006, deposits of Beli Lom River near vill. Ivanovo; 12.11.2010, vill. Katselovo; 15.12.2011, 06.02.2011, Russe; 13.06.2013, vill. Pisanets and vill. Tsar Kaloyan; 23.07.2013, vill. Cherven; 01.09.2013, vill. Ivanovo; CS – LC;

Krynickillus urbanskii (Wiktor, 1971)

27.05.2014, on trunks of cherry trees (*Cerasus* sp.), broad leaf forest near vill. Katselovo;

Laciniaria plicata (Draparnaud, 1801)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 16.03.2011, rocky gorge, near the fishponds of vill. Basarbovo; 18.03.2012, Urum Punar area, under the rocks, near vill. Pepelina; 29.08.2012, vill. Nisovo, along Mali Lom River, between Golyam and Malak Nisovski monasteries;

Limax cinereoniger Wolf, 1803 – complex

12.03.2014, vill. Pepelina; 14.04.2014, vill. Katselovo; 28.06.2014, vill. Pisanets;

Limax graecus (Simroth, 1889) – complex

13.03.2011 and 15.07.2014, Russe; EM – BLE;

Limax maximus Linnaeus, 1758 - complex

11.11.2011, vill. Katselovo; 21.04.2012, vill. Tserovets; 31.08.2013, vill. Nisovo; 25.04.2014, vill. Karan Varbovka;

Limacus flavus Linnaeus, 1758

28.04.2011, vill. Katselovo; 20.05.2014, Russe;

Lindholmiola girva (Frivaldsky, 1835)

04.07.2006, deposits of Beli Lom River near vill. Ivanovo; 26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 24.03.2012, vill. Ivanovo, above “Pismata” (nest of Egyptian vulture); 29.08.2012, vill. Nisovo, along Mali Lom River, between Golyam and Malak Nisovski monasteries; 10.09.2012, vill. Ostritsa, Kanarak dere, after Dzhambaza area; 19.10.2012, Stalpishte area, the hills above the fishponds; 19.10.2012, Stalpishte, the gorge going to Trastenik; CS - LC, EM – BLE;

Macedonica marginata (Rossmässler, 1835)

18.03.2012, Urum Punar area, under the rocks, near vill. Pepelina; EM – BLE;

Mediterranea inopinata (Uličny, 1887)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 01.01.2012, vill. Katselovo, at “Panitchka” watersource; 28.04.2014, vill. Svalenik; 12.05.2014, vill. Krepcha;

Merdigera obscura (O. F. Müller, 1774)

29.08.2012, vill. Nisovo, along Mali Lom River, between Golyam and Malak Nisovski monasteries; CS – LC;

Monacha carascaloides (Bourguignat, 1855)

26.12.2010, vill. Katselovo; 16.03.2011, vill. Basarbovo; 05.10.2011, Russe; 16.06.2011, vill. Tabachka; 05.10.2011, under a rock arc, Russe, at the big bridge above Rusenski Lom River; 29.10.2011, vill. Bazovets; 01.05.2012, vill. Shtraklevo; 16.03.2011, rocky gorge, near the fishponds of vill. Basarbovo; 24.03.2012, vill. Ivanovo, above “Pismata” (near a nest of Egyptian vulture); 20.03.2013, vill. Krepcha; 30.04.2013, vill. Zahari Stoyanovo; CS – LC;

Monacha cartusiana (O. F. Müller, 1774)/***claustralis*** – complex

04.07.2006, deposits of Beli Lom River near vill. Ivanovo; 26.12.2010, vill. Katselovo; 06.02.2011, Russe; 16.03.2011, vill. Basarbovo; 05.10.2011, Russe, Liulyaka sport base; 05.10.2011, under a rock arc, Russe, at the big bridge above Rusenski Lom River; 15.12.2011, vill. Ostritsa; 18.03.2012, vill. Pepelina; 31.03.2012, sport base Liulyaka, Russe, near canals; 08.08.2012, vill. Tsar Kaloyan; 19.10.2012, Stalpishte, the gorge going to Trastenik; 23.07.2013, vill. Cherven; 01.09.2013, vill. Ivanovo; 19.11.2013, vill. Stalpishte; 22.04.2014, vill. Bazovets;

Monacha claustralis (Menke 1828)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; CS – LC;

Morlina glabra striaria (Westerlund 1881)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 16.03.2011, rocky gorge, near the fishponds of vill. Basarbovo; 29.08.2012, vill. Nisovo, along Mali Lom River, between Golyam and Malak Nisovski monasteries; 10.09.2012, vill. Ostritsa, Kanarak dere, after Dzhambaza area;

Oligolimax annularis (Studer, S. 1820)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; CS – LC;

Oxyloma elegans (Risso, 1826)

13.09.2012, vill. Vlenik, Kiusara area, at water source, near the road to vill. Katselovo; 13.10.2013, vill. Katselovo, “Lakanska Yama”, at lower fishpond of Ivan Kovacha;

Oxyloma dunkeri (L. Pfeiffer, 1865)

03.08.2013, small isle at Cherni Lom River, vill. Katselovo;

Remark: This is the second report of this species in Bulgaria;

Perforatella incarnata (O. F. Müller, 1774)

04.07.2006, deposits of Beli Lom River near vill. Ivanovo; 14.02.2011, vill. Katselovo; 13.07.2011, Russe; 29.08.2012, vill. Nisovo, along Mali Lom River, between Golyam and Malak Nisovski monasteries; 10.09.2012, vill. Ostritsa, Kanarak dere, after Dzhambaza area; 15.12.2011, vill. Ostritsa; 18.03.2012, vill. Pepelina; 24.03.2012, vill. Ivanovo; 29.08.2012, vill. Nisovo; 22.04.2014, vill. Bazovets; 04.06.2014, vill. Krepcha; CS – LC;

Pomatias rivularis (Eichwald, 1829)

16.03.2011, rocky gorge, near the fishponds of vill. Basarbovo; 20.04.2011, vill. Katselovo, Gartchinovi terasi area; 18.03.2012, Urum Punar area, under the rocks, near vill. Pepelina; 10.09.2012, vill. Ostritsa, Kanarak dere, after Dzhambaza area;

Pseudochondrula seductilis (Rossmässler, 1846)

20.04.2011, vill. Katselovo, Gartchinovi terasi area; CS – VU;

Pseudotrichia rubiginosa (Schmidt, 1853)

10.01.2011, vill. Katselovo; 15.09.2011, Matey Island, Danube River, Russe; 19.10.2012, vill. Stalpishte, Danube River bank; CS – LC;

Punctum pygmaeum (Draparnaud, 1801)

16.03.2011, vill. Basarbovo; 14.04.2012, vill. Katselovo; 20.03.2013, vill. Krepcha; 13.06.2013, vill. Tsar Kaloyan; 23.07.2013, vill. Cherven; 27.03.2014, vill. Nisovo;

Pupilla muscorum (Linnaeus, 1758)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 21.04.2012, vill. Garchinovo, near watersource; 13.09.2012, vill. Vlenik, Kiusara area, at water source, near the road to vill. Katselovo; 02.11.2012, deposits of Cherni Lom River, “Varbovska Vodenitsa” area; CS – LC;

Pupilla sterri (Voith, 1838)

02.07.2013, Russe; 09.07.2014, vill. Katselovo; 07.09.2014, vill. Karan Varbovka; CS – LC;

Sphyradium doliolum (Bruguière, 1792)

21.03.2011, vill. Katselovo; 12.05.2011, vill. Pepelina; 23.10.2012, vill. Ostritsa; 20.03.2013, vill. Krepcha; 13.06.2013, vill. Tsar Kaloyan; 23.07.2013, vill. Cherven; 20.12.2013, vill. Nisovo; 22.04.2014, vill. Bazovets; CS – LC;

Succinea oblonga Draparnaud, 1801

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 09.03.2012, vill. Katselovo, at “Startchi Krak” watersource; 02.11.2012, deposits of Cherni Lom River, “Varbovska Vodenitsa” area;

Succinea putris (Linnaeus, 1758)

10.08.2013, Liulyaka Island at Danube River near Russe;

Tandonia budapestensis (Hazay, 1881)

07.02.2011, Russe; 13.02.2011, vill. Katselovo; 26.03.2011, vill. Basarbovo; 23.07.2013, vill. Cherven;

Tandonia cristata (Kaleniczenko, 1851)

24.04.2012, vill. Katselovo; 20.03.2013, vill. Krepcha; 08.10.2013, vill. Pepelina; 31.08.2013, vill. Nisovo; 04.10.2013, vill. Basarbovo; 21.10.2013, vill. Karan Varbovka; 09.05.2014, vill. Ostritsa;

Tandonia kusceri (H. Wagner, 1931)

07.02.2011, Russe; 06.03.2011, vill. Basarbovo; 12.12.2012, vill. Katselovo; 08.10.2013, vill. Pepelina; 12.05.2014, vill. Krepcha;

Truncatellina claustralis (Gredler, 1856)

16.03.2011, rocky gorge, near the fishponds of vill. Basarbovo; 23.06.2011, vill. Nisovo; 20.03.2013, vill. Krepcha; CS – LC;

Truncatellina cylindrica (Férussac, 1807)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 05.10.2011, under a rock arc, Russe, at the big bridge above Rusenski Lom River; 18.03.2012, Urum Punar area, under the rocks, near vill. Pepelina; 31.03.2012, sport base Liulyaka, Russe, near canals; 19.10.2012, Stalpishte, the gorge going to Trastenik; 02.11.2012, deposits of Cherni Lom River, “Varbovska Vodenitsa” area; CS – LC;

Vallonia costata (O. F. Müller, 1774)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 05.10.2011, under a rock arc, Russe, at the big bridge above Rusenski Lom River; 09.03.2012, vill. Katselovo, at “Startchi Krak” watersource; 18.03.2012, Urum Punar area, under the rocks, near vill. Pepelina; 31.03.2012, sport base Liulyaka, Russe, near canals; 21.04.2012, vill. Garchinovo, near watersource; 21.04.2012, vill. Tserovets, near watersource; 08.08.2012, water source at Beli Lom River, near vill. Pisanets; 13.09.2012, vill. Vlenik, Kiusara area, at water source, near the road to vill. Katselovo; 19.10.2012, Stalpishte, the gorge going to Trastenik; 02.11.2012, deposits of Cherni Lom River, “Varbovska Vodenitsa” area; CS – LC;

Vallonia enniensis (Gredler, 1856)

09.03.2012, vill. Katselovo, at “Startchi Krak” watersource; 21.04.2012, vill. Garchinovo, near watersource; 08.08.2012, water source at Beli Lom River, near vill. Pisanets; 13.09.2012, vill. Vlenik, Kiusara area, at water source, near the road to vill. Katselovo; 02.11.2012, deposits of Cherni Lom River, “Varbovska Vodenitsa” area; CS – NT;

Vallonia pulchella (O. F. Müller, 1774)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 05.10.2011, under a rock arc, Russe, at the big bridge above Rusenski Lom River; 09.03.2012, vill. Katselovo, at “Startchi Krak” watersource; 18.03.2012, Urum Punar area, under the rocks, near vill. Pepelina; 13.09.2012, vill. Vlenik, Kiusara area, at water source, near the road to vill. Katselovo; 02.11.2012, deposits of Cherni Lom River, “Varbovska Vodenitsa” area; 17.09.2012, vill. Katselovo, at “Panitchka” watersource; 19.10.2012, Stalpishte, the gorge going to Trastenik; CS – LC;

Vertigo antivertigo (Draparnaud, 1801)

19.10.12, vill. Stalpishte; 09.07.2014, vill. Katselovo; CS – LC;

Vertigo pygmaea (Draparnaud, 1801)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 20.04.2011, vill. Katselovo; 29.09.2012, vill. Basarbovo; 11.10.2012, Russe; 19.10.2012, vill. Stalpishte, the gorge going to Trastenik; 02.11.2012, deposits of Cherni Lom River, “Varbovska Vodenitsa” area; 06.11.2012, vill. Krepcha; 11.05.2013, vill. Basarbovo; 13.06.2013, vill. Tsar Kaloyan; 23.07.2013, vill. Cherven; 08.10.2013, vill. Pepelina; 05.03.2014, vill. Katselovo; 27.03.2014, vill. Nisovo; 07.09.2014, vill. Karan Varbovka; CS – LC;

Vitrea diaphana (Studer, 1829)

12.05.2014, vill. Krepcha;

Vitrea pygmaea (Boettger, 1880)

02.11.2012, deposits of Cherni Lom River, “Varbovska Vodenitsa” area;

Vitrea subrimata (Reinhardt, 1871)

05.10.2011, Russe; 01.01.2012, vill. Katselovo; 29.09.2012,, vill. Basarbovo; 02.11.2012, vill. Karan Varbovka; 08.10.2013, vill. Pepelina; 27.03.2014, vill. Nisovo;

Xerolenta obvia (Menke, 1828)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 05.10.2011, under a rock arc, Russe, at the big bridge above Rusenski Lom River; 26.12.2010, vill. Katselovo; 29.10.2011, vill. Bazovets; 29.11.2011, Russe; 15.12.2011, vill. Ostritsa; 21.04.2012, vill. Garchinovo, near watersource; 01.05.2012, vill. Shtraklevo; 08.08.2012, vill. Pisanets; 19.10.2012, Stalpishte area, the hills above the fishponds; 19.10.2012, Stalpishte, the gorge going to Trastenik; 30.04.2013, vill. Zahari Stoyanovo; CS – LC;

Zebrina detrita (O. F. Müller, 1774)

26.5.2007, NE-border of vill. Tabachka, at limestone rocks beside cave; 24.03.2012, vill. Ivanovo, above “Pismata” (nest of Egyptian vulture); 19.10.2012, Stalpishte area, the hills above the fishponds;

Zonitoides nitidus (O. F. Müller, 1774)

04.07.2006, deposits of Beli Lom River near vill. Ivanovo;

At least 120 mollusc species were registered at the area (freshwater clams - 11, freshwater snails - 31, and terrestrial snails - 78 species). Some of them are still with unclear taxonomic statute as for example *Bythiospeum* sp., and the species from the complexes of *M. cartusiana*, *Limax* spp.

Two bivalve species were confirmed for the region (*U. tumidus*, *U. crassus*), 9 are new findings. From fresh-water gastropods 12 previously reported species were confirmed for the region (*E. daudebartii acicularis*, *E. esperi*, *G. truncatula*, *G. laevis*, *H. holandrii*, *L. naticoides*, *R. auricularia*, *Ph. acuta*, *T. danubialis*, *T. fluviatilis*, *T. transversalis*, *V. piscinalis*) and 19 are new findings.

From the terrestrial gastropods 7 previously reported species were confirmed for the region (*A. minor*, *A. biplicata*, *B. varnensis*, *L. plicata*, *L. maximus*, *M. cartusiana*, *X. obvia*) and one was not found (*A. arbustorum*), 71 terrestrial gastropod species are new records for the region.

Second records of *Bythiospeum iltchokolevi* Georgiev & Glöer, 2015, *Discus rotundatus* (Müller, 1774), and *Oxyloma dunkeri* (L. Pfeiffer, 1865) in Bulgaria were reported. New distributional data about some invasive aquatic molluscs as *Anodonta woodiana*, *Corbicula fluminea*, and *Ferissia fragilis* was provided.

According Cuttelod et al. (2011) all clams from the region have conservation status: 3 species are in category NA – not applicable, 6 species – least concern and 2 (*U. crassus* and *U. tumidus*) are VU – vulnerable. From the fresh-water snails 24 species are in category LC – least concern, and one in EN – endangered (*T. transversalis*). One fresh water snails is Bulgarian endemic species (*B. iltchokolevi*). From the terrestrial gastropods 29 species are in category LC – least concern, 2 species are in NT – near threatened, and one (*P. seductilis*) is VU – vulnerable. Eight terrestrial gastropods are Balkan Peninsula endemics.

Two more species *H. lucorum* and *H. pomatia* are objects of the Bulgarian conservation legislation, as they are included in Section III (Regulated use of plant and animal species), Art. 41 (1), Annex 4 of “Biodiversity Act”.

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