

Contribution to the knowledge on the gastropods (Mollusca, Gastropoda) of the Mountains Ilinska and Plakenska (Republic of North Macedonia). Part 2.

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Abstract

The work presents the second part of the results of a collecting trip in July 2008 in the mountains Ilinska and Plakenska (Republic of North Macedonia). Eleven species are added to the malacofauna of the mountains. Currently, thirty taxa are known as inhabitants of the area.

Key words: terrestrial gastropods, new data, Ilinska and Plakenska mountains, Republic of North Macedonia

Introduction

Ilinska (Liska, 1908 m) and Plakenska (Stalev Kamen, 1998 m) Mountains are medium-high mountains located in remote area of the south-western parts of Republic of North Macedonia. For this reason, the information on the gastropods fauna of these mountains is scarce. In the first publication for the region Dedov and Subai (2012) described a new species *Gyralina (Gyralina) nautilopsis*. Dedov (2015) reports 19 species collected in one of the two mountains or in both mountains: *Allaegopis skandergianus* (Polinski, 1924), *Bulgarica vetusta* (Rossmässler, 1836), *Candidula rhabdotoides* (A.J. Wagner, 1928), *Chilostoma (Dinarica) serbica* (Kobelt, 1872), *Chondrularia microtragus* (Rossmässler, 1839), *Gyralina nautilopsis* Dedov and Subai, 2012, *Gyralina (Gyralina) cf. velkovrhi* Riedel, 1985, *Daudebardia rufa* (Draparnaud, 1805), *Deroceras cf. turicum* (Simroth, 1894), *Helix lucorum* Linnaeus, 1758, *Jaminia quadridens* (Müller, 1774), Limacidae, *Monacha* sp., *Morlina cf. glabra* (Rossmässler, 1835), *Tandonia* sp., *Triloba thaumasia* (Sturany, 1907), *Vitrina pellucida* (Müller, 1774), *Xerolenta obvia* (Menke, 1828) and *Zebrina detrita* (Müller, 1774). These two publications summarize all available data on the land gastropods fauna of the two mountains.

Material and Methods

The materials were collected by the author on 14-16 July 2008. The snails were collected by hand and soil -sifting. The material is deposited in the collection of

the Institute of Biodiversity and Ecosystems Research, B.A.S. The localities are presented in Tab. 1. and Fig. 1.

Results and discussion

Ilinska Mountain is a comparatively high mountain among the medium-high mountains in Macedonia. The highest peak of the mountain is Liska (1908 m). Ilinska mountain has a complex geology, the bedrock is generally composed of Devonian marbles and phyllitic schist which is similar to other medium-high mountains in this broader region. Ilinska Planina is characterized by moderate continental climate and mountainous climate on its upper parts. Average altitude is 1159 m. Total area 293.65 km². (Melovski et al. 2013)

Plakenska Planina represents the middle part of the Ilinska Planina-Plakenska Planina-Bigla range. Unlike Ilinska Planina on the north, Plakenska Planina is almost exclusively composed of silicate bedrock. Moderate continental climate is dominant in the region, and mountainous climate prevails on higher elevations. Average altitude is 1288 m. Total area 191.57 km². (Melovski et al. 2013)

Currently, the 19 species of land gastropods are known from the mountains of Ilinska and Plakenska (Dedov and Subai 2012, Dedov 2015). The newly reported data are presented in Tab. 2. Eleven species of terrestrial gastropods are newly reported for the region of Ilinska and Plakenska Mountains. Together with already published data thirty taxa are known as inhabit-

ants of the mountains. For 10 species already announced by Dedov (2015) new localities are provided (Tab. 2).

All reported species are newly found for both mountains and expand the knowledge for the species distribution in the region. Despite the relatively high number of species, the information for these regions is still scarce and both mountains are poorly studied. For example, vitrinid shells were found that seem to belong to the genus *Eucobresia*. If this will be confirmed by the anatomical survey – it will be a new genus and species for the Republic of North Macedonia. The new collection efforts will enrich the knowledge of the malacofauna in the area. The number of the species for both mountains is expected to increase, and additional regional endemics is possible to be find, especially in the carbonate parts of Ilinska Mountain.

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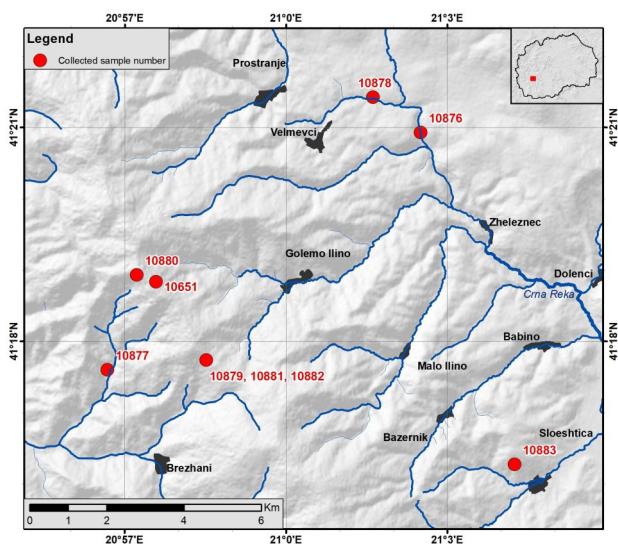


Fig. 1.

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Tab. 1. Localities of the mountains Ilinska and Plakenska, Republic of Macedonia, leg., det. I. Dedov. The geocoordinates are restored and not represent the specific point of collection.

| Coll.No. | Locality/data | Habitat | Altitude (m) |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------|
| Ilinska mountain | | | |
| 10651 | Strmna area, 14 VII 2008, N41.314024 E20.95981 | Fagus forest, in rotten trunks | 1500 – 1650 |
| 10876 | Lasejca ridge, Zli Dol river's gorge (drained), road-split to vill. Golemo Ilino, 15 VII 2008, N41.34891 E21.041861 | <i>Quercus, Carpinus</i> , limestones | 800 – 820 |
| 10877 | Near Jaorec cave (=Yaorets), 16 VII 2008 N41.293402 E20.944787 | limestone rocks, bushes | 1030 |
| 10878 | Road Golemo Ilino – Velmevci (=Velmevtsi), Zli Dol river valley, 15 VII 2008 N41.35713 E21.027043 | limestone rocks | 900 – 950 |
| 10879, 10881, 10882 | Iglar area, up to "Ilinska crkva" camp, 14-16 VII 2008, N41.295667 E20.975414 | limestone rocks, under stones | 1550 |
| 10880 | Strmna area, 14 VII 2008, N41.315556 E20.953862 | limestone pastures | 1650 – 1850 |
| Plakenska mountain | | | |
| 10883 | Up to vill. Sloeshtitsa, Zmejova cave, 15 VII 2008, N41.271291 E21.070871 | limestone, nearby cave | 950 |

Tab. 2. Terrestrial gastropod species from the mountains Ilinska and Plakenska, Republic of Macedonia (in alphabetical order). Used abbreviations: ad – adult, jv – juvenile, d – dead, l – alive, spm – specimens.

| Nº | species | Coll.No./specimens | data source |
|-----|------------------------------------------------------------|--------------------------------------------|--------------------------------------|
| 1. | <i>Aegopinella minor</i> (Stabile, 1864) | 10876/4; 10883/4 | new data |
| 2. | <i>Alinda (Pseudalinda) serbica</i> (Moellendorff, 1873) | 10651/5add | new data |
| 3. | <i>Allaegopis skandergianus</i> (Polinski, 1924) | see Dedov (2015) | Dedov (2015) |
| 4. | <i>Bulgarica vetusta</i> (Rossmässler, 1836) | see Dedov (2015) | Dedov (2015) |
| 5. | <i>Candidula rhabdotoides</i> (A. J. Wagner, 1928) | 10877/4jvd; 10879/13add; 10882/10add | new data, Dedov (2015) |
| 6. | <i>Chilostoma (Dinarica) serbica</i> (Kobelt, 1872) | 10876/1jvl | new data, Dedov (2015) |
| 7. | <i>Chondrulara microtragus</i> (Rossmässler, 1839) | 10876/5add; 10877/20add | new data, Dedov (2015) |
| 8. | <i>Cochlodina (Cochlodina) laminata</i> (Montagu, 1803) | 10651/4add | new data |
| 9. | <i>Daudebardia rufa</i> (Draparnaud, 1805) | see Dedov (2015) | Dedov (2015) |
| 10. | <i>Deroceras cf. turicum</i> (Simroth, 1894) | see Dedov (2015) | Dedov (2015) |
| 11. | <i>Gyralina (Gyralina) nautilopsis</i> Dedov & Subai, 2012 | see Dedov and Subai (2012), Dedov (2015) | Dedov and Subai (2012), Dedov (2015) |

| | | | |
|-----|---------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------|
| 12. | <i>Gyralina (Gyralina) cf. velkovrhi</i> Riedel, 1985 | see Dedov and Subai (2012), Dedov (2015) | Dedov and Subai (2012), Dedov (2015) |
| 13. | <i>Helix lucorum</i> Linnaeus, 1758 | 10876/1dd, 1jvd | new data, Dedov (2015) |
| 14. | <i>Jaminia quadridens</i> (Müller, 1774) | 10877/29add; 10878/1add; 10879/11add; 10882/19add | new data, Dedov (2015) |
| 15. | Limacidae indet. | see Dedov (2015) | Dedov (2015) |
| 16. | <i>Merdigera obscura</i> (O. F. Müller, 1774) | 10876/5add; 10878/2add; 10883/3spm | new data |
| 17. | <i>Monacha</i> sp. | 10876/3add | new data, Dedov (2015) |
| 18. | <i>Monachoides incarnatus incarnatus</i> (O. F. Muller, 1774) | 10876/1add | new data |
| 19. | <i>Morlina</i> cf. <i>glabra</i> (Rossmässler, 1835) | 10876/2add, 3jvd; 10878/1; 10879/2add; 10880/1add; 10883/1add | new data, Dedov (2015) |
| 20. | <i>Punctum (Punctum) pygmaeum</i> (Draparnaud, 1801) | 10879/1add | new data |
| 21. | <i>Pyramidula cephalonica</i> (Westerlund, 1898) | 10879/5spm | new data |
| 22. | <i>Sphyradium doliolum</i> (Bruguiere, 1792) | 10876/3add | new data |
| 23. | <i>Tandonia</i> sp. | see Dedov (2015) | Dedov (2015) |
| 24. | <i>Triloba thaumasia</i> (Sturany, 1907) | see Dedov (2015) | Dedov (2015) |
| 25. | <i>Truncatellina claustralis</i> (Gredler, 1856) | 10879/ many, mix with <i>T. cylindrica</i> | new data |
| 26. | <i>Truncatellina cylindrica</i> (A. Ferussac, 1807) | 10879/ many, mix with <i>T. claustralis</i> ; 10882/1add | new data |
| 27. | Vitrinidae cf. <i>Eucobresia</i> sp. | 10876/1add; 10881/3add; 10882/4spm | new data |
| 28. | <i>Vitrina pellucida</i> (Müller, 1774) | 10879/1spm | new data, Dedov (2015) |
| 29. | <i>Xerolenta obvia</i> (Menke, 1828) | 10877/1add; 10880/8add | new data, Dedov (2015) |
| 30. | <i>Zebrina detrita</i> (Müller, 1774) | 10876/1add; 10877/18add; 10878/4add; 10879/2add; 10882/6add | new data, Dedov (2015) |