



# LAND SNAILS AND SLUGS OF RUSSIA AND ADJACENT COUNTRIES

Alexander Sysoev & Anatoly Schileyko

 PENSOFT

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*by*

Alexander Sysoev

&

Anatoly Schileyko



Sofia–Moscow

2009



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Pensoft *Series Faunistica* No 87

ISSN 1312-0174

First published 2009

ISBN: 978-954-642-474-7 (HB)

ISBN: 978-954-642-475-4 (e-book)

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Pensoft Publishers  
Geo Milev Str. 13a, Sofia 1111, Bulgaria  
info@pensoft.net  
www.pensoft.net

Printed in Bulgaria, June 2009

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# INTRODUCTION

The fauna of terrestrial molluscs of Russia and adjacent countries (actually, of the former Russian Empire and then the former USSR) has been investigated for almost two hundred years (since the pioneering works of Krynicki), and it can be stated that it is presently rather well studied. Most groups have been revised and monographed in recent decades (e.g. Likharev, 1962a; Likharev, Wiktor, 1980; Schileyko, 1978b, 1984). However, the only comprehensive work on the fauna still is the long outdated guide of Likharev and Rammelmeyer (1952). In the late 1980s, there was an attempt to revise the whole fauna using modern standards (Likharev, Schileyko, MS), but that work has not been published. Nevertheless, it became the basis for cataloguing the fauna under consideration.

A complete catalogue of the terrestrial gastropod fauna of Russia and adjacent countries was published in Russian in 2005 (Sysoev, Schileyko, 2005). Here we present an expanded, updated and corrected version, together with illustrations of the species. It is based, as has been said, on the manuscript of Likharev and Schileyko, with an account for all subsequently published data.

In fact, the area covered includes the territory of the former USSR. The main reason for choosing this concept of territorial coverage was the history of studies of this fauna: for more than a hundred years, the larger part of the collections coming from the area (including the types) was accumulated in major Russian museums and institutions. Therefore, the fauna of, for instance, presently independent states of Central Asia cannot be reliably reviewed without a study of vast collections kept in St.-Petersburg and Moscow. All the data on distribution of the species concern only findings inside the geographical boundaries selected, and we do not attempt to reliably outline their actual distribution.

At the moment, the considered fauna consists of 46 families, 225 genera and 781 species and subspecies. The most diverse groups are Enidae (34 genera and 108 species), Clausiliidae (32 genera and 95 species), Zonitidae (14 genera and 67 species), Bradybaenidae (61 species in 4 genera), and Hygromiidae (40 genera and 136 species).

All taxa of the genus- and species-level are listed in alphabetical order. To avoid excessive complication of the listing and thus to facilitate navigation in the text, we do not use the subgeneric subdivision of the genera and, in some cases, the subfamilial taxa as well.

The system of terrestrial gastropods adopted in this publication generally follows that of Schileyko (1998-2007).

Our illustration of the species was based on two main principles: to depict as many types of the species (the most part of which have never been adequately illustrated) as possible, and to show specimens of the species that really originate from the area covered. Additionally, the authorities responsible for identification are always indicated, when known (see the Sources of Illustrations division). Presenting this body of data, we believe that this work can serve as a good basis for future investigations of this fauna.

## ACKNOWLEDGEMENTS

We are deeply indebted to our colleagues who helped us with compiling the text of the catalogue: Dmitry Ivanov (Zoological Museum of Moscow University, Moscow), Yury Kantor (A.N. Severtzov Institute of Problems of Evolution and Ecology, Moscow), Igor Muratov (presently Natal Museum, Pietermaritzburg). Without photographs taken by Dmitry Ivanov, Igor Muratov, Eike Neubert (Forschungsinstitut Senckenberg, Frankfurt am Main), Nina Sverlova (State Natural History Museum, Lvov), Sergey Leonov (V.I. Vernadsky Tauria National University, Simferopol), Harriet Wood (National Museum Wales, Cardiff) (see also the Sources of Illustrations) and passed at our disposal, the illustrative part of the work would be much poorer, and we gratefully acknowledge the input of these persons. Nina Sverlova and Larisa Prozorova (Institute of Biology and Soil Science, Vladivostok) kindly provided some material for illustrations. We heartily thank the persons responsible for collections in respective institutions, who made our work with these collections both fruitful and pleasant: Pavel Kijashko and Lidia Yarokhnovich (Zoological Institute, St.-Petersburg), Ronald Janssen (Natur-Museum Senckenberg, Frankfurt am Main), Virginie Héros and Philippe Bouchet (Muséum national d'histoire naturelle, Paris), Helmut Sattmann and Anita Eschner (Naturhistorisches Museum Wien), Yves Finet (Muséum d'Histoire Naturelle, Genève).

## ABBREVIATIONS OF INSTITUTIONS

ANSP – Academy of Natural Sciences, Philadelphia, USA

BMNH – Natural History Museum, London, UK

IZP – Institute of Zoology of Polish Academy of Sciences, Warsaw, Poland



- IZU – Institute of Zoology of Ukrainian Academy of Sciences, Kiev, Ukraine  
 MHNG – Muséum d’Histoire Naturelle, Genève, Switzerland  
 MNHN – Muséum national d’histoire naturelle, Paris, France  
 MZL – Musée cantonal de zoologie, Lausanne, Switzerland  
 NHMV – Naturhistorisches Museum, Wien, Austria  
 NHMB – Natural History Museum of Bucuresti, Romania  
 NMB – Naturhistorisches Museum, Basel, Switzerland  
 NMBE – Naturhistorisches Museum, Bern, Switzerland  
 NMG – Naturhistoriska Museet, Göteborg, Sweden  
 NMW – National Museum of Wales, Cardiff, UK  
 PIN – Paleontological Institute of Russian Academy of Sciences, Moscow, Russia  
 RAME – Royal Albert Museum, Exeter, UK  
 RBINS – Institut royal des Sciences naturelles de Belgique, Bruxelles, Belgium  
 SMF – Natur-Museum Senckenberg, Frankfurt am Main, Germany  
 SMNH – Swedish Museum of Natural History, Stokholm, Sweden  
 USNM – National Museum of Natural History, Smithsonian Institution, Washington D.C., USA  
 UUZM – Uppsala University Museum, Uppsala, Sweden  
 ZIN – Zoological Institute of Russian Academy of Sciences, St.-Petersburg, Russia  
 ZMB – Zoologisches Museum, Museum für Naturkunde der Humboldt-Universität, Berlin, Germany  
 ZMC – Zoologisk Museum, University of Copenhagen, Denmark  
 ZMH – Zoologisches Institut und Zoologisches Museum der Universität Hamburg, Germany  
 ZMMU – Zoological Museum of Moscow University, Moscow, Russia  
 ZMUC – Zoological Museum of the University of Copenhagen, Denmark  
 ZMZ – Zoologisches Museum, Zürich, Switzerland

## ABBREVIATIONS IN DIMENSIONS

For snails: H – shell height; D – shell diameter. If the shell has no adult characters (as, for example, in Succineidae or most of Zonitidae) we indicate maximal size: “H up to ..., D up to ... mm”.

For slugs: L – body length; in formula “L up to X (Y)”; X – length of crawling (extended) slug, Y – length of contracted slug.

# SPECIES ACCOUNTS

Clade Neritimorpha [= Neritopsina]

HELICINOIDEA Férussac, 1822

HELICINIDAE Férussac, 1822

***Hemipoma*** A. Wagner, 1905

Type species: *Helicina bakodadiense* Hartman, 1890 (SD Wenz, 1938)

***Hemipoma hakodadiense*** (Hartman, 1890)

Fig. 1 A

[= *Hemipoma sadoense* A. Wagner, 1905].

*Helicina bakodadiense* Hartman, 1890: 286, pl. 3, fig. 8.

- Type locality: “Hakodadi, Japan” (Hakodate Prefecture, Hokkaido).
- Types: unknown.
- Dimensions: H 3.5-4.5, D 4.5-5.5 mm.
- Distribution: Itirup and Irup islands (Kurile Islands) (Likharev, Schileyko, MS).

Informal Group ARCHITAENIOGLOSSA

CYCLOPHOROIDEA Gray, 1847

COCHLOSTOMATIDAE Kobelt, 1902

***Toffolettia*** Giusti, 1971

Type species: *Cyclostoma striolatum* Porro, 1840 (OD)

***Toffolettia lederi*** (O. Boettger, 1881)

Fig. 1 B

*Pomatias lederi* Boettger, 1881a: 244, pl. 9, fig. 22.

- Type locality: “Kutais in Mingrelien” (Kutaisi, Georgia).
- Lectotype (Zilch, 1958): SMF No. 158975.
- Dimensions: H 7.5-11.5, D 4.0-5.3 mm.
- Distribution: wet deciduous forests of northern branches of western (Dakhovskoie ravine) and eastern (Military-Osetin Road, Kurtatinskoe ravine) of Great Caucasus; southern branches of Great Caucasus from Fischt Mountain in the west to Rachinsky

Ridge in the east (Likharev, Schileyko, MS); vicinities of Matzesta, Adler and Sochi (Egorov, Greke, 2003).

## CYCLOPHORIDAE Gray, 1847

### ***Caspicyclotus*** Forcart, 1935

Type species: *Cyclotus sieversi* L. Pfeiffer, 1871 (monotypy)

### ***Caspicyclotus sieversi*** (L. Pfeiffer, 1871)

Fig. 1 C

[= *Cyclotus bourguignati* Doumet-Adanson, 1885; *Cyclotus berzi* O. Boettger, 1889; *Valvata brandti* Westerlund, 1897, part.; *Cyclotus biggsi* Schlesch, 1934; *Caspicyclotus praesieversi* Steklov, 1966] *Cyclotus sieversi* Pfeiffer, 1871: 69-70.

- Type locality: “Caucasia meridionali” (Lenkoran, Azerbaijan).
- Types: unknown.
- Dimensions: H 5.0-6.5, D 6.5-7.5 mm.
- Distribution: Eastern Transcaucasia: forests of Lenkoran lowland and Talysh, southern branches of Great Caucasus from Lagodekhi to Nukha (Likharev, Schileyko, MS); one record near Mtzkheta (Rosen, 1925).

## ACICULIDAE Gray, 1850

### ***Acicula*** Hartmann, 1821

Type species: *Bulimus lineatus* Draparnaud, 1801 (monotypy)

### ***Acicula limbata*** Reuss, 1860

Textfig. 1

Reuss, 1860: 61.

- Type locality: “Tuchoritz und Lipen” (Czechia).
- Types: unknown.
- Dimensions: H 3.1-3.4, D 1.20-1.25mm.
- Distribution: Georgia: Poti, Surami, Manglisi (Boeters et al., 1989).

### ***Acicula moussoni*** O. Boettger, 1879

Fig. 2 A

Boettger, 1879a: 41, pl. 1, fig. 7.

- Type locality: Kazbek (Caucasus).
- Lectotype (Boeters et al., 1989): SMF No. 4202a (not No. 4056 as designated by Zilch, 1976b – see Boeters et al., 1989).
- Dimensions: H 2.4-3.0, D 0.90-1.10 mm.
- Distribution: several records at northern and southern branches of Great Caucasus, Suram and Adzharo-Trialeti ridges (Likharev, Schileyko, MS).

***Acicula parcelineata*** (Clessin, 1911)

Fig. 2 B

[= *Acme carpatica* A. Wagner, 1912; *Acme parcelineata* var. *cylindracea* Sitsch, 1925; *Pupula wagneri* Hesse, 1930, nom. nud.; *Acicula bakanense* Steklov, 1966]

*Acme parcelineata* Clessin, 1911: 165.

- Type locality: “Dzingelau, Oestr. Schlesien” (Dziegielow near Cieszyn, Poland).
- Syntypes: lost (Zilch, 1976b).
- Dimensions: H 2.02-2.40, D 0.70-0.85 mm.
- Distribution: Ukraine: Carpathians (Likharev, Schileyko, MS), Podolsk Hills (including vicinities of Lvov) (Sverlova, 2006).

***Platyla*** Moquin-Tandon, 1855

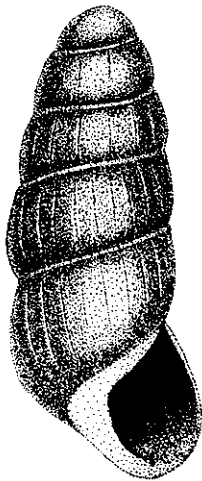
Type species: *Acme dupuyi* Paladilhe, 1868 (SD Boeters, Gittenberger et Subai, 1989)

***Platyla jankowskiana*** (Jackiewicz, 1979)

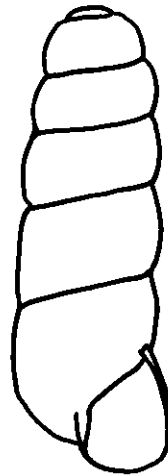
Textfig. 2

*Acicula jankowskiana* Jackiewicz, 1979: 95, fig. 1.

- Type locality: valley of Zhencha river, near Tatarov village, Ivano-Frankovsk Region, Ukraine.
- Holotype: IZP.
- Dimensions: H 2.38-2.52, D 0.81-0.85 mm.
- Distribution: type locality (presently Krementzy village).



**Textfig. 1.** *Acicula limbata*, after Egorov, Greke, 2003.



**Textfig. 2.** *Platyla jankowskiana*, drawn from photo of the holotype in Boeters et al., 1989, fig. 123a, H 2.6 mm.

***Platyla oedogyra*** (Paladilhe, 1868)

Fig. 2 D

[= *Acme similis* Reinhardt, 1880]*Acme oedogyra* Paladilhe, 1868: 236-237, pl. 13, figs. 4-6.

- Type locality: “Kieco”.
- Lectotype (Boeters et al., 1989): Paladilhe collection, Faculté des Sciences, Montpellier, France.
- Dimensions: H 2.8-3.0, D 1.1-1.2 mm.
- Distribution: Ukraine: Lvov and Zhitomir regions (Anistratenko, 1998).

***Platyla perpussilla*** (Reinhardt, 1880)

Fig. 2 C

*Acme perpussilla* Reinhardt, 1880: 46

- Type locality: “beim Herkulesbade auf dem Wege nach dem Domogled zwischen abgefallenem Buchenlaub” [Romania].
- Lectotype (Zilch, 1976b): SMF No. 4058.
- Dimensions: H 1.3-2.0, D 0.65-0.70 mm.
- Distribution: Carpathian Biospheric Reserve (Zakarpatskaya Region, Rakhov District, “Kuzii” tract) (Sverlova, 2006).

***Platyla polita*** (Hartmann, 1840)

Fig. 2 E

[= *Carychium lineatum* C. Pfeiffer, 1828, non *Bulimus lineatus* Draparnaud, 1801, nec *Carychium lineatum* A.E.J. Ferussac, 1821; *Cyclostoma lubricum* Held, 1847; *Truncatella lubrica* Held, 1847; *Acme subpolita* Gottschick, 1921]*Pupula acicularis polita* Hartmann, 1840: 5, pl. 2, figs. 1, 2.

- Type locality: “Gipfel des Schönebergs bei Hof Geismar in Hessen” (Schöneberg Mountains, Hessen, Germany).
- Types: unknown.
- Dimensions: H 2.81-3.18, D 1.04-2.00 mm.
- Distribution: Kaliningrad Region, Baltic countries, vicinities of St.-Petersburg (Glint), Valdai, Moscow, and Central-Russian Hills, western regions of Byelorussia (Belovezhskaya Pushcha, Polesye), Moldavia (sporadically in Kodry Reserve) (Coadă, 2007); Ukraine: Carpathians, Volyno-Podolsk Hills, vicinities of Kiev, Kanevsky Natural Reserve (Korniyushin, 1988), Ukrainian Polesye (Zhitomir, Chernigov, Sumy regions), and in area between Prut and Dniester rivers (Sverlova, 2006).

## DIPLOMMATINIDAE L. Pfeiffer, 1857

***Palaina*** Semper, 1865Type species: *Diplommatina macgillivrayi* L. Pfeiffer, 1854 (SD Iredale, 1944)



***Palaina amurensis*** (Mousson, 1887)

Fig. 1 D

*Diplommatina amurensis* Mousson, 1887: 23-24, pl. 1, fig. 7.

- Type locality: vicinities of Vladivostok.
- Syntypes: ZMZ No. 526628; SMF No. 105154/2.
- Dimensions: H 1.8-2.1, D 1.0-1.2 mm.
- Distribution: Southern Primorye Territory (Ussurijsky and “Kedrovaya Pad” natural reserves, vicinities of Vladivostok) (Likharev, Schileyko, MS).
- Remark: The specimen labelled as syntype in ZMZ (Fig. 1 E) actually belongs to other species as it contradicts the original description and figure (being right-handed in the first turn) and drastically differs from all shells collected in Primorye (e.g., Fig. 1 D). It can be suggested that either the specimen or the label were misplaced.

VIVIPAROIDEA Gray, 1847

POMATIIDAE Gray, 1852

***Pomatias*** Studer, 1789

Type species: *Nerita elegans* Müller, 1774 (SD Newton, 1891)

***Pomatias hyrcanum*** (Martens, 1874)

Fig. 2 H

[= *Cyclostoma caspius* Mousson, 1876]

*Cyclostoma costulatum* var. *hyrcanum* Martens, 1874: 30.

- Type locality: “Rescht und Enzeli an der Südküste des kaspischen Meeres” (now Rasht and Bandar-e Pahlavi, northern Iran).
- Types: unknown.
- Dimensions: H 13-17, D 14-15 mm.
- Distribution: forests of Talysh, Lenkoran and Khachmass lowlands (Azerbaijan) (Likharev, Schileyko, MS).

***Pomatias rivulare*** (Eichwald, 1829)

Fig. 2 I

[= *Cyclostoma costulatum* Rossmässler, 1837]

*Cyclostoma rivulare* Eichwald, 1829: 302.

- Type locality: vicinities of Tarki village, near Makhachkala [Daghestan].
- Types: unknown.
- Dimensions: H 12-14, D 11.5-13.5 mm.
- Distribution: Crimea: foothills along upper and medium parts of the Karasu river (Puzanov, 1927); Carpathians (Anistratenko, Anistratenko, 2001); Moldavia (sporadically in Kodry Reserve) (Coadă, 2007); forest areas of North Caucasus and Transcaucasia, except Talysh and forests of Lenkoran and Khachmass lowlands, where the species is replaced by *Pomatias hyrcanum* (Likharev, Schileyko, MS).

## Clade LITTORINIMORPHA

## AMNICOLIDAE Tryon, 1863

## AMNICOLINAE Tryon, 1863

***Terrestribythinella*** Sitnikova, Starobogatov et Anistratenko, 1992

Type species: *Terrestribythinella baidashnikovii* Sitnikova, Starobogatov et Anistratenko, 1992 (OD)

***Terrestribythinella amphibiotica*** Anistratenko, 1995

Anistratenko, 1995: 66-68.

- Type locality: “Zacharovannaya Dolina” area, Ilyinetskoje Forestry, Irshava District, Zakarpatskaya Region.
- Holotype: IZU.
- Dimensions: H up to 2.45, D up to 1.5 mm.
- Distribution: type locality (Anistratenko, 1998).

***Terrestribythinella baidashnikovii*** Sitnikova, Starobogatov et Anistratenko, 1992

Fig. 2 G

Sitnikova et al., 1992: 10-11, fig. 2 (3).

- Type locality: Ugolskoe Forestry, Karpatsky Natural Reserve, Tyachev District, Zakarpatskaya Region.
- Holotype: ZIN.
- Dimensions: H up to 2.7, D up to 1.3 mm.
- Distribution: type locality (Anistratenko, 1998).

***Terrestribythinella carpathica*** Sitnikova, Starobogatov et Anistratenko, 1992

Fig. 2 F

Sitnikova et al., 1992: 11, fig. 2 (4).

- Type locality: Ugolskoe Forestry, Karpatsky Natural Reserve, Tyachev District, Zakarpatskaya Region.
- Holotype: ZIN.
- Dimensions: H up to 2.35, D up to 1.35 mm.
- Distribution: type locality (Anistratenko, 1998).

## PULMONATA

Superorder **BASOMMATOPHORA** A. Schmidt, 1855

ELLOBIOIDEA L. Pfeiffer, 1854 (1822)

**CARYCHIIDAE** Jeffreys, 1830

***Carychium*** Müller, 1774

Type species: *Carychium minimum* Müller, 1774 (monotypy)

***Carychium cymatoplax*** Pilsbry, 1901

Fig. 3 A

Pilsbry, 1901c: 23-24.

- Type locality: Yaeyama Island [Loo Choo Islands, Japan].
- Lectotype (Baker, 1963): ANSP No. 80959a.
- Dimensions: H 1.7-2.0, D 0.6-0.8 mm.
- Distribution: southern Primorye (Prozorova, 2006; Prozorova, Kavun, 2007b).

***Carychium lederi*** O. Boettger, 1880

Fig. 3 B

[= *Carychium primitivum* Schileyko, 1967]

Boettger, 1880b: 383.

- Type locality: not stated (Talysh – from the title).
- Syntype: ZIN.
- Dimensions: H 1.7-1.8, D 0.7-0.8 mm.
- Distribution: Lenkoran lowland and mountain forests of Talysh (Azerbaijan) (Likharev, Schileyko, MS).

***Carychium minimum*** Müller, 1774

Fig. 3 C

Müller, 1774: 125.

- Type locality: Fridrichsdal (vicinities of Copenhagen).
- Types: unknown.
- Dimensions: H 1.57-2.10, D 0.85-1.08 mm.
- Distribution: widely distributed in European forest zone (mainly in southern subzone of taiga and in mixed and broad-leaved forests), reaching Arkhangelsk in the north (Velichkovsky, 1927), Crimea and Caucasus inclusive in the south, and forest areas of South Ural (Krestyaninov, 1973) and northern, central, and eastern Kazakhstan (Uvalieva, 1981) in the east.
- Remark: Uvalieva described 2 new species of *Carychium*, *C. montanum* and *C. kasachstanicum*, holotypes of which were said to be stored in ZIN. Examination of the “holotypes” has shown that (1) they do not correspond to descriptions and illustrations of the author; (2) they were collected two years after the publication, i.e. cannot be

types; (3) they are typical *C. minimum*, and, therefore, both names are junior synonyms of this species.

***Carychium pessimum*** Pilsbry, 1901

Fig. 3 D

Pilsbry, 1901d: 562.

- Type locality: Tane-ga-shima, Osumi [Japan].
- Lectotype (Baker, 1963): ANSP No. 82481a.
- Dimensions: H 1.6-1.8, D 0.7-0.8 mm.
- Distribution: Primorye, Sakhalin (Prozorova, 2006; Prozorova, Kavun, 2007b).

***Carychium sibiricum*** Westerlund, 1897

Fig. 3 E

[= *Carychium pessimum* Pilsbry, 1902; *Carychium gerstfeldti* Schlesch, 1938]

Westerlund, 1897: 124.

- Type locality: “Amur”.
- Syntype: ZIN.
- Dimensions: H 1.75-1.95, D 0.75-0.80 mm.
- Distribution: deciduous and mixed forests of the Amur basin, Primorye, southern Sakhalin, Kurile Islands, southern Kamchatka (Likharev, Schileyko, MS).

***Carychium tridentatum*** (Risso, 1826)

Fig. 3 F

*Saraphia tridentata* Risso, 1826: 84-85.

- Type locality: not stated (Alpes Maritimes (southern France) – from title).
- Types: probably lost (Arnaud, 1978).
- Dimensions: H 1.6-2.3, D 0.8-1.0 mm.
- Distribution: common in East Europe, mainly in mixed and deciduous forests (including Carpathians), spreading in the north to St.-Petersburg, in the south (through steppe zone along non-climax formations) – to mountain-forest areas of Crimea inclusive. Widely distributed in mountain forests of Caucasus, but absent in forests of Lenkoran lowland and Talysh (Likharev, Schileyko, MS).

Superorder **STYLOMMATOPHORA** A. Schmidt, 1855

Remark: There are some families and genera among Stylommatophora, in which species can be reliably recognized mainly by anatomical characters. In such cases we recommend to use the following sources. For Succineidae: Schileyko, Likharev, 1986; for Cochlicopidae: Starobogatov, 1996; for Orculidae, Pupillidae, Vertiginidae and Enidae: Schileyko, 1984; for Valloniidae: Gerber, 1996; for Clausiliidae: Likharev, 1962a; for Zonitidae: Riedel, 1966, 1980; for Daudebardiidae: Schileyko, 1986; for slugs (mainly Limacidae and Arionidae): Likharev, Wiktor, 1980; for Bradybaenidae, Helicidae, and Hygromiidae: Schileyko, 1978b.

SUCCINEIDAE Beck, 1837

SUCCINEINAE Beck, 1837

***Novisuccinea*** Pilsbry, 1948

Type species: *Succinea ovalis* Say, 1817 (OD)

***Novisuccinea altaica*** (Martens, 1871)

Fig. 3 G

*Succinea altaica* Martens, 1871: 46, 50.

- Type locality: “Buchtarminsk” (later – Ust-Bukhtarma, now flooded by Bukhtarminskoe Water Reservoir; south-western Altai).
- Lectotype (Kilias, 1973): ZMB No. 20616a.
- Dimensions: H up to 14, D up to 8 mm.
- Distribution: Tien-Shan (Kirgiz, Zailiyskij, Kungei, Terskei ridges), Altai, Sayan, Tuva (Likharev, Schileyko, MS).

***Novisuccinea diserta*** Schileyko et Likharev, 1986

Fig. 3 H, I

Schileyko, Likharev, 1986: 215, figs 15, 16.

- Type locality: Transbaikalia, Khamar-Daban Ridge, valley of Solzan River.
- Holotype: ZIN.
- Dimensions: H up to 16, D up to 9 mm.
- Distribution: coastal areas of southern Baikal (Likharev, Schileyko, MS).
- Remark: Differs from all other Succineidae by subhorizontal suture, slightly convex parietal margin of aperture and pale-yellow color.

***Novisuccinea evoluta*** (Martens, 1879)

Fig. 4 A

[= *Succinea granulosa* Lindholm, 1927]

*Succinea evoluta* Martens, 1879: 126.

- Type locality: “Kuldsha” (Ining (Kuldja), northwest China).
- Lectotype (Kilias, 1973): ZMB No. 34825a.
- Dimensions: H up to 13, D up to 7 mm.
- Distribution: Tien-Shan (Kirgiz, Ferghana, Talassky ridges), Altai, Transbaikalia (Likharev, Schileyko, MS).

***Novisuccinea lyrata*** (Gould, 1859)

Fig. 4 B

[= *Succinea horticola* Reinhardt, 1877]

*Succinea lyrata* Gould, 1859: 40.

- Type locality: “Loo Choo” (Okinawa Island, Ryukyu Archipelago).
- Types: unknown.
- Dimensions: H up to 14, D up to 9 mm.



- Distribution: South Kurile Islands, South Sakhalin (Likharev, Schileyko, MS).
- Remark: See Remark to *Novisuccinea strigata*.

***Novisuccinea martensiana*** (Nevill, 1878)

Fig. 4 C

[= *Succinea martensiana* var. *gigas* Martens, 1882]

*Succinea martensiana* Nevill, 1878: 5, pl. 1, figs. 30, 31.

- Type locality: “Yarkand: Sasak Taka, Pasrobat”, north-western China.
- Syntypes: ZMB No. 30142.
- Dimensions: H up to 25, D up to 16 mm.
- Distribution: Tien-Shan (Likharev, Schileyko, MS).

***Novisuccinea strigata*** (L. Pfeiffer, 1855)

Fig. 4 D

[= *Succinea chrysis* Westerlund, 1883]

*Succinea strigata* Pfeiffer, 1855: 297.

- Type locality: “Port Clarence”, Alaska.
- Types: unknown.
- Dimensions: H up to 13.0, D up to 7.5 mm.
- Distribution: Kamchatka (Koryak National Area), Chukchi Peninsula (Likharev, Schileyko, MS).
- Remark: Similar to *Novisuccinea lyrata*, differs by moderately thin to rather solid shell and non-uniform color: paler radial rays alternate with darker ones (*N. lyrata* has very thin shell and uniform color).

***Pamirsuccinea*** Schileyko et Likharev, 1986

Type species: *Pamirsuccinea eximia* Schileyko et Likharev, 1986 (OD)

***Pamirsuccinea eximia*** Schileyko et Likharev, 1986

Fig. 4 E, 5 A

Schileyko, Likharev, 1986: 202, figs. 3, 4.

- Type locality: Pamir, vicinities of Roshtkala village, south-eastward of Khorog.
- Holotype: ZIN.
- Dimensions: H up to 9.4, D up to 5.7 mm.
- Distribution: species recorded in three localities in East Pamir: vicinities of Roshtkala, Yashikul, and Kudara villages on left bank of the Talimas River (Likharev, Schileyko, MS).
- Remark: See remark to *Succinella oblonga*.

***Succinea*** Draparnaud, 1801

Type species: *Helix putris* Linnaeus, 1758 (= *Succinea amphibia* Draparnaud, 1801) (SD Gray J.E., 1847)

***Succinea gladiator*** Schileyko et Likharev, 1986

Fig. 5 B

Schileyko, Likharev, 1986: 209, figs. 9, 10.

- Type locality: Tuva, mountain pass in Aradansky Ridge, on Kyzyl road, 190 km from Minusinsk.
- Holotype: ZMMU No. Lc-28513.
- Dimensions: H up to 17.8, D up to 11.0 mm.
- Distribution: type locality.

***Succinea lauta*** Gould, 1859

Fig. 5 C

Gould, 1859: 422.

- Type locality: “Hakodati” (Hakodate, southern Hokkaido, Japan).
- Lectotype (Johnson, 1964): USNM No. 24129.
- Dimensions: H up to 28, D up to 17 mm.
- Distribution: Amur Region, southern Khabarovsk Territory, Primorye Territory, South Sakhalin, South Kurile Islands (Likharev, Schileyko, MS).

***Succinea putris*** (Linnaeus, 1758)

Fig. 5 D

*Helix putris* Linnaeus, 1758: 774.

- Type locality: Europe.
- Types: unknown.
- Dimensions: H up to 20, D up to 12 mm.
- Distribution: nearly transpaleartic range; the species is replaced by a similar oriental species *S. lauta* in the Amur Region, southern Khabarovsk Territory, Primorye Territory, South Sakhalin, and South Kurile Islands (Likharev, Schileyko, MS).
- Remark: Due to high interpopulation variability, a lot of species and varieties of *S. putris* group have been described in the late 19th - early 20th centuries. The resolution of problem of their status requires an examination of type material or, at least, material from type localities. Since virtually all these forms were described from West Europe, at present it seems reasonable to refrain from ultimate judgements on their status in the absence of sufficient material. In any case, the material studied has shown the presence of a broad range of interpopulation variability of shell characters at constant anatomy.

***Succinella*** Mabilie, 1870

Type species: *Succinea oblonga* Draparnaud, 1801 (monotypy)

***Succinella oblonga*** (Draparnaud, 1801)

Fig. 5 E, F

*Succinea oblonga* Draparnaud, 1801: 56.

- Type locality: not stated (France – from title).
- Syntypes: NHMV, MNHN.

- Dimensions: H up to 7.5, D up to 4.5 mm.
- Distribution: Carpathians (Sverlova, 2006), East-European Plain, Crimea, Caucasus; spreading to Yenisei and West Altai in the east. Northern border of the range approximately coincides with that of mixed and broad-leaved forests (Likharev, Schileyko, MS).
- Remark: Shell has unreliable differences from *Pamirsuccinea eximia*, anatomically it differs by shorter vas deferens and a compact (not bilobed) prostate.

## OXYLOMINAE Schileyko et Likharev, 1986

### *Oxyloma* Westerlund, 1885

Type species: *Succinea hungarica* Hazay, 1881 (= *Succinea dunkeri* L. Pfeiffer, 1865) (monotypy)

### *Oxyloma ajanica* Schileyko et Likharev, 1986

Fig. 6 A

Schileyko, Likharev, 1986: 229, figs. 29, 30.

- Type locality: vicinities of Ayan settlement on the Okhotsk Sea coast.
- Holotype: ZIN.
- Dimensions: H up to 8.2, D up to 4.4 mm.
- Distribution: coast of Okhotsk and northern Japan seas, Kurile Islands (except southern) (Starobogatov et al., 2004), Iturup Island (Gusarov, 1999); Sakhalin (Prozorova, Berezhok, 2004).

### *Oxyloma dunkeri* (L. Pfeiffer, 1865)

Fig. 6 B

[= *Succinea hungarica* Hazay in Kobelt, 1880]

*Succinea dunkeri* Pfeiffer, 1865: 101.

- Type locality: bog in delta of Danube.
- Syntypes: ZMB.
- Dimensions: H up to 25, D up to 11 mm.
- Distribution: Ukraine: Kherson Region and vicinities of Melitopol (Sverlova, 2006); vicinities of Astrakhan, mountain Daghestan, Lenkoran lowland (Likharev, Schileyko, MS).

### *Oxyloma elegans* (Risso, 1826)

Fig. 6 C, D

[= *Succinea pfeifferi* Rossmässler, 1835]

*Succinea elegans* Risso, 1826: 59.

- Type locality: not stated (Alpes Maritimes (southern France) – from title).
- Syntypes: MNHN.
- Dimensions: H up to 20, D up to 9 mm.
- Distribution: Palearctic (Likharev, Schileyko, MS).

***Oxyloma hirasei*** (Pilsbry, 1901)

Fig. 6 E

*Succinea hirasei* Pilsbry, 1901a: 348.

- Type locality: Tsuchiura, Hitachi, eastern Hondo, Japan.
- Syntypes: ANSP No. 80993.
- Dimensions: H up to 12.5, D up to 6.5 mm.
- Distribution: Sakhalin (Prozorova, Berezhok, 2004).

***Oxyloma retusa*** (Lea, 1834)

Fig. 6 F

*Succinea retusa* Lea, 1834: 117.

- Type locality: vicinities of Cincinnati, Ohio, USA.
- Types: unknown.
- Dimensions: H up to 20, D up to 9 mm.
- Distribution: several records in Kamchatka, in Azabachiya River valley (Likharev, Schileyko, MS); Iturup Island (Gusarov, 1999).

***Oxyloma sarsi*** (Esmark in Esmark et Hoyer, 1886)

Fig. 6 G

[= *Oxyloma lejavai* Hudec, 1966]

*Succinea pfeifferi* var. *sarsi* Esmark – Esmark, Hoyer, 1886: 108, pl. 5, fig. 2.

- Type locality: not stated (northern Norway – from title).
- Types: unknown.
- Dimensions: H up to 20.0, D up to 5.5 mm.
- Distribution: most part of Palearctic, eastward to Yakutsk (Likharev, Schileyko, MS).

***Oxyloma starobogatovi*** Schileyko et Likharev, 1986

Fig. 7 A, B

Schileyko, Likharev, 1986: 227, figs. 27, 28.

- Type locality: Gorno-Altai Autonomous Region, Alagansky District, Surulukol lake, northern shore.
- Holotype: ZIN.
- Dimensions: H up to 11, D up to 6 mm.
- Distribution: type locality.

***Oxyloma stellifera*** (Schileyko, 1967)

Fig. 7 C, D

*Succinoides stelliferus* Schileyko, 1967: 24, fig. 1.

- Type locality: vicinities of Lenkoran.
- Holotype: ZMMU No. Lc-4944.
- Dimensions: H up to 8.6, D up to 5.3 mm.
- Distribution: Lenkoran lowland (Likharev, Schileyko, MS).
- Remark: Shell does not differ reliably from *O. elegans*. Anatomically it differs by inner structure of penis (see Schileyko, Likharev, 1986: 233-234).

## Addition to SUCCINEIDAE

***Succinea* [?*Oxyloma*] *insularis* Mousson, 1887**

Fig. 7 E

Mousson, 1887: 20-21, pl. 1, fig. 5.

- Type locality: “Ujsut” Island in the Amur River mouth.
- Syntype: ZMZ No. 519288.
- Dimensions: H up to 11, D up to 5 mm.
- Distribution: Lower part of Amur River valley (Ujsut Island, Puir settlement near Amur mouth (type locality and ZMMU collection).
- Remark: The name *Succinea insularis* has not been used in recent literature including the revision of Succineidae of the USSR (Schileyko, Likharev, 1986). Two species of the family are known from the area of the type locality: *Succinea lanta* Gould, 1859 and *Oxyloma ajanica* Schileyko et Likharev, 1986. It should be mentioned that Mousson (1887) clearly separated *S. lanta* and his *S. insularis*.

## COCHLICOPIDAE Hesse, 1922

Remark: Shells of *Cochlicopa* species are highly variable, therefore we conditionally follow Starobogatov (1996) but have some doubt in real existence of many of the listed species.

***Cochlicopa* Férussac, 1821**Type species: *Helix lubrica* Müller, 1774 (SD Westerlund, 1902)***Cochlicopa collina* (Drouët, 1855)**

Fig. 7 F

[= ?*Cochlicopa lubrica* var. *ovata* Jeffreys, 1862; ?*Cochlicopa lubrica* var. *viridula* Jeffreys, 1862; *Zua lubrica* var. *olivea* Locard, 1880; *Cochlicopa lubrica* var. *lacteola* Lindholm, 1911] *Achatina collina* Drouët, 1855: 46-47.

- Type locality: “près de Lyon, à Mouy-de-l’Oise, à Liézey, dans les Vosges” (France).
- Types: unknown.
- Dimensions: H 4.5-5.2, D 2.0-2.3 mm
- Distribution: Russia: Moscow, Leningrad, Irkutsk regions; Ukraine: Podolia and mountain Crimea (Starobogatov, 1996).

***Cochlicopa curta* Clessin, 1908**

Fig. 7 G

*Cochlicopa lubrica* var. *curta* Clessin, 1908: 8.

- Type locality: not stated (vicinities of Regensburg, Austria – from title).
- Types: unknown.
- Dimensions: H 4.6-5.1, D 2.1-2.3 mm.
- Distribution: Russia (southern Krasnoyarsk Region), Ukraine (Podolia and Zaporozhye Region), Georgia (Borzhomi) (Starobogatov, 1996).



***Cochlicopa dushanbensis*** Starobogatov, 1996

Fig. 7 H

Starobogatov, 1996: 119, fig. 4 F, G.

- Type locality: Dushanbe, garden of Institute of Zoology and Parasitology of Tajikistan Academy of Sciences.
- Holotype: ZIN.
- Dimensions: H 6.4-8.3, D 2.6-3.2 mm.
- Distribution: mountain areas of Central Asia from southern Tajikistan (unknown from Pamir) to Ferghana depression (Starobogatov, 1996).

***Cochlicopa hachijoensis*** Pilsbry, 1902

*Cochlicopa lubrica hachijoensis* Pilsbry, 1902: 57.

- Type locality: Hachijo-jima, Izu, Japan.
- Lectotype (Baker, 1963): ANSP No. 83383a.
- Dimensions: H 6.0, D 2.7 mm.
- Distribution: Sakhalin, South Kurile Islands, Moneron Island (Prozorova, Berezhok, 2004; Prozorova, Kavun, 2007b).

***Cochlicopa heptapotamica*** Starobogatov, 1996

Fig. 7 I

Starobogatov, 1996: 116-117, fig. 4B.

- Type locality: Karatal River bank at Kesken settlement, Alma-Ata Region, Kazakhstan.
- Holotype: ZIN.
- Dimensions: H 5.6-8.0, D 2.8-3.4 mm.
- Distribution: mountain regions of western Central Asia from Pamir to Zailiyskij Alatau Ridge (Starobogatov, 1996).

***Cochlicopa izzatullaevi*** Starobogatov, 1996

Fig. 7 J

Starobogatov, 1996: 118-119, fig. 4 D, E.

- Type locality: floodland of Sorbo River, Romit Wildlife Reservation, Tajikistan.
- Holotype: ZIN.
- Dimensions: H 6.8-7.4, D 2.7-3.2 mm.
- Distribution: from southern Tajikistan (unknown from Pamir) to Zailiyskij Alatau Ridge (Starobogatov, 1996).

***Cochlicopa kamchatica*** Starobogatov, 1996

Fig. 8 A

Starobogatov, 1996: 119-120, fig. 5 A, B.

- Type locality: Kamchatka, Milkovo, forest on the first terrace.
- Holotype: ZIN.
- Dimensions: H 6.0-6.3, D 2.6-2.8 mm.
- Distribution: Kamchatka (Starobogatov, 1996); North Kurile Islands (Pearce et al., 2002).

***Cochlicopa kurenkovi*** Starobogatov, 1996

Fig. 8 B

Starobogatov, 1996: 120-121, fig. 5C.

- Type locality: Kamchatka, Milkovo, forest on the first terrace.
- Holotype: ZIN.
- Dimensions: H 5.6-6.2, D 2.8-2.9 mm.
- Distribution: Kamchatka (Starobogatov, 1996); North Kurile Islands (Pearce et al., 2002).

***Cochlicopa kurilensis*** Starobogatov, 1996

Fig. 8 C

Starobogatov, 1996: 122-123, fig. 5F.

- Type locality: Shikotan Island (Kurile Islands), vicinity of Krabovaya (formerly Anama) inlet.
- Holotype: ZIN.
- Dimensions: H 5.0-5.7, D 2.2-2.6 mm.
- Distribution: Shikotan, Iturup, Kunashir, Zeleny islands (Kurile Islands), southern Sakhalin (Starobogatov, 1996).

***Cochlicopa likharevi*** Starobogatov, 1996

Fig. 8 D

Starobogatov, 1996: 121, fig. 5D.

- Type locality: Primorye Territory, Suputinsky Wildlife Reservation.
- Holotype: ZIN.
- Dimensions: H 6.0-7.4, D 2.8-3.1 mm.
- Distribution: Sikhote-Alin mountain system, Sakhalin (Starobogatov, 1996; Prozorova, Berezhok, 2004).

***Cochlicopa lubrica*** (Müller, 1774)

Fig. 8 E

[= *Bulimus nitidissimus* Krynicky, 1833; *Cionella columna* Clessin, 1875; *Cochlicopa repentina* Hudec, 1960]*Helix lubrica* Müller, 1774: 104-105.

- Type locality: Fridrichsdal (vicinities of Copenhagen).
- Types: unknown.
- Dimensions: H 5.3-6.5, D 2.5-2.9 mm.
- Distribution: forest, forest-steppe and steppe zones from West Europe to Irkutsk Region (Central Siberia) and to mountain regions of Central Asia (Likharev, Schileyko, MS); Kurile Islands (Shikotan, Paramushir, Atlasova) (Pearce et al., 2002).

***Cochlicopa lubricella*** (Ziegler in Porro, 1838)

Fig. 8 F

[= *Cochlicopa exigua* Menke, 1830 (nom. nud.); *Achatina lubrica* var. *fusiformis* Picard, 1840; *Glandina azorica* Albers, 1852; *Cionella pulchella* Mousson, 1873; *Cionella lubrica* var. *polita* Westerlund, 1887, non Porro, 1838; *Zua lubrica* f. *lacteola* Lindholm, 1911]

*Bulimus lubricus* var. *lubricella* Ziegler – Porro, 1838: 53-54.

- Type locality: Comasca Province (Italy).
- Types: unknown.
- Dimensions: H 5.1-6.1, D 2.0-2.5 mm.
- Distribution: Russia: European part, Siberia, Kamchatka, Primorye Territory (Ternei); Ukraine (Polesye to steppe zone), Georgia (Borzhom, Lagodekhi), Azerbaijan, Uzbekistan (mountain regions), Tajikistan (mountain regions) (Starobogatov, 1996).

***Cochlicopa lubricoides*** (Potiez et Michaud, 1838)

Fig. 8 G

[= *Bulimus lubricus* var. *lubricella* Stabile, 1846, non Porro, 1838; *Achatina nilsoni* Malm, 1851; *Bulimus maderensis* Lowe, 1852; *Bulimus subcylindricus* var. *exigua* Moquin-Tandon, 1855; *Cochlicopa lubrica* var. *columna* Clessin, 1875; *Ferussacia crassula* Fagot, 1879]

*Achatina lubricoides* Potiez, Michaud, 1838: 129.

- Type locality: “les Appennins, en Italie à Rimini”.
- Types: unknown.
- Dimensions: H 4.7-5.3, D 1.9-2.1 mm.
- Distribution: Russia: European part, Caucasus (Starobogatov, 1996).

***Cochlicopa maacki*** Starobogatov, 1996

Fig. 8 H

Starobogatov, 1996: 121-122, fig. 5E.

- Type locality: Amur River near mouth of Sungary River.
- Holotype: ZIN.
- Dimensions: H 6.0-6.5, D 2.7-2.8 mm.
- Distribution: Amur territory and Sikhote-Alin mountain system, Sakhalin (Starobogatov, 1996; Prozorova, Berezhok, 2004).

***Cochlicopa major*** (Bourguignat, 1864)

Fig. 8 I

*Ferussacia subcylindrica* var. *major* Bourguignat, 1864a: 36.

- Type locality: Alger and Oran (Algeria).
- Types: unknown.
- Dimensions: H 5.1-7.3, D 2.8-3.2 mm.
- Distribution: Russia (Orenburg and Irkutsk regions), Ukraine (Poltava, Rovno, Chernigov, Kiev, Vinnitza regions) (Starobogatov, 1996).

***Cochlicopa minima*** (Siemaschko, 1847)

[= *Cionella lubrica* var. *litaunica* Westerlund, 1887; *Cionella lubrica* var. *preifferi* sensu Westerlund, 1874, non Weinland, 1874]

*Achatina minima* Siemaschko, 1847: 111, pl. 1, fig. 4.

- Type locality: “bei Riga” (Latvia).
- Types: unknown.

- Dimensions: H 4.2, D 1.8 mm.
- Distribution: Ukraine (Ternopol Region) (Starobogatov, 1996).
- Remark: The identity of the species remains uncertain because no types are known to exist, and no specimens explicitly identified by Starobogatov have been found in the ZIN collection.

***Cochlicopa mukhitdinovi*** Starobogatov, 1996

Fig. 8 J

Starobogatov, 1996: 117-118, fig. 4C.

- Type locality: Kuramin Range near Bobokir village, Asht District, Khodjend Region, Tajikistan.
- Holotype: ZIN.
- Dimensions: H 7.1-7.9, D 3.1-3.3 mm.
- Distribution: from Pamir to Kuramin Range, probably also in mountain ranges of Tien-Shan system in north Tajikistan (Starobogatov, 1996).

***Cochlicopa nitens*** (Gallenstein, 1852)

Fig. 8 K, L

*Achatina nitens* Gallenstein, 1852: 75.

- Type locality: Klagenfurt, Karintia (Austria).
- Syntypes: SMF No. 166385/7.
- Dimensions: H 6.3-7.3, D 3.0-3.5 mm.
- Distribution: East-European Plain, Crimea, Caucasus, and southern Siberia (Likharev, Schileyko, MS).

***Cochlicopa pfeifferi*** (Weinland, 1874)

Fig. 8 M

*Cionella pfeifferi* Weinland, 1874: 36, textfig.

- Type locality: “in montibus, quos dicunt “Albem Suevicam” prope Hohen-Wittlingen” (Baden-Württemberg, Germany).
- Types: unknown.
- Dimensions: H 6.2-6.8, D 2.6-3.0 mm.
- Distribution: Russia (Orenburg Region), Ukraine (Ternopol Region) (Starobogatov, 1996).

***Cochlicopa potanini*** Starobogatov, 1996

Starobogatov, 1996: 125-126, fig. 7A.

- Type locality: China, province Shensi, Hoang-Ho valley, Tsing-Yang.
- Holotype: ZIN.
- Dimensions: H 6.3-7.0, D 2.7-2.8 mm.
- Distribution: Distribution: China, loess plateau and arid regions of eastern Mongolia. It may be found in Russia in Chita Region near the border of eastern Mongolia, in desert and semi-desert landscapes (Starobogatov, 1996.)

***Cochlicopa pseudonitens*** Uvalieva, 1967

Fig. 8 N

Uvalieva, 1967: 215, figs. 2, 3.

- Type locality: South Altai Mountains, floodplain of Malaya Narymka River.
- Holotype: ZIN.
- Distribution: species found in three localities in South Altai: in Malaya Narymka river valley, on bank of Bolshaya Narymka river, and in vicinities of Verkhne-Katunsk village (Likharev, Schileyko, MS).
- Dimensions: H 7.5-8.0, D 3.4-3.6 mm.
- Remark: Records of the species from mountains of Uzbekistan and Tajikistan are based on misidentification (Starobogatov, 1996).

***Cochlicopa shikotanica*** Starobogatov, 1996

Fig. 8 O

Starobogatov, 1996: 122, fig. 5F.

- Type locality: Shikotan Island (Kurile Islands), vicinity of Krabovaya (formerly Anama) inlet.
- Holotype: ZIN.
- Dimensions: H 5.0-5.7, D 2.4-2.6 mm.
- Distribution: Shikotan, Iturup, Kunashir, Zeleny islands (Kurile Islands), southern Sakhalin (Starobogatov, 1996).

**ORCULIDAE** Steenberg, 1925

**ORCULINAE** Steenberg, 1925

***Orcula*** Held, 1837

Type species: *Pupa dolium* Draparnaud, 1801 (SD Herrmannsen, 1847)

***Orcula dolium*** (Draparnaud, 1801)

Fig. 9 A

*Pupa dolium* Draparnaud, 1801: 58-59.

- Type locality: not stated (France – from title).
- Syntype: NHMV.
- Dimensions: H 5.0-8.5, D 2.6-3.6 mm.
- Distribution: may probably occur in Transcarpathia (Likharev, Schileyko, MS).

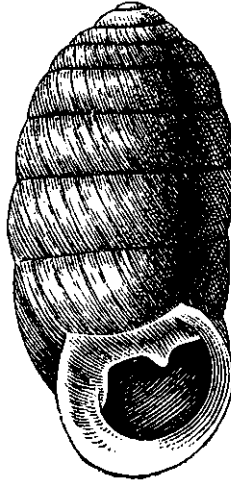
***Orculella*** Steenberg, 1925

Type species: *Pupa orientalis* L. Pfeiffer, 1861 (OD)

***Orculella bulgarica*** (Hesse, 1915)

Textfig. 3

*Orcula bulgarica* Hesse, 1915: 62.




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**Textfig. 3.** *Orculella bulgarica*, after Likharev, Rammelmeyer, 1952.

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- Type locality: Bulgaria, vicinities of Varna.
- Types: unknown.
- Dimensions: H 6.5-8.0, D 2.0-3.2 mm.
- Distribution: Caucasus: probably near Anapa, debris of Araks River near Darosham (Nakhichevan), and eastern coast of Sevan Lake near mouth of Masrik River. The species has never been found alive (Likharev, Schileyko, MS).
- Remark: Similar to *Orcula dolium*, differs by the presence of a single tooth in the aperture – short parietal lamella.

***Orculella pfeifferi*** Hausdorf, 1996

Fig. 9 B

Hausdorf, 1996a: 28-29, textfig. 12, pl. 2, figs. 23-24.

- Type locality: “V. Van: Insel Achtamar, 1750 m” (NE Turkey).
- Holotype: SMF No. 311144.
- Dimensions: H 7.6-9.6, D 2.8-3.3 mm.
- Distribution: single finding in Armenia (“Puraghan, N Ečmiadzin”) (Hausdorf, 1996a).
- Remark: Differs from all other Orculidae by very slender outline of shell, quite distinct and well limited thickenings of aperture margins, very low parietal lamella and slightly visible at standard position of shell the lower end of columellar lamella.

***Orculella ruderalis*** Akramowski, 1947

Fig. 9 C

*Orculella scyphus ruderalis* Akramowski, 1947: 179, figs. 1, 2.

- Type locality: Armenia, Ekhegnadzor district, Gnishik village, “Khozanner” area.

- Holotype: ZIN.
- Dimensions: H 5-6, D 2.2-2.5 mm.
- Distribution: several localities near Gnishik village, Armenia (Likharev, Schileyko, MS).

***Pilorcula* Germain, 1912**

Type species: *Pupa raymondi* Bourguignat, 1863 (monotypy)

***Pilorcula* (?) *aspinosa* Hausdorf, 1996**

Fig. 9 D

Hausdorf, 1996a: 56-57, pl. 6, fig. 74.

- Type locality: “Georgien: 3 km E Tkvarčeli”.
- Holotype: SMF No. 311152.
- Dimensions: H 4.3, D 2.0 mm.
- Distribution: type locality (Hausdorf, 1996a).
- Remark: Differs from all other representatives of *Pilorcula* by the total absence of periostracal spines.

***Pilorcula pusilla* Hausdorf, 1996**

Fig. 9 E

Hausdorf, 1996a: 57, pl. 6, fig. 75.

- Type locality: “Georgien: Novyj Afon, Nadelwald am Psurrcha-Bach”.
- Holotype: SMF No. 311153.
- Dimensions: H 2.7-3.0, D 1.6-1.7 mm.
- Distribution: type locality (Hausdorf, 1996a).

***Pilorcula trifilaris trifilaris* (Mousson, 1863)**

Fig. 9 G

*Pupa trifilaris* Mousson, 1863: 391.

- Type locality: Redutkaleh (northward of Poti).
- Lectotype (Hausdorf, 1996a): ZMZ No. 514413a.
- Dimensions: H 3.7-5.0, D 1.8-2.1 mm.
- Distribution: Colchis lowland, western part of Great Caucasus northward to Maikop, along northern slopes of Great Caucasus to Vladikavkaz in the east (Likharev, Schileyko, MS).

***Pilorcula trifilaris longior* Hausdorf, 1996**

Fig. 9 H

[= *Pupa (Orcula) doliolum* var. *intermedia* Retowski, 1883, non Morelet, 1851; *Pupa (Orcula) Raimondi* var. *bifilaris* f. *longior* Retowski, 1889; *Orcula raimondi* O. Boettger, 1905, part.]  
Hausdorf, 1996a: 60-62, textfig. 28, figs. 82-83.

- Type locality: “V. Zonguldak: Abas (ca. 10 km W Zonguldak)” (Turkey).
- Holotype: SMF No. 311154.
- Dimensions: H 4.5-7.0, D 2.1-3.1 mm.
- Distribution: Crimea (Retowski, 1883, as *Pupa (Orcula) doliolum* var. *intermedia*), possibly Adzharia (deposits of the river Chorokh near Batumi) (Hausdorf, 1996a).

***Pilorcula trifilaris quadrifilaris*** (Rosen, 1905)

Fig. 9 F, I

[= *Pupa bifilaris* sensu Retowski, 1883, non Mousson, 1873; *Pupa bifilaris* sensu O. Boettger, 1884, non Mousson, 1873; *Pupa raimondi* var. *bifilaris* sensu Rosen, 1905, part., non Mousson, 1873]

*Pupa Raimondi* f. *quadrifilaris* Rosen, 1905: 57.

- Type locality: “Im Psekupsauswurfe” (Krasnodar Territory).
- Syntype: SMF No. 4593.
- Dimensions: H 4.2-6.2, D 1.8-2.2 mm.
- Distribution: maritime areas of Krasnodar Territory and Abkhazia (Hausdorf, 1996a).

***Schileykula*** Gittenberger, 1983

Type species: *Orcula batumensis* sensu Hesse, 1924 (OD)

***Schileykula batumensis*** (Retowski, 1889)

Fig. 10 A, B

[= *Pupa kaznakovi* Rosen, 1914]

*Pupa (Orcula) doliolum* var. *batumensis* Retowski, 1889: 254.

- Type locality: “V. Artvin: Genist des Çoruh Nehri” (E Turkey) [from lectotype label]; “im Auswurfe des Tschorok bei Batum” [from the original publication].
- Lectotype (Zilch in Neubert, 1993): SMF 3607a.
- Dimensions: H 6.1-8.9, D 2.8-3.3 mm.
- Distribution: Adzharia (a single doubtless finding in debris of the Chorokh river near Batumi) (Likharev, Schileyko, MS).

***Sphyradium*** Charpentier, 1837

Type species: *Bulimus doliolum* Bruguière, 1792 (SD Martens in Albers, 1860)

***Sphyradium doliolum*** (Bruguière, 1792)

Fig. 10 C

[= *Pupa bifilaris* Mousson, 1873]

*Bulimus doliolum* Bruguière, 1792: 351.

- Type locality: vicinities of Paris.
- Types: unknown.
- Dimensions: H 4-6, D 2.2-2.4 mm.
- Distribution: Crimea, Caucasus (Likharev, Schileyko, MS), western and central Ukraine (Sverlova, 2006).

## PAGODULININAE Pilsbry, 1924

***Pagodulina*** Clessin, 1876

Type species: *Pupa pagodula* Des Moulins, 1830 (monotypy)



***Pagodulina lederi lederi*** (O. Boettger, 1886)

Fig. 10 D

*Pagodina pagodula* var. *lederi* Boettger, 1886a: 305, pl. 3, fig. 8.

- Type locality: Talysh.
- Lectotype (Zilch, 1947): SMF No. 3726.
- Dimensions: H 3.2-3.8, D 1.9-2.2 mm.
- Distribution: Elburz Range, including Talysh mountains (Likharev, Schileyko, MS).

***Pagodulina pagodula*** (Des Moulins, 1830)

Fig. 10 E

*Pupa pagodula* Des Moulins, 1830: 158, figs. 1-3.

- Type locality: Périgord (southwestern France, western part of Massif Centrale).
- Types: unknown.
- Dimensions: H 2.8-4.0, D 1.8-2.5 mm.
- Distribution: probably occurs in Transcarpathian area (Likharev, Schileyko, MS).

LAURIINAE Steenberg, 1925

***Euxinolauria*** Lindholm, 1924

Type species: *Pupa (Charadrobia) pulchra* Retowski, 1883 (OD)

***Euxinolauria caucasica*** (L. Pfeiffer, 1857)

Fig. 10 G

*Pupa caucasica* Pfeiffer, 1857: 88.

- Type locality: Kazbek.
- Types: unknown.
- Dimensions: H 5.0-6.5, D 2.5-3.0 mm.
- Distribution: broad-leaved forests of central and eastern areas of southern slopes of Great Caucasus (Likharev, Schileyko, MS).

***Euxinolauria glomerosa*** Suvorov et Schileyko, 1991

Fig. 10 F, textfig. 4

Suvorov, Schileyko, 1991: 76, figs. 6, 7.

- Type locality: vicinities of Tzoniarisi village on Meskheti Ridge, Adzharia.
- Holotype: ZMMU No. Lc-17812 (broken by species' authors).
- Dimensions: H 3.10-3.85, D 2.35-2.50 mm.
- Distribution: type locality; found in Botanical Garden of Batumi (Egorov, Greke, 2005).

***Euxinolauria honesta*** Suvorov et Schileyko, 1991

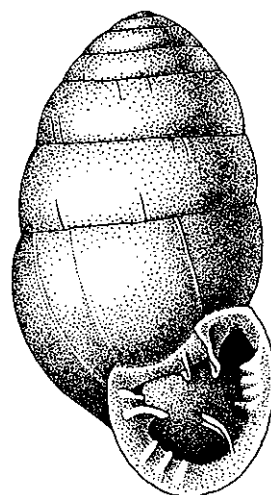
Textfig. 5

Suvorov, Schileyko, 1991: 75, fig. 5.

- Type locality: mountain pass Beshumi on Arsiyan Ridge, Adzharia (2250 m above sea level).



**Textfig. 4.** *Euxinolauria glomerosa*, holotype, after Suvorov, Schileyko, 1991.



**Textfig. 5.** *Euxinolauria honesta*, holotype, after Suvorov, Schileyko, 1991.

- Holotype: ZMMU No. Lc-17811 (broken by species' authors).
- Dimensions: H 4.3, D 2.3 mm.
- Distribution: type locality.

***Euxinolauria mica*** Schileyko, 1998

Fig. 11 A

Schileyko, 1998a: 77, fig. 81 (nom. nov. pro *Euxinolauria zonifera* sensu Schileyko, 1975c, 1984, non *Lauria zonifera* Pilsbry, 1934)

- Type locality: Caucasian Reserve, vicinities of Guzeripl.
- Holotype: ZIN.
- Dimensions: H 3-4, D 1.8-2.0 mm.
- Distribution: Known only from several findings in type locality (near Guzeripl, western part of Great Caucasus) (Likharev, Schileyko, MS).

***Euxinolauria nemethi*** (Hausdorf, 1996)

Fig. 11 B

*Leiostylax nemethi* Hausdorf, 1996b: 111-112, fig. 1.

- Type locality: Northwestern Caucasus: Mamta valley at km 26/33 in the gorge in direction to Krasnaya Poljana.
- Holotype: SMF No. 311169.
- Dimensions: H 4.0-4.4, D 1.7 mm.
- Distribution: Mamta and Hosta valleys (vicinities of Sochi, Krasnodar Territory) (Hausdorf, 1996b); vicinity of Sukhumi (Abkhazia) (Egorov, Greke, 2005)

***Euxinolauria paulinae*** (Lindholm, 1913)

Fig. 11 C

[= *Lauria paulinae unicumellaris* Lindholm, 1914; *Leiostyla adolfi* Pokryszko, 1991]

*Lauria paulinae* Lindholm, 1913: 62-63.

- Type locality: "Notanebi, 37 Werst nördlich von Batumi".
- Lectotype (Schileyko, 1984): ZIN.
- Dimensions: H 3.08-3.68, D 1.71-2.15 mm.
- Distribution: maritime regions of Adzharia, 40-50 km around Batumi (Likharev, Schileyko, MS).

***Euxinolauria pulchra*** (Retowski, 1883)

Fig. 11 D

[= *Pupa pulchra* f. *bilabiata* Retowski, 1887; *Lauria pulchra* var. *nitens* O. Boettger, 1888;

*Pupa pontica* Retowski, 1889]

*Pupa (Charadrobia) pulchra* Retowski, 1883: 57-58.

- Type locality: Sudak (southern coast of Crimea).
- Types: unknown.
- Dimensions: H 3.4-4.5, D 2.0-2.2 mm.
- Distribution: south-western and western parts of Great Caucasus, western part of Lesser Caucasus (Likharev, Schileyko, MS).

***Euxinolauria rectidentata*** Schileyko, 1975

Fig. 12 A, B

Schileyko, 1975: 1769, figs. 1(1-2), 6(1).

- Type locality: valley of the Machakheli-tzkali river in Adzharia.
- Holotype: ZIN (not found).
- Dimensions: H 2.7-3.1, D 1.3-1.5 mm.
- Distribution: type locality and vicinities of Khelvachauri (Adzharia) (Egorov, Greke, 2005).

***Euxinolauria silicea*** Schileyko, 1975

[= *Lauria pulchra* sensu Hudec et Lezhawa, 1969, non *Pupa pulchra* Retowski, 1883]

Schileyko, 1975: 1777, figs. 6, 8.

- Type locality: Tekhuri river valley, south-western part of Great Caucasus, upstream of Taleri village.
- Holotype: ZIN (not found).
- Dimensions: H 3.7, D 2.0 mm.
- Distribution: two findings in type locality.

***Euxinolauria sinangula*** Schileyko, 1975

Fig. 12 C

Schileyko, 1975: 1775, figs. 3 (3-4), 6, 7.

- Type locality: Batumi Botanical Garden.
- Holotype: ZIN (not found).

- Dimensions: H 4.3-4.5, D 2.5-2.8 mm.
- Distribution: two findings in type locality.

***Euxinolauria superstructa*** (Mousson, 1876)

Fig. 12 D, E

[= *Pupa superstructa* var. *lederi* O. Boettger, 1883; *Pupa superstructa* var. *unibasalis* O. Boettger, 1886; *Lauria zonata* mut. *albina* O. Boettger, 1889]

*Pupa* (*Pupilla*) *superstructa* Mousson, 1876a: 37-38, pl. 2, fig. 7.

- Type locality: "Lailasch, gouvernement de Koutaï's" (Svaneti Ridge).
- Syntypes: ZMZ Nos. 514508, 514509.
- Dimensions: H 3.3-5.3, D 2.4-2.5 mm.
- Distribution: Black Sea maritime area of Caucasus, Novorossiysk to Adzharia (Likharev, Schileyko, MS).

***Euxinolauria tenuimarginata*** (Pilsbry, 1922)

Fig. 11 E

*Lauria tenuimarginata* Pilsbry, 1922: 76, pl. 10, figs. 1-2.

- Type locality: Notanebi, 40 km N of Batumi.
- Lectotype (Baker, 1963): ANSP No. 130116.
- Dimensions: H 2.8-3.5, D 2.0-2.2 mm.
- Distribution: species found in three localities of south-western Transcaucasia: near Notanebi station, 40 km northward of Batumi; near Chakvistavi village, 20 km eastward of Batumi; and in Batumi Botanical Garden at Zelenyi Mys, in Colchis forest grove (Likharev, Schileyko, MS).

***Euxinolauria vitrea*** (Schileyko, 1988)

Fig. 12 F

*Speleodentorcula vitrea* Schileyko, 1988a: 1303, fig. 1 (I).

- Type locality: West Caucasus, Verkhnekazachjebrodskaya Cave on River Mzymta.
- Holotype: ZMMU No. Lc-14441.
- Dimensions: H 4.2, D 2.3 mm.
- Distribution: type locality; north-western vicinity of Adler (Black Sea coast of Russia), right side of Mzymta ravine, Ashtyr Cave (Egorov, Greke, 2005).

***Euxinolauria zonifera*** (Pilsbry, 1934)

Fig. 11 F

[= *Pupa superstructa* var. *zonata* O. Boettger, 1883, non *Pupa zonata* Gassies, 1869]

*Lauria zonifera* Pilsbry, 1934: 139 (nom. nov. pro *Pupa zonata* O. Boettger, 1883).

- Type locality: Tzebelda on River Kodori, Abkhazia.
- Lectotype (Zilch, 1985): SMF No. 4636.
- Dimensions: H 3.2-4.1, D 2.0-2.5 mm.
- Distribution: western regions of Great Caucasus, Colchis lowland, and Black Sea maritime part of Lesser Caucasus (Likharev, Schileyko, MS).

**Lauria** Gray, 1840

Type species: *Pupa umbilicata* Draparnaud, 1801 (= *Turbo cylindracea* Da Costa, 1778) (SD Herrmannsen, 1847)

**Lauria cylindracea** (Da Costa, 1778)

Fig. 12 G, H

[= *Pupa umbilicata* Draparnaud, 1801; *Pupa sempronii* Charpentier, 1837; *Pupa dilucida* Rossmässler, 1837; *Lauria cymmetrica* Puzanov, 1925]

*Turbo cylindraceus* Da Costa, 1778: 89.

- Type locality: Middlesex and Surrey, Lincolnshire, Morsley, Northamptonshire, Flintshire (England).
- Types: unknown.
- Dimensions: H 2.3-4.5, D 1.5-2.0 mm.
- Distribution: mountain-forest Crimea, Transcaucasia, possibly Daghestan and West Kopet Dagh (Likharev, Schileyko, MS).

**ARGNINAE** Hudec, 1965

**Argna** Cossmann, 1899

Type species: *Pupa ferrari* Porro, 1838 (OD)

**Argna bielzi** (Rossmässler, 1859)

Fig. 12 I, J

*Pupa bielzi* Rossmässler, 1859: 109, pl. 85, fig. 942.

- Type locality: “Nagy Falu, unweit Bethlen” (southern Transylvania).
- Lectotype (Zilch, 1985): SMF No. 51716/2.
- Dimensions: H 4.5-5.5, D 1.6-2.0 mm.
- Distribution: mountain and foothill areas of Ukrainian (Forested) Carpathians (Likharev, Schileyko, MS).

**STROBILOPSIDAE** Pilsbry, 1918

**Eostrobilops** Pilsbry, 1927

Type species: *Strobilops hirasei* Pilsbry, 1927 (OD)

**Eostrobilops coreana** (Pilsbry, 1927)

Fig. 13 A

*Strobilops coreana* Pilsbry, 1927b: 43, pl. 10, figs. 8-10.

- Type locality: vicinities of Pyongyang ((North Korea).
- Lectotype (Baker, 1963): ANSP No. 99967a.
- Dimensions: H 1.8-2.0, D 2.5-3.1 mm.
- Distribution: Kedrovaya Pad Natural Reserve (southern Primorye Territory) (Likharev, Schileyko, MS; Prozorova et al., 2006).

## VALLONIIDAE Morse, 1864

## ACANTHINULINAE Steenberg, 1918

**Acanthinula** Beck, 1847

Type species: *Helix aculeata* Müller, 1774 (monotypy)

**Acanthinula aculeata** (Müller, 1774)

Fig. 13 B

*Helix aculeata* Müller, 1774: 81-82.

- Type locality: Fridrichsdal (vicinities of Copenhagen).
- Types: unknown.
- Dimensions: H 1.7-2.1, D 2.0-2.3 mm.
- Distribution: most part of European territory of Russia, eastward to about 40° E, northward to latitude of Petrozavodsk; mountain Crimea, Caucasus, highland regions of Central Asia (not found in Kopet Dagh) (Likharev, Schileyko, MS); western, central and northern Ukraine (Sverlova, 2006).

**Spermodea** Westerlund, 1902

Type species: *Helix lamellata* Jeffreys, 1830 (monotypy)

**Spermodea lamellata** (Jeffreys, 1830)

Fig. 13 C

*Helix lamellata* Jeffreys, 1830: 333.

- Type locality: Scarborough, York, eastern England.
- Types: unknown.
- Dimensions: H 1.9-2.3, D 2.0-2.3 mm.
- Distribution: Kaliningrad Region (Likharev, Schileyko, MS); probably one record from western Ukraine (Sverlova, 2006).

**Zoogenetes** Morse, 1864

Type species: *Helix harpa* Say, 1824 (monotypy)

**Zoogenetes harpa** (Say, 1824)

Fig. 13 D

[= *Helix amurensis* Gerstfeldt, 1859]

*Helix harpa* Say, 1824: 256, pl. 15, fig. 1.

- Type locality: “North-west Territory” (North America).
- Types: unknown.
- Dimensions: H 3-5, D 2.5-3.5 mm.
- Distribution: Circumboreal-Alpine species. Russia: north of European part, Siberia, Kamchatka, Commander and Kurile islands, Sakhalin; to Sikhote-Alin along eastern coast of Asia; a single record in Great Caucasus (near Teberda, 2200 m above sea level) (Likharev, Schileyko, MS; Prozorova, Berezhok, 2004).

VALLONIINAE Morse, 1864

**Planogyra** Morse, 1864

Type species: *Helix asteriscus* Morse, 1857 (monotypy)

**Planogyra asteriscus** (Morse, 1857)

Fig. 13 E

*Helix asteriscus* Morse, 1857: 128.

- Type locality: Bethel, Oxford Co., Maine, USA
- Types: unknown.
- Dimensions: H 0.9-1.0, D 1.7-1.9 mm.
- Distribution: Russian Far East (Vanino in Khabarovsk Territory, South Sakhalin, Moneron Island and southern Kurile Islands) (Prozorova, Kavun, 2007b, as *Planogyra* sp.; ZMMU collection).

**Vallonia** Risso, 1826

Type species: *Vallonia rosalia* Risso, 1826 (= *Helix pulchella* Müller, 1774) (monotypy)

Remark: Morelet (1858) described *Helix flocculus* from vicinities of Petropavlovsk, Kamchatka. This species could belong to *Vallonia* or *Punctum*, but its status is uncertain, whereas the type material was not found (Gerber, 1996).

**Vallonia asiatica** (Nevill, 1878)

Fig. 14 A

[= *Vallonia ladacensis* sensu Schileyko, 1984, part.]

*Helix* (*Vallonia*) *costata* var. *asiatica* Nevill, 1878: 4.

- Type locality: “Wakhan” (Afghanistan).
- Lectotype (Gerber, 1996): Zoological Survey of India (Calcutta) No. M23209.
- Dimensions: H 1.05-1.60, D 2.27-3.25 mm.
- Distribution: Armenia, mountain regions of Central Asia (Gerber, 1996).

**Vallonia chinensis** Suzuki, 1944

Fig. 14 B

[= *Vallonia chinensis* Tokunaga et Naora, 1939, nom. nud.]

Suzuki, 1944: 375, pl. 33, figs. 1-4, 9, 10.

- Type locality: “Kuhsiangtung, Harbin, Manchouko” (China, Manchuria, Haerhpin [Harbin]; fossil).
- Holotype: “Sigenkagaku Kenskyusyo, Tokyo” (after Suzuki, 1944); apparently lost (Gerber, 1996).
- Dimensions: H 1.47-1.61, D 2.66-2.90 mm.
- Distribution: the species is known from a single Recent shell collected by Maak on “Amur” Gerber, 1996).

***Vallonia costata*** (Müller, 1774)

Fig. 14 C

[= *Vallonia rosalia* Risso, 1826]*Helix costata* Müller, 1774: 31.

- Type locality: Fridrichsdal (vicinities of Copenhagen).
- Types: unknown.
- Dimensions: H 1.09-1.41, D 2.07-2.85 mm.
- Distribution: Holarctic (Likharev, Schileyko, MS).

***Vallonia enniensis*** (Gredler, 1856)

Fig. 14 D

[= *Helix costellata* Sandberger, 1875]*Helix pulchella* var. *enniensis* Gredler, 1856: 56.

- Type locality: “Talgrund des Talfer-Baches bei Bozen” (Trentino-Alto Adige, northern Italy).
- Lectotype (Gerber, 1996): SMF No. 193139a.
- Dimensions: H 1.1-1.4, D 2.06-2.60 mm.
- Distribution: Latvia, Transcarpathia, Ciscarpathia, Moscow Region, vicinities of Novorossiysk (Likharev, Schileyko, MS).

***Vallonia excentrica*** Sterki in Pilsbry, 1893

Fig. 14 E, F

Pilsbry, 1893: 249-251, pl. 32, figs. 6-9.

- Type locality: USA, New York, Staten Island.
- Lectotype (Pilsbry, 1948): ANSP No. 10080.
- Dimensions: H 1.11-1.35, D 2.04-2.50 mm.
- Distribution: species widely but locally distributed over Holarctic territory; presence in Siberia requires confirmation (Likharev, Schileyko, MS); Kunashir (Kurile Islands) (Pearce et al., 2002).

***Vallonia kamtschatica*** Likharev, 1963

Fig. 15 A, B

*Vallonia cyclophorella kamtschatica* Likharev, 1963: 70, fig. 2.

- Type locality: Kamchatka, vicinities of Milkovo.
- Holotype: ZIN.
- Dimensions: H 1.09-1.50, D 2.17-2.70 mm.
- Distribution: Kamchatka, vicinities of Ayan (Okhotsk Sea coast) (Likharev, Schileyko, MS); Siberia (Daurisky Ridge, Irkutsk, Krasnoyarsk, Sayan Ridge), Kunashir, Simushir (Kurile Islands) (Gerber, 1996), Altai (Pokryszko, Horsák, 2007).

***Vallonia ladacensis*** (Nevill, 1878)

Fig. 15 C

[= *Vallonia miserrima* Gude, 1914]*Helix (Vallonia) ladacensis* Nevill, 1878: 4.



- Type locality: “Mataian in the Dras valley (Ladak)” (India, Kashmir).
- Lectotype (Rajagopal, Subba Rao, 1972): Zoological Survey of India (Calcutta) No. M18328.
- Dimensions: H 1.41-1.95, D 2.99-3.62 mm.
- Distribution: mountain regions of Central Asia (Tien-Shan, Altai) (Likharev, Schileyko, MS; Gerber, 1996; Pokryszko, Horsák, 2007).

***Vallonia mionecton mionecton*** (O. Boettger, 1889)

Fig. 15 D, E

*Helix* (*Vallonia*) *adela* var. *mionecton* Boettger, 1889: 941, pl. 26, fig. 11 a-d.

- Type locality: “Transcaspien. Auf dem Gipfel des Agh-dagh im Kopet Dagh” (northern Iran).
- Lectotype (Zilch, 1969): SMF No. 3738.
- Dimensions: H 1.10-1.38, D 2.4-2.8 mm.
- Distribution: Tajikistan: Zeravshan and Hissar Ridges (Gerber, 1996).

***Vallonia mionecton schamhalensis*** Rosen, 1892

Fig. 15 F

*Vallonia mionecton* var. *schamhalensis* Rosen, 1892: 125.

- Type locality: “Schamhala in Chorassan” (northern Iran).
- Lectotype (Gerber, 1996): SMF No. 3742a.
- Dimensions: H 1.10-1.25, D 2.29-2.72 mm.
- Distribution: Tajikistan/Uzbekistan: Chasret-Sultan Mountains (Gerber, 1996).

***Vallonia patens patens*** Reinhardt, 1883

Fig. 16 A

[= *Vallonia costata* var. *amurensis* Sterki in Pilsbry, 1893]

Reinhardt, 1883: 43.

- Type locality: “Powantschan in China (Prov. Chili)” (China, Hebei: “Bao-hwa-shan”).
- Lectotype (Yen, 1939): SMF No. 42466.
- Dimensions: H 0.94-1.12, D 2.14-2.34 mm.
- Distribution: besides two records in the Amur valley, the species was also found in forests of Primorye Territory, in vicinities of Vladivostok and on many islands in the Peter the Great Bay (Likharev, Schileyko, MS, as *Vallonia amurensis*; Gerber, 1996).

***Vallonia peteri*** Schileyko, 1984

Fig. 16 B

*Vallonia tenuilabris peteri* Schileyko, 1984: 169, fig. 90 (VI).

- Type locality: Primorye Territory, Peter the Great Bay, Kozlov Island.
- Holotype: ZIN (not found).
- Dimensions: H 1.08-1.15, D 2.10-2.47 mm.
- Distribution: species found on following islands of Peter the Great Bay: Kozlov, Dva Brata, Verkhovskoy, Pakhtusov, Vera (Likharev, Schileyko, MS).

***Vallonia pulchella*** (Müller, 1774)

Fig. 16 C

[= *Helix adela* Westerlund, 1874; *Helix extrema* Westerlund, 1898]*Helix pulchella* Müller, 1774: 30.

- Type locality: Fridrichsdal (vicinities of Copenhagen).
- Types: unknown.
- Dimensions: H 1.04-1.51, D 2.00-2.75 mm.
- Distribution: Holarctic (Likharev, Schileyko, MS).

***Vallonia pulchellula tenerrima*** Gerber, 1996

Fig. 16 F

Gerber, 1996: 136-137, figs. 2h, 3r, 48d, 52a-c.

- Type locality: Vladivostok, SSE part of Egersheld Peninsula, ca. 200 m from refueling station toward Cape Tokarevskogo.
- Holotype: Zoologische Staatssammlung, München No. 1885/1.
- Dimensions: H 0.96-1.30, D 2.00-2.55 mm.
- Distribution: Vladivostok (Gerber, 1996).

***Vallonia tenuilabris*** (Al. Braun, 1843)

Fig. 16 E

*Helix tenuilabris* Braun, 1843: 143.

- Type locality: “im Löss von Wiesbaden” (Germany, Hessen).
- Types: unknown.
- Dimensions: H 1.35-1.92, D 2.54-3.53 mm.
- Distribution: Siberia, mountain regions of Central Asia, Amur basin (Likharev, Schileyko, MS).

***Vallonia zaru*** Almuhambetova, 1979

Fig. 16 D

Almuhambetova, 1979: 32, fig. 3.

- Type locality: Central Asia, Zailijskij Ridge, canyon of Turgen River, Tau-Turgen sanatorium.
- Holotype: lost.
- Dimensions: H 1.33-1.65, D 2.95-3.60 mm.
- Distribution: type locality.

## PUPILLIDAE Turton, 1831

***Gibbulinopsis*** Germain, 1919Type species: *Orthogibbus pupula* Deshayes, 1863 (OD)

Remark: Pokryszko and Horsák (2007) mentioned a new, yet undescribed species of the genus from the Altai.

***Gibbulinopsis cryptodon*** (Heude, 1880)

Fig. 17 A, B

[= *Pupa beudeana* Moellendorff, 1884; *Pupilla beudeana grandis* Moellendorff, 1901]

*Pupa cryptodon* Heude, 1880: 77, pl. 18, fig. 20.

- Type locality: “environs de la ville de Houai-ugan” (south-eastern China).
- Syntypes: SMF No. 4601.
- Dimensions: H 2.3-3.3, D 1.6-1.8 mm.
- Distribution: islands of Peter the Great Bay (Likharev, Schileyko, MS).

***Gibbulinopsis gracilis*** (Izzatullaev, 1970)

Fig. 17 C

*Pupilla gracilis* Izzatullaev, 1970a: 53, fig. 1.

- Type locality: Tajikistan, Hissar Ridge, debris of Sardai-Mion River, near Romit settlement.
- Holotype: ZIN.
- Dimensions: H 5.4, D 1.8 mm.
- Distribution: type locality.
- Remark: Species was described from a single shell, so its validity requires confirmation. It cannot be excluded that it is a high form of *G. signata*, because a reduction of upper palatal fold occurs in some populations of the latter species. Arkhangelsky (1933) reported findings of *Pupilla* sp. in Samarkand vicinities, on the River Siab banks, in Urgut and Sary-Mazar. He wrote that it “differs from other *Pupilla* in size (up to 5 mm), brown color, and oblique, well seen striation”. Arkhangelsky distinguished this form from *G. signata*, because this species was mentioned separately. Probably, the author dealt with *G. gracilis*.

***Gibbulinopsis interrupta*** (Reinhardt in Martens, 1876)

Fig. 17 D

*Pupa (Pupilla) interrupta* Reinhardt – Martens, 1876: 367.

- Type locality: «Borschom» (Borzhom, Georgia).
- Types: unknown.
- Dimensions: H 2.8-3.5, D 1.5-1.8 mm.
- Distribution: Central part of North Caucasus, Daghestan, central and eastern Transcaucasia (Likharev, Schileyko, MS).

***Gibbulinopsis nanosignata*** Schileyko et Izzatullaev, 1980

Fig. 17 E

Schileyko, Izzatullaev, 1980: 283, fig.

- Type locality: Hissar Ridge, right bank of Iskanderdarja River.
- Holotype: ZIN.
- Dimensions: H 2.3-3.3, D 1.2-1.4 mm.
- Distribution: northern foothills of eastern Turkestan Ridge (Vorukh settlement; also found in debris of Isfara River); Hissar Ridge, near lakes Iskanderkul and Varenkul, on banks of Iskanderdarja River (Likharev, Schileyko, MS).

***Gibbulinopsis signata*** (Mousson, 1873)

Fig. 17 F, I

[= ? *Pupa armeniaca* Issel, 1865; *Pupa cristata* Martens, 1874; *Pupa signata* var. *parvula* Mousson, 1876; *Pupa signata* var. *cylindrica* Mousson, 1876; *Pupa diecki* Gredler, 1889; *Pupa signata* var. *cyclostoma* Westerlund, 1893; *Pupa signata* var. *debilis* Westerlund, 1893] *Pupa signata* Mousson, 1873: 211-212, pl. 8, fig. 7.

- Type locality: debris of Araks River.
- Types: unknown.
- Dimensions: H 3.3-5.4, D 1.8-2.0 mm.
- Distribution: Eastern Transcaucasia, southern Central Asia, south-eastern Kazakhstan (Likharev, Schileyko, MS).

***Pupilla*** Leach, 1828

Type species: *Pupa marginata* Draparnaud, 1801 (= *Turbo muscorum* Linnaeus, 1758) (monotypy)

Remark: Pokryszko and Horsák (2007) mentioned three yet undescribed species of the genus from the Altai.

***Pupilla alabiella*** Schileyko, 1984

Fig. 17 G

Schileyko, 1984: 191, figs. 110 (II), 111.

- Type locality: Verkhovsky Island, Peter the Great Bay.
- Holotype: ZIN.
- Dimensions: H 2.2-3.3, D 1.4-1.6 mm.
- Distribution: two small rocky islands in the Peter the Great Bay (Verkhovsky and Dva Brata) (Likharev, Schileyko, MS); Altai (Pokryszko, Horsák, 2007).
- Remark: Differs, together with *P. limata*, from all other species of the genus *Pupilla* by very thin-walled shell and the absence of lip. From *P. limata* it differs by a slenderer outline of shell (height/diameter ratio is no less than 1.8, whereas in *P. limata* this ratio is no more than 1.7).

***Pupilla anzobica*** Izzatullaev, 1970

Fig. 17 H

Izzatullaev, 1970a: 54, fig. 2.

- Type locality: Hissar Ridge, Anzob mountain pass (3450-3500 m above sea level).
- Holotype: ZIN.
- Dimensions: H 3.9-4.2, D 1.7 mm.
- Distribution: type locality.

***Pupilla bigranata*** (Rossmässler, 1839)

Fig. 18 A

*Pupa bigranata* Rossmässler, 1839: 27, fig. 645.

- Type locality: not stated.
- Types: lost (R. Janssen, pers. comm.).

- Dimensions: H 2.0-3.0, D 1.5 mm.
- Distribution: Ukraine: western part, Poltava, Ternopol, Nikolaev and Odessa regions (Sverlova, 2006); valleys of some tributaries of the Volga (Moscow River, Oka); southern parts of Ural with adjacent territories of Kazakhstan and West Siberia; mountain areas of Central Asia and southern Kazakhstan; several records in East and North Caucasus (Likharev, Schileyko, MS).

***Pupilla bipapulata*** Akramowski, 1947

Fig. 18 B, C

Akramowski, 1947: 255.

- Type locality: Armenia, Abovyan Region, Gegart.
- Holotype: ZIN.
- Dimensions: H 2.2-2.7, D 1.25 mm.
- Distribution: South and south-eastern Armenia: Azat River basin to Daralagez to Kafan and Megrin regions (Akramowski, 1976).
- Remark: Similar to *P. bigranata*, differing by the presence of 2 equal palatal teeth (in *P. bigranata* the upper palatal tooth is tubercular and the lower palatal tooth is in form of elongated fold).

***Pupilla gallae*** Tzvetkov, 1940

Fig. 18 D, E

Tzvetkov, 1940a: 384.

- Type locality: South Kazakhstan, Zailiyskij Ridge, Issyk ravine, 50 km eastward of Alma-Ata.
- Holotype: ZMMU No. Lc-3350.
- Dimensions: H 2.7-3.0, D 1.5-1.6 mm.
- Distribution: mountain systems of south-eastern Kazakhstan and north-eastern Kirgizia: Zailiyskij, Terskei, and, probably, Kungei ridges (Likharev, Schileyko, MS).

***Pupilla inequidentata*** Schileyko et Almuhambetova in Almuhambetova, 1979

Fig. 18 F

Almuhambetova, 1979: 30, fig. 1.

- Type locality: floodplain of Aksai River, Zailiyskij Ridge.
- Holotype: ZMMU No. Lc-21492.
- Dimensions: H 2.8-3.5, D 1.5-1.8 mm.
- Distribution: several localities in Zailiyskij Ridge (Likharev, Schileyko, MS).

***Pupilla inops*** (Reinhardt, 1877)

Fig. 18 G

[= *Pupilla muscorum* var. *caucasica* O. Boettger, 1879]

*Pupa triplicata* var. *inops* Reinhardt, 1877a: 79, pl. 3, fig. 3.

- Type locality: Borzhomi.
- Types: unknown.
- Dimensions: H 2.5-3.3, D 1.5-1.7 mm.

- Distribution: East Ciscaucasia and Transcaucasia (Likharev, Schileyko, MS).

***Pupilla limata*** Schileyko, 1984

Fig. 18 H

Schileyko, 1984: 193, figs. 110 (I), 112.

- Type locality: Chukchi Peninsula, vicinities of Markovo.
- Holotype: ZIN.
- Dimensions: H 2.8-3.1, D 1.6-1.7 mm.
- Distribution: two localities in Chukchi Peninsula: vicinities of Markovo and bank of the Amguema River along Egvekinot-Iultin road (Likharev, Schileyko, MS).

***Pupilla muscorum*** (Linnaeus, 1758)

Fig. 18 I

[= *Pupa marginata* Draparnaud, 1801; *Pupa unidentata* C. Pfeiffer, 1821, non Studer, 1820; ? *Pupa cupa* Jan, 1832; *Pupa muscorum* f. *albina* Menke, 1830; *Pupa muscorum* f. *edentula* Menke, 1830; *Pupa muscorum* var. *pratensis* Clessin, 1871; *Pupa muscorum* var. *lundstromi* Westerlund, 1876; *Pupa muscorum* var. *caucasia* O. Boettger, 1880; *Pupa muscorum* var. *glis* Westerlund, 1893; *Pupa muscorum asiatica* Moellendorff, 1901; *Pupilla muscorum* var. *milschevitschi* Lindholm, 1911]

*Turbo muscorum* Linnaeus, 1758: 767.

- Type locality: Sweden.
- Syntype: BMNH.
- Dimensions: H 3.0-4.5, D 1.6-1.8 mm.
- Distribution: Holarctic (Likharev, Schileyko, MS).

***Pupilla sterri*** (Voith in Fürnrrohr, 1840)

Fig. 19 A

[= *Pupa cupa* auct., non Jan, 1832; *Pupa cupa* var. *carpathica* Kimarowicz, 1890; *Pupilla wolfae* Tzvetkov, 1940]

*Pupa sterri* Voith – Fürnrrohr, 1840: 469.

- Type locality: Regensburg, Bayern.
- Types: unknown.
- Dimensions: H 2.7-3.3, D 1.7-1.8 mm.
- Distribution: Caucasus (vicinities of Tbilisi); Carpathians (Baidashnikov, 1985) and Ternopol Region (Sverlova, 2006); Central Asia (Likharev, Schileyko, MS).

***Pupilla striopolita*** Schileyko, 1984

Fig. 19 B

Schileyko, 1984: 188, fig. 106.

- Type locality: Tien-Shan, Chatkal Ridge, Kasankai River bank near Ala-Buka village.
- Holotype: ZIN.
- Dimensions: H 2.8-3.4, D 1.9-2.0 mm.
- Distribution: Central Asia: Chatkal, Talas, Kirgiz, Zailijskij ridges (Likharev, Schileyko, MS).

***Pupilla triplicata*** (Studer, 1820)

Fig. 19 C

[= ? *Pupa triplicata* var. *luxurians* Reinhardt, 1877; *Pupa triplicata* var. *suboviformis* O. Boettger, 1879; *Pupa triplicata* var. *cylindrata* O. Boettger, 1879]

*Glischrus (Pupa) triplicata* Studer, 1820: 89.

- Type locality: “Kt. Waadt bei Bex-Vieux”, Switzerland.
- Lectotype (Forcart, 1957): NMBE.
- Dimensions: H 2.0-3.2, D 1.3-1.6 mm.
- Distribution: Carpathians; Crimea; records from Nikolaev and Donetzk regions of Ukraine (Sverlova, 2006); isolated populations in basins of the Don (Novocherkassk), Volga, and Oka; North Caucasus and Transcaucasia; Central Asia, southern Kazakhstan, southern Altai; most eastern record – on Baikal shore, near Cape Krestovskiy (Likharev, Schileyko, MS).

***Pupilla turcmenica*** (O. Boettger, 1889)

Fig. 19 D

*Pupa (Pupilla) cupa* var. *turcmenica* Boettger, 1889: 958, pl. 26, fig. 3a-c.

- Type locality: Kopet Dag, Ag-Dagh Mountain;
- Types: unknown.
- Dimensions: H 2.8-3.2, D 1.1-1.4 mm.
- Distribution: Central Asia (Kopet Dag, Hissar, Kirgiz, Zailijskij ridges) (Likharev, Schileyko, MS).

***Pupoides*** L. Pfeiffer, 1854

Type species: *Bulimus nitidulus* L. Pfeiffer, 1839 (SD Kobelt, 1880)

***Pupoides coenopictus*** (Hutton, 1834)

Fig. 19 E

*Pupa coenopicta* Hutton, 1834: 85.

- Type locality: India, Bombay.
- Types: unknown.
- Dimensions: H 4.2-5.2, D 2.0-2.5 mm.
- Distribution: species found in debris of the Vakhsh River near “Tigrovaya Balka” Reserve; probably occurring in basin of middle or upper reaches of this river (southern Tajikistan) (Izzatullaev, 1970b; Likharev, Schileyko, MS).

**GASTROCOPTIDAE** Pilsbry, 1918

***Gastrocopta*** Wollaston, 1878

Type species: *Pupa acarus* Benson, 1856 (OD)

***Gastrocopta huttoniana*** (Benson, 1849)

Fig. 19 F

[= *Pupa theeli* Westerlund, 1898, non Westerlund, 1876]

*Pupa buttoniana* Benson, 1849: 126.

- Type locality: Simla (Himalayas, North India).
- Types: unknown.
- Dimensions: H 2.0-2.3, D 1.1-1.2 mm.
- Distribution: species repeatedly found in debris of Kafirnigan River near Dushanbe. Apparently, mollusks live in this river valley, between Hissar and Karategin ridges (Likharev, Schileyko, MS).
- Remark: Differs from *G. theeli* by the presence of subparietal lamella (in *G. theeli* this lamella is absent); besides, in *G. buttoniana* there are mostly 2 palatal plicae, whereas in *G. theeli* usually there are 3 palatal plicae.

### ***Gastrocopta theeli*** (Westerlund, 1876)

Fig. 19 G, H

[= *Pupa denudata* Mousson, 1887; *Gastrocopta coreana* Pilsbry, 1916]

*Pupa theeli* Westerlund, 1876a: 102, fig. 4.

- Type locality: Mikulino, vicinities of Yeniseisk.
- Lectotype (Schileyko, 1984): SMNH No. 1657.
- Dimensions: H 1.7-2.2, D 0.9-1.2 mm.
- Distribution: species distributed patchily: South Primorye, vicinities of Yeniseisk and Chelyabinsk, South Altai, Kirgiz Ridge; basins of Kura and Rioni rivers (found in debris); highland of Daghestan (Botlikh) and North Caucasus (middle reaches of Chegem River) (Likharev, Schileyko, MS).

## VERTIGINIDAE Fitzinger, 1833

### ***Vertigo*** Müller, 1774

Type species: *Vertigo pusilla* Müller, 1774 (monotypy)

Remark: Pokryszko and Horsák (2007) mentioned a new, yet undescribed species of the genus from the Altai.

### ***Vertigo antivertigo*** (Draparnaud, 1801)

Fig. 19 I

[= *Turbo sexdentatus* Montagu, 1803; *Alaea palustris* Jeffreys, 1830; *Vertigo sinuata* Mousson, 1873]

*Pupa antivertigo* Draparnaud, 1801: 57.

- Type locality: not stated (France – from title).
- Types: probably in NHMV.
- Dimensions: H 2.0-2.2, D 1.2-1.3 mm.
- Distribution: Most part of Palearctic: eastward to Transbaikalia inclusive, northward to zone of tundra (Likharev, Schileyko, MS).

### ***Vertigo circumlabiata*** Schileyko, 1984

Fig. 19 J

Schileyko, 1984: 208, fig. 129.



- Type locality: Kunashir Island, vicinities of Sernovodsk City (South Kurile Islands).
- Holotype: ZIN (not found).
- Dimensions: H 2.0-2.4, D 1.3-1.6 mm.
- Distribution: Kunashir Island (South Kurile Islands), Okhotsk Sea coast near Ayan, Sakhalin (Likharev, Schileyko, MS; Prozorova, Berezhok, 2004).

***Vertigo eogea*** Pilsbry, 1919

Fig. 20 A

Pilsbry, 1919: 151-152, pl. 14, figs. 1-3.

- Type locality: Akkeshi, Kushiro, Yesso (Hokkaido, Japan).
- Lectotype (Baker, 1963): ANSP No. 87899a.
- Dimensions: H 3.3, D 1.8 mm.
- Distribution: Paramushir, Shumshu, Atlasova Islands (Kurile Islands) (Kuroda, Koba, 1933).

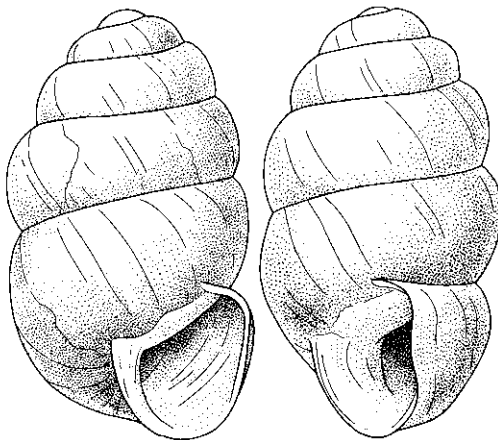
***Vertigo extima*** (Westerlund, 1876)

Textfig. 6

[= *Vertigo modesta ultima* Pilsbry, 1919]

*Pupa (Vertigo) arctica* var. *extima* Westerlund, 1876a: 42.

- Type locality: Baklanikha on the Yenisei.
- Lectotype (Waldén, 1986): SMNH Westerlund collection No. 8: 145.
- Dimensions: H 2.1-2.8, D 1.4-1.7 mm.
- Distribution: Yenisei (vicinities of Baklanikha) and Ob (Pokur settlement, Surgut District, Tyumen Region) basins, Chukchi Peninsula (Amguema and Lavrentiya rivers) (Likharev, Schileyko, MS); Karelia (von Proschwitz, 2004).



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**Textfig. 6.** *Vertigo extima*, lectotype, after Waldén, 1986.

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***Vertigo hirasei*** Pilsbry, 1901

Fig. 20 B

Pilsbry, 1901b: 128.

- Type locality: “Yanagawa, prov. Chikugo, Kiusiu” (Kyushu, Japan).
- Lectotype (Pilsbry, 1919): ANSP No. 79738a.
- Dimensions: H 1.5-2.0, D 1.0 mm.
- Distribution: Shikotan Island (South Kurile Islands) (Likharev, Schileyko, MS).

***Vertigo hydrophila*** (Reinhardt, 1877)

Fig. 20 C

*Pupa (Vertigo) hydrophila* Reinhardt, 1877b: 323, pl. 11, fig. 6.

- Type locality: “Hakotade insulae Yesso” (Hokkaido, Japan).
- Syntype: ZMB No. 28178.
- Dimensions: H 1.75-2.3, D 1.0 mm.
- Distribution: South Kurile Islands (Iturup, Kunashir) (Pearce et al., 2002).

***Vertigo japonica*** Pilsbry et Hirase, 1904

Fig. 20 D

[= *Vertigo coreana* Pilsbry, 1919; *Vertigo tosana* Pilsbry, 1919]

Pilsbry, Hirase, 1904a: 118.

- Type locality: Ikushagawa, Oshima Islands, Japan.
- Holotype: ANSP No. 85746a.
- Dimensions: H 1.5-2.4, D 0.7-1.0 mm.
- Distribution: South Primorye, South Kurile Islands, coast of Tatar Strait (vicinities of Vanino) and Okhotsk Sea (Ayan) (Likharev, Schileyko, MS).

***Vertigo kushiroensis*** Pilsbry et Hirase, 1905

Fig. 20 E

*Vertigo hirasei kushiroensis* Pilsbry, Hirase, 1905: 718.

- Type locality: Akkeshi, Kushiro (Hokkaido, Japan).
- Lectotype (Baker, 1963): ANSP No. 90223a.
- Dimensions: H 1.8-2.2, D 1.4-1.5 mm.
- Distribution: Shikotan Island (South Kurile Islands) (Likharev, Schileyko, MS).

***Vertigo microsphaera*** Schileyko, 1984

Fig. 20 F

Schileyko, 1984: 210, fig. 132.

- Type locality: Podutesnaya Bay, Bering Island.
- Holotype: ZIN (not found).
- Dimensions: H 1.4-1.8, D 0.8-1.1 mm.
- Distribution: Bering Island (Commander Islands), Shikotan and Kunashir Islands (Kurile Islands) (Schileyko, 1984; Pearce et al., 2002); Altai (Pokryszko, Horsák, 2007).

***Vertigo modesta modesta*** (Say, 1824)

Fig. 20 G

[= *Pupa hoppii* Møller, 1842; *Pupa shuttleworthiana* L. Pfeiffer, 1847; *Pupa decora* Gould, 1848; *Pupa genesii* Gredler, 1856; *Pupa borealis* Morelet, 1858; *Vertigo arctica* Wallenberg, 1858; *Pupa ronneybysensis* Westerlund, 1871; *Pupa inermis* Westerlund, 1877, non Deshayes, 1863; *Vertigo geyeri* Lindholm, 1925; *Vertigo westerlundii* Pilsbry, 1922]

*Pupa modesta* Say, 1824: 259, pl. 15, fig. 5.

- Type locality: “North-west Territory” (North America).
- Types: unknown.
- Dimensions: H 1.7-2.8, D 1.1-1.6 mm.
- Distribution: north of Eurasia including West and East Siberia (Likharev, Schileyko, MS); Kurile Islands (Pearce et al., 2002); Sakhalin (Prozorova, Berezhok, 2004).

***Vertigo modesta alpestris*** Alder, 1838

Fig. 20 H

*Vertigo alpestris* Alder, 1838: 340.

- Type locality: Northumberland, England.
- Types: unknown.
- Dimensions: H 1.8-2.0, D 1.1 mm.
- Distribution: Ukraine: Carpathians, western Podolsk Hills (Sverlova, 2006), Crimea (Chatyrdagh), Siberia, Sikhote-Alin with foothills (Likharev, Schileyko, MS).

***Vertigo moulinsiana*** (Dupuy, 1849)

Fig. 20 I

[= *Pupa laevigata* Kokeil in Gallenstein, 1852; *Vertigo ventrosa* Heynemann, 1862; *Pupa liljeborgi* Westerlund, 1868; *Pupa küsteriana* Westerlund, 1875]

*Pupa moulinsiana* Dupuy, 1849: [3], No. 284.

- Type locality: not stated.
- Types: unknown.
- Dimensions: H 2-3, D 1.3-2.0 mm.
- Distribution: East-European Plain, to Lithuania in the north, Volga River in the east and southern Armenia in the south (Likharev, Schileyko, MS).

***Vertigo pseudosubstriata*** Ložek, 1954

Fig. 20 J

[= *Vertigo laevis* Uvalieva, 1967]

Ložek, 1954: 327, pl. 1, fig. 1.

- Type locality: Czechia, Moravia region, excavation of Paleolithic settlement in Dolni Vestonice above River Dyi.
- Holotype: “v malakozoologickem depositari Ustredniho ustavu geologickeho v Praze” (Geological Institute, Prague).
- Dimensions: H 2.1-2.4, D 1.2 mm.
- Distribution: South Altai and Zailijskij, Dzungar, Terskei ranges (Likharev, Schileyko, MS); Sakhalin (Prozorova, Berezhok, 2004; Prozorova, Kavun, 2007b).

***Vertigo pusilla*** Müller, 1774

Fig. 20 K

[= *Vertigo heterostrophba* Leach in Turton, 1831]

Müller, 1774: 124.

- Type locality: Fridrichsdal (vicinities of Copenhagen).
- Types: unknown.
- Dimensions: H 1.9-2.2, D 1.0-1.1 mm.
- Distribution: East-European Plain, eastward to the Volga, northward to approximately 60° N; Caucasus, North Kazakhstan, Altai (Likharev, Schileyko, MS), Carpathians (Sverlova, 2006).

***Vertigo pygmaea*** (Draparnaud, 1801)

Fig. 20 L

[= *Alaea vulgaris* Jeffreys, 1830]*Pupa pygmaea* Draparnaud, 1801: 57.

• Type locality: not stated (France – from title).

• Syntypes: NHMV.

• Dimensions: H 1.80-2.2, D 1.2 mm.

• Distribution: East-European Plain, to Lithuania in the north, Volga River in the east and southern Armenia in the south (Likharev, Schileyko, MS), Carpathians (Sverlova, 2006), Altai (Pokryszko, Horsák, 2007).

***Vertigo sieversi*** (O. Boettger, 1879)

Fig. 20 M

[= *Pupa (Vertigo) sieversi* var. *punctum* O. Boettger, 1880; *Pupa (Vertigo) sieversi* var. *subalpestris* O. Boettger, 1880; *Pupa (Vertigo) sieversi* var. *substriata* Likharev et Rammelmeyer, 1952]*Pupa (Vertigo) sieversi* Boettger, 1879b: 407-408, pl. 10, figs. 6, 7.

- Type locality: “Tabizhuri” (vicinities of Tabatzkuri Lake, South Georgia, Trialeti Ridge)
- Holotype: unknown.
- Dimensions: H 1.9-2.3, D 1.0 mm.
- Distribution: Species widely but locally distributed in central and western parts of North Caucasus and Transcaucasia (Likharev, Schileyko, MS).

***Vertigo substriata*** (Jeffreys, 1830)

Fig. 20 N

[= *Pupa curta* Held, 1837; *Pupa striata* Reeve, 1863; *Pupa pygmaea* var. *nitidula* Mousson, 1876;*Pupa substriata* var. *mitis* O. Boettger, 1880; *Alaea substriata* f. *viridana* Lindholm, 1910]*Alaea substriata* Jeffreys, 1830: 515.

- Type locality: England, Burnstaple.
- Types: unknown.
- Dimensions: H 1.5-1.8, D 1.0-1.1 mm.
- Distribution: East-European Plane, except northernmost areas, North Caucasus and Georgia; an isolated part of range in Altai (Likharev, Schileyko, MS; Pokryszko, Horsák, 2007); Carpathians (Sverlova, 2006).

**Vertilla** Moquin-Tandon, 1855

Type species: *Vertigo plicata* A. Müller, 1838 (= *Vertigo angustior* Jeffreys, 1830) (SD Pilsbry, 1929)

**Vertilla angustior** (Jeffreys, 1830)

Fig. 20 O

[= *Vertigo hamata* Held, 1837; *Vertigo plicata* A. Müller, 1838]

*Vertigo angustior* Jeffreys, 1830: 361.

- Type locality: “Marino near Swansea” (England).
- Types: unknown.
- Dimensions: H 1.5-1.8, D 0.8-0.9 mm.
- Distribution: Lithuania, Estonia, Russia (Leningrad, Moscow, Nizhnyi Novgorod, Kirov regions, Tatarstan), western Byelorussia and Ukraine, mountain Crimea, North Caucasus and Transcaucasia (Likharev, Schileyko, MS); southern Krasnoyarsk Region (Udaloi, Novikov, 2005a).

TRUNCATELLINIDAE Steenberg, 1925

**Columella** Westerlund, 1878

Type species: *Pupa inornata* Clessin, 1872 (= *Pupa edentula* Draparnaud, 1805) (SD Westerlund, 1887)

**Columella acicularis** Almuhambetova, 1979

Fig. 21 A

Almuhambetova, 1979: 31, fig. 2.

- Type locality: Zailiyskij Ridge, Tau-Turgen Valley.
- Holotype: ZIN.
- Dimensions: H 2.6-3.0, D 1.3-1.4 mm.
- Distribution: type locality.

**Columella aspera** Waldén, 1966

Fig. 21 B, C

Waldén, 1966: 53, fig. 1.

- Type locality: Västmanland, Linde Kirchspiel, im Nadewald ö Siggebohyttan [Sweden].
- Holotype: NMG.
- Dimensions: H 2.0-2.5, D 1.3-1.4 mm.
- Distribution: Valdai Hills (Shikov, 1979); South Siberia near Baikal Lake (Prozorova et al., 2007).

**Columella columella** (G. Martens, 1830)

[= *Pupa gredleri* Clessin, 1872; *Pupa regularis* Westerlund, 1898]

*Pupa columella* G. Martens, 1830: 171.

- Type locality: “Württemberg, zwischen Heschlach und Kalten Thal bei Stuttgart”.
- Lectotype (Forcart, 1959a): NMB No. 5900a.
- Dimensions: H 2.8-3.5, D 1.3-1.5 mm.
- Distribution: Ukraine (Carpathians, Podolsk Hills, Kiev Region, mountain Crimea) (Sverlova, 2006), Transcaucasia (vicinities of Kadjaran, Armenia and Kaputdjukh Mount, Lesser Caucasus), mountain systems of Central Asia, Siberia (Likharev, Schileyko, MS); Sakhalin (Prozorova, Kavun, 207b); Vyatka River basin (Shikhova, 2004).
- Remark: Differs from other species of the genus, together with *C. intermedia*, by more or less inflated last whorl. From *C. intermedia* it can be distinguished by more delicate sculpture (in *C. intermedia* the sculpture is stronger, in form of fine radial riblets).

***Columella edentula*** (Draparnaud, 1805)

Fig. 21 D

[= *Vertigo lepidula* Held, 1837; *Pupa inornata* m. *turritella* Westerlund, 1875; *Pupa edentula* f. *nana* O. Boettger, 1880]

*Pupa edentula* Draparnaud, 1805: 59-60, pl. 3, figs. 28, 29.

- Type locality: not stated (France – from title).
- Lectotype (Pokryszko, 1990; as “Typus”): NHMV.
- Dimensions: H 2.2-2.7, D 1.2-1.4 mm.
- Distribution: East-European Plain (except for steppe area), Caucasus and Transcaucasia, Central Asia (Likharev, Schileyko, MS); Russian Far East including Sakhalin, Kurile Islands and Kamchatka (Prozorova et al., 2007); Altai (Pokryszko, Horsák, 2007).

***Columella intermedia*** Schileyko et Almuhambetova in Schileyko, 1984

Fig. 21 E

Schileyko, 1984: 219, fig. 139 (III).

- Type locality: Talasskij Ridge, Bakhrausu ravine.
- Holotype: ZIN.
- Dimensions: H 2.9, D 1.2 mm.
- Distribution: type locality; Altai (Pokryszko, Horsák, 2007).

***Truncatellina*** Lowe, 1852

Type species: *Pupa linearis* Lowe, 1852 (monotypy)

***Truncatellina callicratis*** (Scacchi, 1833)

Fig. 21 F

[= *Pupa rivierana* Benson, 1854; *Pupa laevistriata* Retowski, 1888]

*Turbo callicratis* Scacchi, 1833: 11.

- Type locality: Naples, Botanical Garden [Italy].
- Types: unknown.
- Dimensions: H 1.6-2.2, D 0.80-0.95 mm.
- Distribution: North Caucasus, Transcaucasia, Kopet Dagh, mountain areas of eastern Central Asia, South Altai (Likharev, Schileyko, MS).

***Truncatellina claustralis*** (Gredler, 1856)

Fig. 21 G

[= *Pupa claustralis* var. *anodus* Gredler, 1856; *Pupa clavella* Reinhardt, 1877]

*Pupa claustralis* Gredler, 1856: 116, pl. 2, fig. 1a-c.

- Type locality: Sallegg [Tirol, Austria].
- Types: unknown.
- Dimensions: H 1.2-1.8, D 0.5-0.8 mm.
- Distribution: Ciscarpathia, Crimea, Central Transcaucasia (Likharev, Schileyko, MS).
- Remark: Similar to *T. costulata*, differs by thinner lip and less reflexed aperture margins.

***Truncatellina costulata*** (Nilsson, 1822)

Fig. 21 H

[= *Pupa ascaniensis* Schmidt, 1849]

*Pupa costulata* Nilsson, 1822: 51.

- Type locality: “Ad Esperöd Scaniae”.
- Types: unknown.
- Dimensions: H 1.7-2.0, D 0.8-1.0 mm.
- Distribution: East-European Plain: eastward to the Volga, northward approximately to Estonia-Moscow-Uljyanovsk line; Crimea, Transcaucasia, Central Asia (Likharev, Schileyko, MS).

***Truncatellina cylindrica*** (Férussac, 1807)

Fig. 21 I, J

[= *Pupa minutissima* Hartmann, 1821; *Vertigo pupula* Held, 1837; *Pupa micula* Mousson, 1876; *Truncatellina cylindrica* var. *costigerella* Lindholm, 1926; *Truncatellina tauricola* Lindholm, 1926]

*Vertigo cylindrica* Férussac, 1807: 52.

- Type locality: not stated.
- Syntypes: MNHN.
- Dimensions: H 1.6-2.4, D 0.8-1.0 mm.
- Distribution: East-European Plain: northward to Estonia, Moscow Region, eastward to South Ural; southward to Carpathians, Crimea, North Caucasus, Transcaucasia (Likharev, Schileyko, MS); Altai (Pokryszko, Horsák, 2007).
- Remark: Differs from all other species by total absence of teeth in aperture.

**CHONDRINIDAE** Steenberg, 1925

***Chondrina*** Reichenbach, 1828

Type species: *Bulimus avenaceus* Bruguière, 1792 (SD Reichenbach, 1836)

***Chondrina amphorula*** Schileyko, 1984

Fig. 21 K

Schileyko, 1984: 231, figs. 148 (III), 150.

- Type locality: vicinities of Verkhnee Inkhelo village, near Karata settlement, Daghestan.
- Holotype: ZMMU No. Lc-25327.
- Dimensions: H 6.0-6.5, D 2.2-2.3 mm.
- Distribution: Daghestan, North Caucasus (valleys of rivers Chegem and Terek), Armenia (Idzhevan District) (Likharev, Schileyko, MS).
- Remark: Differs from all other species of the genus by the presence of 2 palatal plicae; the 3<sup>rd</sup> (lowest), if present, is very weak.

***Chondrina clienta clienta*** (Westerlund, 1883)

Fig. 21 L, M

[= *Glischrus bordens* Studer, 1820, nom. oblit.; *Pupa avenacea* var. *paucidens* Westerlund, 1887; *Pupa subbordeum* Westerlund, 1887]

*Pupa avenacea* var. *clienta* Westerlund, 1883: 60.

- Type locality: “Choč im Tatra Gebirge”.
- Lectotype (Gittenberger, 1973): NMG No. 2174.
- Dimensions: H 6-7, D 2.0-2.4 mm.
- Distribution: Carpathians (Likharev, Schileyko, MS).

***Chondrina clienta caucasica*** Ehrmann, 1931

Fig. 22 A, B

Ehrmann, 1931: 19, pl. 1, fig. 4.

- Type locality: Lechkhum Ridge (south slopes of Great Caucasus).
- Lectotype (Gittenberger, 1973): SMF No. 44091a.
- Dimensions: H 6.0-7.5, D 2.3-2.8 mm.
- Distribution: mountain Crimea and Caucasus (Likharev, Schileyko, MS).
- Remark: Differs from nominative subspecies mainly in the sculpture: in *Ch. c. clienta* the radial sculpture is in form of more or less regular wrinkles or even ribbles, whereas in *Ch. c. caucasica* the sculpture is weaker and less regular.

***Chondrina granum*** (Draparnaud, 1801)

Fig. 22 C, D

[= *Pupa profuga* Westerlund, 1898]

*Pupa granum* Draparnaud, 1801: 59.

- Type locality: not stated (France – from title).
- Lectotype (Gittenberger, 1973): NHMV No. 77707.
- Dimensions: H 3.9-6.0, D 1.5-1.8 mm.
- Distribution: East Transcaucasia, West Kopet Dagh, Great Balkhan (Likharev, Schileyko, MS).

***Chondrina rhodia taurica*** (Kessler, 1860)

Fig. 22 E

*Pupa taurica* Kessler, 1860: 226.

- Type locality: vicinities of Yalta, Crimea.
- Types: unknown.



- Dimensions: H 4.4-5.8, D 1.7-2.2 mm.
- Distribution: mountain Crimea (mostly southern slopes) (Likharev, Schileyko, MS).

**Granaria** Held, 1837

Type species: *Pupa frumentum* Draparnaud, 1801 (SD Herrmannsen, 1847)

**Granaria frumentum** (Draparnaud, 1801)

Fig. 22 F, G

[= *Pupa frumentum* var. *minor* Rossmässler, 1837; *Pupa frumentum* var. *elongata* Rossmässler, 1837]

*Pupa frumentum* Draparnaud, 1801: 59.

- Type locality: not stated (France– from title).
- Lectotype (Gittenberger, 1973): NHMV No. 77703.
- Dimensions: H 7-10, D 2.7-3.7 mm.
- Distribution: Ukraine: Carpathians, Ciscarpathia (Likharev, Schileyko, MS).

**PYRAMIDULIDAE** Kennard et Woodward, 1914

**Pyramidula** Fitzinger, 1833

Type species: *Helix rupestris* Draparnaud, 1801 (monotypy)

**Pyramidula rupestris** (Draparnaud, 1801)

Fig. 22 H, I

[= *Helix saxatilis* Hartmann, 1821; *Euryomphalia umbilicata* Beck, 1837; *Helix spinula* Villa, 1841; *Helix rupestris* var. *trochoides* Moquin-Tandon, 1855; *Pyramidula przewalskii* Lindholm, 1922]

*Helix rupestris* Draparnaud, 1801: 71-72.

- Type locality: not stated (France – from title).
- Types: unknown.
- Dimensions: H 1.7-2.1, D 2.2-3.2 mm.
- Distribution: Volyno-Podolsk Hills, East Carpathians, mountain Crimea, Caucasus, Central Asia (Likharev, Schileyko, MS); Far East (Lozovyi Ridge, SW Sikhote Alin) (Prozorova, Kavun, 2007a).

**ENIDAE** Woodward, 1903

**PSEUDONAPAEINAE** Schileyko, 1978

Remark: Three Central Asian groups of Stylommatophora (Enidae-Pseudonapaeinae, Bradybaenidae and Hygromiidae) represent a bright example of phenomenon of so-called “neoendemism”, i.e. many nominal forms are the species “*in status nascendi*” and widely variable. Therefore, in many cases presently it is impossible to establish their

true taxonomic status. In such cases we conventionally take them as separate species, although actually some of them could be just local conchological forms.

**Akramowskiella** Schileyko, 1984

Type species: *Buliminus umbrosus* Mousson, 1873 (OD)

**Akramowskiella andronakii** (Lindholm, 1913)

Fig. 23 A

*Buliminus (Ena) andronakii* Lindholm, 1913: 20.

- Type locality: Artvin, northeastern Turkey.
- Lectotype (Schileyko, 1984): ZIN.
- Dimensions: H 11-14, D 4.5-5.0 mm.
- Distribution: ? Adzharia (Likharev, Schileyko, MS).

Remark. Differs from two other species of the genus by markedly more convex whorls and more acuminate apex.

**Akramowskiella schuschaensis** (Kobelt, 1902)

Fig. 23 B, C

*Buliminus (Ena) schuschaensis* Kobelt, 1902: 727, pl. 107, figs. 9, 10.

- Type locality: vicinities of Shusha, Nagornyi Karabakh.
- Syntypes: SMF No. 10702 (“lectotype”), 10703/10 (“paralectotypes”).
- Dimensions: H 6.5-8.5, D 3.2-4.0 mm.
- Distribution: eastern part of Lesser Caucasus (Likharev, Schileyko, MS).
- Remark: Differs from *A. umbrosa* by more regular striation.

**Akramowskiella umbrosa** (Mousson, 1873)

Fig. 23 D

[= *Buliminus talyschanus* O. Boettger, 1880; *Buliminus obscurus* var. *humberti* Rosen, 1901; *Buliminus byrcanus* Lindholm, 1915]

*Buliminus umbrosus* Mousson, 1873: 205-206, pl. 8, fig. 1.

- Type locality: Borzhomi.
- Types: unknown.
- Dimensions: H 7-13, D 3.0-5.5 mm.
- Distribution: North Caucasus and Transcaucasia (Likharev, Schileyko, MS).

**Clausilioides** Lindholm, 1925

Type species: *Buliminus biplicatus* Retowski, 1889 (OD)

**Clausilioides filifer** (Lindholm, 1913)

Fig. 23 F

*Buliminus (Brepbulus) filifer* Lindholm, 1913: 21-22.

- Type locality: Chorokh River debris, near Kapandidi village, ca. 7 km from Batumi (Adzharia, Georgia).
- Holotype: ZIN.

- Dimensions: H 9.30, D 2.25 mm.
- Distribution: type locality.

***Differena*** Schileyko, 1984

Type species: *Differena leucostoma* Schileyko, 1984 (OD)

***Differena leucostoma*** Schileyko, 1984

Fig. 23 E

Schileyko, 1984: 316, figs. 225, 226.

- Type locality: Kyapaz Mount, north part of Mrovdagh Ridge in eastern part of Lesser Caucasus.
- Holotype: ZIN (not found).
- Dimensions: H 6.5-8.2, D 3.3-4.0 mm.
- Distribution: type locality.

***Geminula*** Lindholm, 1925

Type species: *Buliminus didymodus* O. Boettger, 1880 (= *Bulimus isselianus* Bourguignat in Issel, 1865) (OD)

***Geminula continens*** (Rosen, 1892)

Fig. 23 G, H

[= *Chondrus natalensis* Samadov, 1952]

*Buliminus (Amphiscopis) continens* Rosen, 1892: 125-126.

- Type locality: “Schamhala und Kasandshik” (northwestern Kopet Dagh).
- Syntypes: SMF No. 64121; ZIN, ZMMU No. Lc-20755.
- Dimensions: H 6.0-7.5, D 2.2-2.9 mm.
- Distribution: Great Balkhan, Kopet Dagh, Zeravshan, Nurat and Hissar ridges (Likharev, Schileyko, MS).

***Geminula isseliana*** (Bourguignat in Issel, 1865)

Fig. 23 I, J

[= *Bulimus gbilanensis* Bourguignat in Issel, 1865; *Chondrus nucifragus* Mousson, 1873, non L. Pfeiffer, 1848; *Buliminus didymodus* O. Boettger, 1880; *Buliminus callilabris* O. Boettger, 1889; *Buliminus tardigyus* Westerlund, 1896]

*Bulimus isselianus* Bourguignat – Issel, 1865: 421-422, pl. 2, figs. 37-40.

- Type locality: “Lago Goktscha in Armenia”.
- Types: unknown.
- Dimensions: H 6.5-10.0, D 3-4 mm.
- Distribution: north slopes of Lesser Caucasus, to Khanlar in the west; middle reaches of Araks River valley to Dzhvezh in the west; mountain steppes of Talysh (Zuvand); Kopet Dagh (Likharev, Schileyko, MS).

***Imparietula*** Lindholm, 1925

Type species: *Bulimus leucodon* L. Pfeiffer, 1846 (OD)

***Imparietula brevior*** (Mousson, 1876)

Fig. 24 A

[= *Chondrula brevior* var. *viator* Westerlund, 1897]*Buliminus brevior* Mousson, 1876a: 34-35, pl. 2, fig. 5.

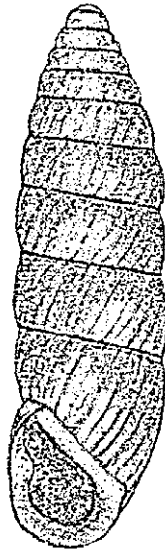
- Type locality: upper reaches of Araks River.
- Types: unknown.
- Dimensions: H 10-12, D 4.5-5.0 mm.
- Distribution: Armenia [near Lichk village and vicinities of Gyumri (former Leninkan)], ? northern slopes of Lesser Caucasus (Likharev, Schileyko, MS).

***Imparietula schelkovnikovi*** (Rosen, 1914)

Textfig. 7

[= *Buliminus königi* Retowski, 1914]*Buliminus schelkovnikovi* Rosen, 1914: 188, pl. 2, fig. 9.

- Type locality: Boz-Dagh Mount near Evlakh.
- Types: unknown.
- Dimensions: H 12.25-14.00, D 3.30-3.75 mm.
- Distribution: Boz-Dagh Mount and vicinities of Khudat (northwestern Great Caucasus) (Likharev, Schileyko, MS).

***Laevozebrinus*** Lindholm, 1925Type species: *Buliminus urgutensis* Kobelt, 1902 (OD)


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**Textfig. 7.** *Imparietula schelkovnikovi*, after Rosen, 1914.

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***Laevozebrinus eremita*** (Reeve, 1849)

Fig. 24 B

[= *Buliminus kuschakewitzzi* Ancey, 1886; *Buliminus kuschakewitzzi* var. *candisata* Ancey, 1886; *Buliminus bonvallotianus* Ancey, 1886; *Buliminus potaninianus* Ancey, 1886; *Buliminus eremita* var. *hepatica* Ancey, 1887; *Buliminus eremita* var. *procera* Ancey, 1887; *Buliminus eremita* var. *germabensis* O. Boettger, 1889; *Buliminus (Petraeus) walteri* O. Boettger, 1889; *Buliminus kuschakewitzzi* var. *funki* Ancey, 1893; *Buliminus eremita* var. *solivagus* Westerlund, 1896; *Buliminus bonvallotianus* var. *colorata* Ancey, 1902]

*Bulimus eremita* Reeve, 1849: pl. 78, sp. 573.

- Type locality: Afghanistan, “on ... march from the Bolun Pass to Cabul”.
- Types: unknown.
- Dimensions: H 14-28, D 7.5-12.0 mm.
- Distribution: Kopet Dagh, western Tajikistan, Ferghana Valley and adjacent ridges (Likharev, Schileyko, MS).

***Laevozebrinus guttula*** (Muratov, 1992)

Fig. 24 C

*Pseudonapaeus guttula* Muratov, 1992: 39-42, fig. 2.

- Type locality: southwestern Kopet Dagh, between Sumbar and Chandyr rivers, 10 km south of Kara-Kala.
- Holotype: ZMMU No. Lc-16590.
- Dimensions: H 6.4-9.4, D 3.2-4.8 mm.
- Distribution: Kopet Dagh, basins of Sumbar and Chandyr rivers (Likharev, Schileyko, MS).

***Laevozebrinus lenis*** Schileyko, 1984

Fig. 24 D

Schileyko, 1984: 305, figs. 215 (III), 218.

- Type locality: Karatau Ridge, 50 km northeast of Turkestan City.
- Holotype: ZIN (not found).
- Dimensions: H 11.5-12.5, D 4.3-4.5 mm.
- Distribution: Karatau Ridge (Likharev, Schileyko, MS).

***Laevozebrinus ufjalvyanus*** (Ancey, 1886)

Fig. 24 F, G, H

[= *Subzebrinus prochorovi* Lindholm, 1927]

*Buliminus ufjalvyanus* Ancey, 1886a: 270.

- Type locality: not stated (“L’Asie centrale Russe’ in the title”) [“Khanat de Kokhand”, “Turkestan” and “Usgent [Uzgen, Özgön], Turkestan” in subsequent publications of the author].
- Syntype: NMW No. 1955.158.24118.
- Dimensions: H 14-24, D 5-8 mm.
- Distribution: Ferghana Valley, Ferghana, Chatkal and Alai ridges (Likharev, Schileyko, MS).
- Remark: Ancey himself (1888, 1893) emended the original spelling for *ufjalvianus* (the species was named in honour of Ch. Ujfalvy de Mezokovesd [Mezo-Kovest], a trav-

eller). However, since the original publication does not contain an evidence of misspelling (ICZN Art. 32.5.1), this should be regarded as an unjustified emendation.

***Laevozebrinus urgutensis*** (Kobelt, 1902)

Fig. 24 E

*Buliminus* ? *urgutensis* Kobelt, 1902: 21, pl. 248, fig. 1606.

- Type locality: Urgut, Samarkand Region.
- Lectotype (Zilch, 1959-1960): SMF No. 150811.
- Dimensions: H 14-28, D 7.5-12.0 mm.
- Distribution: Urgut, Samarkand Region (Likharev, Schileyko, MS).
- Remark: Sinistral species, a mirror copy of *L. eremita* (Reeve, 1849)

***Ljudmilena*** Schileyko, 1984

Type species: *Chondrus sieversi* Mousson, 1873 (OD)

***Ljudmilena sieversi*** (Mousson, 1873)

Fig. 25 A, B

[= *Buliminus hoplites* Westerlund, 1890; *Buliminus adjaricus* Retowski, 1914; *Buliminus araxena* Lindholm, 1923; *Buliminus acampsicca* Lindholm, 1923]

*Chondrus sieversi* Mousson, 1873: 207-208, pl. 7, fig. 6.

- Type locality: debris of Araks River.
- Syntype: ZMZ No. 514143.
- Dimensions: H 7-11, D 2.5-4.0 mm.
- Distribution: Adzharia, South Armenia, Nakhichevan (Likharev, Schileyko, MS).

***Ljudmilena tricollis*** (Mousson, 1876)

Fig. 25 C

[= *Buliminus tricollis* var. *excellens* Retowski, 1889; *Buliminus armeniacus* Ancey, 1893, non Mortillet, 1854; *Chondrula excellens* var. *duodecimgyrata* Lindholm, 1923; *Chondrula carseana* Lindholm, 1923]

*Chondrus tricollis* Mousson, 1876b: 141, pl. 5, fig. 2.

- Type locality: “Azhuz” (Atzkuri), Kura River valley.
- Syntype: ZMZ No. 514074.
- Dimensions: H 8.0, D 3.8 mm.
- Distribution: local records in southern Transcaucasia except its eastern areas (Likharev, Schileyko, MS).

***Mastoides*** Westerlund, 1896

Type species: *Buliminus albocostatus* Westerlund, 1896 (monotypy)

***Mastoides albocostatus*** (Westerlund, 1896)

Fig. 25 D

[= *Buliminus albocostatus* var. *distortus* Westerlund, 1896]

*Buliminus* (*Mastoides*) *albocostatus* Westerlund, 1896: 192.

- Type locality: Arslanbob, Ferghana Ridge.
- Holotype: ZIN.
- Dimensions: H 12-14, D 3.5-4.0 mm.
- Distribution: vicinities of Arslanbob, Ferghana Ridge (Likharev, Schileyko, MS).

***Mastoides obeliscus*** Schileyko, 2007

Fig. 25 E

Schileyko, 2007: 85-87, fig. 2.

- Type locality: Dzhaz-ichu River valley, Kara-Unghur River basin, Ferghana Range.
- Holotype: ZMMU No. Lc-21491.
- Dimensions: H 11.0-12.5, D 4.0-4.2 mm.
- Distribution: type locality.

***Mastoides orloffensis*** (Kobelt, 1905)

Fig. 25 F

[= *Buliminus albocostatus* Ancey, 1902, non Westerlund, 1896]

*Buliminus (Mastoides) albocostatus orloffensis* Kobelt, 1905: 19, fig. 1972.

- Type locality: “in Thalosthal im russische Turkestan” (Talas River valley).
- Syntypes: SMF No. 238552 (including “lectotype”); possible syntypes: ZMMU Nos. Lc-21493, Lc-14565.
- Dimensions: H 8.0-8.5, D 3 mm.
- Distribution: Talas River valley (Likharev, Schileyko, MS).

***Ottorosenia*** Muratov, 1992

Type species: *Buliminus (Subzebrinus) varenzovi* Rosen, 1893 (OD)

***Ottorosenia varenzovi*** (Rosen, 1893)

Fig. 25 G, H

[= ?*Buliminus miser* var. *misellus* Westerlund, 1896]

*Buliminus (Subzebrinus) varenzovi* Rosen, 1893: 179.

- Type locality: Kopet Dagh, Gaudan mountain pass.
- Lectotype (Muratov, 1992): ZIN.
- Dimensions: H 6.8-13.0, D 2.4-5.0 mm.
- Distribution: Kopet Dagh and (?) Turkestan Ridge (Likharev, Schileyko, MS).
- Remark: See Remark to *Pseudonapaens miser*.

***Pseudochondrula*** Hesse, 1933

Type species: *Buliminus florenskii* Rosen, 1914 (= *Pupa seductilis* Rossmässler, 1837) (OD)

***Pseudochondrula lederi*** (O. Boettger, 1883)

Fig. 26 A

[= *Buliminus lederi* var. *limis* Westerlund, 1887]

*Buliminus lederi* Boettger, 1883: 177, pl. 7, fig. 1.

- Type locality: vicinities of Esheri village, north of Sukhumi, Svanetia, Georgia.

- Syntype: ZIN (not found).
- Dimensions: H 10-13, D 3.7-5.0 mm.
- Distribution: locally on Great Caucasus, except for eastern part, and northern slopes of Lesser Caucasus (Bakuriani) (Likharev, Schileyko, MS).

***Pseudochondrula seductilis*** (Rossmässler, 1837)

Fig. 26 B, C

[= *Buliminus seductilis* var. *armeniaca* Mortillet, 1854; *Chondrus scapus* var. *destitutus* Mousson, 1873; *Chondrus sagax* var. *destituta* Mousson, 1873; *Buliminus komarowi* O. Boettger, 1880; *Buliminus (Chondrula) incertus* Retowski, 1883; *Buliminus florenskii* Rosen, 1914; *Buliminus (Chondrula) lindbolmi* Retowski, 1915]

*Pupa seductilis* Rossmässler, 1837: 10, pl. 23, figs. 306, 307.

- Type locality: Dalmatia.
- Syntypes: SMF Nos. 237088 (“lectotype”), 237089/1 (“paralectotype”).
- Dimensions: H 7.5-13.5, D 3.5-4.2 mm.
- Distribution: southwestern Georgia (Batumi) and Armenia (Likharev, Schileyko, MS).

***Pseudochondrula sinistrorsa*** Kokotschashvili et Schileyko in Schileyko, 1984

Fig. 26 D

Schileyko, 1984: 294, figs. 205 (V), 208 (IV).

- Type locality: western Georgia, southwestern Suram Ridge, Lashe village.
- Holotype: ZIN.
- Dimensions: H 12.9, D 4.2 mm (holotype).
- Distribution: type locality.
- Remark: Sinistral species, a mirror copy of *P. lederi*.

***Pseudochondrula tetrodon*** (Mortillet, 1854)

Fig. 26 E

[= *Buliminus (Chondrula) diffusus* Mousson, 1876; *Buliminus (Chondrula) kolbyi* Retowski, 1889] *Buliminus tetrodon* Mortillet, 1854: 11-12, pl. 1, fig. 3.

- Type locality: “Ispir” (vilayet Erzurum, Turkey).
- Syntypes: MHNG, MNHN.
- Dimensions: H 9-16, D 4-6 mm.
- Distribution: Georgia (Tbilisi, Kutaisi, Borzhomi) and southern Armenia (Likharev, Schileyko, MS).

***Pseudochondrula tuberifera*** (O. Boettger, 1879)

Fig. 26 F

*Buliminus (Chondrula) tuberifer* Boettger, 1879a: 22-23, pl. 1, fig. 9.

- Type locality: Kazbek and Kobi.
- Syntype: ZMB No. 31251.
- Dimensions: H 8.0-9.5, D 3.0-3.5 mm.
- Distribution: Kazbek, vicinities of Kobi, Suram Ridge, North Ossetia (Zrug ravine), western Great Caucasus (Pregradnaya settlement on Urup River) (Likharev, Schileyko, MS).



***Pseudonapaeus*** Westerlund, 1887

Type species: *Buliminus asiaticus* Mousson in Martens, 1881 (SD Lindholm, 1922)

***Pseudonapaeus albiplicatus*** (Martens, 1874)

Fig. 26 G, H

[= *Buliminus przevalskii* Ancey, 1886; *Buliminus ferganensis* Kobelt, 1890; *Buliminus retteri* Rosen, 1897; *Buliminus albiplicatus* f. *implicata* Westerlund, 1898; *Subzebrinus flammulatus* Lindholm, 1927]

*Buliminus albiplicatus* Martens, 1874: 20-21, pl. 2, fig. 15.

- Type locality: “Taschkent” (Uzbekistan).
- Lectotype (Kilias, 1971): ZMB No. 22399a.
- Dimensions: H 8-15, D 3-5 mm.
- Distribution: entire Tien-Shan (Likharev, Schileyko, MS).
- Remark: See Remark to *P. leonorae* and *P. zheravshanicus*.

***Pseudonapaeus aptychus*** (Ancey, 1886)

Fig. 26 I

[= *Buliminus aptychus* var. *capusiana* Ancey, 1886]

*Buliminus aptychus* Ancey, 1886c: 334.

- Type locality: “Wjernoje (Semiretschinsk)” (Alma-Ata, Kazakhstan).
- Types: unknown.
- Dimensions: H 9-11, D 5.0-5.2 mm.
- Distribution: Zailijskij Ridge (Kazakhstan) (Likharev, Schileyko, MS).

***Pseudonapaeus asiaticus*** (Mousson in Martens, 1880)

Fig. 27 B

[= *Buliminus vambergi* Ancey, 1886; *Buliminus komarowi* Kobelt, 1890, non O. Boettger, 1880; *Buliminus turanicus* Ancey, 1893]

*Buliminus asiaticus* Mousson – Martens, 1880b: 29, pl. 6, figs. 12-14.

- Type locality: “Kuldsha” (Ining (Kuldja), northwest China).
- Types: unknown.
- Dimensions: H 7-15, D 4-6 mm.
- Distribution: northeastern and eastern Central Asia and East Kazakhstan (Likharev, Schileyko, MS).
- Remark: See Remark to *P. regelianus*.

***Pseudonapaeus bacillus*** Kuznetsov, 1999

Fig. 27 A

Kuznetsov, 1999: 108-109, fig. 5.

- Type locality: Kazakhstan, Alma-Ata Region, Kaskelen District, Zailijskij Alatau Ridge, left side of Aksai River valley, 300 m upstream from pioneer camp “Leninetz”, lower part of eastern slope above earth road.
- Holotype: ZMMU No. Lc-24067.
- Dimensions: H 9.8-12.9, D 3.2-3.7 mm.

- Distribution: northern slope of Zailijskij Alatau Ridge (northern Tien-Shan) (Kuznetsov, 1999).

***Pseudonapaeus chodschendicus*** (Mukhitdinov, 1976)

Fig. 27 C

*Chondrulopsis chodschendicus* Mukhitdinov, 1976: 39, figs. 1A, 2A.

- Type locality: Kuraminskij Ridge, vicinities of Asht village.
- Holotype: ZIN.
- Dimensions: H 7.8-13.3, D 3.4-4.5 mm.
- Distribution: Kuraminskij Ridge (Likharev, Schileyko, MS).
- Remark: See Remark to *P. miser* and *P. naykaticus*.

***Pseudonapaeus diplus*** (Westerlund, 1896)

Fig. 27 D, E

*Buliminus (Pseudopetraeus) diplus* Westerlund, 1896: 191.

- Type locality: Ferghana Ridge, Arslanbob.
- Lectotype (Schileyko, 1984): NMG No. 2018.
- Dimensions: H 8-13, D 4-5 mm.
- Distribution: Ferghana Ridge (Arslanbob and Kyzyl-Ungur) (Likharev, Schileyko, MS).

***Pseudonapaeus dissimilis*** (Martens, 1882)

Fig. 28 A, B

*Buliminus dissimilis* Martens, 1882b: 106.

- Type locality: "Arassan-bulak ad montes Nan-schan (Alma-Ata Region, Kazakhstan).
- Lectotype (Kiliyas, 1971): ZMB No. 101575a.
- Dimensions: H 5.5-10.0, D 3.5-4.5 mm.
- Distribution: foothills of Zailijskij, Kungei, Terskei ridges, upper reaches of Naryn River (Likharev, Schileyko, MS).

***Pseudonapaeus drymaeus*** (Westerlund, 1896)

Fig. 27 G, H

*Buliminus (Chondrulopsis) drymaeus* Westerlund, 1896: 194.

- Type locality: Ferghana Ridge, Arslanbob.
- Syntypes: ZIN.
- Dimensions: H 9.0-10.5, D 3.8-4.5 mm.
- Distribution: western Ferghana Ridge (Likharev, Schileyko, MS).

***Pseudonapaeus eleonora*** (Tzvetkov, 1940)

Fig. 27 F

*Ena (Subzebrinus) eleonora* Tzvetkov, 1940a: 386-387.

- Type locality: Kazakhstan, Alma-Ata Region, Dzhambul District, Kastek Ridge, Uzun-Agach River gorge, Alayak pasture.
- Lectotype (Kuznetsov, 1999): ZMMU No. Lc-24068.

- Dimensions: H 8.8-13.4, D 4.0-4.9 mm.
- Distribution: western parts of Kyungei Ala-Too and Kastek ridges, eastern Kirgiz Ala-Too Ridge (northern Tien-Shan) (Kuznetsov, 1999).
- Remark: Similar to *P. albiplicatus*, differs by more cylindrical, nearly smooth shell having more inflated last whorl, less pointed apex, and presence of angular tubercle.

***Pseudonapaeus entodon*** (Martens, 1882)

Fig. 27 I

[= *Buliminus entodon* var. *dextroversa* Ancey, 1886]

*Buliminus entodon* Martens, 1882b: 106.

- Type locality: near Vernyi City (= Alma-Ata), foothills of Zailiyskij Alatau Ridge.
- Syntype: ZMB No. 101576.
- Dimensions: H 9.7-13.5, D 4-5 mm.
- Distribution: northern slopes of Zailiyskij, Kastek, Kirgiz Ala-Too ridges (northern Tien-Shan) (Kuznetsov, 1999).

***Pseudonapaeus entoptyx*** (Lindholm, 1925)

Fig. 28 C

*Buliminus entoptyx* Lindholm, 1925: 32.

- Type locality: Kara-Su, Ferghana Ridge.
- Types: unknown.
- Dimensions: H 7.5-10.0, D 2.5-3.0 mm.
- Distribution: Ferghana, western Talas (Aksu-Djabagly natural reserve), Pskem and Ugam ridges (Likharev, Schileyko, MS).

***Pseudonapaeus errans*** (Westerlund, 1896)

Fig. 28 D

*Buliminus (Mastoides) errans* Westerlund, 1896: 193.

- Type locality: along Kugart River, near Taranbazar.
- Syntype: ZIN.
- Dimensions: H 12-13, D 3.5-4.5 mm.
- Distribution: Ferghana Ridge: near Taranbazar and Nara-Alma River (tributary of Kugart [= Koek-Art] River) valley (Likharev, Schileyko, MS).
- Remark: See Remark to *P. latilabris*.

***Pseudonapaeus galinae*** (Tzvetkov, 1940)

Fig. 28 E

*Ena galinae* Tzvetkov, 1940a: 386.

- Type locality: foothills of Zailiyskij Alatau Ridge near Alma-Ata, slope of river near State farm of NKVD (Kazakhstan).
- Lectotype (Schileyko, 1984): ZMMU No. Lc-3773.
- Dimensions: H 12.0-14.5, D 4.7-6.0 mm.
- Distribution: foothills of Zailiyskij Ridge (Kazakhstan) (Likharev, Schileyko, MS).
- Remark: Izzatullaev (1991) recorded a Chinese species, *Buliminus saccatus* Moellendorff, 1901, from Terskei Ridge. However, the description and figure much better corre-

spond to *P. galinae* than to *P. saccatus*, and the described species is most probably a form of variability of *P. galinae*.

***Pseudonapaeus goldfussi*** (Kobelt, 1893)

Fig. 28 F, G

*Buliminus* (*Chondrula*?) *goldfussi* Kobelt, 1893: 82, pl. 171, fig. 1102.

- Type locality: Alai Ridge.
- Holotype: SMF No. 156686.
- Dimensions: H 8-13, D 4-5 mm.
- Distribution: Ferghana and Alai ridges (Likharev, Schileyko, MS).
- Remark: A sinistral species, a mirror copy of *P. trigonochilus*.

***Pseudonapaeus herzensteini*** (Ancey, 1886)

Fig. 28 H, I

[= *Buliminus herzensteini* var. *strophostoma* Ancey, 1886; *Buliminus herzensteini* var. *pellucens* Ancey, 1886]

*Buliminus herzensteini* Ancey, 1886a: 270.

- Type locality: not stated (“L’Asie centrale Russe” in the title).
- Syntypes: NMW No. 1955.158.24106.
- Dimensions: H 10-13, D 5-6 mm.
- Distribution: Zailiyskij, Kungei and Terskei ridges (Likharev, Schileyko, MS).

***Pseudonapaeus izzatullaevi*** Kuznetsov, 1999

Fig. 29 A

Kuznetsov, 1999: 102-103, fig. 1 A, B, C.

- Type locality: Uzbekistan, Surkhan-Darya Region, southern slope of Hissar Ridge, Khopzada River gorge.
- Holotype: ZMMU No. Lc-24065.
- Dimensions: H 14.2-15.8, D 5.2 mm.
- Distribution: type locality (Kuznetsov, 1999).
- Remark: Differs from all other species of *Pseudonapaeus* by rather large (height up to 15.8 mm), conic-cylindrical, light-colored shell consisting of 8.25-8.5 slightly convex whorls.

***Pseudonapaeus kasnakowi*** (Westerlund, 1898)

Fig. 29 B, C, D

*Buliminus* (*Brephulus*) *kasnakowi* Westerlund, 1898: 163.

- Type locality: Vakhsh valley.
- Lectotype (Likharev in Schileyko, 1984): NMG No. 1806.
- Dimensions: H 9-12, D 2.5-3.0 mm.
- Distribution: Hissaro-Darvaz ridge system (Likharev, Schileyko, MS).

***Pseudonapaeus latilabris*** (Lindholm, 1927)

Fig. 29 E

*Ena* (*Pseudonapaeus*) *latilabris* Lindholm, 1927b: 101.

- Type locality: “Ferghana-Gebiet, am Oberlauf des Fl. Turduk” [Fergana district, upper part of Turduk River].
- Syntypes: ZIN.
- Dimensions: H 11.0-12.5, D 4.5-5.0 mm.
- Distribution: Chatkal and Ferghana ridges (Kirgizia).
- Remark: Similar to *P. errans*, differs by much weaker radial sculpture and stronger lip.

***Pseudonapaeus leucopleurus*** (Lindholm, 1927)

Fig. 29 F

?*Subzebrinus leucopleurus* Lindholm, 1927c: 258.

- Type locality: Chatkal Ridge, vicinities of Sary-Chelek Lake.
- Syntypes: ZIN, ZMMU No. Lc-15132.
- Dimensions: H 10-13, D 3.8-4.2 mm.
- Distribution: type locality.

***Pseudonapaeus leucoptychus*** (Ancey, 1886)

Fig. 29 H

[= *Buliminus costatus* Clessin, 1894; *Buliminus merzbacheri* Weber, 1913]

*Buliminus leucoptychus* Ancey, 1886c: 336.

- Type locality: “fleuves Fekkes et Naryn-Kol” (rivers Tekes and Narynkol).
- Syntypes: ZIN (not found), RBINS No. 10591.
- Dimensions: H 6-10, D 3.5-4.5 mm.
- Distribution: Chu River valley, vicinities of Issyk-Kul Lake, East Kirgizia (Likharev, Schileyko, MS).

***Pseudonapaeus lindholmi*** Kuznetsov, 1999

Fig. 29 G

Kuznetsov, 1999: 103-105, fig. 2 A, B, C.

- Type locality: Kirgizia, Chu Region, Alamedi District, Kirgiz Ala-Too Ridge, northwest of Chon-Kurchak village, 200 m northwest of automobile bridge, floodland of left bank of Chon-Kurchak River.
- Holotype: ZMMU No. Lc-24063.
- Dimensions: H 8.7-12.5, D 3.5- 4.9 mm.
- Distribution: Kirgiz Ala-Too, Zailiyskij Alatau, Kyungei Ala-Too ridges (northern Tien-Shan) (Kuznetsov, 1999).

***Pseudonapaeus miser*** (Martens, 1874)

Fig. 29 I

*Buliminus miser* Martens, 1874: 21-22, pl. 2, fig. 17.

- Type locality: Auchy-Dagana valley on the road from Ura-Tyube to mountain pass leading to Zaravshan valley (northern foothills of Turkestan Ridge).
- Holotype: unknown.
- Dimensions: H 5-11, D 2.2-5.0 mm.

- Distribution: Turkestan, Hissar, Alai, Ferghana, Chatkal, Kirgiz, Zailijskij ridges; Tarbagatai, western Altai (Likharev, Schileyko, MS).
- Remark: Very similar to *P. chodschendicus* and *Ottorosenia varenszovi*, differs by more ovate shell outline and narrower, not blunt, apex.

***Pseudonapaeus naykatikus*** Pazylov in Pazylov, Kuchbaev et Daminova, 2001

Textfig. 8

Pazylov et al., 2001: 57-58, fig. 2.

- Type locality: Alai Ridge, Karabulak Ravine, near Naukata settlement.
- Holotype: Gulistan State University.
- Dimensions: H 6.8-7.5, D 2.1-2.4 mm
- Distribution: type locality.
- Remark: Similar to *P. chodschendicus*, conchologically differs by more convex whorls, white suture and more reflexed margins of aperture.

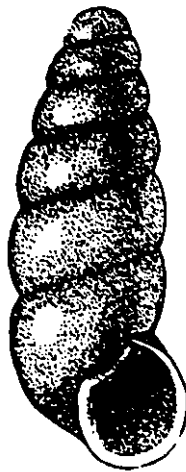
***Pseudonapaeus otostomus*** (Westerlund, 1898)

Fig. 31 A-D

[= *Buliminus otostomus* var. *servatus* Rosen, 1901]

*Buliminus (Brepbulus) otostomus* Westerlund, 1898: 164.

- Type locality: Totkul, Vakhsh valley.
- Lectotype (Likharev in Schileyko, 1984): NMG No. 1797.
- Dimensions: H 7.0-12.5, D 2.5-3.3 mm.
- Distribution: Hissaro-Darvaz ridge system (Likharev, Schileyko, MS).
- Remark: Differs from all other Enidae by ear-shaped aperture.




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**Textfig. 8.** *Pseudonapaeus naykatikus*, holotype, after Pazylov et al., 2001.

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***Pseudonapaeus regelianus*** (Ancey, 1886)

Fig. 30 A

[= *Buliminus cylindroconus* Ancey, 1886]

*Buliminus asiaticus* var. *regeliana* Ancey, 1886a: 270.

- Type locality: “Wjernoje, dans la Songarie” (Alma-Ata, Kazakhstan).
- Possible syntype: RBINS No. 10591.
- Dimensions: H 11-14, D 5.5-7.0 mm.
- Distribution: Zailijskij and Dzungar ridges and south and west of Issyk-Kul Lake (Likharev, Schileyko, MS).
- Remark: Similar to *P. asiaticus*, differs by much more flattened whorls.

***Pseudonapaeus retrodens*** (Martens, 1879)

Fig. 30 B, C

[= *Buliminus retroplicatus* Westerlund, 1894]

*Buliminus retrodens* Martens, 1879: 126.

- Type locality: “Kuldsha” (Ining (Kuldja), northwest China).
- Lectotype (Kilias, 1971): ZMB No. 34878a.
- Dimensions: H 9-13, D 3.5-5.0 mm.
- Distribution: Zailijskij, Kungei, Terskei, Djetim-Bel, Naryn, At-Bashi ridges, north-eastern Ferghana Ridge (Likharev, Schileyko, MS).

***Pseudonapaeus schileykoi*** Izzatullaev, 1991

Fig. 30 D, E

Izzatullaev, 1991: 138, fig.

- Type locality: Karategin Ridge, Komarou ravine, vicinities of Rvoz village.
- Holotype: ZIN.
- Dimensions: H 8.2-10.7, D 3.1-3.4 mm.
- Distribution: Karategin, Darvaz, Peter the Great ridges (Likharev, Schileyko, MS).

***Pseudonapaeus schnitnikovi*** (Lindholm, 1922)

Fig. 30 F, G

*Buliminus (Pseudopetraeus) schnitnikovi* Lindholm, 1922b: 274.

- Type locality: vicinities of Alma-Ata (Kazakhstan).
- Holotype: ZIN.
- Dimensions: H 9.5-11.0, D 3.5-3.6 mm.
- Distribution: Zailijskij Ridge, near Alma-Ata (Kazakhstan) (Likharev, Schileyko, MS).

***Pseudonapaeus secalinus*** (Mousson in Martens, 1880)

Fig. 30 H

[= *Buliminus semenovi* Ancey, 1893; *Buliminus biformis* Westerlund, 1896; *Buliminus torquatus* Westerlund, 1896; *Ena secalina* var. *maibulaki* Skvortzov, 1940]

*Buliminus secalinus* Mousson – Martens, 1880b: 27, pl. 6, figs. 8, 9.

- Type locality: “Kuldsha” (Ining (Kuldja), northwest China).
- Types: unknown.

- Dimensions: H 6-14, D 3-5 mm.
- Distribution: Tien-Shan: Zailiyskij, Kirgiz, Kungei, Terskei, ?Ferghana, Alai ridges (Likharev, Schileyko, MS).

***Pseudonapaeus sogdianus*** (Martens, 1874)

Fig. 31 E

[= *Buliminus oxianus* Martens, 1876; *Buliminus oxianus* var. *brevior* Martens, 1876; *Buliminus labiellus* var. *kokandensis* Martens, 1882; *Buliminus larvatus* Ancey, 1902; *Buliminus korschinskii* Lindholm, 1922]

*Buliminus sogdianus* Martens, 1874: 19, pl. 2, fig. 14a-c.

- Type locality: upper reaches of Zeravshan valley, Kuli-Kalan.
- Syntype: ZMB No. 22406.
- Dimensions: H 11-24, D 6-9 mm.
- Distribution: mountain areas of Turkmenia, Uzbekistan, western Kirgizia (Likharev, Schileyko, MS).

***Pseudonapaeus stabilis stabilis*** Schileyko, 1984

Fig. 31 F

Schileyko, 1984: 262, figs. 172, 173.

- Type locality: West Tien-Shan, Pskem River valley, 15 km upstream of Nanai settlement.
- Holotype: ZIN.
- Dimensions: H 11.5-16.0, D 5-6 mm.
- Distribution: West Tien-Shan, Pskem and Ugam ridges, Pskem River valley and lower reaches of Ugam River (Kuznetsov, 1999).

***Pseudonapaeus stabilis chatkalicus*** Kuznetsov, 1999

Fig. 31 G

Kuznetsov, 1999: 110, fig. 6 A, B, C.

- Type locality: Uzbekistan, Tashkent Region, Bostanlyk District, Keksui Ridge, 5.5 km south of Burchmulla settlement, right side of Chatkal River valley, lower third of western slope of Paltau Mount, 50 m above road, 1200 m above sea level.
- Holotype: ZMMU No. Lc-21892.
- Dimensions: H 10.9-18.0, D 5.1-6.5 mm.
- Distribution: Keksui Ridge (West Tien-Shan), lower reaches of Chatkal Ugam River (Kuznetsov, 1999).

***Pseudonapaeus submucronatus*** (Lindholm, 1927)

Fig. 31 H

*Ena (Pseudonapaeus) submucronatus* Lindholm, 1927b: 100.

- Type locality: Chatkal Ridge, middle reaches of Uzun-Akhmat River, 1200-1400 m above sea level.
- Lectotype (Schileyko, 1984): ZIN.
- Dimensions: H 13-17, D 7-9 mm.



- Distribution: two localities in the Naryn River Basin: along one of right tributaries of the Naryn in Chatkal Ridge and in foothills of Ferghana Ridge, along the same river (Likharev, Schileyko, MS).
- Remark: Very similar to *P. asiaticus*, differs by more attenuate summit.

***Pseudonapaeus subobscurus*** (Ancey, 1886)

Fig. 30 I, J

*Buliminus subobscurus* Ancey, 1886c: 330.

- Type locality: Daraty-Bulak, “Fekkès” (Tekes) River valley.
- Syntypes: NMW No. 1955.158.24112; RBINS No. 10591.
- Dimensions: H 9-12, D 4-5 mm.
- Distribution: East Kirgizia (Sary-Djaz Ridge, Tekes River valley) (Likharev, Schileyko, MS).

***Pseudonapaeus trigonochilus*** (Ancey, 1886)

Fig. 31 I-K

[= *Buliminus trigonochilus* f. *expansilabris* Westerlund, 1896; *Buliminus trigonochilus* f. *planicollis* Westerlund, 1896; *Buliminus trigonochilus* f. *pachybyla* Westerlund, 1896; *Buliminus castaneus* Westerlund, 1897; *Buliminus maracandensis* Rosen, 1901]

*Buliminus trigonochilus* Ancey, 1886a: 270.

- Type locality: not stated (“L’Asie centrale Russe” in the title) (“Samarkand” in later publication of the author).
- Syntypes: NMW No. 1955.158.24170.
- Dimensions: H 8-13, D 4-5 mm.
- Distribution: southern slopes of Chatkal, Ferghana and Alai ridges, vicinities of Samarkand (Likharev, Schileyko, MS).
- Remark: Differs from all other Enidae by rounded-triangular aperture in combination with uniformly chestnut or brown color.

***Pseudonapaeus zeravshanicus*** Pazylov et Daminova in

Pazylov, Kuchbaev et Daminova, 2001

Textfig. 9

Pazylov et al., 2001: 59-60, fig. 3.

- Type locality: Zaravshan Ridge, vicinities of Bashir village.
- Holotype: Gulistan State University.
- Dimensions: H 14-15, D 4-4.5 mm.
- Distribution: type locality.
- Remark: Similar to *P. albiplicatus*, conchologically differs in a slenderer shell and the presence of an angular tubercle in aperture.

***Subzebrinus*** Westerlund, 1887

Type species: *Buliminus labiellus* Martens, 1881 (SD Moellendorff, 1901)




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**Textfig. 9.** *Pseudonapaeus zeravshanicus*, holotype, after Pazylov et al., 2001.

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***Subzebrinus labiellus*** (Martens, 1880)

Fig. 32 A

[= *Buliminus labiellus* var. *strophostoma* Ancey, 1886; *Buliminus pullaster* Ancey, 1886]  
*Buliminus labiellus* Martens, 1880b: 24-25, pl. 6, figs. 1, 2.

- Type locality: Tarbagatai (Dzungar), “zwischen den Seen Balchasch und Dsaisan”.
- Lectotype (Kiliyas, 1971): ZMB No. 101591a.
- Dimensions: H 8-16, D 4-6 mm.
- Distribution: Zailijskij, Dzungar, Tarbagatai ridges (Likharev, Schileyko, MS).

***Turanena*** Lindholm, 1922

Type species: *Buliminus berzji* O. Boettger, 1889 (OD)

***Turanena albolimbata*** (Lindholm, 1927)

Fig. 32 B, C

*Ena* (*Turanena*) *albolimbata* Lindholm, 1927b: 98.

- Type locality: Chatkal Ridge, upper reaches of Turduk River (Naryn River Basin).
- Lectotype (Schileyko, 1984): ZIN (not found).
- Dimensions: H 9-11, D 5-6 mm.
- Distribution: Chatkal, ? Talas, Kirgiz ridges (Likharev, Schileyko, MS).

***Turanena boamica*** Kuznetsov, 1999

Fig. 32 D

Kuznetsov, 1999: 110-112, fig. 7 A, B, C.

- Type locality: Kirgizia, Chu Region, Kemin District, Kirgiz Ala-Too Ridge, Oktorkoi Mountains, left side of Chu River gorge (= Boam gorge), southwestern part of Kyz-Kuioo village, middle of east-south-eastern slope of mount, small ravine.
- Holotype: ZMMU No. Lc-24064.
- Dimensions: H 7.0-8.3, D 5.0-5.9 mm.
- Distribution: type locality.
- Remark: See Remark to *T. conicula*

***Turanena cognata*** (Lindholm, 1927)

Fig. 32 E

*Ena (Turanena) cognata* Lindholm, 1927b: 99.

- Type locality: Chatkal Ridge, lower reaches of Turduk River.
- Lectotype (Schileyko, 1984): ZIN.
- Dimensions: H 11-15, D 5-8 mm.
- Distribution: Chatkal, ? Talas, Kirgiz ridges (Likharev, Schileyko, MS).
- Remark: See Remark to *T. stschukini*.

***Turanena conicula*** (Martens, 1882)

Fig. 32 F, G

*Buliminus coniculus* Martens, 1882a: 23-24, pl. 3, fig. 3.

- Type locality: “Kuldsha” (Ining (Kuldja), northwest China).
- Holotype: ZIN.
- Dimensions: H 5.0-7.0, D 4.0-4.5 mm.
- Distribution: Alai (Chauvai village) and Zeravshan (near Marguzor Lake) ridges (Likharev, Schileyko, MS).
- Remark: Similar to *T. boamica*, differs by lesser size (height no more than 6.5 mm while shell height of *T. boamica* is no less than 7.0 mm). These two species differ anatomically.

***Turanena herzi*** (O. Boettger, 1889)

Fig. 32 H

*Buliminus (Pseudonapaenus) herzi* Boettger, 1889: 950, pl. 17, fig. 14.

- Type locality: Iran, Elburz, vicinities of Shakhrud.
- Lectotype (Zilch, 1959-1960): SMF No. 156687.
- Dimensions: H 7.5-9.0, D 4.5 mm.
- Distribution: ? mountains of southwestern Turkmenia (Likharev, Schileyko, MS).

***Turanena inversa*** Schileyko et Moisseeva, 1995

Fig. 33 A

Schileyko, Moisseeva, 1995: 45-46, figs. 1, 2.

- Type locality: Tien-Shan, Chatkal Range, upper part of the valley of the Aflatun River (left tributary of the Chatkal River).
- Holotype: ZMMU No. Lc-22029.
- Dimensions: H 14.3-17.5, D 9.0-9.5 mm.
- Distribution: type locality.

***Turanena leptogyra*** (Lindholm, 1927)

Fig. 33 B, C

*Ena* (*Turanena*) *leptogyra* Lindholm, 1927b: 99.

- Type locality: Chatkal Ridge, Balgut village between Mart and Kumbel mountain passages.
- Lectotype (Schileyko, 1984): ZIN.
- Dimensions: H 6-13, D 3.5-6.5 mm.
- Distribution: Alai, Chatkal, Pskem, ? Ugam, Talas ridges (Likharev, Schileyko, MS).

***Turanena margaritae*** Schileyko et Moisseeva, 1989

Fig. 33 D

Schileyko, Moisseeva, 1989: 139, fig. 1.

- Type locality: Tien-Shan, Kichik-Alai Ridge, Kirgiz-Ata Canyon, bank of Mazar-Sai River upstream from Eski-Naukat settlement.
- Holotype: ZMMU No. Lc-14477.
- Dimensions: H 6.4-8.7, D 4.2-5.5 mm.
- Distribution: type locality.

***Turanena martensiana*** (Ancey, 1886)

Fig. 33 E

[= *Buliminus liostracus* Ancey, 1886]*Buliminus martensiana* Ancey, 1886b: 45-46 (nom. nov. pro *Buliminus segregatus* var. *minor* von Martens, 1874).

- Type locality: mountains near Shakhimardan, foothills of Altai.
- Types: unknown.
- Dimensions: H 8-12, D 4-5 mm.
- Distribution: Turkestan, Zeravshan, Hissar ridges through Alai, Zaalai, Ferghana ridges to southwestern slopes of Kungei Ridge (Likharev, Schileyko, MS).

***Turanena meshkovi*** Schileyko, 1984

Fig. 33 F, G

Schileyko, 1984: 279, fig. 186 (VII, VIII).

- Type locality: West Tien-Shan, Pskem River valley, 15 km upstream of Nanai village.
- Holotype: ZIN (not found).
- Dimensions: H 11-14, D 5.0-7.5 mm.
- Distribution: West Tien-Shan, Pskem River valley (Likharev, Schileyko, MS).
- Remark: See Remark to *T. tenuispira*.

***Turanena scalaris*** (Naegele, 1902)

Fig. 33 H

*Buliminus* (*Pseudonapaeus*) *scalaris* Naegele, 1902: 6-7.

- Type locality: “in Monte Razoki, Urmia” (northwestern Iran).
- Types: unknown.
- Dimensions: H 6.5-7.0, D 3.5-4.0 mm.

- Distribution: South Armenia (Gnishik village, Dzafarigyukh area) (Likharev, Schileyko, MS).

***Turanena stschukini*** (Lindholm, 1927)

Fig. 34 A

*Ena (Turanena) stschukini* Lindholm, 1927b: 100.

- Type locality: Dzuvan-Syuguet River valley, right tributary of Uzun-Akhmat River (Naryn River Basin).
- Lectotype (Schileyko, 1984): ZIN.
- Dimensions: H 17.0-19.5, D 10.5-11.8 mm.
- Distribution: Chatkal and Ferghana ridges (Likharev, Schileyko, MS).
- Remark: Similar to *T. cognata*, differs mainly in size: shell height of *T. cognata* is 11-15 mm, diameter 5-8 mm while in *T. stschukini* the values are 17.0-19.5 and 10.5-11.8 mm correspondingly. Besides, in *T. stschukini* the margins of aperture are much more expanded and reflexed.

***Turanena tenuispira*** Schileyko, 1984

Fig. 34 B, C

Schileyko, 1984: 282, figs. 186 (V, VI), 196, 197.

- Type locality: Kara-Kostek River valley near Alma-Ata.
- Holotype: ZIN.
- Dimensions: H 12-14, D 5.5-7.0 mm.
- Distribution: Zailijskij and Ferghana ridges (Likharev, Schileyko, MS).
- Remark: Similar to *T. meshkovi*, differs in comparative width of penultimate whorl: in *T. meshkovi* two last whorls are of nearly equal width while in *T. tenuispira* the penultimate whorl is somewhat narrower than the last one.

**CHONDRULOPSININAE** Schileyko, 1978

***Chondrulopsina*** Lindholm, 1925

Type species: *Buliminus haberbaueri* Ancey, 1886 (= *Buliminus intumescens* var. *fedtschenkoi* Ancey, 1886) (OD)

***Chondrulopsina fedtschenkoi*** (Ancey, 1886)

Fig. 34 D, F

[= *Buliminus intumescens* var. *inermis* Ancey, 1893; *Buliminus anomphalus* Westerlund, 1897; *Buliminus bisinuatus* Westerlund, 1898; *Buliminus rennenkampfi* Rosen, 1901; *Chondrulopsina trisinuata* Mukhitdinov, 1976]

*Buliminus intumescens* var. *fedtschenkoi* Ancey, 1886b: 51-52.

- Type locality: "Samarkand, dans la vallée du Sarafschan".
- Syntype: NMW No. 1955.158.01676.
- Dimensions: H 6.3-9.0, D 2.4-3.5 mm.

- Distribution: mountain and submountain areas of Samarkand Region: Ferghana, Alai, Kuramin, Turkestan, Zaalai, Hissar ridges (Likharev, Schileyko, MS).

***Chondrulopsina intumescens*** (Martens, 1874)

Fig. 34 G, J

[= *Buliminus annenkovii* Ancey, 1893; *Buliminus (Chondrula) anomphalus* f. *infans* Westerlund, 1897; *Buliminus intumescens* var. *sultanus* Rosen, 1901; *Subzebrinus likharevi* Mukhitdinov, 1976]

*Buliminus (Chondrula) intumescens* Martens, 1874: 22, pl. 2, fig. 18.

- Type locality: Chupanata near Samarkand.
- Holotype: ZMB No. 22459.
- Dimensions: H 8-11, D 3.0-4.5 mm.
- Distribution: mountain regions of Central Asia except for northern Tien-Shan and Dzungar Ridge (Likharev, Schileyko, MS).

***Siraphoroides*** Schileyko, 1977

Type species: *Siraphoborus moltschanovi* Likharev et Rammelmeyer, 1952 (OD)

***Siraphoroides moltschanovi*** (Likharev et Rammelmeyer, 1952)

Fig. 34 H, I

*Siraphoborus moltschanovi* Likharev, Rammelmeyer, 1952: 207, figs. 121, 122.

- Type locality: Arslanbob, Ferghana Ridge.
- Holotype: ZIN.
- Dimensions: H 6.3-8.0, D 3.0-3.2 mm.
- Distribution: Ferghana Ridge (Arslanbob), Yangyskyr Mountains near eastern Ferghana Ridge, upper reaches of Pchan River (right tributary of Ala-Buka, Naryn River Basin), Naryn River valley in 10 km of At-Bashi hydroelectric power plant (Likharev, Schileyko, MS).

**MERDIGERINAE** Schileyko, 1984

***Merdigera*** Held, 1837

Type species: *Helix obscura* Müller, 1774 (SD Herrmannsen, 1847)

***Merdigera invisiva*** Kijashko, 2006

Fig. 35 A, B

Kijashko, 2006: 89-91, fig. 1.

- Type locality: northwest Caucasus, Adygeja, Lagonaki Mountains, southern foot of Lagonaki Ridge, right riverbank Tsitse (right inflow of the river Psheha), (~ 1200 m above sea level).
- Holotype: ZIN.
- Dimensions: H 7.5-8.0, D 3.3-3.5 mm.
- Distribution: type locality (Kijashko, 2006).

- Remark: The species is conchologically indistinguishable from *Merdigera obscura* and *Akramovskiella umbrosa*, though there are significant distinguishing peculiarities of the genital apparatus structure (the absence of verge in penis and papilla in penial appendix) (Kijashko, 2006).

***Merdigera obscura*** (Müller, 1774)

Fig. 35 C

*Helix obscura* Müller, 1774: 103.

- Type locality: Fridrichsdal (vicinities of Copenhagen).
- Types: unknown.
- Dimensions: H 6.5-11.0, D 3-4 mm.
- Distribution: Baltic countries; western, northern and central Ukraine (Sverlova, 2006); Byelorussia (Vitebsk Region); Russia (Tver, Smolensk, Yaroslavl regions, vicinities of Moscow and St.-Petersburg), mountain Crimea, northwestern Caucasus, Uzbekistan (West Tien-Shan), Kazakhstan (Dzhungaria) (Kuznetsov, 1999).

**BULIMINUINAE** Schileyko, 1998

***Adzharia*** Hesse, 1933

Type species: *Adzharia renschi* Hesse, 1933 (monotypy)

***Adzharia renschi*** Hesse, 1933

Fig. 35 D

Hesse, 1933: 158, fig. 4.

- Type locality: “Chula” (Khulo) mountain pass, Adzharo-Imereti Ridge.
- Lectotype (Kilias, 1971): ZMB No. 75980a.
- Dimensions: H 19.0-20.5, D 10 mm.
- Distribution: type locality.

***Buliminus*** Beck, 1837

Type species: *Buliminus labrosus* Olivier, 1804 (SD Gray, 1847)

***Buliminus urmianus*** O. Boettger, 1898

Fig. 35 E, F

[= *Buliminus valentini* Kobelt, 1902]

*Buliminus (Petraeus) halepensis* var. *urmiana* Boettger, 1898: 26-27.

- Type locality: “Urmia in Kurdistan, Nordwest-Persien” (vicinities of Rezaiyeh (Urmia) City, northwestern Iran).
- Syntypes: SMF No. 14506 (“lectotype”), SMF No. 14507/15, 150761/13 (“paralectotypes”).
- Dimensions: H 18-24, D 8.5-10.0 mm.
- Distribution: Nakhichevan area (mouth of Alindzha-chai River, 5 km west of Dzhulfa), Azerbaijan (Zangilan Region) (Likharev, Schileyko, MS).

## ANDRONAKIINAE Schileyko, 1998

**Andronakia** Lindholm, 1914

Type species: *Chondrula* (?) *catenulata* Lindholm, 1913 (monotypy)

**Andronakia catenulata** (Lindholm, 1913)

Fig. 35 G, H

*Chondrula* (?) *catenulata* Lindholm, 1913: 22-23.

- Type locality: “Ortschaft Wasrija am Pass nach Kwarzschana (Gouvernement Batum)” (northwestern Turkey).
- Lectotype (Schileyko, 1984): ZIN.
- Dimensions: H 5.5-8.5, D 3.3-4.5 mm.
- Distribution: Adzharia: Mtirala Mount in 28-30 km east of Batumi and Khelvachauri district near Chirnali village in Chirnali River valley (Likharev, Schileyko, MS).

## RETOWSKIINAE Schileyko, 1978

**Retowskia** O. Boettger, 1881

Type species: *Chondrus schlaeflii* Mousson, 1863 (monotypy)

**Retowskia schlaeflii** (Mousson, 1863)

Fig. 35 I

[= *Buliminus schlaeflii* var. *ingens* O. Boettger, 1888]

*Chondrus schlaeflii* Mousson, 1863: 390.

- Type locality: “Rédutkaleh” (vicinities of Poti).
- Types: unknown.
- Dimensions: H 13.5-23.5, D 7.0-9.5 mm.
- Distribution: mountain areas of western Great Caucasus (including upper reaches of Belaya River in the east) and Transcaucasia (including Suram Ridge in the east) (Likharev, Schileyko, MS).

## ENINAE Woodward, 1903

**Brephulopsis** Lindholm, 1925

Type species: *Chondrus attenuatus* Krynicki, 1833 (= *Chondrus bidens* Krynicki, 1833) (OD)

**Brephulopsis bidens** (Krynicki, 1833)

Fig. 36 A, B

[= *Chondrus attenuatus* Krynicki, 1833; *Bulimus theodosianus* Bourguignat, 1876; *Buliminus retowskianus* Clessin, 1881; *Buliminus* (*Brephulus*) *bidens* natio *turriiformis* Puzanov, 1925; *Buliminus* (*Brephulus*) *bidens* natio *pygmaea* Puzanov, 1925; *Buliminus* (*Brephulus*) *bidens* natio *Cimmerii* Puzanov, 1926; *Buliminus* (*Brephulus*) *bidens* natio *gracilis* Puzanov, 1926; *Buliminus* (*Brephulus*) *bidens* natio *costulatus* Puzanov, 1926]



*Chondrus bidens* Krynicki, 1833: 401-402, pl. 3, fig. 3a-e.

- Type locality: Simferopol (Crimea).
- Lectotype (Schileyko, 1984): ZIN.
- Dimensions: H 14-22, D 5-6 mm.
- Distribution: Crimea (mountains and steppe) (Likharev, Schileyko, MS).

***Brephulopsis cylindrica*** (Menke, 1828)

Fig. 36 C

[= *Chondrus lineatus* Krynicki, 1833; *Chondrus turgidus* Krynicki, 1833; *Chondrus fuscilabris* Krynicki, 1833; *Chondrus concolor* Krynicki, 1833; *Bulimus unicolor* Andrzejowski in Krynicki, 1833; ?*Bulimus turritella* Andrzejowski in Krynicki, 1833; *Bulimus illibatus* Rossmässler, 1837; *Bulimus tauricus* L. Pfeiffer, 1848; *Chondrus duboisi* Mousson, 1863; *Bulimus subacuminatus* Retowski, 1888; *Buliminus (Zebrina) cylindricus inflatus* Pusanov, 1925; *Buliminus (Zebrina) cylindricus minor* Puzanov, 1925; *Buliminus (Zebrina) cylindricus natio cupressiformis* Puzanov, 1925]

*Bulimus cylindrica* Menke, 1828: 77.

- Type locality: not stated.
- Types: unknown.
- Dimensions: H 20-30, D 7-10 mm.
- Distribution: Crimea (mountains and steppe); Odessa, Nikolaev, Kherson, Zaporozhje, Dnepropetrovsk, Donetsk regions of Ukraine; probably introduced records from Moldova, Kiev, Lvov, Novorossiisk, Anapa and Sukhumi (Likharev, Schileyko, MS; Sverlova, 2006).

***Caucasicola*** Hesse, 1917

Type species: *Buliminus raddei* Kobelt, 1880 (monotypy)

***Caucasicola raddei*** (Kobelt, 1880)

Fig. 36 D

*Buliminus raddei* Kobelt, 1880: 50, figs. 2008, 2009.

- Type locality: “? Avarien” (mountain Daghestan).
- Lectotype (Zilch, 1959-1960): SMF No. 156684.
- Dimensions: H 21-27, D 9-13 mm.
- Distribution: horseshoe-shaped range starts in North Caucasus, approximately at Maikop (one record near Nalchik), passing westward to Novorossiisk and Gelendzhik and including western regions of southern slopes of Great Caucasus, to the Kodor River in the east. As for East Caucasus, Kobelt himself was not certain about the reliability of the type locality, and there are no reliable records of the species from Daghestan (Likharev, Schileyko, MS).

***Chondrula*** Beck, 1837

Type species: *Helix tridens* Müller, 1774 (SD Martens in Albers, 1860)

***Chondrula bielzi*** (Kimakowicz, 1890)

Fig. 36 E

*Dentistomus (Amphitrorus) bielzi* Kimakowicz, 1890: 222.

- Type locality: Transylvania.
- Types: unknown.
- Dimensions: H 16-24, D 7-10 mm.
- Distribution: Ukraine (Lesistye Carpathians) (Likharev, Schileyko, MS).

***Chondrula caucasica*** (L. Pfeiffer, 1852)

Fig. 36 F

[= *Buliminus ponticus* Retowski, 1887]*Bulimus caucasica* Pfeiffer, 1852: 94.

- Type locality: “in Caucaso”.
- Types: unknown.
- Dimensions: H 17-20, D 6.0-7.5 mm.
- Distribution: Novyi Afon (Abkhazia), occasional record from sea coast of Crimea between Feodosiya and Sudak (Likharev, Schileyko, MS).

***Chondrula microtraga*** (Parreyss in Rossmässler, 1839)

Fig. 36 G

*Pupa microtraga* Parreyss – Rossmässler, 1839: 30-31, pl. 49, fig. 651.

- Type locality: “Griechenland”.
- Holotype: SMF No. 182473.
- Dimensions: H 8.0-12.5, D 3.5-4.5 mm.
- Distribution: the species could be found in Adzharia near border of Turkey and near the border of Romania (Likharev, Schileyko, MS); one probably introduced population in Odessa (Sverlova, 2006).

***Chondrula sunzhica*** Steklov, 1962

Fig. 36 H

*Chondrula microtraga sunzhica* Steklov, 1962: 141, pl. 2, figs. 3, 4.

- Type locality: Akchagyl and “Subakchagyl” deposits (Pliocene) of Sunzha River near Alda village, Ciscaucasia.
- Holotype: PIN.
- Dimensions: H 11.0-14.5, D 5.0-5.5 mm.
- Distribution: East Georgia (Telavi District, Alvani village; Kvareli District, Eniseli-Tarsagalavani village; Gremi village, Mount Chrdili) (Likharev, Schileyko, MS).

***Chondrula tridens*** (Müller, 1774)

Fig. 36 I

[= *Chondrus major* Krynicki, 1833; *Chondrus elatus* Andrzejowski in Krynicki, 1833; *Pupa tricallosa* Parreyss in Krynicki, 1833; ?*Chondrus microstomus* Andrzejowski in Krynicki, 1833; *Pupa tridens* var. *eximia* Rossmässler, 1835; *Buliminus albolimbatus* L. Pfeiffer, 1848; *Buliminus bayeri* L. Pfeiffer, 1848; *Buliminus tridens* var. *attenuatus* Issel, 1865; *Chondrus*

*galiciensis* Clessin, 1879; *Buliminus tridens* var. *keubanensis* O. Boettger, 1879; *Buliminus tridens* var. *caucasicus* Martens, 1880; *Buliminus tridens* var. *major* f. *marcida* O. Boettger, 1886; *Chondrula tridens* var. *tenuilabiata* Lindholm, 1901; *Buliminus tridens* var. *exiguus* Retowski, 1914; *Buliminus tridens* var. *terkensis* Retowski, 1914]

*Helix tridens* Müller, 1774: 106-107.

- Type locality: “in Italia”.
- Types: unknown.
- Dimensions: H 10.0-25.2, D 4.0-9.1 mm.
- Distribution: East-European Plain (Ryazan Region, steppe zone to the Ural River in the east; forest-steppe and sometimes forest zones in Ukraine), Carpathians, Crimea, Caucasus (Likharev, Schileyko, MS; Sverlova, 2006).

### **Chondrus** Cuvier, 1817

Type species: *Bulimus zebra* Olivier, 1801 (= *Helix (Cochlogena) zebra* Férussac, 1821) (SD Gray, 1847)

### **Chondrus zebra** (Férussac, 1821)

Fig. 37 A

[= *Bulimus zebra* Olivier, 1801, non Bruguière, 1792; *Bulimus tantalus* L. Pfeiffer, 1868; *Buliminus olympicus* Kobelt, 1877; *Brephulus bithynicus* Galland, 1884; *Brephulus zebra* var. *anatolica* Galland, 1884; *Brephulus brardus* Galland, 1884; *Brephulus zebroopsis* Galland, 1884; *Buliminus euscinus* Retowski, 1889]

*Helix (Cochlogena) zebra* Férussac, 1821: 58, 70 (nom. nov. pro *Bulimus zebra* Olivier, 1801).

- Type locality: “Gemleck, les Dardanelles” (Gemelek, Turkey).
- Lectotype (Schileyko, 1998b): MNHN.
- Dimensions: H 12-19, D 4.0-5.5 mm.
- Distribution: empty shells found in sea debris in Crimea (near Sudak) and on the sea shore in Poti (between mouths of Rioni and small river flowing from Paleostom Lake) (Likharev, Schileyko, MS).

### **Ena** Turton, 1831

Type species: *Bulimus montanus* Draparnaud, 1801 (SD Herrmannsen, 1847)

### **Ena montana** (Draparnaud, 1801)

Fig. 37 B

*Bulimus montanus* Draparnaud, 1801: 65.

- Type locality: “dans les montagnes des Cévennes et de la Savoie” (France).
- Syntypes: NHMV, MNHN.
- Dimensions: H 13-16, D 5.0-6.5 mm.
- Distribution: western regions of Ukraine, Latvia, Estonia, Valdai Hills, vicinities of Moscow and St.-Petersburg, South Ural (Likharev, Schileyko, MS).

***Georginapaeus*** Schileyko, 1988

Type species: *Bulimus bobenackeri* L. Pfeiffer, 1848 (OD)

***Georginapaeus hohenackeri*** (L. Pfeiffer, 1848)

Fig. 37 C

[= *Bulimus bobenackeri* Krynicki, 1837, nom. nud.; *Buliminus bobenackeri* var. *intermedius* Mousson, 1863; *Buliminus bobenackeri* f. *leucolaemis* Lindholm, 1922]

*Bulimus bobenackeri* Pfeiffer, 1848: 223.

- Type locality: Georgia.
- Types: unknown.
- Dimensions: H 20-30, D 9-14 mm.
- Distribution: central and eastern parts of North Caucasus, Transcaucasia (Likharev, Schileyko, MS).

***Peristoma*** Krynicki, 1833

Type species: *Peristoma merduenianum* Krynicki, 1833 (monotypy)

***Peristoma boettgeri*** (Clessin, 1883)

Fig. 37 D

[= *Bulimus tener* Mousson, 1873, non Rossmässler, 1837; *Buliminus (Ena) boettgeri* var. *connivens* O. Boettger, 1886]

*Buliminus boettgeri* Clessin, 1883: 50, pl. 2, fig. 15.

- Type locality: not stated.
- Types: unknown.
- Dimensions: H 12-15, D 6.5-7.5 mm.
- Distribution: Georgia: Kutaisi, Tekhuri River valley, vicinities of Tzageri, Borzhomi, Teberda Natural Reserve (Likharev, Schileyko, MS).

***Peristoma lanceum*** Schileyko, 1984

Fig. 37 E, F

Schileyko, 1984: 343, fig. 250.

- Type locality: Bzyb River valley near Pitzunda.
- Holotype: ZIN.
- Dimensions: H 11.0-12.2, D 4.1-4.2 mm.
- Distribution: type locality.
- Remark: records of *Peristoma merduenianum* from some localities of West Caucasus – Borzhomi, Kutaisi (Mousson, 1873; O. Boettger, 1881a, as *Buliminus tener*) – probably refer to this species.

***Peristoma merduenianum*** Krynicki, 1833

Fig. 37 G, H

[= *Bulimus tener* Rossmässler, 1837; ? *Buliminus fragilis* Anton, 1839]

Krynicki, 1833: 421-423, pl. 9, fig. 7a-d.

- Type locality: “Merdiven and along Aila” (mountain Crimea).

- Lectotype (Schileyko, 1984): ZIN.
- Dimensions: H 13-16, D 5-7 mm.
- Distribution: mountain Crimea (Likharev, Schileyko, MS).

***Peristoma rupestre*** (Krynicky, 1833)

Fig. 37 I, J

[= *Bulimus assimilis* Rossmässler, 1837; *Buliminus kuznetzovi* Lindholm in Kobelt, 1907; *Buliminus brauneri* Lindholm, 1908]

*Buliminus rupestris* Krynicky, 1833: 413-415, pl. 3, fig. 5a-d.

- Type locality: Merdven village (mountain Crimea).
- Types: unknown.
- Dimensions: H 15-20, D 6.9 mm.
- Distribution: mountain Crimea (Likharev, Schileyko, MS).

***Ramusculus*** Lindholm, 1925

Type species: *Bulimus subulatus* Rossmässler, 1837 (OD)

***Ramusculus subulatus*** (Rossmässler, 1837)

Fig. 39 A

*Bulimus subulatus* Rossmässler, 1837: 48, fig. 393.

- Type locality: “? probably Crimea”.
- Types: lost (R. Janssen, pers. comm.).
- Dimensions: H 8-14, D 2.1-3.0 mm.
- Distribution: mountain Crimea (Likharev, Schileyko, MS).

***Thoanteus*** Lindholm, 1925

Type species: *Bulimus gibber* Krynicky, 1833 (OD)

***Thoanteus ferrarii*** Hausdorf, 1994

Fig. 38 A, B

Hausdorf, 1994: 354-355, figs. 1-3.

- Type locality: rock opposite the pioneer-camp “Artek-Lazurnyi”, 10-20 m above the lower road between Artek and Gurzuf, Yalta District, Crimea.
- Holotype: SMF No. 309928.
- Dimensions: H 17.5-20.5, D 7.7-8.1 mm.
- Distribution: type locality (Hausdorf, 1994).

***Thoanteus gibber*** (Krynicky, 1833)

Fig. 38 C, D

[= *Bulimus revolutus* Parreyss in Krynicky, 1833; *Bulimus revolutus* Rossmässler, 1837; *Bulimus phorcus* Bourguignat, 1855]

*Bulimus gibber* [laps. cal., corrected by Krynicky himself in 1837] Krynicky, 1833: 416, pl. 3, fig. 6a-c.

- Type locality: “between Merdven and Skel’yu village” (Crimea).

- Lectotype (Schileyko, 1984): ZIN.
- Dimensions: H 19-22, D 7-9 mm.
- Distribution: mountain Crimea (Likharev, Schileyko, MS).

***Zebrina*** Held, 1837

Type species: *Helix detritus* Müller, 1774 (SD Gray, 1847)

***Zebrina detrita*** (Müller, 1774)

Fig. 39 B

[= *Bulimus radiatus* Bruguière, 1789]

*Helix detritus* Müller, 1774: 101-102.

- Type locality: “in Italia & in Saxonia”.
- Types: unknown.
- Dimensions: H 17-27, D 9-12 mm.
- Distribution: Ukraine (plain areas of Transcarpathia, Mala Kopanya village), probably southwestern Transcaucasia (Likharev, Schileyko, MS).

MULTIDENTULINAE Schileyko, 1978

***Euchondrus*** O. Boettger, 1883

Type species: *Pupa chondriformis* Mousson, 1861 (monotypy)

***Euchondrus acutior*** (Lindholm, 1922)

Fig. 38 E

*Chondrula acutior* Lindholm, 1922c: 358-359.

- Type locality: “im Genist des Fl. Tschoroch bei Kapandidi (unweit Batum)”.
- Holotype: ZIN
- Dimensions: H 5.8, D 2.0 mm.
- Distribution: probably Chorokh River valley.

***Euchondrus lamelliferus*** (Rossmässler, 1859)

Fig. 38 F

[= ? *Chondrus phasianus* Mousson, 1863; *Buliminus clessini* Retowski, 1883; *Buliminus lamelliferus* var. *angustatus* Retowski, 1887]

*Bulimus lamellifera* Rossmässler, 1859: 95, pl. 83, fig. 919.

- Type locality: Syria.
- Types: lost (R. Janssen, pers. comm.).
- Dimensions: H 4.0-6.5, D 2.2-4.0 mm.
- Distribution: there are no reliable records supported by anatomical studies but the species is probably present in Adzharia near the border of Turkey (Likharev, Schileyko, MS).
- Remark: Reliably *E. lamelliferus* and the two next species (*Improvisa pupoides* and *Senari-denta nachicevanjensis*) differ from each other only anatomically (Schileyko, 1984).

**Improvisa** Schileyko, 1978

Type species: *Chondrus pupoides* Krynicki, 1833 (OD)

**Improvisa pupoides** (Krynicki, 1833)

Fig. 38 G

[= *Buliminus angustior* Retowski, 1888]

*Chondrus pupoides* Krynicki, 1833: 410.

- Type locality: Mashuk Mount near Pyatigorsk (North Caucasus).
- Lectotype (Schileyko, 1984): ZIN.
- Dimensions: H 4.5-5.5, D 2.7-3.2 mm.
- Distribution: North Caucasus and Transcaucasia (Likharev, Schileyko, MS).
- Remark: See Remark to *Euchondrus lamelliferus*.

**Pentadentula** Suvorov, 1996

Type species: *Pentadentula balandinae* Suvorov, 2006 (OD)

**Pentadentula balandinae** Suvorov, 2006

Fig. 38 I

Suvorov, 2006: 93-96, figs. 1-2.

- Type locality: NW Caucasus, Russia, Krasnodar Territory, valley of Mzymta river, surroundings of Monastyr settlement, Akh-Tsu canyon.
- Holotype: ZMMU No. Lc-28617.
- Dimensions: H 5.8-6.5, D 2.5-3.0 mm.
- Distribution: type locality (Suvorov, 2006).

**Senaridenta** Schileyko, 1978

Type species: *Chondrula nachicevanjensis* Hudec, 1972 (OD)

**Senaridenta nachicevanjensis** (Hudec, 1972)

Fig. 38 H

*Chondrula nachicevanjensis* Hudec, 1972: 217, figs. 2, 5.

- Type locality: vicinities of Stepanakert, Nagornyi Karabakh.
- Holotype: SMF No. 225190.
- Dimensions: H 5.0-6.3, D 3.0-3.5 mm.
- Distribution: type locality.
- Remark: See Remark to *Euchondrus lamelliferus*.

CLAUSILIIDAE Gray, 1855

SERRULININAE Ehrmann, 1927

**Caspiophaedusa** Lindholm, 1924

Type species: *Clausilia perlucens* O. Boettger, 1877 (OD)

***Caspiophaedusa perlucens*** (O. Boettger, 1877)

Fig. 39 C

[= *Serrulina signifera* Westerlund, 1897]*Clausilia perlucens* Boettger, 1877a: 69.

- Type locality: “Kaukasus”.
- Lectotype (Zilch, 1954): SMF No. 61559a.
- Dimensions: H 12-15, D 3.6-4.0 mm (decollated shell).
- Distribution: Talysh, southern slopes of Great Caucasus from Lagodekhi to Khudat, north and northeastern parts of Lesser Caucasus and Zangezur (Likharev, Schileyko, MS).

***Pontophaedusa*** Lindholm, 1924Type species: *Clausilia funiculum* Mousson, 1863 (OD)***Pontophaedusa funiculum*** (Mousson, 1863)

Fig. 39 D

*Clausilia funiculum* Mousson, 1863: 397-398.

- Type locality: “Chysirkaleh” (near Poti).
- Types: unknown.
- Dimensions: H 14.6-18.8, D 4-5 mm (decollated shell).
- Distribution: Black Sea coast from Sochi to Turkey (Likharev, Schileyko, MS).
- Remark: Egorov (2001) stated that there is the lectotype of *C. funiculum* in SMF (No. 61488/5). However, Zilch (1954) did not mentioned any type specimens of the species, whereas that number belongs to the specimen illustrated in the Kobelt’s chapter in Rossmässler’s “Iconographic”.

***Pravispira*** Lindholm, 1924Type species: *Clausilia semilamellata* Mousson, 1863 (OD)***Pravispira semilamellata*** (Mousson, 1863)

Fig. 39 E, F

[= *Clausilia semilamellata* var. *serrulosa* Retowski, 1889]*Clausilia semilamellata* Mousson, 1863: 396-397.

- Type locality: “Rédutkaleh” (north of Poti).
- Syntypes: ZMZ No. 516635.
- Dimensions: H 10.3-13.2, D 3 mm.
- Distribution: forest areas of western and central Great Caucasus, Black Sea coast from Sochi to Turkey, West and South Georgia, Kutkashen District in Azerbaijan (Likharev, Schileyko, MS).
- Remark: Egorov (2001) stated that there are syntypes of *C. semilamellata* in SMF (No. 61536a/5). However, Zilch (1954) did not mentioned any type specimens of the species.

***Serrulina*** Mousson, 1873Type species: *Clausilia sieversi* L. Pfeiffer, 1871 (OD)



***Serrulina serrulata serrulata*** (L. Pfeiffer, 1847)

Fig. 39 G

[= *Clausilia gracilior* Mousson, 1863; *Clausilia erivanensis* Issel, 1865; *Clausilia serrulata* var. *semiserrata* Lindholm, 1913]

*Clausilia serrulata* Pfeiffer, 1847: 71.

- Type locality: “Tauria” (Crimea).
- Types: unknown.
- Dimensions: H 11.0-12.7, D 2.6-3.2 mm.
- Distribution: western and central forest areas of North Caucasus and Transcaucasia, Transcarpathian Region of Ukraine (Tyachevsky District, between Tereblya and Teresva rivers).
- Remark: The type locality is evidently erroneous, because the species does not live in Crimea. The type could be collected in sea debris.

Egorov (2001) stated that there is the lectotype of *C. serrulata* in SMF (No. 61514/2). However, Zilch (1954) did not mention any type specimens of the species. The lot No. 61514 has been collected in 1882.

***Serrulina sieversi sieversi*** (L. Pfeiffer, 1871)

Fig. 40 A

*Clausilia sieversi* Pfeiffer, 1871: 70-71.

- Type locality: “Caucasia meridionalis” (Lenkoran, Azerbaijan).
- Types: unknown.
- Distribution: South Azerbaijan: forests of Talysh and Lenkoran lowland (Likharev, Schileyko, MS).
- Dimensions: H 9.7-11.0, D 2.4-2.8 mm.
- Remark: Egorov (2001) stated that there is the lectotype of *C. sieversi* in SMF (No. 61527a/6). However, Zilch (1954) did not mention any type specimens of the species.

***Serrulina sieversi occidentalis*** Likharev, 1962

Fig. 40 B

Likharev, 1962a: 118.

- Type locality: Azerbaijan, Zakataly Region, Tzilban-chai River.
- Holotype: ZIN.
- Dimensions: H 11.2-12.6, D 2.7-3.0 mm.
- Distribution: eastern Georgia and Azerbaijan: mountain deciduous forests of southern slopes of Great Caucasus and adjacent lowland (Likharev, Schileyko, MS).

***Serrulinella*** Nordsieck, 1984

Type species: *Serrulina senghanensis* de Morgan in Germain, 1933 (OD)

***Serrulinella senghanensis*** (de Morgan in Germain, 1933)

Fig. 40 C, D

*Serrulina senghanensis* de Morgan – Germain, 1933: 391.

- Type locality: “Le Ghilan: Siah Senghan, Titi, Sord-âb-è-Baba”.
- Lectotype (Nordsieck, 1978, as “holotype”): MNHN.
- Dimensions: H 8.0-9.7, D 1.7-1.9 mm.
- Distribution: Georgia (Egorov, 2001).

***Truncatophaedusa*** Majoros, Nemeth et Szili-Kovacs, 1994

Type species: *Truncatophaedusa evae* Majoros, Nemeth et Szili-Kovacs, 1994 (OD)

***Truncatophaedusa evae*** Majoros, Nèmeth et Szili-Kovács, 1994

Majoros et al., 1994: 124-125, fig. 1.

- Type locality: valley of Dagomys River near Nor Luis village, 10 km northward from Dagomys village.
- Holotype: private collection of Szili-Kovács.
- Dimensions: H 7.9-9.1, D 1.9-2.3 mm.
- Distribution: West Caucasus adjacent to Black Sea coast (Egorov, 2001).

**ALOPIINAE** A. Wagner, 1913

***Alopi*** H. et A. Adams, 1855

Type species: *Clausilia bielzii* L. Pfeiffer, 1848 (SD Westerlund, 1902)

***Alopi glauca*** (Bielz, 1853)

Fig. 40 E

*Balea glauca* Bielz, 1853: 130.

- Type locality: Transylvania.
- Types: unknown.
- Dimensions: H 13.7-16.5, D 3.8-4.0 mm.
- Distribution: probably in Ukrainian Transcarpathia, in areas adjacent to Molodova and Bistritza river basins.

***Cochlodina*** Férussac, 1821

Type species: *Clausilia bidens* Draparnaud, 1801 (= *Turbo laminatus* Montagu, 1803) (SD Pilsbry, 1922)

***Cochlodina cerata*** (Rossmässler, 1836)

Fig. 40 F

[= *Cochlodina pareysi* Rossmässler, 1836]

*Clausilia cerata* Rossmässler, 1836b: 15, fig. 258.

- Type locality: “Buccovina” (Ukraine, Chernovtzy Region).
- Types: unknown.
- Dimensions: H 15-17, D 3.5-4.0 mm.
- Distribution: Ukraine (Chernovtzy and Zakarpatye regions) (Likharev, Schileyko, MS).

***Cochlodina costata*** (Ziegler in C. Pfeiffer, 1828)

Fig. 40 G

[= *Cochlodina commutata* Rossmässler, 1836]

*Clausilia costata* Ziegler – Pfeiffer, 1828: 42, pl. 7, figs. 17, 18.

- Type locality: “Illyrien”.
- Types: unknown.
- Dimensions: H 12-15, D 3.2-3.4 mm.
- Distribution: Ukraine: Zakarpatye Region (Polevina, 1959; Zdun, 1960).
- Remark: the species identification by Zdun was erroneous, so the species presence in Ukrainian fauna requires confirmation (Sverlova, 2006).

***Cochlodina laminata*** (Montagu, 1803)

Fig. 41 A

*Turbo laminatus* Montagu, 1803: 359-361, pl. 11, fig. 4.

- Type locality: Lackham wood and Bow Wood (Wiltshire), neighbourhood of Sandwich (Kent) (England).
- Syntypes: RAME.
- Dimensions: H 14-18, D 3.8-4.2 mm.
- Distribution: East-European Plain, Carpathians, mountain Crimea, Stavropol Region (Likharev, Schileyko, MS; Sverlova, 2006).

***Cochlodina orthostoma*** (Menke, 1830)

Fig. 41 B

*Clausilia orthostoma* Menke, 1830: 130.

- Type locality: vicinities of Leipzig (Germany).
- Types: unknown.
- Dimensions: H 11-13, D 2.8-3.2 mm.
- Distribution: Carpathians, Baltic countries, northwestern, western and central regions of East-European Plain (Likharev, Schileyko, MS).

MENTISSOIDEINAE Lindholm, 1924

***Acrotoma*** O. Boettger, 1881

Type species: *Clausilia komarovi* O. Boettger, 1881 (OD)

***Acrotoma baryshnikovii*** Likharev et Schileyko, 2007

Fig. 41 C

Likharev, Schileyko, 2007: 65-67, figs. 1-2.

- Type locality: Georgia, South Ossetia, Dzhavsky district, environs of Akhsardgin (about 2 km of Kvaisi settlement), Tailing-Leget Cave, 1700 m above sea level.
- Holotype: ZIN No. 2/554-1983.
- Dimensions: H 18-20, D 5.0-5.5 mm (decollated shells).
- Distribution: type locality.

***Acrotoma claussi*** Nordsieck, 1977

Fig. 41 D

Nordsieck, 1977: 91, textfig. 1, pl. 5, fig. 21.

- Type locality: Abkhazia, Bzyb River valley, upstream of Goluboe Lake (see Remark).
- Holotype: SMF No. 246940.
- Distribution: type locality.
- Dimensions: H 24.0-33.5, D 7.4-9.1 mm (decollated shells).
- Remark: the only lake in the Bzyb River valley is Ritza Lake, and “Goluboe Lake” in the type locality is probably a mistake of the collector.

***Acrotoma gegica*** Suvorov, 2002

Fig. 41 E

Suvorov, 2002: 161-163, fig. 1 A-E.

- Type locality: NW Caucasus, Abkhazia, Ritsinsky National Park, valley of Gega River (right tributary of Bzyb River), surroundings of Gegsky waterfall.
- Holotype: ZMMU No. Lc-25409.
- Dimensions: H 24.7, D 7.4 mm (holotype, decollated shell).
- Distribution: type locality.

***Acrotoma juliae*** Suvorov, 2002

Fig. 42 F

Suvorov, 2002: 165-166, fig. 3 A-E.

- Type locality: NW Caucasus, Abkhazia, Ritsinsky National Park, valley of Jupshara River (left tributary of Gega River), canyon “Jupsharskie vorota”.
- Holotype: ZMMU No. Lc-25410.
- Dimensions: H 25.7, D 6.4 mm (holotype, decollated shell).
- Distribution: type locality.

***Acrotoma komarowi*** (O. Boettger, 1881)

Fig. 41 F

*Clausilia* (*Acrotoma*) *komarowi* Boettger, 1881b: 341-342.

- Type locality: “Kodor” Transcaucasiae in funibus Ponticus Caucasi” (Abkhazia, middle reaches of Kodor River).
- Holotype: SMF No. 144037.
- Dimensions: H 28.0-37.5, D 6.5-8.0 mm (decollated shells).
- Distribution: Abkhazia (Likharev, Schileyko, MS).

***Acrotoma laccata*** (O. Boettger, 1881)

Fig. 42 A

*Clausilia laccata* Boettger, 1881b: 342-343.

- Type locality: “in parte meridionali Caucasi Pontici”.
- Holotype: SMF No. 144040/1.
- Distribution: type locality.
- Dimensions: H 19.6, D 5.2 mm (decollated shell).

- Remark: as mentioned by Boettger in the description, the species was described from a single shell, therefore the “lectotype” in Zilch, 1976a is in fact holotype.

***Acrotoma narzanensis*** (Rosen, 1901)

Fig. 42 B

*Clausilia narzanensis* Rosen, 1901b: 10.

- Type locality: Kislovodsk, Kovarstva Castle.
- Lectotype (Likharev, 1962a): ZIN.
- Dimensions: H 16-19, D 4.0-4.7 mm (decollated shells).
- Distribution: North Caucasus (vicinities of Kislovodsk, Kabardino-Balkaria) (Likharev, Schileyko, MS).

***Acrotoma semicincta*** (O. Boettger, 1881)

Fig. 42 D, E

[= *Clausilia* (*Acrotoma*) *semicincta* var. *ciscaucasica* Rosen, 1901]

*Clausilia* (*Acrotoma*) *semicincta* Boettger, 1881b: 343-344.

- Type locality: Teberda (North Caucasus).
- Lectotype (Likharev, 1962a): ZIN.
- Dimensions: H 13.7-17.0, D 4.0-4.5 mm (decollated shells).
- Distribution: western part of North Caucasus in upper reaches of Kuban and Podkumka rivers (Likharev, Schileyko, MS).
- Remark: the lectotype designation by Zilch (1976a: 204, fig. 2; SMF No. 144037) is invalid because the lectotype has been previously designated by Likharev (1962a: 159).

***Acrotoma tunievi*** Suvorov, 2002

Fig. 42 C, G

Suvorov, 2002: 163-164, fig. 2 A-E.

- Type locality: NW Caucasus, Russia, Krasnodar Territory, surroundings of Khosta settlement, Kavkazsky State Natural Biosphere Reserve, Khosta yew-box tree wood.
- Holotype: ZMMU No. Lc-25411.
- Dimensions: H 19.8-22.7, D 5.4-6.2 mm (decollated shells).
- Distribution: type locality.

***Akramowskia*** Norsieck, 1975

Type species: *Euxina akramowskii* Likharev, 1962 (OD)

***Akramowskia akramowskii*** (Likharev, 1962)

Fig. 43 A

*Euxina akramowskii* Likharev, 1962b: 221, figs. 1-3.

- Type locality: Khustup Mount near Vachagan village, Kafan District, Armenia.
- Holotype: ZIN.
- Dimensions: H 21.2-22.3, D 5.0-5.3 mm.
- Distribution: type locality.

***Akramowskia valentini*** (Loosjes, 1964)

Fig. 43 B

*Armenica valentini* Loosjes, 1964: 146, figs. 3-5.

- Type locality: “Russisch Armenien vom Wege zwischen Mamutly und Tansakver” (Kafan District, Armenia).
- Holotype: SMF No. 144141.
- Dimensions: H 19.7-22.5, D 4.1-4.4 mm.
- Distribution: Gekhi River basin, Kafan District, Armenia (Likharev, Schileyko, MS).

***Armenica*** O. Boettger, 1877Type species: *Clausilia laevicollis* Charpentier, 1852 (monotypy)***Armenica disjuncta armenica*** Nordsieck, 1975

Fig. 43 C

Nordsieck, 1975: 97.

- Type locality: Armenia, Ekhegnadzor District, Gnishik village.
- Holotype: ZIN.
- Dimensions: H 14-17, D 4.2-4.3 mm.
- Distribution: Armenia (Egorov, 2001).

***Armenica gracillima*** (Retowski, 1889)

Fig. 43 D, E

*Clausilia (Oligoptychia) gracillima* Retowski, 1889: 261.

- Type locality: debris of Chorokh River near Batumi.
- Lectotype (Zilch, 1976a): SMF No. 144152.
- Dimensions: H 18-22, D 3.5-4.0 mm.
- Distribution: Adzharia (Likharev, Schileyko, MS).

***Armenica griseofusca*** (Mousson, 1876)

Fig. 43 F

[= *Clausilia commena* Retowski, 1889]*Clausilia griseofusca* Mousson, 1876b: 145-146, pl. 5, fig. 3.

- Type locality: “environs de Tabizhuri” (vicinities of Tabatzkuri Lake, South Georgia).
- Syntype (?): SMF No. 144161.
- Dimensions: H 15.8-18.3, D 4.0-4.4 mm.
- Distribution: western and southeastern Georgia (Egorov, 2001).
- Remark: Egorov (2001) has designated a lectotype of the species (SMF No. 144161). However, the designation is invalid because the respective specimen is merely cited as “lectotype” (ICZN Declaration 44). Zilch (1954) with a query listed that specimen as a syntype.

***Armenica likharevi*** Nordsieck, 1975

Fig. 43 G, H

Nordsieck, 1975: 85.

- Type locality: Armenia, Idzhevan District, Laki ravine near Verin Agdan village.

- Holotype: ZIN.
- Dimensions: H 16-20, D 4.0-4.4 mm.
- Distribution: type locality.

***Armenica unicristata*** (O. Boettger, 1877)

Fig. 44 A

[= *Laciniaria lantzi* Lindholm, 1924; *Armenica brunnea* sensu Likharev, 1962a, non Rossmässler, 1839]

*Clausilia unicristata* Boettger, 1877b: 75-76.

- Type locality: Ekaterinenfeld (now – Bolnisi, South Georgia).
- Holotype: unknown.
- Dimensions: H 16-22, D 4-5 mm.
- Distribution: southern slopes of Great Caucasus between Zakataly and Shemakha, northern and northeastern parts of Lesser Caucasus, Zangezur (Likharev, Schileyko, MS).

***Armenica zakatalica*** Nordsieck, 1977

Fig. 44 B

[= *Armenica bueti* sensu Likharev, 1962, non Mortillet, 1854]

Nordsieck, 1977: 93.

- Type locality: Great Caucasus, Zakataly Natural Reserve, Rychug Ridge, south slope near Gubor-chai River.
- Holotype: ZIN.
- Dimensions: H 19-24, D 4.5-5.0 mm.
- Distribution: type locality, Shemakha District (Azerbaijan), Samur River valley near Ikhrek village (Daghestan) (Egorov, 2002).

***Elia*** H. et A. Adams, 1855

Type species: *Clausilia moesta* Rossmässler, 1839 (OD)

***Elia derasa*** (Mousson, 1863)

Fig. 44 C

[= *Clausilia ossetica* Schmidt, 1868; *Clausilia sandbergeri* Mousson, 1873; *Clausilia derasa* f. *suaneica* O. Boettger, 1883]

*Clausilia derasa* Mousson, 1863: 400-401.

- Type locality: “Rédutkaleh” (north of Poti), “Koutais” (Kutaisi).
- Syntypes: ZMZ No. 516718.
- Dimensions: H 17-24, D 4.5-5.5 mm.
- Distribution: West Transcaucasia and Central Ciscaucasia (Likharev, Schileyko, MS).
- Remark: “Syntypes” in the SMF, Nos. 133462, 133456a (Egorov, 2001) do not belong to the type series (collected at “Borshom” by Sievers, nor are they labelled as types).

***Elia novorossica*** (Retowski, 1888)

Fig. 44 E

[= *Clausilia somchetica* var. *dissophya* Westerlund, 1897]

*Clausilia (Euxina) novorossica* Retowski, 1888: 284.

- Type locality: Novorossiisk.
- Lectotype (Likharev, 1962a): IZP.
- Dimensions: H 12.0-18.5, D 3.8-5.0 mm.
- Distribution: West Caucasus: mountains between Novorossiisk and Anapa (Likharev, Schileyko, MS).

***Elia ossetica*** (Mousson, 1863)

Fig. 44 D

[= *Clausilia tschetschenica* L. Pfeiffer, 1866]

*Clausilia somchetica* var. *ossetica* Mousson, 1863: 399-400.

- Type locality: not stated.
- Types: unknown.
- Dimensions: H 14-19, D 4.3-5.0 mm.
- Distribution: central areas of North Caucasus, Inner Daghestan, Georgia (except western regions), North Armenia (Likharev, Schileyko, MS).

***Elia somchetica somchetica*** (L. Pfeiffer, 1846)

Fig. 44 F

[= *Clausilia kolenatii* Siemaschko, 1847; *Clausilia eichwaldi* Siemaschko, 1847; *Clausilia colchica* Parreyss in L. Pfeiffer, 1857]

*Clausilia somchetica* Pfeiffer, 1846b: 94.

- Type locality: “Somchetia” (Kakhetia, East Georgia).
- Types: unknown.
- Dimensions: H 14-18, D 4.5-5.5 mm.
- Distribution: forest and subalpine zones of Caucasus (Likharev, Schileyko, MS).

***Elia somchetica raddei*** (Mousson, 1876)

Fig. 44 G

*Clausilia raddei* Mousson, 1876a: 43-44, pl. 4, fig. 3.

- Type locality: Mount Schambodel, height 6000 feet, south of Achalzich (North Armenia).
- Types: unknown.
- Dimensions: H 12.5-14.0, D 4.2-4.5 mm.
- Distribution: North Armenia, Akstafa-chai River valley (Egorov, 2001).
- Remark: Differs from nominative subspecies by smaller size and full or partial reduction of two lower palatal folds.

Egorov (2001) designated the lectotype (SMF No. 133512/4), though the designation is invalid because he merely cited a specimen as a lectotype (ICZN Declaration 44). Moreover, Zilch (1954) did not mention any specimen of the type series in the SMF.

***Elia tuschetica*** Likharev et Lezhawa, 1961

Fig. 45 A, B

Likharev, Lezhawa, 1961: 473, figs. 1-3.

- Type locality: left bank of Tusheti Alazan, 1600 m above sea level.



- Holotype: ZIN.
- Dimensions: H 20.4-22.0, D 4.5-4.7 mm.
- Distribution: mountain Tushetia (southwestern part of highland Daghestan), Tusheti Alazan basin (Likharev, Schileyko, MS).

***Euxina*** O. Boettger, 1877

Type species: *Clausilia betaera* L. Pfeiffer, 1848 (OD)

***Euxina gastron*** Nordsieck, 1995

Fig. 45 C

[= *Euxina persica persica* sensu Likharev, 1962a (part.), non O. Boettger, 1877]

Nordsieck, 1995: 11, pl. 1, fig. 1.

- Type locality: “Prov. Gilan, Tal des Shim Rud zwischen Lahijan und Deilaman, Tchal-meh roud” (northern Iran).
- Holotype: MNHN.
- Dimensions: H 16.0-20.4, D 4.2-4.5 mm.
- Distribution: Talysh (Vasharu-chai River valley) (Egorov, 2001).

***Euxina talyschana*** Likharev, 1962

Fig. 45 D

Likharev, 1962a: 173, figs. 97, 98.

- Type locality: Talysh, Nyudis-Kalasi Mount.
- Holotype: ZIN.
- Dimensions: H 13.7-14.3, D 3.9-4.1 mm.
- Distribution: Talysh mountains (Likharev, Schileyko, MS).

***Euxinastra*** O. Boettger, 1888

Type species: *Clausilia hamata* O. Boettger, 1888 (monotypy)

***Euxinastra hamata*** (O. Boettger, 1888)

Fig. 45 E

*Clausilia hamata* Boettger, 1888: 152-153.

- Type locality: Batumi (Adzharia).
- Lectotype (Zilch, 1976a): SMF No. 145385.
- Dimensions: H 17-21, D 4.8-5.2 mm.
- Distribution: Georgia (Batumi) (Likharev, Schileyko, MS).

***Filosa*** O. Boettger, 1877

Type species: *Clausilia filosa* Mousson, 1863 (OD)

***Filosa filosa*** (Mousson, 1863)

Fig. 45 F

*Clausilia filosa* Mousson, 1863: 395-396.

- Type locality: “Chysirkaleh” (vicinities of Poti, Adzharia).

- Syntype: ZMZ No. 516636.
- Dimensions: H 9-11, D 2.5-2.7 mm.
- Distribution: Black Sea coast of Adzharia (Georgia) (Likharev, Schileyko, MS).
- Remark: Egorov (2001) designated the lectotype (SMF No. 145384a), though the designation is invalid because he merely cited a specimen as a lectotype (ICZN Declaration 44). Moreover, Zilch (1976a) did not mention any specimen of the type series in the SMF.

***Kazancia*** Neubert, 1992

Type species: *Kazancia monticola* Neubert, 1992 (OD)

***Kazancia lindholmi*** (Kobelt in Lindholm, 1912)

Fig. 45 G

*Clausilia lindholmi* Kobelt – Lindholm, 1912: 202.

- Type locality: Salolet Mount near Artvin City (Turkey, vilayet Chorokh).
- Lectotype (Likharev, 1962a): ZIN.
- Dimensions: H 19.0-20.5, D 4.7-5.4 mm.
- Distribution: East Georgia (Lagodekhi) (Likharev, Schileyko, MS).

***Mentissoidea*** O. Boettger, 1877

Type species: *Clausilia fusorium* Mousson, 1876 (= *Clausilia rupicola* Mortillet, 1854) (SD Kennard, Woodward, 1923)

***Mentissoidea rupicola rupicola*** (Mortillet, 1854)

Fig. 46 A

[= *Clausilia fusorium* Mousson, 1876; *Clausilia litotes* var. *litoderma* O. Boettger, 1881]

*Clausilia rupicola* Mortillet, 1854: 13, pl. 1, fig. 7.

- Type locality: Tortum (Turkey, vilayet Erzurum).
- Syntype: ZMZ No. 516714.
- Dimensions: H 16.5-18.0, D 3 mm.
- Distribution: Georgia (Adzharia and Black Sea coast northward to Sukhumi) (Likharev, Schileyko, MS).

***Mentissoidea rupicola litotes*** (A. Schmidt, 1868)

Fig. 46 B

[= *Clausilia litotes* var. *ganeo* O. Boettger, 1883; *Clausilia litotes* var. *suavetica* O. Boettger, 1883]

*Clausilia litotes* Schmidt, 1868: 162.

- Type locality: Ossetia.
- Types: unknown.
- Dimensions: H 12.8-17.4, D 3.8-4.6 mm.
- Distribution: Great Caucasus (forests of western areas of northern part; southern parts eastward to Nukha, Azerbaijan); isolated range in North Ossetia, Chechnya, Ingushetia; southern Transcaucasia (northern parts of Lesser Caucasus from Adzharo-Imereti Ridge to Nagorny Karabakh) (Likharev, Schileyko, MS).

- Remark: Egorov (2001) designated a lectotype (SMF No. 143740), though the designation is invalid because he merely cited a specimen as a lectotype (ICZN Declaration 44). Moreover, Zilch (1976a) did not mention any specimen of the type series in the SMF.

**Scrobifera** O. Boettger, 1877

Type species: *Clausilia foveicollis* Charpentier, 1852 (= *Clausilia taurica* L. Pfeiffer, 1848) (monotypy)

**Scrobifera taurica taurica** (L. Pfeiffer, 1848)

Fig. 46 C

[= *Clausilia taurica* Krynicki, 1837, nom. nud.; *Clausilia foveicollis* Charpentier, 1852; *Clausilia vinosa* Westerlund, 1886]

*Clausilia taurica* Pfeiffer, 1848: 412.

- Type locality: “Kutais” (Kutaisi, Georgia).
- Types: unknown.
- Dimensions: H 13.5-14.5, D 3.3-3.7 mm.
- Distribution: all forest areas of Caucasus except for Adzharia and Talysh (Likharev, Schileyko, MS).
- Remark: Egorov (2001) designated a lectotype (SMF No. 144074a), though the designation is invalid because he merely cited a specimen as a lectotype (ICZN Declaration 44). Zilch (1976a) cited only a syntype in the SMF. Actually the four specimens stored at the SMF as No. 144074 do not belong to the type series because they have been collected only in 1881.

**Scrobifera taurica brjanskii** (Rosen, 1911)

Fig. 46 D, E

[= *Clausilia foveicollis* var. *schaposchnikovi* Rosen, 1911]

*Clausilia foveicollis* var. *brjanskii* Rosen, 1911: 125, pl. 2, fig. 6a-b.

- Type locality: Adler (Caucasian Black Sea coast).
- Syntypes: SMF No. 30782/2.
- Dimensions: H 16.0-17.5, D 3.7-4.0 mm.
- Distribution: northern (Nalchik) and southwestern (Sochi) Caucasus (Egorov, 2001).

**Strigileuxina** Nordsieck, 1994

Type species: *Clausilia (Euxina) reuleauxi* O. Boettger, 1887 (OD)

**Strigileuxina reuleauxi** (O. Boettger, 1887)

Fig. 46 F

*Clausilia (Euxina) reuleauxi* Boettger, 1887: 55-56.

- Type locality: Batumi (Adzharia).
- Lectotype (Nordsieck, 1975): SMF No. 145389.
- Dimensions: H 18-25, D 4.0-5.5 mm.
- Distribution: Georgia (Adzharia) (Likharev, Schileyko, MS).

**CLAUSILIINAE** Mörch, 1864***Clausilia*** Draparnaud, 1805

Type species: *Pupa rugosa* Draparnaud, 1801 (SD Turton, 1831)

***Clausilia bidentata*** (Strøm, 1765)

Fig. 46 G

[= *Clausilia nigricans* Maton et Rackett, 1807; *Clausilia bidentata* var. *septentrionalis* A. Schmidt, 1857; *Clausilia bidentata* var. *exigua* Westerlund, 1871; *Clausilia bidentata* var. *elongata* Clessin, 1878]

*Turbo bidentata* Strøm, 1765: 436, pl. 6, fig. 17.

- Type locality: Scandinavia.
- Types: unknown.
- Dimensions: H 9-11, D 2.4-2.5 mm.
- Distribution: Baltic countries (Kurzeme, Hiiumaa and Saaremaa islands, northwestern Estonia), Leningrad Region (Primorsk) (Likharev, Schileyko, MS).

***Clausilia cruciata*** (Studer, 1820)

Fig. 47 A

[= *Clausilia cruciata* f. *minima* A. Schmidt, 1856; *Clausilia cruciata* f. *gracilis* A. Schmidt, 1856] *Gliscbrus* (*Clausilia*) *cruciata* Studer, 1820: 89.

- Type locality: “Kt. Wallis, Leukerbad” (Switzerland).
- Lectotype (Forcart, 1957): NMBE.
- Dimensions: H 8-13, D 2.3-2.5 mm.
- Distribution: Baltic countries (far from sea shore), Leningrad Region, southwestern Karelia (north of Ladoga Lake), sporadically in Pskov, Vitebsk, Moscow, Tver, Brest regions and in Carpathians (Likharev, Schileyko, MS).

***Clausilia dubia*** Draparnaud, 1805

Fig. 47 B

[= *Clausilia roscida* Studer, 1820; *Clausilia dubia* var. *speciosa* A. Schmidt, 1857; *Clausilia dubia* var. *vindobonensis* A. Schmidt, 1857; *Clausilia dubia* var. *obsoleta* A. Schmidt, 1857; *Clausilia dubia* var. *alpicola* Clessin, 1878; *Clausilia dubia* var. *podolica* Bąkowski, 1880; *Clausilia dubia* f. *runensis* Tschapeck, 1883]

Draparnaud, 1805: 70, pl. 4, fig. 10.

- Type locality: not stated.
- Lectotype (Bank, Gittenberger, 2000): NHMV.
- Dimensions: H 10-14, D 2.5-3.0 mm.
- Distribution: Baltic countries, Pskov and Tver regions, near Vitebsk, “Belovezhskaya Pushcha” Natural Reserve, Carpathians, Volyno-Podolsk Hills (Likharev, Schileyko, MS).

***Clausilia pumila pumila*** C. Pfeiffer, 1828

Fig. 47 C

Pfeiffer, 1828: 41, pl. 7, fig. 16.

- Type locality: Illyria.
- Types: unknown.
- Dimensions: H 12.0-15.2, D 3.0-3.4 mm.
- Distribution: Baltic countries (Lithuania, Latvia, southern Estonia), Kaliningrad Region, sporadically in Carpathians and Volyno-Podolsk Hills (Likharev, Schileyko, MS).

***Clausilia pumila sejuncta*** A. Schmidt in Westerlund, 1871

Fig. 47 D

*Clausilia sejuncta* A. Schmidt – Westerlund, 1871: 75.

- Type locality: “in Suecia media, in montibus Omberg et Mösseberg”.
- Types: unknown.
- Dimensions: H 12-14, D 3.0-3.4 mm.
- Distribution: Baltic countries (Lithuania, Latvia), Moscow, Yaroslavl, Tver, Smolensk, Kaluga, Tula regions, eastward to Kostroma, southward to Orel Region (Likharev, Schileyko, MS); Vyatka River basin (Shikhova, 2004).

***Macrogastra*** Hartmann, 1840

Type species: *Pupa ventricosa* Draparnaud, 1801 (monotypy)

***Macrogastra latestriata latestriata*** (Bielz in A. Schmidt, 1857)

Fig. 47 E

*Clausilia latestriata* Bielz – A. Schmidt, 1857: 27-28, figs. 52-56, 183, 184.

- Type locality: not stated.
- Types: unknown.
- Dimensions: H 12-15, D 3.0-3.5 mm.
- Distribution: Ukraine (Carpathians and Volyno-Podolsk Hills) (Likharev, Schileyko, MS).

***Macrogastra latestriata borealis*** (O. Boettger, 1878)

Fig. 47 F

*Clausilia latestriata* var. *borealis* Boettger, 1878b: 136.

- Type locality: “Neukuhren in Samland, Ostprussien” (now – Pionersky settlement, Kaliningrad Region).
- Types: unknown.
- Dimensions: H 12-14, D 3.0-3.3 mm.
- Distribution: Baltic countries, deciduous forests of Valdai Hills (Shikov, 1982), Byelorussian Polesye, vicinities of Vitebsk (Likharev, Schileyko, MS); Ukrainian Polesye (Rovno and Zhitomir regions) (Sverlova, 2006).

***Macrogastra plicatula*** (Draparnaud, 1801)

Fig. 47 G

*Pupa plicatula* Draparnaud, 1801: 64.

- Type locality: not stated (France – from title).
- Syntypes: NHMV.
- Dimensions: H 10-13, D 2.8-3.0 mm.

- Distribution: northwestern, western and western-central areas of Russia; mountain Crimea (Chatyr-Dagh) (Likharev, Schileyko, MS); northwestern Ukraine (Sverlova, 2006).

***Macrogaster tumida*** (Ziegler in Rossmässler, 1836)

Fig. 47 H

*Clausilia ventricosa* var. *tumida* Ziegler – Rossmässler, 1836b: 21, fig. 277.

- Type locality: “Buccovina” (now – Chernovtzy Region, Ukraine).
- Types: unknown.
- Dimensions: H 12.5-15.0, D 3.7-4.0 mm.
- Distribution: Ukraine: Ivano-Frankovsk, Lvov, Ternopol, Zakarpatskaya, Chernovtzy regions (Likharev, Schileyko, MS).

***Macrogaster ventricosa*** (Draparnaud, 1801)

Fig. 48 A, B

*Pupa ventricosa* Draparnaud, 1801: 62-63.

- Type locality: not stated (France – from title).
- Syntypes: NHMV, MNHN.
- Dimensions: H 15-20, D 4-5 mm.
- Distribution: western and northwestern Ukraine (Zakarpatskaya and Rovno regions) (Sverlova, 2006); Baltic countries; sporadically in mixed and deciduous forests of northwestern, western and central areas of Russia (Likharev, Schileyko, MS).

***Ruthenica*** Lindholm, 1924

Type species: *Clausilia filograna* Ziegler in Rossmässler, 1836 (OD)

***Ruthenica filograna*** (Ziegler in Rossmässler, 1836)

Fig. 48 C

*Clausilia filograna* Ziegler – Rossmässler, 1836b: 17-18, fig. 264.

- Type locality: “Oesterreich, Illyrien, Bucovina, Croaticn”.
- Types: unknown.
- Dimensions: H 7.5-9.0, D 2.0-2.2 mm.
- Distribution: Baltic countries, northwestern and central Russia, Byelorussia, Ukrainian Carpathians, Ciscarpathia, western Podolsk Hills, Volyn Polesye, Kiev Region of Ukraine (Likharev, Schileyko, MS; Sverlova, 2006).

**BALEINAE** A. Wagner, 1913

***Alinda*** H. et A. Adams, 1855

Type species: *Turbo biplicata* Montagu, 1803 (SD Martens in Albers, 1860)

***Alinda biplicata*** (Montagu, 1803)

Fig. 48 E

*Turbo biplicata* Montagu, 1803: 361, pl. 11, fig. 5.

- Type locality: south England.
- Syntypes: RAME.
- Dimensions: H 15-18, D 3.5-4.0 mm.
- Distribution: Transcarpathia (Ukraine), Kaliningrad Region, Lithuania, Moscow Region (Imre, 1941; Egorov, 2002).

***Alinda fallax*** (Rossmässler, 1836)

Fig. 48 F

*Clausilia fallax* Rossmässler, 1836b: 16-17, fig. 262.

- Type locality: “Galicien”.
- Types: unknown.
- Dimensions: H 16-24, D 4.5-6.0 mm.
- Distribution: Ukraine (Ivano-Frankovsk, Ternopol, Chernovtzy regions) (Baidashnikov, 1988).

***Alinda stabilis*** (L. Pfeiffer, 1847)

Fig. 48 D

*Clausilia stabilis* Pfeiffer, 1847: 70.

- Type locality: Banat.
- Types: unknown.
- Dimensions: H 14-16, D 3.8-4.1 mm.
- Distribution: Ukraine (Carpathians, Ciscarpathia to Vinnitza Region) (Likharev, Schileyko, MS; Sverlova, 2006).

***Balea*** Gray, 1824

Type species: *Pupa fragilis* Draparnaud, 1801 (= *Turbo perversus* Linnaeus, 1758) (SD Martens in Albers, 1860)

***Balea perversa*** (Linnaeus, 1758)

Fig. 53 E

*Turbo perversus* Linnaeus, 1758: 767.

- Type locality: Europe.
- Type: BMNH.
- Dimensions: H 8-10, D 2.2-2.6 mm.
- Distribution: species found on one islet near the coast of Estonia (Krausp, 1940).
- Remark: Likharev (1962a) suggested that the species lives also in mountain Crimea. However, the material most probably belongs to *Mentissa gracilicosta*.

***Bulgarica*** O. Boettger, 1877

Type species: *Clausilia varnensis* L. Pfeiffer, 1848 (OD)

***Bulgarica cana*** (Held, 1836)

Fig. 48 G

*Clausilia cana* Held, 1836: 275.

- Type locality: Bayern (Germany).
- Types: unknown.
- Dimensions: H 15-18, D 3.5-3.8 mm.
- Distribution: East-European Plain to Kazan in the east, Carpathians (Likharev, Schileyko, MS; Sverlova, 2006).

***Bulgarica vetusta*** (Ziegler in Rossmässler, 1836)

Fig. 48 H

*Clausilia vetusta* Ziegler – Rossmässler, 1836b: 16, fig. 260.

- Type locality: “auf den Steiner Alpen in Krain, ... Gorjanz in Unterkrain”.
- Syntypes: SMF No. 5597.
- Dimensions: H 14-16, D 3.1-3.3 mm.
- Distribution: northern Moldova, probably western Ukraine (Egorov, 2002).

***Laciniaria*** Hartmann, 1844

Type species: *Pupa plicata* Draparnaud, 1801 (monotypy)

***Laciniaria plicata*** (Draparnaud, 1801)

Fig. 49 A

*Pupa plicata* Draparnaud, 1801: 63.

- Type locality: “Mont Jura” (France).
- Syntype: NHMV.
- Dimensions: H 14-17, D 3-4 mm.
- Distribution: mixed and deciduous forests of Baltic countries (except Moonsund Islands), western, southwestern (Transcarpathia, Carpathians, Ciscarpathia, Volyno-Podolsk Hills, northern and central Ukraine, river valleys in Northwestern Black Sea Maritime Territory) and central regions of East-European Plain (Likharev, Schileyko, MS; Sverlova, 2006).

***Likharevia*** Nordsieck, 1975

Type species: *Clausilia (Oligoptychia) gustavi* O. Boettger, 1880 (OD)

***Likharevia gustavi*** (O. Boettger, 1880)

Fig. 49 B

*Clausilia (Oligoptychia) gustavi* Boettger, 1880b: 381-382.

- Type locality: Shindan-kalasi Mount, Talysh.
- Lectotype (Nordsieck, 1975): SMF No. 144147.
- Dimensions: H 15-18, D 3.3-3.6 mm.
- Distribution: Talysh, isolated mounts above forest zone and on rocks and rock slides in Diabar depression (Zuvand) (Likharev, Schileyko, MS).

***Mentissa*** H. et A. Adams, 1855

Type species: *Clausilia canalifera* Rossmässler, 1836 (SD Martens in Albers, 1860)



***Mentissa canalifera*** (Rossmässler, 1836)

Fig. 50 A-C

[= *Clausilia detersa* Rossmässler, 1836; *Clausilia acridula* Rossmässler, 1836]

*Clausilia canalifera* Rossmässler, 1836a: 17-18, fig. 183.

- Type locality: “Taurien” (Crimea).
- Syntype: SMF No. 133643.
- Dimensions: H 16-20, D 3.8-4.2 mm.
- Distribution: nearly entire mountain-forest Crimea (Baidashnikov, 1990a).

***Mentissa gracilicosta gracilicosta*** (Ziegler in Rossmässler, 1836)

Fig. 49 C

[= *Clausilia (Mentissa) gracilicosta natio media* Puzanov, 1925]

*Clausilia gracilicosta* Ziegler – Rossmässler, 1836a: 18, fig. 184.

- Type locality: “Taurien” (Crimea).
- Syntype: SMF No. 133625.
- Dimensions: H 10.5-22.0, D 2.6-4.5 mm.
- Distribution: the range consists of two parts: western, semicircular, covering south-western mountain Crimea from the Belbek River to Sevastopol and farther nearly to Alupka along sea coast; and eastern – to Ai-Petri Yaila along sea coast, narrowing to maritime zone towards Yalta (Baidashnikov, 1990a, b), introduced to Odessa (Sverlova, 2006).

***Mentissa gracilicosta albocostata*** Baidashnikov, 1990

Fig. 49 D

Baidashnikov, 1990c: 23-24, fig. 4V.

- Type locality: eastward of Baidarskaya valley, on western slopes of Ai-Petri Yaila, between villages Rodnikovskoe and Kolkhoznoe (southern Crimea).
- Holotype: IZU.
- Dimensions: H 14-20, D 3.3-4.0 mm.
- Distribution: southern Crimea: type locality and Baidarskaya valley (Egorov, 2002).

***Mentissa gracilicosta orientalis*** Baidashnikov, 1990

Fig. 49 E

Baidashnikov, 1990c: 25-26, figs. 2A, 4D.

- Type locality: Kara-Dagh Natural Reserve, Syuryu-Kaya Ridge (southern Crimea).
- Holotype: IZU.
- Dimensions: H 15-19, D 3.4-4.0 mm.
- Distribution: eastern part of southern Crimea (Egorov, 2002).

***Mentissa gracilicosta sodalis*** (A. Schmidt, 1868)

Fig. 49 F

*Clausilia sodalis* A. Schmidt, 1868: 166-167.

- Type locality: east of Belokamensk near Sevastopol (southern Crimea).
- Types: unknown.

- Dimensions: H 12.5-20.0, D 3.5-5.5 mm.
- Distribution: southern Crimea from vicinities of Sevastopol to Simferopol (Egorov, 2002).

***Mentissa gracilicosta tschatyrdagika*** Baidashnikov, 1990

Fig. 49 G

Baidashnikov, 1990c: 26, figs. 2B, 3A, 4G.

- Type locality: slopes of lower plateau of Chatyr-Dagh near Perevalnoe village (southern Crimea).
- Holotype: IZU.
- Dimensions: H 11.2-23.0, D 2.6-4.5 mm.
- Distribution: southern Crimea: vicinities of Chatyr-Dagh (Egorov, 2002).

***Mentissa velutina*** Baidashnikov, 1990

Fig. 49 H

Baidashnikov, 1990a: 21, figs. 1 A, B, 2 A, B, 3 A, B, V.

- Type locality: southern slopes of Crimean mountains between Goluboi settlement and Opolznevoe village.
- Holotype: IZU.
- Dimensions: H 12.0-22.5, D 3.2-5.0 mm.
- Distribution: Yalta Mountain-Forest Natural Reserve, Ai-Petri and Yalta yailas and western part of Babugan-Yaila (Roman-Kosh Mount), at 650-1500 m above sea level (Crimea) (Likharev, Schileyko, MS).

***Micropontica*** O. Boettger, 1881

Type species: *Clausilia closta* O. Boettger, 1881 (monotypy)

***Micropontica annae*** Kijashko, 2005

Fig. 50 D

Kijashko, 2005: 157-160, figs. 1, 2.

- Type locality: Northwest Caucasus, Adygeja, Lagonaki Mountains, western part of Lagonaki Ridge, southern slope of Mt. Zhitnaya, ca. 1900 m above sea level.
- Holotype: ZIN No. 505-2003.
- Dimensions: H 8.7-10.8, D 2.5-2.7 mm.
- Distribution: type locality (Kijashko, 2005).

***Micropontica circassica*** (O. Boettger, 1888)

Fig. 50 E

[= *Clausilia circassica* var. *claviformis* Rosen, 1914; *Clausilia retowskii* var. *saltuensis* Rosen, 1914]

*Clausilia (Micropontica) circassica* Boettger, 1888: 154.

- Type locality: Oschten-Fischt Mounts (northwestern Great Caucasus).
- Syntypes: Überseemuseums, Bremen, Germany No. 114/1-4; SMF No. 145380.
- Dimensions: H 11-14, D 2.9-3.4 mm.

- Distribution: western part of Great Caucasus (Oshten-Fisht mountain range, upper reaches of Kodor River south of Klukhor mountain pass); easternmost finding – in upper reaches of Malka River (Terek basin) near Shidzha-Tmas Mount (Likharev, Schileyko, MS).

***Micropontica closta*** (O. Boettger, 1881)

Fig. 50 F

*Clausilia (Micropontica) closta* Boettger, 1881b: 345-346.

- Type locality: Psyrtyzhij monastery (Novyi Afon, Abkhazia).
- Lectotype (Likharev, 1962a): ZIN.
- Dimensions: H 9.7-12.5, D 2.2-2.5 mm.
- Distribution: vicinities of Gagra and Novyi Afon (Black Sea coast of Abkhazia) (Likharev, Schileyko, MS).

***Micropontica interjecta*** (Rosen, 1914)

Fig. 50 G

*Clausilia retowskii* var. *interjecta* Rosen, 1914: 206, pl. 3, figs. 17a-b.

- Type locality: Stanitza Belorechenskaya (northwestern Caucasus, Krasnodar Territory).
- Types: unknown.
- Dimensions: H 11-13, D 3.0-3.3 mm.
- Distribution: type locality and Maikop (Krasnodar Territory) (Egorov, 2002).

***Micropontica retowskii*** (O. Boettger, 1888)

Fig. 50 H

[= *Clausilia baleopsis* Westerlund, 1897; *Clausilia (Micropontica) retowskii* var. *simulia* West-erlund, 1901]

*Clausilia (Micropontica) retowskii* Boettger, 1888: 154-155.

- Type locality: Guk Mount (near Maikop).
- Syntype: NHMV No. 83.000/1462.
- Dimensions: H 11-13, D 3.0-3.3 mm.
- Distribution: western part of Great Caucasus near Caucasian Natural Reserve and its immediate vicinities (Likharev, Schileyko, MS).
- Remark: Egorov (2002) synonymized *Clausilia retowskii* with *Clausilia caucasica* A. Schmidt, 1868. The latter name was previously considered as a *species inquirenda* (e.g. Likharev, 1962a), and the type material is unknown.

***Mucronaria*** O. Boettger, 1877

Type species: *Clausilia acuminata* Mousson, 1876 (monotypy)

***Mucronaria acuminata*** (Mousson, 1876)

Fig. 51 A

[= *Clausilia acrolepta* Martens, 1876]

*Clausilia (Mentissa) acuminata* Mousson, 1876b: 144-145, pl. 5, fig. 4.

- Type locality: “Tabizhuri” (vicinities of Tabatzkuri Lake, South Georgia).
- Syntypes: ZMZ No. 516706.
- Dimensions: H 11.8-13.4, D 3.6-3.8 mm.
- Distribution: Shav-Nabad Mount, east of Tabatzkuri Lake (South Georgia) (Likharev, Schileyko, MS).

### ***Mucronaria duboisi*** (Charpentier, 1852)

Fig. 51 C

[= *Clausilia subtilis* A. Schmidt, 1868; *Clausilia subtilis* f. *minor* A. Schmidt, 1868; *Clausilia subtilis* f. *plicata* O. Boettger, 1880; *Clausilia stomatica* Westerlund, 1884]

*Clausilia duboisi* Charpentier, 1852: 402, pl. 11, fig. 12.

- Type locality: Crimea.
- Types: unknown.
- Dimensions: H 12-14, D 2.8-3.0 mm.
- Distribution: forest areas of Transcaucasia (except for Talysh and Lenkoran lowland), North Caucasus (Vladikavkaz, Pyatigorsk, Zheleznovodsk) (Likharev, Schileyko, MS).

### ***Mucronaria index*** (Mousson, 1863)

Fig. 51 B

[= *Clausilia climax* O. Boettger, 1888]

*Clausilia index* Mousson, 1863: 401-402.

- Type locality: “Rédutkaleh, Chesyrkaleh” (now – Kulevi, north of Poti (Georgia)).
- Syntypes: ZMZ No. 516685.
- Dimensions: H 14.5-18.0, D 3.7-4.7 mm.
- Distribution: West Georgia, mostly along sea coast (Sukhumi to Batumi), less frequently far from the coast (Kutaisi, Sairme, Borzhomi) (Likharev, Schileyko, MS).

### ***Mucronaria pleuroptychia*** (O. Boettger, 1878)

Fig. 51 D

[= *Clausilia pleuroptychia* var. *polygyra* O. Boettger, 1881]

*Clausilia pleuroptychia* Boettger, 1878a: 291-292, pl. 10, fig. 1.

- Type locality: “Syrien”.
- Syntypes: SMF No. 133391.
- Dimensions: H 14-17, D 3.0-3.3 mm.
- Distribution: central part of West Georgia between Kvirila River in the east and Tz-khenis-Tzkali in the west, in the zone of hills and low limestone mountains (Likharev, Schileyko, MS).

### ***Mucronaria strauchii*** (O. Boettger, 1878)

Fig. 51 E

*Clausilia strauchii* Boettger, 1878a: 301-303, pl. 10, fig. 6.

- Type locality: forest near Tianeti, north of Tbilisi (Georgia).
- Types: unknown.

- Dimensions: H 12-18, D 3.0-3.5 mm.
- Distribution: East Georgia, mostly near Mtskheta, Tianeti, Manglisi (vicinities of Tbilisi) (Likharev, Schileyko, MS).
- Remark: Likharev (1962a) referred to the work of Boettger, “1878” (Beitrag zu einem Katalog der innerhalb der Grenzen des russischen Reichs vorkommenden Vertreter der Landschneckengattung *Clausilia* Drap. *Mélanges Biologiques tirés du Bulletin de l'Académie Impériale des Sciences de St.-Petersbourg*, 10 (2): 159-198) as the original description. However, according to the statement on the cover, the “livraison 2” (pp. 139-325) of that periodical was printed in “Août 1879”.

***Quadriplicata* O. Boettger, 1878**

Type species: *Clausilia quadriplicata* A. Schmidt, 1868 (monotypy)

***Quadriplicata aggesta aggesta* (O. Boettger, 1879)**

Fig. 51 F

[= *Clausilia protracta* Westerlund, 1901; *Clausilia aggesta* var. *praegracilis* Rosen, 1914]

*Clausilia aggesta* Boettger, 1879a: 34-35, pl. 1, fig. 6.

- Type locality: debris of Kuban River.
- Types: unknown.
- Dimensions: H 11.0-12.5, D 2.5-3.5 mm.
- Distribution: north branches of western part of Great Caucasus, from Novorossiisk to beginnings of Bolshaya Laba River (Kuban basin); south branches – from Krasnaya Polyana to Gudauta District of Abkhazia (Likharev, Schileyko, MS).
- Remark: Egorov (2002) elevated the rank of *Quadriplicata aggesta aggesta* f. *alpestris* Likharev, 1962 (found in Abkhazia, Gudauta District, above Mzi Lake) to a full species and mentioned that it probably belongs to a new genus. However, this name is unavailable with that author and year (ICZN Art. 15.2, 45.5). At the same time, the publication of the name by Egorov does not make it available because this nomenclatural act does not meet the requirements of ICZN Art. 16.1.

***Quadriplicata aggesta stauropolitana* (Rosen, 1901)**

Fig. 51 G, H

*Clausilia (Euxina) stauropolitana* Rosen, 1901b: 11.

- Type locality: Stavropol.
- Lectotype (Likharev, 1962a): Museum of Georgia No. 1578a.
- Dimensions: H 13.5-16.2, D 3.5-4.0 mm.
- Distribution: Stavropol and vicinities (Likharev, Schileyko, MS).

***Quadriplicata dipolauchen* (O. Boettger, 1881)**

Fig. 52 A, B

*Clausilia (Euxina) dipolauchen* Boettger, 1881a: 235-236, pl. 9, fig. 18.

- Type locality: Kveda-Gordi near Tzkhenti-tzkali River (Tzulukidze District of Georgia).
- Lectotype (Likharev, 1962a): Museum of Georgia, No. 1580a.
- Dimensions: H 15-18, D 3.3-3.7 mm.

- Distribution: foothills (not higher than 500 m above sea level) and some hills of northern border of Colchis maritime plain (not lower than 100 m above sea level), between Khobi and Tzkhaltubo-tzkali rivers (Likharev, Schileyko, MS).

***Quadriplacata lederi lederi*** (O. Boettger, 1879)

Fig. 52 C

[= *Clausilia lederi* var. *triadis* O. Boettger, 1881]

*Clausilia (Euxina) lederi* Boettger, 1879a: 36-37, pl. 1, fig. 5.

- Type locality: Suram Ridge.
- Lectotype (Likharev, 1962a): Museum of Georgia No. 1585.
- Dimensions: H 14-18, D 3.5-4.0 mm.
- Distribution: south branches of Great Caucasus, from Ochamchiri District of Abkhazia to Tbilisi, Mtskheta; branches of Lesser Caucasus near Borzhomi and Abastumani (Likharev, Schileyko, MS).

***Quadriplacata lederi gradata*** (O. Boettger, 1879)

Fig. 52 D

*Clausilia (Euxina) gradata* Boettger, 1879b: 409, pl. 10, fig. 5.

- Type locality: “bei Timotissubani, einem alten Kloster in einem Seitenthal der Kura, 18 Werst von Borshom”.
- Syntype: SMF No. 133580 (“lectotype”).
- Dimensions: H 14-15, D 4 mm.
- Distribution: western Georgia, Gudauta (Egorov, 2002).

***Quadriplacata lederi martensi*** Nordsieck, 1983

Fig. 52 E

Nordsieck, 1983: 205-206, pl. 12, fig. 17.

- Type locality: “Grusien, nahe Bachmaro bei Chochatauri, 1050-2020 m.”
- Holotype: ZIN.
- Dimensions: H 14.8-16.2, D 4.3-4.5 mm.
- Distribution: type locality (Egorov, 2002).

***Quadriplacata pumiliformis*** (O. Boettger, 1881)

Fig. 52 F

[= *Clausilia pumiliformis* var. *inarmata* Lindholm, 1913; *Clausilia pumiliformis* var. *circumplexa* Lindholm, 1913; *Clausilia pumiliformis* var. *rusticana* Retowski, 1914]

*Clausilia (Euxina) pumiliformis* Boettger, 1881a: 234-235, pl. 9, fig. 17.

- Type locality: between Sukhumi and Poti.
- Types: unknown.
- Dimensions: H 12-17, D 3.0-3.5 mm.
- Distribution: mostly forests of maritime areas between Sochi and Sukhumi; some populations in vicinities of Novorossiisk and Poti; more continentally in chestnut forest zone (Krasnaya Polyana, Tzebelda); western branches of Great Caucasus (Belaya River basin up to 1000 m above sea level) (Likharev, Schileyko, MS).

***Quadriplicata quadriplicata*** (A. Schmidt, 1868)

Fig. 52 G

*Clausilia quadriplicata* Schmidt, 1868: 163.

- Type locality: Racha Ridge (West Georgia).
- Types: unknown.
- Dimensions: H 14.0-18.5, D 4.0-4.5 mm.
- Distribution: forests of southern parts of Central and East Great Caucasus, northern and northeastern parts of Lesser Caucasus; floodland forests of lower Terek; absent in Talysh and Zangezur (Likharev, Schileyko, MS).

***Quadriplicata subaggesta*** (Retowski, 1887)

Fig. 52 H

*Clausilia (Euxina) subaggesta* Retowski, 1887: 37, pl. 1, fig. 4.

- Type locality: Crimea, sea debris.
- Lectotype (Likharev, 1962a): IZP.
- Dimensions: H 13.5-16.0, D 3.5-4.0 mm.
- Distribution: Georgia: subtropical maritime area of Adzharia (Likharev, Schileyko, MS).

***Vestia*** Hesse, 1916

Type species: *Clausilia elata* Rossmässler, 1836 (SD Lindholm, 1924)

***Vestia elata*** (Rossmässler, 1836)

Fig. 53 A

*Clausilia elata* Rossmässler, 1836a: 20, fig. 190.

- Type locality: “Buccovina” (now – Chernovtzy Region, Ukraine).
- Types: unknown.
- Dimensions: H 12-20, D 3.5-4.5 mm.
- Distribution: Ukraine: Ciscarpathia (Chernovtzy and Ivano-Frankovsk regions), eastward to Vinnitza Region (Likharev, Schileyko, MS; Sverlova, 2006).

***Vestia gulo*** (Bielz, 1859)

Fig. 53 B

*Clausilia turgida* var. *gulo* Bielz, 1859: 222.

- Type locality: Transylvania.
- Types: unknown.
- Dimensions: H 15-19, D 4.3-5.0 mm.
- Distribution: Ukraine: Lesistye Carpathians, Ciscarpathia, eastward to Vinnitza Region (Likharev, Schileyko, MS; Sverlova, 2006).

***Vestia turgida turgida*** (Ziegler in Rossmässler, 1836)

Fig. 53 C

*Clausilia turgida* Ziegler – Rossmässler, 1836a: 20-21, pl. 12, fig. 190.

- Type locality: “Buccovina” (now – Chernovtzy Region, Ukraine).

- Types: unknown.
- Dimensions: H 13-17, D 3.5-4.0 mm.
- Distribution: Ukraine: Carpathians (Likharev, Schileyko, MS).

***Vestia turgida procera*** (Bielz, 1853)

Fig. 53 D

*Clausilia procera* Bielz, 1853: 123.

- Type locality: Tziblesh Mount, North Romania.
- Types: unknown.
- Dimensions: H 20-22, D 4.5-5.0 mm.
- Distribution: Ukraine: East Carpathians (Likharev, Schileyko, MS).

FERUSSACIIDAE Bourguignat, 1883

***Cecilioides*** Férussac, 1814

Type species: *Buccinum acicula* Müller, 1774 (SD Watson, 1828)

***Cecilioides acicula*** (Müller, 1774)

Fig. 53 F

[= *Caecilianella acicula* var. *liesvillei* Bourguignat, 1856; *Cionella acicula* var. *nodosaria* O. Boettger, 1879; *Cionella nautica* Westerlund, 1887; *Caecilianella acicula* var. *obtusata* Westerlund, 1887; *Caecilianella praeclara* Westerlund, 1898; *Caecilianella retteri* Rosen, 1901; *Cecilioides acicula* var. *abchasica* Retowski, 1914]

*Buccinum acicula* Müller, 1774: 150-151.

- Type locality: Thangelstedt (Thuringia, Germany).
- Types: unknown.
- Dimensions: H up to 6.5, D up to 1.3 mm.
- Distribution: mountain Crimea, Caucasus, Central Asia from Kopet Dagh to Pamiro-Alai; records from Russian Plain not proven (Likharev, Schileyko, MS); Ukrainian Ciscarpathia and Transcarpathia (Sverlova, 2006).

***Cecilioides raddei*** (O. Boettger, 1879)

Fig. 53 G

*Cochlicopa (Hobenwartiana) raddei* Boettger, 1879a: 25, pl. 1, fig. 8.

- Type locality: “Borshom, Mamudly” (100 miles southwestward of Tbilisi, Georgia).
- Types: unknown.
- Dimensions: H up to 7, D up to 1.5 mm.
- Distribution: Crimea, Caucasus (Likharev, Schileyko, MS); Odessa Region of Ukraine (Sverlova, 2006).
- Remark: Differs from *C. acicula* mainly by comparative height of aperture: in this species it is lesser than 1/2 of height of shell while in *C. acicula* it is somewhat more than 1/2 of shell height.



OLEACINIDAE H. et A. Adams, 1855

**Poiretia** Fischer, 1887

Type species: *Bulimus algirus* Bruguière, 1792 (monotypy)

Remark: Likharev and Rammelmeyer (1952) mentioned also the second Recent species in the fauna of Caucasus: *P. roseni* Lindholm, 1924. However, judging from the syntype in the ZIN collection, the species was described from fossil shells.

**Poiretia mingrelica** (O. Boettger, 1881)

Fig. 53 H

*Glandina algira* var. *mingrelica* Boettger, 1881a: 170, pl. 7, fig. 1.

- Type locality: Kutaisi (Georgia).
- Lectotype (Subai, 1980): SMF No. 70590.
- Dimensions: H up to 42, D up to 12.5 mm.
- Distribution: Georgia: Abkhazia (Gagry, Novyi Afon, Pitzunda, middle valley of Kodor River to Verkhnyaya Tzebelda), Mingrelia (Tzkhensitzkhali River valley near Gordi village, Tzageri, vicinities of Kutaisi) (Likharev, Schileyko, MS).

PUNCTIDAE Morse, 1864

**Punctum** Morse, 1864

Type species: *Helix minutissima* Lea, 1841 (OD)

? **Punctum boreale** Pilsbry et Hirase, 1905

Fig. 54 A

Pilsbry, Hirase, 1905: 717.

- Type locality: Akkeshi, Kushiro (Hokkaido, Japan).
- Lectotype (Baker, 1963): ANSP No. 90230a.
- Dimensions: H 1.0-1.1, D 1.7-1.8 mm.
- Distribution: Shikotan Island (South Kurile Islands) (Likharev, 1957; Pearce et al., 2002).

**Punctum conspectum** (Bland, 1865)

Fig. 54 C

[= *Helix lepta* Westerlund, 1883; *Vallonia patens* sensu Likharev et Rammelmeyer, 1952, non Reinhardt, 1883]

*Helix conspectum* Bland, 1865: 163, fig. 7.

- Type locality: San Francisco, California.
- Types: unknown.
- Dimensions: H 0.9-1.3, D 1.5-2.1 mm.
- Distribution: South Kamchatka, Simushir and Kunashir Islands (Kurile Islands), Primorye Territory (Likharev, Schileyko, MS; Pearce et al., 2002); Sakhalin (Prozorova, Berezhok, 2004).

***Punctum micropleuros*** (Paget, 1854)

Fig. 54 B

[= *Helix pusilla* R. Lowe, 1831, non *Helix pusilla* Vallot, 1801; *Patula lederi* O. Boettger, 1880]  
*Helix micropleuros* Paget, 1854: 454.

- Type locality: “prope Montpellier”.
- Types: unknown.
- Dimensions: H 1.1-1.3, D 2.1-2.4 mm.
- Distribution: Caucasus: Talysh and Lenkoran lowland; Hissar Ridge (Izzatullaev, 1975; as *Vallonia patens*, non Reinhardt, 1883).

***Punctum pygmaeum*** (Draparnaud, 1801)

Fig. 54 D

[= *Helix minutissima* Lea, 1841]

*Helix pygmaea* Draparnaud, 1801: 93.

- Type locality: not stated (France – from title).
- Syntypes: NHMV.
- Dimensions: H 0.6-0.8, D 1.3-1.6 mm.
- Distribution: mountain and plain areas of temperate latitudes of Eurasia: from Atlantic coast to Kamchatka, Sakhalin and Kurile Islands (Likharev, Schileyko, MS).
- Remark: *Striatura chishimana* (Pilsbry et Hirase, 1904) recorded from by Kunashir Island (Pearce et al., 2002) is most probably a synonym of *P. pygmaeum* (Prozorova et al., 2006).

***Punctum ussuriense*** Likharev et Rammelmeyer, 1952

Fig. 54 E

*Punctum pygmaeum ussuriense* Likharev, Rammelmeyer, 1952: 256, fig. 182.

- Type locality: Ussuri Natural Reserve (Primorye Territory).
- Holotype: ZIN.
- Dimensions: H 0.9-1.0, D 1.2-1.5 mm.
- Distribution: southern Primorye Territory (Likharev, Schileyko, MS); Sakhalin (Prozorova, Berezhok, 2004).

## HELICODISCIDAE Baker, 1927

***Helicodiscus*** Morse, 1864

Type species: *Helix lineatus* Say, 1817 (non *Helix lineata* Olivi, 1792, = *Planorbis parallelus* Say, 1821) (monotypy)

***Helicodiscus singleyanus*** (Pilsbry, 1890)

Fig. 54 F

*Zonites singleyanus* Pilsbry, 1890: 84.

- Type locality: “New Braunfels” [Colorado].
- ? Holotype: ANSP No. 60058.
- Dimensions: H 0.9-1.1, D 2.2-3.0 mm.
- Distribution: Ukraine: vicinities of Vinogradov City, Zakarpatskaya Region (Sverlova, 2006) (probably introduced).

DISCIDAE Thiele, 1931

**Discus** Fitzinger, 1833

Type species: *Helix ruderata* Férussac, 1821 (SD Gray, 1847)

**Discus depressus** (A. Adams, 1868)

Fig. 55 A

*Helix (Patula) depressus* A. Adams, 1868: 467.

- Type locality: “Vladimir Bay” (350 km NW of Vladivostok)
- Types: unknown.
- Dimensions: H 2-3, D 5-7 mm.
- Distribution: basin of middle Amur, Primorye Territory, Sakhalin, Kamchatka, Commander and Kurile Islands, northern Khabarovsk Territory (lower Amur, Ayan, Stanovoi Ridge), vicinities of Baikal Lake (Likharev, Schileyko, MS).

**Discus perspectivus** (Megerle von Mühlfeld, 1816)

Fig. 55 B

[= *Helix solaris* Menke, 1830]

*Helix perspectivus* Megerle von Mühlfeld, 1816: 11.

- Type locality: “Zwey Exemplare von ihr wurden nach einer Ergießung der Donau ... am Ufer derselben bey Wien in Unterosterreich aufgefunden.” (in debris of Danube near Vienna).
- Types: unknown.
- Dimensions: H 1.8-2.0, D 5-6 mm.
- Distribution: Ukraine (Carpathians, Transcarpathia, Ciscarpathia, western Podolsk Hills, area between Prut and Dniester rivers) (Sverlova, 2006).

**Discus rotundatus** (Müller, 1774)

Fig. 55 C

*Helix rotundatus* Müller, 1774: 29-30.

- Type locality: Denmark, Norway.
- Types: unknown.
- Dimensions: H 2.4-2.8, D 5.8-7.0 mm.
- Distribution: Baltic countries (Lithuania east of Kaunas, western Latvia, Moonsund Archipelago), Kaliningrad Region, western Byelorussia, western Ukraine to Vinnitza Region in the east (not found in Carpathians), mountain Crimea (one finding, probably introduced) (Likharev, Schileyko, MS; Sverlova, 2006).

**Discus ruderatus** (Férussac, 1821)

Fig. 55 D

[= *Helix pauper* Gould, 1858; *Patula ruderata* var. *conica* Bąkowski et Lomnicki, 1892]

*Helix ruderata* Férussac, 1821: 40.

- Type locality: “Les Hautes-Alpes du Valais, ... près des glaciers du Mt. Pleureur”.
- Types: unknown.

- Dimensions: H 2.0-3.5, D 5-7 mm.
- Distribution: East European Plain, Siberia (including Chukchi Peninsula, Kamchatka, northern Khabarovsk Territory), Carpathians, Crimea, Caucasus, Altai, Sayan, vicinities of Baikal Lake (Likharev, Schileyko, MS); Kurile Islands (Pearce et al., 2002); Sakhalin (Prozorova, Berezhok, 2004).

## ZONITIDAE Mörch, 1864

### PRISTILOMATINAE Cockerell, 1891

#### **Hawaiiia** Gude, 1911

Type species: *Helix kawaiensis* L. Pfeiffer, 1855 (= *Helix minuscula* Binney, 1840) (monotypy)

#### **Hawaiiia minuscula** (Binney, 1840)

Fig. 56 A

*Helix minuscula* Binney, 1840: 435, pl. 22, fig. 4.

- Type locality: Ohio, USA.
- Lectotype (Pilsbry, 1946): ANSP No. 74416a.
- Dimensions: H up to 1.3, D up to 2.4 mm.
- Distribution: southern Primorye Territory (Likharev, Schileyko, MS).

#### **Pristiloma** Ancey, 1887

Type species: *Zonites stearnsi* Bland, 1875 (SD Baker, 1930)

#### **Pristiloma japonica** Pilsbry et Hirase, 1903

Fig. 56 C

[= *Pristiloma arcticum* sensu Likharev, 1963, non Lehnert, 1884]

Pilsbry, Hirase, 1903: 79.

- Type locality: “Toya, Kuziro, in eastern Yesso” (Hokkaido, Japan).
- Lectotype (Baker, 1963): ANSP No. 85754a.
- Dimensions: H up to 2, D up to 3 mm.
- Distribution: southern Kamchatka, northern (Kuroda, Koba, 1933) and southern (Likharev, 1957) Kurile Islands, southern Sakhalin (Likharev, Schileyko, MS).

#### **Striatura** Morse, 1864

Type species: *Striatura milium* Morse, 1864 (monotypy)

#### **Striatura aperta** Pilsbry et Hirase, 1904

Fig. 56 B

Pilsbry, Hirase, 1904b: 5.

- Type locality: Nemuro (Hokkaido, Japan).
- Lectotype (Baker, 1963): ANSP No. 86490a.

- Dimensions: H 0.7, D 2.2 mm.
- Distribution: Iturup and Kunashir Islands (Kurile Islands), Moneron Island, South Sakhalin (Likharev, Schileyko, MS; Pearce et al., 2002; Prozorova et al., 2006).

**Vitrea** Fitzinger, 1833

Type species: *Glischrus* (*Helix*) *diaphanus* Studer, 1820 (monotypy)

**Vitrea angystropha** (O. Boettger, 1880)

Fig. 56 D

[= *Crystallus lantzi* Lindholm, 1913]

*Hyalinia angystropha* Boettger, 1880b: 380.

- Type locality: Suram Ridge.
- Lectotype (Pinter, 1972): SMF No. 170983.
- Dimensions: H up to 1.6, D up to 3.0 mm.
- Distribution: forests of Transcaucasia, except for Talysh and Lenkoran lowland (Likharev, Schileyko, MS).

**Vitrea contortula** (Krynicky, 1837)

Fig. 57 A-B

[= *Vitrea viridis* Westerlund, 1897]

*Helix contortula* Krynicky, 1837: 51 (nom. nov. pro *Helix contorta* Krynicky, 1836).

- Type locality: “in regionibus caucasis (Pyatigorsk)”.
- Syntypes: ZIN.
- Dimensions: H up to 1.7, D up to 3.8 mm.
- Distribution: Caucasus, floodland forests of Krasnodar and Stavropol regions (Likharev, Schileyko, MS).
- Remark: Similar to *V. angystropha*, differs by less conic spire and by the absence of shoulder-like flattening above periphery of last whorl.

**Vitrea contracta** (Westerlund, 1871)

Fig. 57 D

[= *Hyalinia abchasica* Retowski, 1914; *Vitrea botterii* sensu Likharev et Rammelmeyer, 1952, non L. Pfeiffer, 1853]

*Zonites crystallina* var. *contracta* Westerlund, 1871: 56.

- Type locality: “Ronneby, Blekinge” [Sweden]
- Lectotype (Waldén in Riedel, 1966): NMG.
- Dimensions: H up to 1.3, D up to 2.5 mm.
- Distribution: Baltic countries, Valdai Hills, Carpathians, western, northern and central parts of Ukraine, mountain part of Crimea, sporadically in Caucasus (Likharev, Schileyko, MS; Sverlova, 2006).

**Vitrea crystallina** (Müller, 1774)

Fig. 57 C

[= *Vitrea podolica* Clessin, 1880]

*Helix crystallina* Müller, 1774: 23, 215.

- Type locality: Fridrichsdal (vicinities of Copenhagen).
- Types: unknown.
- Dimensions: H up to 2, D up to 4 mm.
- Distribution: western, northwestern and central parts of East-European Plain. Records from mountain forests of Crimea (Jaeckel, 1950; Likharev, Rammelmeyer, 1952) are doubtful (Likharev, Schileyko, MS). Carpathians (Sverlova, 2006).
- Remark: Similar to *V. contracta*, differs by wider last whorl (it is 1.5-2 times wider than penultimate, in *contracta* less than 1.5 times wider); through umbilicus one can see just a part of penultimate whorl, whereas in *contracta* - no less than whole whorl.

### ***Vitrea diaphana*** (Studer, 1820)

Fig. 57 E

*Gliscbrus (Helix) diaphanus* Studer, 1820: 86.

- Type locality: “Kt. Bern, Gurten” [Switzerland].
- Holotype: NMBE.
- Dimensions: H up to 2.0, D up to 4.5 mm.
- Distribution: Ukraine: Carpathians, Ciscarpathia, Podolsk Hills, area between Prut and Dniester rivers, western Ukrainian Polesye, eastward to Vinnitza Region (Sverlova, 2006); Russia: Valdai Upland.
- Remark: Similar to *V. contortula*, differs by larger size at the same number of whorls (diameter of *contortula* no more than 3.8 mm).

### ***Vitrea nadejdae*** Lindholm, 1926

Fig. 58 A

Lindholm, 1926: 69.

- Type locality: mountain Crimea near New Simeiz.
- Syntypes: ZIN.
- Dimensions: H up to 1.8, D up to 3.8 mm.
- Distribution: sporadically found around New Simeiz near Yalta (Crimea) (Likharev, Schileyko, MS).

### ***Vitrea praetermissa*** Riedel, 1988

Textfig. 10

Riedel, 1988: 73, figs. 1-3.

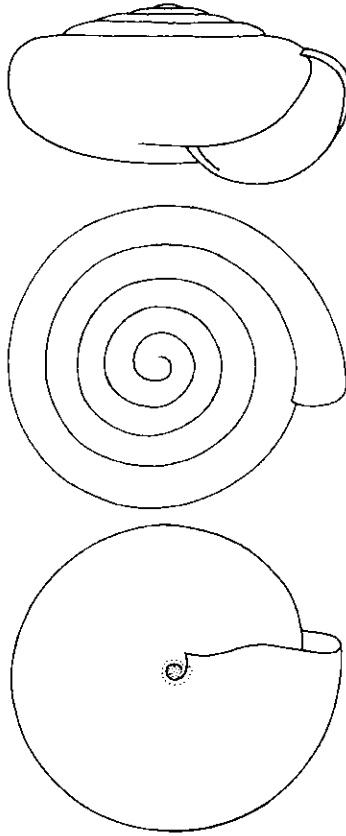
- Type locality: Adzharia, Zelenyi Mys near Batumi.
- Holotype: IZP.
- Dimensions: H up to 0.9, D up to 1.8 mm.
- Distribution: type locality.

### ***Vitrea pygmaea*** (O. Boettger, 1880)

Fig. 58 C

[= *Vitrea etrusca* sensu Lindholm, 1926, non Paulucci, 1878]

*Hyalinia pygmaea* Boettger, 1880a: 118, pl. 4, fig. 8.



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**Textfig. 10.** *Vitrea praetermissa*, holotype, after Riedel, 1988, D 1.8 mm.

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- Type locality: Martkopi near Tbilisi.
- Lectotype (Pinter, 1972): SMF No. 171023/1.
- Dimensions: H up to 1.10, D up to 2.15 mm.
- Distribution: mountain forests of Crimea, central Ciscaucasia (Kalitina, 1953, 1954), central and eastern Transcaucasia, western Kopet Dagħ. Records from western part of Northern Caucasus (Likharev, Rammelmeyer, 1952) are erroneous (Likharev, Schileyko, MS).
- Remark: It is the smallest member of the genus.

***Vitrea rhododendronis*** Riedel, 1966

Fig. 58 B

[= *Vitrea diaphana erjavecii* sensu Riedel, 1959, non Brusina, 1870]

Riedel, 1966: 45-47, figs. 11-13.

- Type locality: near Lentekhi, Georgia.
- Holotype: ZIN.
- Dimensions: H up to 1.9, D up to 4.3 mm.
- Distribution: type locality.
- Remark: Similar to *V. angystropha* and *V. sorella*. From *V. angystropha* it differs in narrower aperture and more number of whorls (up to 6.5). From *V. sorella* it differs in the absence of umbilicus and more pronounced peripheral angle.

***Vitrea sorella*** (Mousson, 1863)

Textfig. 11

*Zonites sorella* Mousson, 1863: 299-300.

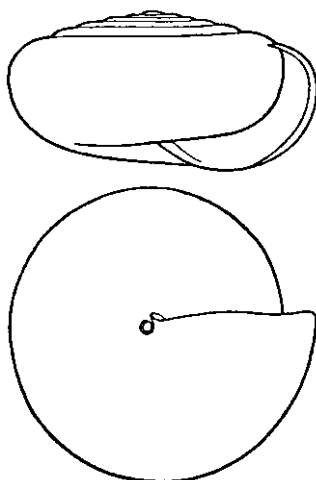
- Type locality: debris of Rioni River.
- Types: unknown.
- Dimensions: H up to 2, D up to 4 mm.
- Distribution: type locality (western Transcaucasia, based on the description of the species from the Rioni debris) (Likharev, Schileyko, MS).
- Remark: Similar to *V. praetermissa*, differs by lesser size (diameter 1.8 mm, in *praetermissa* up to 4.0 mm) and wider whorls. Besides, in *V. sorella* the umbilicus is dot-like, not perspective, whereas in *V. praetermissa* nearly whole whorl can be seen through umbilicus.

***Vitrea subrimata*** (Reinhardt, 1871)

Fig. 58 D

*Hyalina subrimata* Reinhardt, 1871: 39.

- Type locality: “Tschechoslowakei, Mährisches Gesenke, Kessel”.




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**Textfig. 11.** *Vitrea sorella*, after Riedel, 1966, D 3.6 mm.

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- Lectotype (Pinter, 1972): SMF No. 3482/1.
- Dimensions: H up to 1.7, D up to 3.3 mm.
- Distribution: a single finding in Ukraine, Lvov Region, near Boleslav (Bąkowski, Lomnicki, 1892); most records from western Ukraine are based on erroneous identification (Sverlova, 2006).
- Remark: Differs from all other species of the genus by the structure of columellar margin of aperture: the margin very short and bent at sharp angle.

***Vitrea transsylvanica*** (Clessin, 1877)

Fig. 58 E

*Hyalina transsylvanica* Clessin, 1877: 133, pl. 2, fig. 12.

- Type locality: Transylvania (“Siebenburgen” on label of lectotype).
- Lectotype (Zilch, 1979): SMF No. 45685.
- Dimensions: H up to 1.8, D up to 4.3 mm.
- Distribution: Ukraine: forest regions of Carpatian Mountains and Ciscarpathia (Likharev, Schileyko, MS; Sverlova, 2006).

ZONITINAE Mörch, 1864

***Aegopinella*** Lindholm, 1927

Type species: *Helix pura* Alder, 1830 (OD)

***Aegopinella epipedostoma*** (Bourguignat in Fagot, 1879)

Fig. 59 A

[= *Aegopinella epipedostoma iuncta* Hudec, 1964]

*Zonites epipedostoma* Bourguignat – Fagot, 1879: 286.

- Type locality: “Quartier de Caraman (commune d’Avignolet)” (France).
- Syntypes: unknown.
- Dimensions: H up to 4, D up to 11 mm.
- Distribution: Ukrainian Carpathians, Novogradsk Hills (Baranovichi district) (Likharev, Schileyko, MS).

***Aegopinella minor*** (Stabile, 1864)

Fig. 59 C

[= *Hyalina stauropolitana* Rosen, 1901]

*Hyalina nitens* var. *minor* Stabile, 1864: 31.

- Type locality: not stated (Piedmont, Northern Italy – from title).
- Types: unknown.
- Dimensions: H up to 4.5, D up to 9 mm.
- Distribution: deciduous forests and forest-steppe of Novogradsk, Middle Russian, Pridneprovye, and Voluno-Podolsk hills; foothills of Ukrainian Carpathians; Ukrainian Polesye and Dnepropetrovsk Region (Sverlova, 2006); mountain Crimea; sepa-

rate heights of North Caucasus. Northernmost records are from Svyantzen Hills near Naroch Lake (Minsk Region), vicinities of Smolensk, and near Senezhscoe Lake in vicinities of Klin (Moscow Region) (Likharev, Schileyko, MS).

- Remark: Examination of respective collection has shown that all old records of *Ae. nitidula* (Draparnaud) and *Ae. nitens* (Michaud) refer to *Ae. minor* (Elsky, 1862; Retowski, 1888, 1914; Lindholm, 1901; Rosen, 1901b, 1903, 1911, 1914; Puzanov, 1925, 1927), as well as Krynicky's (1836) indication of the presence of *Helix nitidosa* Férussac (nom. nud.) in vicinities of Kharkov and Volyn.

### ***Aegopinella nitens*** (Michaud, 1831)

Fig. 59 B

*Helix nitens* Michaud, 1831: 44.

- Type locality: “Dep. Ain, Umgebung von Nantua” [France].
- Lectotype (Forcart, 1959b): Musée d’Histoire Naturelle, Lyon.
- Dimensions: H up to 4.6, D up to 9 mm.
- Distribution: Ukraine: Carpathians and Prut river basin (Sverlova, 2006).

### ***Aegopinella nitidula*** (Draparnaud, 1805)

Fig. 59 D

*Helix nitidula* Draparnaud, 1805: 117.

- Type locality: France, department Pas-de-Calais, Forêt de Guines, 3 km SE of Guines.
- Neotype (Gittenberger, 1993): NHMV No. 86934.
- Dimensions: H up to 5, D up to 10 mm.
- Distribution: certainly known only from a park in Lvov (Ukraine) (Sverlova, 2006).

### ***Aegopinella pura*** (Alder, 1830)

Fig. 59 E

[= *Helix lenticula* Held, 1837]

*Helix pura* Alder, 1830: 37.

- Type locality: Northumberland, England.
- Types: unknown.
- Dimensions: H up to 2.6, D up to 4.6 mm.
- Distribution: East-European Plain, Carpathians (Sverlova, 2006), Crimea, Stavropol Hills, Caucasus except for Adzharia. Records from Murmansk and Western Siberia (Likharev, Rammelmeyer, 1952) are erroneous (Likharev, Schileyko, MS).

## GODWINIINAE C.M. Cooke, 1921

### ***Perpolita*** Baker, 1928

Type species: *Helix hammonis* sensu Baker, 1928, non Strøm, 1765 [= *Helix electrina* Gould, 1841] (OD)

***Perpolita hammonis*** (Strøm, 1765)

Fig. 60 A

[= *Helix viridula* Menke, 1830; *Helix radiatula* Alder, 1830]

*Helix hammonis* Strøm, 1765: 435, pl. 6, fig. 16.

- Type locality: Norway.
- Types: unknown.
- Dimensions: H up to 2.2, D up to 4.5 mm.
- Distribution: forests of East-European Plain, Caucasus and Siberia (Likharev, Schileyko, MS); Carpathians (Sverlova, 2006); Kurile Islands (Pearce et al., 2002); Sakhalin (Prozorova, Berezhok, 2004).

***Perpolita petronella*** (L. Pfeiffer, 1853)

Fig. 60 B

*Helix petronella* Pfeiffer, 1853a: 95.

- Type locality: Swiss Alps.
- Lectotype (Forcart, 1960): BMNH.
- Dimensions: H up to 2.3, D up to 5.0 mm.
- Distribution: forests of East-European Plain, Caucasus and Siberia (Likharev, Schileyko, MS).

OXYCHILINAE Hesse, 1927

***Cellariopsis*** A. Wagner, 1915

Type species: *Schistoballus deubeli* A. Wagner, 1915 [= *Hyalina cellaria* var. *orientalis* Clessin, 1887] (monotypy)

***Cellariopsis orientalis*** (Clessin, 1887)

Fig. 60 C

[= *Schistoballus deubeli* A. Wagner, 1915]

*Hyalina cellaria* var. *orientalis* Clessin, 1887: 69.

- Type locality: “Ungarn im Tatragebirge” [Slovak Tatra Mountains].
- Types: unknown.
- Dimensions: H up to 4.7, D up to 11.0 mm.
- Distribution: Ukrainian Carpathians, western Podolsk Hills and area between Prut and Dniester rivers (Likharev, Schileyko, MS; Sverlova, 2006).

***Conulopolita*** O. Boettger, 1879

Type species: *Hyalina (Conulopolita) raddei* O. Boettger, 1879 (monotypy)

***Conulopolita cavatica*** (Riedel, 1966)

Fig. 61 B

[= *Oxychilus cochlospелеus* Tzvetkov in Birshstein, 1950, nom. nud.]

*Oxychilus (Conulopolita) cavaticus* Riedel, 1966: 188-191, figs. 196-201, pl. 5, figs. 52-54.

- Type locality: Khosta, cave near Shirokii Pokos.
- Holotype: ZIN.
- Dimensions: H up to 7.1, D up to 13.0 mm.
- Distribution: caves near Khosta, Adler, Gudauta, Sukhumi (Riedel, 1966).

***Conulopolita raddei*** (O. Boettger, 1879)

Fig. 61 A

*Hyalinia (Conulopolita) raddei* Boettger, 1879c: 97-98, pl. 2, fig. 1.

- Type locality: “in einer Stalaktitenhöhle in Abchasien (Kaukasus)”.
- Syntype: SMF No. 124368.
- Dimensions: H up to 6.0, D up to 16.5 mm.
- Distribution: different caves on western Abkhazia (Gudauta, Sukhumi, Tzebelda) (Likharev, Schileyko, MS).
- Remark: Differs from all other species of Oxychilinae, along with “*Oxychilus retowskii*”, by the absence of umbilicus.

***Conulopolita sieversi*** (O. Boettger, 1879)

Fig. 60 D

[= *Hyalinia cellaria* var. *subapertus* O. Boettger, 1879]

*Hyalinia cellaria* var. *sieversi* Boettger, 1879b: 394, pl. 10. fig. 8.

- Type locality: “Ratscha” (Rachinsky Ridge, western Georgia).
- Lectotype (Riedel, 1959b): SMF No. 3498.
- Dimensions: H up to 4.0, D up to 11.5 mm.
- Distribution: mountain-forest and subalpine areas of central part of North Caucasus (North Ossetia), Dagestan, central and eastern Transcaucasia; westward of Suram Ridge: isolated records from Tzebelda (Abkhazia), Omalo and Notanebi (Adzharo-Imereti Ridge) (Likharev, Schileyko, MS); Armenia: forest zone of northern districts, Zangezur, locally in lower alpine zone, as well as Amasi, Artik, and Sevan districts (Akramowski, 1976).

***Conulopolita ? stopnevichi*** (Rosen, 1925)

Fig. 60 E

*Vitrea stopnevichi* Rosen, 1925: 5, fig. 1.

- Type locality: “Mons Schoana” (Shoan Mountain, Batalpashinsky district of Kuban Region).
- Syntypes: ZIN.
- Dimensions: H up to 3.8, D up to 9.0 mm.
- Distribution: found in 5 localities of western Great Caucasus, west and northwest of Elbrus (Likharev, Schileyko, MS).

***Discoxychilus*** Riedel, 1966

Type species: *Discoxychilus lindholmi* Riedel, 1966 (OD)

***Discoxychilus lindholmi*** Riedel, 1966

Fig. 61 C

Riedel, 1966: 227, 284 (nom. nov. pro *Patula goetschana* Lindholm, 1922, non *P. ruderata* var. *Gorktschaana* Mousson, 1873, non *P. p. Gortschkaana* Mousson, 1876, nec *P. goetschaana* O. Boettger, 1881).

- Type locality: “Adzarischkali” (Adzhariskali) near Batumi.
- Lectotype (Riedel, 1966): IZP.
- Dimensions: H up to 2.6, D up to 8.7 mm.
- Distribution: several places in lower reaches of Chorokh River and vicinities of Batumi (Likharev, Schileyko, MS).

***Eopolita*** Pollonera, 1916

Type species: *Zonites aequatus* Mousson, 1854 [= *Eopolita protensa* (Férussac, 1886)] (monotypy)

***Eopolita derbentina*** (O. Boettger, 1886)

Fig. 61 D

[= *Hyalinia siraphora* Westerlund, 1897]

*Hyalinia (Polita) derbentina* Boettger, 1886b: 130-131, pl. 3, fig. 3a-d.

- Type locality: vicinities of Derbent.
- Types: unknown.
- Dimensions: H up to 4.5, D up to 12.0 mm.
- Distribution: foothills of eastern offshoot of Great Caucasus near Derbent and Makhachkala, northern and eastern offshoot of Lesser Caucasus, Zangezur and central part of Armenia (Likharev, Schileyko, MS).

***Morlina*** A. Wagner, 1915

Type species: *Helix glabra* Rossmässler, 1835 (SD Lindholm, 1927)

***Morlina glabra striaria*** (Westerlund, 1881)

Fig. 61 E

*Zonites glabra* var. *striaria* Westerlund, 1881: 52.

- Type locality: “Transsilvania (Michelsberg prope Hermannstadt...), Polonia (Ojcow...)”.
- Types: unknown.
- Dimensions: H up to 6.7, D up to 15 mm.
- Distribution: Ukrainian Carpathians, Ciscarpathia, western and northwestern Ukraine (Likharev, Schileyko, MS; Sverlova, 2006).

***Oxychilus*** Fitzinger, 1833

Type species: *Helix cellaria* Müller, 1774 (SD Herrmannsen, 1847)

***Oxychilus alliaris*** (Miller, 1822)

Fig. 62 A

*Helix alliaris* Miller, 1822: 379.

- Type locality: Bristol (England).
- Types: unknown.
- Dimensions: H up to 3.5, D up to 7.5 mm.
- Distribution: Hiiumaa and Saaremaa islands in the Baltic Sea, two greenhouses in St. Petersburg (Likharev, Schileyko, MS).

***Oxychilus caspius*** (O. Boettger, 1880)

Fig. 62 B

[= *Hyalinia schmidti* Rosen, 1914]

*Hyalinia (Polita) caspia* Boettger, 1880b: 379.

- Type locality: Khamarat, Talysh.
- Lectotype (Riedel, 1966): SMF No. 225554.
- Dimensions: H up to 3.5, D up to 8.2 mm.
- Distribution: forests of Lenkoran lowland and Talysh, South-Caspian lowland (Likharev, Schileyko, MS).
- Remark: Very similar to *Conulopolita sieversi*, differs by the presence of delicate radial lines (shell of *C. sieversi* lacks regular sculpture). These two species often live together.

***Oxychilus cellarius*** (Müller, 1774)

Fig. 62 C

*Helix cellaria* Müller, 1774: 28-29.

- Type locality: Fridrichsdal (vicinities of Copenhagen, Denmark).
- Types: unknown.
- Dimensions: H up to 5.5, D up to 11.0 mm.
- Distribution: Kalinigrad Region, Lithuania (Kaunas), Latvia (Riga), Estonia (Glina and Saaremaa Islands), Pulkov Hills near St.-Petersburg (Likharev, Schileyko, MS).

***Oxychilus crenimargo*** (Retowski, 1889)

Fig. 62 D

*Hyalinia crenimargo* Retowski, 1889: 231.

- Type locality: “Risa” (Rize, northeastern Turkey).
- Lectotype (Riedel, 1966): IZP.
- Dimensions: H up to 3.5, D up to 9.0 mm.
- Distribution: vicinities of Batumi (Botanical Garden, Chaisubany) (Likharev, Schileyko, MS).

***Oxychilus decipiens decipiens*** (O. Boettger, 1886)

Fig. 63 A

*Hyalina decipiens* Boettger, 1886b: 131-132, pl. 3, fig. 1.

- Type locality: Shakh-Dagh Mount, north-eastern Azerbaijan.
- Lectotype (Riedel, 1959b): SMF No. 158333.
- Dimensions: H up to 5.0, D up to 10.5 mm.
- Distribution: forests of Great Caucasus and Borzhomi district in Transcaucasia (Likharev, Schileyko, MS).

***Oxychilus decipiens adsharicus*** Riedel, 1966

Fig. 63 B

Riedel, 1966: 89-91, figs. 68-72.

- Type locality: Botanical Garden, Zelenyi Mys near Batumi.
- Holotype: IZP.
- Dimensions: H up to 3.3, D up to 6.8 mm.
- Distribution: Transcaucasia: vicinities of Batumi (Likharev, Schileyko, MS).

***Oxychilus deilus deilus*** (Bourguignat, 1857)

Fig. 62 E

[= *Hyalinia krynickii* Clessin, 1883; *Helix filicum* Krynicki, 1836 part.]

*Zonites deilus* Bourguignat, 1857: 9, pl. 8, figs. 7-9.

- Type locality: vicinities of Sevastopol (Crimea).
- Types: unknown.
- Dimensions: H 7.0-7.5, D 13-17 mm.
- Distribution: southern coast of Crimea (Likharev, Schileyko, MS); introduced to Askania-Nova Reserve in Kherson Region (Sverlova, 2006).

***Oxychilus difficilis*** (O. Boettger, 1888)

Fig. 63 D

*Hyalinia (Retinella) difficilis* Boettger, 1888: 150-152.

- Type locality: Oschten-Fischt Mountains, valley of Kurdzhips River, Guk mountain (western Great Caucasus).
- Syntypes: SMF Nos. 225580 ("lectotype"), 225581/1, 225582/1, 225583/10 juv. ("paralectotypes").
- Dimensions: H up to 17.0, D up to 28.2 mm.
- Distribution: mountain forests of western Great Caucasus; upper reaches of Belaya River (Ciscaucasia); from Sochi and Mzymta river basins to Psyrtskha River basin (Transcaucasia) (Likharev, Schileyko, MS).

***Oxychilus disciformis*** Riedel, 1959

Fig. 63 C

*Oxychilus caspius disciformis* Riedel, 1959a: 71, figs. 1, 2, pl. 1, figs. 1-3.

- Type locality: Northern Iran, Ghilan province.
- Holotype: IZP.
- Dimensions: H up to 2.6, D up to 7.5 mm.
- Distribution: forests of Lenkoran lowland and Talysh, South-Caspian lowland (Likharev, Schileyko, MS).
- Remark: Similar to *O. caspius*, differs mainly by the presence of delicate reticulate sculpture where radial elements are prevalent (shell of *O. caspius* is nearly smooth, just with very fine radial lines, shining). Sometimes these two species live together.

***Oxychilus discrepans*** (Retowski, 1889)

Fig. 63 E

[= *Hyalinia difficilis* var. *batumensis* Retowski, 1914]*Hyalinia difficilis* var. *discrepans* Retowski, 1889: 233.

- Type locality: “Adsharizkal” (Adzhariskali near Batumi).
- Syntype: IZP.
- Dimensions: H up to 16.1, D up to 31.2 mm.
- Distribution: Georgia: Adzharo-Imereti Ridge (to Kobuleti in the north, to Adigeni in Adzhariskali River valley in the east, to Chorokh River valley in the south) (Likharev, Schileyko, MS).

***Oxychilus draparnaudi*** (Beck, 1837)

Fig. 64 A

*Helicella draparnaudi* Beck, 1837: 6 (nom. nov. pro *Helix lucida* Draparnaud, 1801, non Pultney, 1799).

- Type locality: not stated (France – from title).
- Types: unknown.
- Dimensions: H up to 7, D up to 14 mm.
- Distribution: sporadically near Moscow, St.-Petersburg, Kharkov, Lvov and Uzhgorod (Likharev, Schileyko, MS; Sverlova, 2006).

***Oxychilus duboisi*** (Charpentier in Mousson, 1863)

Fig. 64 D

*Zonites duboisi* Charpentier – Mousson, 1863: 295-296.

- Type locality: Kutaisi.
- Syntypes: ZMZ No. 502231.
- Dimensions: H up to 15.1, D up to 28.7 mm.
- Distribution: Kutaisi (ruins of Bagrat Castle and neighborhood) (Likharev, Schileyko, MS).

***Oxychilus elegans*** (O. Boettger, 1881)

Fig. 64 B

*Hyalinia (Mesomphix) elegans* Boettger, 1881a: 197-198, pl. 8, fig. 12a-c.

- Type locality: “Im Wäldern der Umgebung von Lenkoran”.
- Syntype: ZIN.
- Dimensions: H up to 12.5, D up to 26.0 mm.
- Distribution: forests of Lenkoran lowland and Talysh mountains (Likharev, Schileyko, MS).

***Oxychilus emmae*** (Akramowski, 1955)

Fig. 64 E

*Vitrea emmae* Akramowski, 1955: 149, fig. 1.

- Type locality: Laki ravine near Verin-Agdan village, Idzhevan district of Armenia.
- Holotype: ZIN.



- Dimensions: H up to 2.4, D up to 5.8 mm.
- Distribution: forests of Lesser Caucasus from Akhaltzikhe to Idzhevan (southern Georgia and northern Armenia) (Likharev, Schileyko, MS).
- Remark: Externally looks like some *Vitrea*, differs by rather broad umbilicus and larger size (diameter up to 5.8 mm).

***Oxychilus filicum*** (Krynicky, 1836)

Fig. 64 C

*Helix filicum* Krynicky, 1836: 201.

- Type locality: “Georgia, (Lenkoran) ... – Tauria”.
- Syntype: ZIN.
- Dimensions: H up to 16, D up to 27 mm.
- Distribution: Talysh and Lenkoran lowland (Likharev, Schileyko, MS).

***Oxychilus horsti*** (O. Boettger in Reibisch, 1892)

Fig. 65 A

[= *Hyalinia ampliata* Rosen, 1911; *Hyalinia duboisi* (non Mousson, 1863) et *Hyalinia sucinacia* (non O. Boettger, 1883) auct.]

*Hyalinia horsti* Boettger – Reibisch, 1892: 50.

- Type locality: valley of Belaya River.
- Types: unknown.
- Dimensions: H up to 11.9, D up to 24.0 mm.
- Distribution: western part of Great Caucasus (Likharev, Schileyko, MS).

***Oxychilus imperator*** Riedel, 1966

Fig. 65 B

[= *Schistophallus duboisi* auct., non Mousson, 1863]

Riedel, 1966: 161, figs. 165-167, pl. 3, figs. 31-36.

- Type locality: valley of Psyrtzkha river, Novyi Afon, Abkhazia.
- Holotype: IZP.
- Dimensions: H up to 14.3, D up to 31.0 mm.
- Distribution: Abkhazia (Likharev, Schileyko, MS).

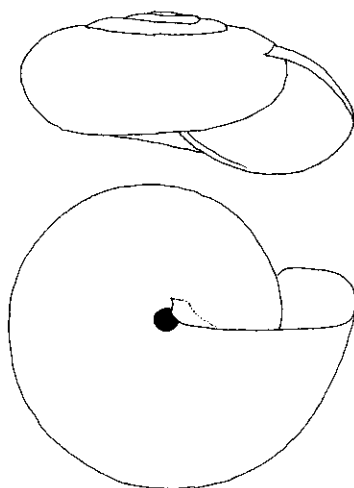
***Oxychilus inopinatus*** (Uličný, 1887)

Textfig. 12

[= *Hyalina opinata* Uličný in Clessin, 1887 (nom. err.); *Hyalinia plutonia* Kimakowicz, 1890]

*Hyalina inopinata* Uličný, 1887: 111, fig. 36/1.

- Type locality: “Pavlovske vrchy”, southern Moravia, Czechia.
- Types: unknown.
- Dimensions: H up to 2.9, D up to 6 mm.
- Distribution: Volyn-Podolsk Hills, plains of Zakarpatskaya Region and Northwestern Black Sea Maritime Territory in Ukraine (Likharev, Schileyko, MS; Sverlova, 2006).




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**Textfig. 12.** *Oxychilus inopinatus*, after photo in Hudec, 1961.

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***Oxychilus iphigenia*** (Lindholm, 1926)

Fig. 65 D

*Hyalina iphigenia* Lindholm, 1926: 167.

- Type locality: Sredniye Lemeny village near Novyi Simeiz, western part of South coast of Crimea.
- Syntypes: ZIN.
- Dimensions: H up to 2.25, D up to 4.7 mm.
- Distribution: type locality.
- Remark: Differs from all rest species of *Oxychilus*, along with *O. subeffusus*, by very narrow, dot-like umbilicus. From *O. subeffusus* it differs by strongly radially striated upper surface of shell.

***Oxychilus kobelti*** (Lindholm, 1910)

Fig. 65 C

*Retinella kobelti* Lindholm, 1910: 223.

- Type locality: ravine of Savluk-Su River, Alma River basin (north-western offshoot of Babugan-Yaila Ridge, Crimea).
- Lectotype (Riedel, 1972): ZIN.
- Dimensions: H up to 12, D up to 23 mm.
- Distribution: Mountain Crimea: forest regions of Babugan-Yaila and foothills of Chatyr-Dagh. One finding on Southern coast near Aidanila village (near Nikitsky Botanical Garden) (Likharev, Schileyko, MS).

***Oxychilus koutaisanus koutaisanus*** (Mousson, 1863)

Fig. 66 A

[= *Hyalinia koutaisana* auct.; *Hyalinia koutaisiana* auct.; ? *Zonites lucidus* var. *selectus* Mousson, 1863; *Hyalinia koutaisiana* var. *transitans* O. Boettger, 1883 part.]*Zonites cypricus* var. *koutaisanus* Mousson, 1863: 295.

- Type locality: Kutaisi.
- Types: unknown.
- Dimensions: H up to 10.5, D up to 25.0 mm.
- Distribution: central and southern Georgia (Likharev, Schileyko, MS).

***Oxychilus koutaisanus mingrelicus*** (Mousson, 1863)

Fig. 66 B, C

[= *Hyalina mingrelica* var. *intermissa* Kobelt, 1879; *Hyalinia pontica* O. Boettger, 1881; *Hyalinia koutaisiana* var. *transitans* O. Boettger, 1883, part.; *Hyalinia reticulata* O. Boettger, 1883; *Hyalinia emigrata* Lindholm, 1922]*Zonites mingrelicus* Mousson, 1863: 294.

- Type locality: “atterrissements du Rhéon, ... Koutais” (Rioni River, Kutaisi).
- Syntype: ZMZ No. 502223.
- Dimensions: H up to 13, D up to 25 mm.
- Distribution: West Caucasus, from basin of Psekups River to basin of Laba River in Ciscaucasia, from Sochi to Abkhazia and Mingrelia in Transcaucasia. Absent in southern Georgia (Likharev, Schileyko, MS). Introduced to Central Asia (described as *Hyalinia emigrata* – see Likharev, Rammelmeyer, 1952).

***Oxychilus oschtenicus*** (O. Boettger, 1888)

Fig. 65 E

*Hyalinia (Polita) oschtenica* Boettger, 1888: 150.

- Type locality: forests of Oschten-Fischt Mountains on West Great Caucasus.
- Syntypes: SMF Nos. 160941 (“lectotype”), 160942 (“paralectotype”).
- Dimensions: H up to 11, D up to 23 mm.
- Distribution: western part of Great Caucasus; from Kurdjips River to Dakhovsky ravine (Belaya River) in Ciscaucasia; from Sochi (Khosta) to valley of Kodori River and off Tkvarcheli (Abkhazia) in Transcaucasia (Likharev, Schileyko, MS).

***Oxychilus suaneticus suaneticus*** (O. Boettger, 1883)

Fig. 66 D

*Hyalinia suanetica* Boettger, 1883: 148, pl. 5, fig. 3.

- Type locality: Svanetia.
- Syntypes: SMF Nos. 225695 (“lectotype”), 225696/1+3 juv., 225697/1 (“paralectotypes”).
- Dimensions: H up to 12, D up to 19 mm.
- Distribution: western part of Great Caucasus (Likharev, Schileyko, MS).

***Oxychilus suaneticus likharevi*** (Riedel, 1966)

Fig. 66 E

*Schistopballus suaneticus likharevi* Riedel, 1966: 166, figs. 168-171, pl. 2, figs. 25-27.

- Type locality: Khosta, Yew-Boxwood copse.
- Holotype: ZIN.
- Dimensions: H up to 13.6, D up to 25.5 mm.
- Distribution: type locality.

***Oxychilus subeffusus*** (O. Boettger, 1879)

Fig. 67 E

[= *Hyalinia effusa* O. Boettger, 1879, non *Helix effusa* L. Pfeiffer, 1866; *Hyalinia subeffusa* var. *depressa* O. Boettger, 1881; *Hyalinia subeffusa* var. *daghestanica* O. Boettger, 1886; *Hyalina (Crystallus) Kamia* Puzanov, 1925]*Hyalinia (Vitrea) subeffusa* Boettger, 1879b: 395-396 (nom. nov. pro *Hyalina effusa* O. Boettger, 1879, non *Helix effusa* L. Pfeiffer, 1866).

- Type locality: “Mamudly”, southern Georgia.
- Syntype: SMF No. 3496.
- Dimensions: H up to 1.8, D up to 4.7 mm.
- Distribution: Great Caucasus northward to Zheleznovodsk, central and south Georgia, Armenia, northeastern Lesser Caucasus to Talysh (Likharev, Schileyko, MS).
- Remark: Differs from all rest species of *Oxychilus*, along with *O. iphigeniae*, by very narrow, dot-like umbilicus. From *O. iphigeniae* it differs by nearly smooth upper surface of shell.

***Oxychilus sucinaceus sucinaceus*** (O. Boettger, 1883)

Fig. 67 A

[= *Hyalinia denselineata* P. Hesse, 1914; *Hyalinia sericata* Lindholm, 1922]*Hyalinia sucinaceus* Boettger, 1883: 150, pl. 5, fig. 2.

- Type locality: Nakeral mountains (southern offshoots of Rachinsky Ridge, western Georgia).
- Lectotype (Riedel, 1966): SMF No. 162978.
- Dimensions: H up to 10.5, D up to 20.5 mm.
- Distribution: forests on Rachinsky, Lechkhum, Adzharo-Imereti and Trialeti Ridges (western Georgia) (Likharev, Schileyko, MS).

***Oxychilus sucinaceus zakatalicus*** Likharev et Riedel, 1962

Fig. 67 B

*Oxychilus (Oxychilus) zakatalicus* Likharev, Riedel, 1962: 14, figs. 1, 2.

- Type locality: Zakatal Reserve, Verketel Ridge near Kamplov cave.
- Holotype: ZIN.
- Dimensions: H up to 9.6, D up to 19.0 mm.
- Distribution: mountain forests of southern offshoots of central part of Great Caucasus at border between Georgia and Azerbaijan (Likharev, Schileyko, MS).

***Oxychilus translucidus*** (Mortillet, 1854)

Fig. 67 D

[= *Hyalinia komarovi* O. Boettger, 1881]

*Helix translucidus* Mortillet, 1854: 9, pl. 1, fig. 4.

- Type locality: Trabzon, Turkey.
- Syntypes: unknown.
- Dimensions: H up to 3.7, D up to 8.0 mm.
- Distribution: in parks and gardens of some villages along Black sea coast of Caucasus, from Sochi to Batumi; parks of Moscow, Kutaisi and botanical garden in Ashkhabad; greenhouses in Moscow, Rostov-on-Don, Alma-Ata, Dushanbe and Tashkent (Likharev, Schileyko, MS); Vyatka River basin (Shikhova, 2004).

***Oxychilus* (?) *diaphanellus*** (Krynicky, 1836)

Fig. 68 A

[= *Helix diaphana* Krynicky, 1833 nom. praecoc., non Studer, 1820; *Hyalina taurica*

Clessin, 1881b; *Hyalina planaria* Clessin, 1883; *Hyalina zonulata* Westerlund, 1886]

*Helix diaphanella* Krynicky, 1836: 204-205 (nom. nov. pro *H. diaphana* Krynicky, 1833).

• Type locality: “in montosis sylvaticus Tauriae... ([between Skel and Merdven])”.

- Syntypes: ZIN, MNHN.
- Dimensions: H up to 4.0, D up to 8.5 mm.
- Distribution: mountain forests of Main Ridge, presumably Yajla and Chatyr-Dagh and Southern Coast, Crimea (Puzanov, 1927); found in Kharkov, Zaporozhje and Kiev (Sverlova, 2006).

**“*Oxychilus*” *andronakii*** (Lindholm, 1914)

Fig. 67 C

*Hyalinia andronakii* Lindholm, 1914a: 33.

- Type locality: “Kwarzczana”, 8 km north from Artvin (northeastern Turkey).
- Syntype: ZIN.
- Dimensions: H up to 7.3, D up to 14.0 mm.
- Distribution: Chorokh River basin (Likharev, Schileyko, MS).

**“*Oxychilus*” *birsteini*** Tzvetkov, 1940

Fig. 68 B

Tzvetkov, 1940b: 57, fig. 1.

- Type locality: “cave in Andreevka”, Abkhazia.
- Syntypes: ZMMU Nos. Lc-14469, Lc-14470.
- Dimensions: H up to 2.7, D up to 7.5 mm.
- Distribution: Nizhnyaya Andreevskaya cave near Akhalsheny (27 km north from Sukhumi) (Birstein, 1940).

**“*Oxychilus*” *lederi*** (O. Boettger, 1880)

Fig. 68 C

*Hyalinia (Polita) lederi* Boettger, 1880a: 117-118, pl. 4, fig. 2.

- Type locality: Tbatani, northeastern Georgia.
- Lectotype (Riedel, 1959b): SMF No. 125199.
- Dimensions: H up to 5.9, D up to 15.0 mm.
- Distribution: a single record from upper reaches of Alazani River, 2100 m above sea level (Likharev, Schileyko, MS).

“*Oxychilus*” *retowskii* (Lindholm, 1914)

Fig. 68 D

*Crystallus retowskii* Lindholm, 1914a: 35.

- Type locality: Abastumani (Southern Georgia).
- Holotype: Geological Institute of Azerbaijan Academy of Science (Baku).
- Dimensions: H up to 1.8, D up to 5.0 mm.
- Distribution: Lesser Caucasus from Abastumani (Adzharo-Trialeti Ridge) to Dilizhan (Bazum Ridge) (Likharev, Schileyko, MS).
- Remark: See Remark to *Conulopolita raddei*.

*Riedeliconcha* Schileyko, 2003

Type species: *Hyalina depressa* Sterki, 1880 (OD)

*Riedeliconcha depressa* (Sterki, 1880)

Fig. 68 E

*Hyalina depressa* Sterki, 1880: 104-105.

- Type locality: “am Randen (Jura) und im Wuhtachthal (Südost-Schwarzwald, Triasboden), also auf schweizerischen sowohl wie auf deutschen (Baden) Gebiete”.
- Syntypes: unknown.
- Dimensions: H up to 4.2, D up to 8.5 mm.
- Distribution: Ukrainian Carpathians (Likharev, Schileyko, MS).

*Vitrinoxchilus* Riedel, 1963

Type species: *Hyalinia suturalis* O. Boettger, 1881 (OD)

*Vitrinoxchilus subsuturalis* (O. Boettger, 1888)

Fig. 69 A, B

*Hyalinia subsuturalis* Boettger, 1888: 149-150.

- Type locality: forests on Kurdjips River valley (tributary of Belaya River).
- Syntypes: SMF No. 165894, MNHN.
- Dimensions: H up to 3.0, D up to 6.5 mm.
- Distribution: sporadically in western Great Caucasus: near Maikop, Kurdjips River valley, Yew-Boxwood copse (Khosta), Inguri River valley near Khaishi village (Likharev, Schileyko, MS).
- Remark: Differs from *V. suturalis* in more depressed shell.

**Vitrinoxchilus suturalis** (O. Boettger, 1881)

Fig. 69 C

*Hyalinia (Polita) suturalis* Boettger, 1881a: 190-191, pl. 8, fig. 9a-d.

- Type locality: Suram Ridge.
- Syntypes: ZIN.
- Dimensions: H up to 4.3, D up to 7.5 mm.
- Distribution: Adzharo-Imereti, Suram, Rachinsky, Svanetsky and Kodor ridges of Caucasus (Likharev, Schileyko, MS).

**DAUDEBARDIIDAE** Kobelt, 1906

***Bilania*** Schileyko, 1986

Type species: *Daudebardia boettgeri* Clessin, 1883 (OD)

***Bilania boettgeri*** (Clessin, 1883)

Fig. 69 D, E

*Daudebardia boettgeri* Clessin, 1883: 38, pl. 2, figs. 9, 10.

- Type locality: Strateiz near Yalta, Crimea.
- Types: unknown.
- Dimensions: D up to 5.3 mm.
- Distribution: mountain forests of Crimea (Likharev, Schileyko, MS).

***Carpathica*** A. Wagner, 1895

Type species: *Daudebardia (Carpathica) kimakowiczi* A. Wagner, 1895 [= *Daudebardia calophana* Westerlund, 1881] (SD Forcart, 1950)

***Carpathica calophana*** (Westerlund, 1881)

Fig. 69 F, G

[= *Daudebardia (Carpathica) kimakowiczi* A. Wagner, 1895]

*Daudebardia calophana* Westerlund, 1881: 51.

- Type locality: Przemysl, Poland.
- Syntypes: NMG No. 13.
- Dimensions: D up to 5.0 mm.
- Distribution: Carpathians and near-Carpathian areas of Ukraine (Likharev, Schileyko, MS).

***Daudebardia*** Hartmann, 1821

Type species: *Helix rufa* Draparnaud, 1805 (SD Forcart, 1950)

***Daudebardia brevipes brevipes*** (Draparnaud, 1805)

Fig. 70 A

*Helix brevipes* Draparnaud, 1805: 119.

- Type locality: not designated.
- Types: unknown.

- Dimensions: D up to 6 mm.
- Distribution: Ukraine: vicinities of Lvov (Sverlova, 2006).

***Daudebardia nivea*** Schileyko, 1988

Schileyko, 1988b: 1730, fig. 1 (I-IV).

- Type locality: Georgia, Oficho Cave near Kumistavi village, 6 km from Tzkhaltubo, Caucasus.
- Holotype: ZMMU No. Lc-14439. Dimensions: D up to 5.2 mm.
- Distribution: type locality.
- Remark: *D. nivea* is the only species of the family which lives in the depth of a cave and has snow-white color.

***Daudebardia rufa rufa*** (Draparnaud, 1805)

Fig. 70 B

[= *Daudebardia baliciensis* Westerlund, 1881]

*Helix rufa* Draparnaud, 1805: 118-119, pl. 8, figs. 26-29.

- Type locality: not stated.
- Types: unknown.
- Dimensions: D up to 6.2 mm.
- Distribution: Ukraine: sporadically occurs in Lvov and Chernovtzy regions (Sverlova, 2006).

***Inguria*** Schileyko, 1986

Type species: *Daudebardia wagneri* Rosen, 1911 (OD)

***Inguria wagneri*** (Rosen, 1911)

Fig. 70 C

[= *Daudebardia heydeni* Riedel, 1978, part.]

*Daudebardia wagneri* Rosen, 1911: 94, pl. 2, fig. 5.

- Type locality: Maikop and immediate vicinity.
- Syntypes: ZIN.
- Dimensions: D up to 8.5 mm.
- Distribution: western offshoots of Great Caucasus, from Maikop in the north to the Tekhuri River valley in the south, isolated findings in western Lesser Caucasus on Goderzijsky pass of Arsiyansky Ridge (Likharev, Schileyko, MS).

***Sieversia*** Kobelt, 1880

Type species: *Daudebardia heydeni* O. Boettger, 1879 (monotypy)

***Sieversia heydeni*** (O. Boettger, 1879)

Fig. 70 D

[= *Daudebardia sieversi* O. Boettger, 1880; *Daudebardia pawlenkoi* O. Boettger, 1880]

*Daudebardia heydeni* Boettger, 1879a: 3, pl. 1, fig. 1.

- Type locality: Kazbek (erroneous locality, probably Suram Ridge – Boettger, 1880a: 112).



- Types: unknown.
- Dimensions: D up to 6.5 mm.
- Distribution: maritime regions of West Caucasus (Likharev, Schileyko, MS).

***Sieversia lederi*** (O. Boettger, 1881)

Fig. 70 E

[= *Daudebardia pontica* Simroth, 1912; *Daudebardia caucasica* Simroth, 1912; *Daudebardia rufa* sensu Reibisch, 1892, non Draparnaud, 1805]

*Daudebardia lederi* Boettger, 1881a: 172-173, pl. 7, fig. 2a-b.

- Type locality: Kutaisi.
- Types: unknown.
- Dimensions: D up to 6.0 mm.
- Distribution: West Ciscaucasia from Maikop to the Black Sea and to mouth of the Chorokh River in the south (Likharev, Schileyko, MS).

***Szuchumiella*** H. Wagner, 1945

Type species: *Daudebardia (Libania) jetschini* A. Wagner, 1895 (SD Forcart, 1950)

***Szuchumiella jetschini*** (A. Wagner, 1895)

Fig. 70 F

[= *Daudebardia kalischewskii* Simroth, 1910; *Daudebardia simrothi* H. Wagner, 1945]

*Daudebardia (Libania) jetschini* A. Wagner, 1895: 618-619, pl. 5, fig. 30a-b.

- Type locality: Psyrtskha near Novyi Afon, Abkhazia.
- Types: unknown.
- Dimensions: D up to 6.8 mm.
- Distribution: maritime areas of West Caucasus from Gudauta to Tkvarcheli and Kodori River basin (Likharev, Schileyko, MS).

VITRINIDAE Fitzinger, 1833

VITRININAE Fitzinger, 1833

***Vitrina*** Draparnaud, 1801

Type species: *Helix pellucida* Müller, 1774 (monotypy)

***Vitrina exilis*** Morelet, 1858

Fig. 71 A

Morelet, 1858: 8.

- Type locality: not stated (Kamchatka – from title).
- Types: unknown.
- Dimensions: H up to 5.5 mm.
- Distribution: Iturup, Paramushir, Shumshu, Atlasova Islands (Kurile Islands) (Pearce et al., 2002).

***Vitrina pellucida pellucida*** (Müller, 1774)

Fig. 71 B

[= *Vitrina beryllina* C. Pfeiffer, 1821; *Vitrina globosa* O. Boettger, 1880]*Helix pellucida* Müller, 1774: 15.

- Type locality: Fridrichsdal near Copenhagen.
- Neotype (Forcart, 1955): ZMC.
- Dimensions: H up to 3.4, D up to 6.0 mm.
- Distribution: Palearctic (Likharev, Schileyko, MS).

***Vitrina pellucida alaskana*** Dall, 1905

Fig. 71 C

[= *Vitrina pfeifferi* Newcomb, 1861 nom. praecoc., non Deshayes, 1851]Dall, 1905: 37 (nom. nov. pro *Vitrina pfeifferi* Newcomb, 1861).

- Type locality: Karson River valley Nevada State, USA.
- Types: unknown.
- Dimensions: H up to 6, D up to 10 mm.
- Distribution: Commander Islands (Likharev, Schileyko, MS).
- Remark: Differs from nominotypical subspecies mainly by more inflated last whorl and larger size: shell diameter of *V. alaskana* is up to 10 mm (shell diameter of *pellucida pellucida* is no more than 6 mm).

***Vitrina rugulosa*** Martens, 1874

Fig. 71 D

[= *Vitrina alexandri* Westerlund, 1896]

Martens, 1874: 7.

- Type locality: Karakasuk area near Kokand.
- Types: unknown.
- Dimensions: H up to 4, D up to 7 mm.
- Distribution: mountain regions of Central Asia (including Kopet Dagh) and Altai (Likharev, Schileyko, MS).

## PHENACOLIMACINAE Schileyko, 1986

***Phenacolimax*** Stabile, 1859Type species: *Helicolimax major* Férussac, 1807 (SD Fischer in Paulucci, 1878)***Phenacolimax annularis*** (Studer, 1820)

Fig. 71 E

[= ? *Vitrina conoidea* E. Martens, 1874; *Helicarion sieversi* Mousson, 1876; *Vitrina subconica* O. Boettger, 1878; *Vitrina komarowi* O. Boettger, 1879; *Vitrina annularis* f. *caucasica* Westerlund, 1896; *Vitrina raddei* O. Boettger, 1889]*Glisobrus annularis* Studer, 1820: 86.

- Type locality: “Kt. Wallis, Tourbillon bei Sitten” (Switzerland, Kt. Wallis).

- Lectotype (Forcart, 1957): NMBE.
- Dimensions: H up to 4.25, D up to 6.50 mm.
- Distribution: Carpathians, Crimea, central and eastern Caucasus, Talysh and mountains of Central Asia (Likharev, Schileyko, MS); city park of Odessa (Sverlova, 2006).

***Trochovitrina*** O. Boettger, 1880

Type species: *Lampadia lederi* O. Boettger, 1879 (monotypy)

***Trochovitrina lederi*** (O. Boettger, 1879)

Fig. 72 A

[= *Vitrina lederi* var. *subcarinata* O. Boettger, 1880]

*Lampadia lederi* Boettger, 1879a: 7, pl. 1, fig. 2.

- Type locality: Kazbek Mount.
- Lectotype (Zilch, 1979): SMF No. 170216.
- Dimensions: H up to 4.0, D up to 5.8 mm.
- Distribution: Suram Ridge, Lenkoran lowland and mountain-forest zone of Talysh, Kazbek Mount (Likharev, Schileyko, MS).

**SEMILIMACINAE** Schileyko, 1986

***Eucobresia*** Baker, 1929

Type species: *Vitrina diaphana* Draparnaud, 1805 (OD)

***Eucobresia nivalis*** (Dumont et Mortillet, 1852)

Fig. 72 B, C

[= *Phenacolimax alpina* Koch in Hesse, 1923 part; *Vitrina kochi* auct. (non Andreae, 1884)]

*Vitrina nivalis* Dumont, Mortillet, 1852: 209-211.

- Type locality: “Bassin de Genève. Vallée inférieure du Haut-Rhône. Azindaz, au-dessus de Bex. Bassin de Bonneville. Vallée de l’Arve. Col du Bonhomme, à 2,300 m. Bassin de Moutiers. Vallée de la Haute-Isère. Petit-St-Bernard, à 2,000 m. Vallée du Doron. Col de la Valnoise, à plus de 3,000 m.” (Swiss Alps).
- Syntypes: SMF No. 170130/3.
- Dimensions: H up to 3, D up to 6 mm.
- Distribution: Ukrainian Carpathians (Likharev, Schileyko, MS).

***Semilimax*** Agassiz, 1845

Type species: *Helix semilimax* Férussac, 1802 (SD Hesse, 1923)

***Semilimax kotulae*** (Westerlund, 1883)

Fig. 72 D

*Vitrina kotulae* Westerlund, 1883: 54-55.

- Type locality: “Galicia in M. Tatra, 900-2200’ s. m.” (Poland).

- Types: unknown.
- Dimensions: H up to 2.3, D up to 6.0 mm.
- Distribution: Carpathians in Ukraine (Likharev, Schileyko, MS).

***Semilimax semilimax*** (Férussac, 1802)

Fig. 72 E

[= *Vitrina elongata* Draparnaud, 1805]

*Helix semilimax* Férussac, 1802: 236, pl. 1, figs. A-D.

- Type locality: Switzerland, Billafingen near Baden.
- Types: unknown.
- Dimensions: H up to 2.4, D up to 5.5 mm.
- Distribution: Carpathians in Ukraine (Likharev, Schileyko, MS).

GASTRODONTIDAE Tryon, 1868

***Zonitoides*** Lehmann, 1862

Type species: *Helix nitida* Müller, 1774 (monotypy)

***Zonitoides arboreus*** (Say, 1816)

Fig. 73 A

*Helix arboreus* Say, 1816: sp. no. 2, pl. 4, fig. 4.

- Type locality: North America.
- Types: unknown.
- Dimensions: H up to 3, D up to 6 mm.
- Distribution: Kamchatka; introduced to parks and gardens of Eastern Hemisphere (Likharev, Rammelmeyer, 1952; Likharev, Schileyko, MS).
- Remark: Differs from *Z. nitidus* by absence of spiral lines.

***Zonitoides nitidus*** (Müller, 1774)

Fig. 73 B

*Helix nitida* Müller, 1774: 32.

- Type locality: Fridrichsdal (vicinities of Copenhagen, Denmark).
- Types: unknown.
- Dimensions: H up to 4, D up to 7 mm.
- Distribution: Holarctic (Likharev, Schileyko, MS).
- Remark: Differs from *Z. arboreus* by presence of fine spiral lines.

EUCONULIDAE H. Baker, 1928

***Discoconulus*** Reinhardt, 1883

Type species: *Hyalina sinapidium* Reinhardt, 1877 (SD Pilsbry, 1928)

***Discoconulus sinapidium*** (Reinhardt, 1877)

Fig. 73 C

*Hyalina sinapidium* Reinhardt, 1877c: 318, pl. 10, fig. 5.

- Type locality: “Yedo, Uweno, Nikkobirge” (Japan).
- Types: unknown.
- Dimensions: H up to 0.7, D up to 1.2 mm.
- Distribution: southern Primorye Territory (Likharev, Schileyko, MS).

***Euconulus*** Reinhardt, 1883

Type species: *Helix fulva* Müller, 1774 (SD Pilsbry in Pilsbry et Ferriss, 1910)

***Euconulus fulvus*** (Müller, 1774)

Fig. 73 D

[= *Helix trochiformis* Montagu, 1803; *Helix fulva* var. *alderi* Gray in Turton, 1840]

*Helix fulva* Müller, 1774: 56-57.

- Type locality: Fridrichsdal (vicinities of Copenhagen).
- Types: unknown.
- Dimensions: H up to 2.5, D up to 3.5 mm.
- Distribution: Holarctic (Likharev, Schileyko, MS).

**ARIOPHANTIDAE** Godwin-Austen, 1888

***Macrochlamys*** Benson, 1832

Type species: *Helix* (?) *petrosa* Hutton, 1834 (SD Blanford, Godwin-Austen, 1908)

***Macrochlamys clessini*** Westerlund, 1902

Fig. 74 D

[= *Macrochlamys schmidti* Clessin, 1894 nom. praecoc., non Brancsik, 1891; *Macrochlamys kasachstani* Tzvetkov, 1940]

Westerlund, 1902: 19, 35 (nom. nov. pro *Macrochlamys schmidti* Clessin, 1894, non Brancsik, 1891).

- Type locality: Ketmen Ridge, gorge near Podgorny Vyselok.
- Types: unknown.
- Dimensions: H up to 8.0, D up to 17.8 mm.
- Distribution: Northern Tien-Shan (Likharev, Schileyko, MS).

***Macrochlamys kasnakowi*** (Westerlund, 1898)

Fig. 74 A

[= *Hyalinia maureri* Rosen, 1901; *Macrochlamys lindbergi* Likharev et Starobogatov, 1967]

*Hyalinia kasnakowi* Westerlund, 1898: 155.

- Type locality: “Turkestan, Sary-Pu”.
- Syntypes: ZIN.
- Dimensions: H up to 4.5, D up to 9.0 mm.

- Distribution: Southern Tien-Shan, Alai, Pamir, Hindu Kush (Likharev, Schileyko, MS).

***Macrochlamys sogdiana*** (Martens, 1871)

Fig. 74 B

[= *Macrochlamys coeligena* Gude, 1902]

*Helicarion sogdianus* Martens, 1871: 65, pl. 1, figs. 1-3.

- Type locality: “Turkestan, Fedchenko expedition”.
- Lectotype (Muratov, 1991): ZMMU No. Lc-1076.
- Dimensions: H up to 12, D up to 24 mm.
- Distribution: Tien-Shan, Pamir, Ferghana valley, valleys of Zaravshan, Syr-Daria and Amu-Daria rivers (Likharev, Schileyko, MS).

***Macrochlamys turanica*** Martens, 1874

Fig. 74 C, E, F

[= *Macrochlamys schmidti* Brancsik, 1891; *Macrochlamys koschinskii* Westerlund, 1896; *Hyalinia retteri* Rosen, 1901; *Parvatella issikensis* Cockerell, 1928]

Martens, 1874: 7, pl. 1, fig. 3.

- Type locality: “Aksay-Tau, Fedchenko expedition”.
- Lectotype (Muratov, 1991): ZMMU No. Lc-3785.
- Dimensions: H up to 9, D up to 20 mm.
- Distribution: Tien-Shan and northern foothills of Pamir (Likharev, Schileyko, MS).

**AGRIOLIMACIDAE** H. Wagner, 1935

***Deroceras*** Rafinesque, 1820

Type species: *Limax gracilis* Rafinesque, 1820 (= *Limax laevis* Müller, 1774) (monotypy)

***Deroceras agreste*** (Linnaeus, 1758)

Fig. 75 A

[= *Agriolimax fedtschenkoi* Koch et Heynemann, 1874; *Agriolimax transcaucasicus coeciger* Simroth, 1901]

*Limax agrestis* Linnaeus, 1758: 652.

- Type locality: not stated.
- Types: unknown.
- Dimensions: L up to 40 (35) mm.
- Distribution: almost everywhere (Likharev, Schileyko, MS).

***Deroceras altaicum*** (Simroth, 1886)

[= *Agriolimax buchar* var. *coeciger* Simroth, 1910; *Agriolimax altaicus* var. *transitorius* Waldén, 1957]

*Agriolimax altaicus* Simroth, 1886: 28, pl. 1, fig. 14.

- Type locality: Altai.
- Types: unknown.

- Dimensions: L up to (30) mm.
- Distribution: Western Tien-Shan (Kirgiz and Zailijskij Alatau), Dzungar Ridge, Altai, Sayan, Cisbaikalia and Transbaikalia, Amur Region, Primorye Territory, Kamchatka, Sakhalin, Kurile Islands (Likharev, Schileyko, MS); Caucasus (Kabardino-Balkaria) (Wiktor, Jurkowska, 2007).
- Remark: Very similar to *D. agreste*, externally differs mainly by more intensive coloration; perhaps, this is a form of the latter.

***Deroceras bakurianum*** (Simroth, 1912)

Fig. 75 B

[= *Agriolimax schemachensis* Simroth, 1912]

*Agriolimax bakurianus* Simroth, 1912: 40, pl. 3, fig. 34, pl. 7, fig. 23.

- Type locality: Bakuriani (Georgia).
- Lectotype (Likharev, Wiktor, 1980): ZIN.
- Dimensions: L up to (20) mm.
- Distribution: forest areas of Transcaucasia, Daghestan near Tlyarata (Likharev, Schileyko, MS); Western Caucasus: Sochi, Crimea (Wiktor, Jurkowska, 2007).

***Deroceras caucasicum*** (Simroth, 1901)

Fig. 75 C, 83 A, B

[= *Agriolimax dymczewiczii* sensu Simroth, 1901, non Kaleniczenko, 1851; *Agriolimax caspius* Simroth, 1901; *Lytotelte grusina* Simroth, 1901; *Lytotelte caucasica armenia* Akramowski, 1948; *Deroceras hamatus* Skljär, 1975]

*Lytotelte caucasicus* Simroth, 1901: 171, pl. 17, figs. 5-14.

- Type locality: Lagodekhi, valley of left tributary of Alazani River.
- Lectotype (Likharev, Wiktor, 1980): ZIN.
- Dimensions: L up to (40) mm.
- Distribution: central and eastern Caucasus (Likharev, Schileyko, MS); introduced to Central Asia (Likharev, Wiktor, 1980) and southern Far East (vicinities of Vladivostok, eastward to Nakhodka, northward to Ussuriisk) (Chernyshev, 1999, 2006); Crimea, Donetsk City (Sverlova, 2006).

***Deroceras ilium*** (Simroth, 1901)

*Agriolimax ilium* Simroth, 1901: 159, pl. 15, figs. 29-32.

- Type locality: Il mountain (current name: Sapitskaya Budka) near Vladikavkaz.
- Lectotype (Likharev, Wiktor, 1980): ZIN.
- Dimensions: L up to 40 (25).
- Distribution: upper reaches of the Terek, Podkumok, Kodori rivers and upper reaches of eastern tributaries of the Kuban River (Likharev, Schileyko, MS).
- Remark: Very similar to *D. osseticum*, but in *D. osseticum* the head and neck are either white or only slightly pigmented whereas in *D. ilium* these parts are covered by intensive gray patina.

***Deroceras laeve*** (Müller, 1774)

Fig. 75 D

[= *Limax gracilis* Rafinesque, 1820; *Limax hyperboreus* Westerlund, 1876; *Agriolimax pseudodioicus* Velitchkovsky, 1910; *Deroceras schulzji* Tzvetkov et Matyokin, 1946]*Limax laevis* Müller, 1774: 1-2.

- Type locality: Fridrichsdal (vicinities of Copenhagen).
- Types: unknown.
- Dimensions: L up to 25 (17) mm.
- Distribution: Holarctic (Likharev, Schileyko, MS).

***Deroceras moldavicum*** (Grossu et Lupu, 1961)

Fig. 75 E

*Lytotelte moldavicum* Grossu, Lupu, 1961: 28, figs. 1-2.

- Type locality: Sukevitsa (Suchava district, northern Romania).
- Holotype: NHMB No. 13166.
- Dimensions: L up to 35 (23) mm.
- Distribution: Ukraine: Carpathians (Zakarpatskaya and Ivano-Frankovsk regions) (Likharev, Schileyko, MS); Lvov, near-Dniester areas of Ternopol and Chernovtzy regions (Sverlova, 2006).

***Deroceras occidentalis*** (Grossu et Lupu, 1966)*Lytotelte occidentalis* Grossu, Lupu, 1966: 25, figs. 1-3.

- Type locality: Styna-de-Vale, Bikhor mountain (western Romania).
- Holotype: NHMB No. 3139.
- Dimensions: L up to (17) mm.
- Distribution: south-western part of Ukrainian Carpathians (Zakarpatskaya and Ivano-Frankovsk regions) and Chernovtzy District (Baidashnikov, 1989).

***Deroceras osseticum*** (Simroth, 1901)

Fig. 75 F

[= *Agriolimax subagrestis* var. *minutus* Simroth, 1901 part.]*Agriolimax osseticum* Simroth, 1901: 161, pl. 14, figs. 22-26.

- Type locality: Tkibuli (Western Georgia).
- Lectotype (Likharev, Wiktor, 1980): ZIN.
- Dimensions: L up to 40 (30) mm.
- Distribution: western part of North Caucasus and western Transcaucasia (Likharev, Schileyko, MS); Adzharia: Batumi (Wiktor, Jurkowska, 2007).
- Remark: Externally differs from all other species of the genus by dark pattern formed by rather large spots that located on upper surface in such a way that middle part of back and lower part of sides remain free from these spots; besides, there is a peculiar “white” pattern formed by hypodermic calcareous particles.



***Deroceras praecox*** Wiktor, 1966

Fig. 75 G

Wiktor, 1966: 449, figs. 1-10, 15, 16.

- Type locality: Pokshyvna, eastern Sudetes, Poland.
- Holotype: Natural History Museum of Wrocław.
- Dimensions: L up to 40 mm.
- Distribution: probably western Ukraine (Likharev, Schileyko, MS).
- Remark: Externally differs from all other species of the genus by the coloration: living slugs snowy-white, sometimes unicolor, but mostly with scattered, rather large, reddish-brown or dark-brown spots. In alcohol specimens the coloration is light-creamy.

***Deroceras reticulatum*** (Müller, 1774)

Fig. 75 H, 83 C-E

[= *Agriolimax agrestis* auct., non Linnaeus, 1758]

*Limax reticulatus* Müller, 1774: 10.

- Type locality: Rosenburg, Fridrichsdal (Denmark).
- Types: unknown.
- Dimensions: L up to 45 (30) mm.
- Distribution: Arkhangelsk, Leningrad, Pskov, Novgorod, Yaroslavl, Moscow, Tula, Penza, Orel, Kursk, Saratov and Chelyabinsk regions; Tatarstan; Estonia (Tallinn); Lithuania (Šiaulai district); nearly entire Ukraine (Sverlova, 2006); North Caucasus (Maikop, Vladikavkaz); Transcaucasia (Erevan); Kazakhstan (Alma-Ata); Central Asia (Khamzabad, Ferghana district) (Likharev, Schileyko, MS).

***Deroceras rodnae*** Grossu et Lupu, 1965

Fig. 76 A, 83 F

Grossu, Lupu, 1965: 28, fig. 2.

- Type locality: Inau mountain, Rodna block, Eastern Carpathians, Romania.
- Holotype: NHMB No. 13135.
- Dimensions: L up to 45 (32) mm.
- Distribution: Ukraine: Carpathians including adjacent areas of Ciscarpathia and Transcarpathia (Sverlova, 2006).
- Remark: Externally similar to *D. praecox*, differs by creamy color with pattern of minute spots forming a network.

***Deroceras sturanyi*** (Simroth, 1894)

Fig. 76 B

[= *Agriolimax laevis* auct., non Müller, 1774]

*Agriolimax sturanyi* Simroth, 1894: 392, pl. 19, figs. 5, 6.

- Type locality: vicinities of Ohrid Lake (Yugoslavia).
- Lectotype (Likharev, Wiktor, 1980): NHMV No. 19493b.
- Dimensions: L up to 38 (20) mm.
- Distribution: northwestern Ukraine, Carpathians, lower reaches of Dniester (Odessa Region), Energodar City (Zaporozhje Region) (Sverlova, 2006); sporadically in Mos-

cow and Voronezh regions; gardens, greenhouses and botanical gardens of Alma-Ata (Uvalieva, 1979), St.-Petersburg, Chelyabinsk, Rostov-on-Don, Khodzhen and Khorog area (Likharev, Schileyko, MS).

- Remark: Similar to *D. leave*, externally differs mainly by one character: specimens of *D. leave* in alcohol have minute dark spots whereas *D. sturanyi* lacks such spots.

### ***Deroceras subagreste*** (Simroth, 1892)

Fig. 76 C

[= *Agriolimax agresticulus* Simroth, 1894; *Agriolimax ananovi* Simroth, 1901]

*Agriolimax subagrestus* Simroth, 1892: 43.

- Type locality: Maikop.
- Syntypes: ZMB No. 45704.
- Dimensions: L up to 45 (35) mm.
- Distribution: North Caucasus; introduced to greenhouses of Pushkin (Leningrad Region), Rostov-on-Don and gardens of Tashkent (Likharev, Schileyko, MS); Abkhasia (Wiktor, Jurkowska, 2007).
- Remark: Similar to *D. bakuianum*, externally the two species differ by coloration: in *D. subagreste* dark spots on mantle and back are widely spaced (sometimes there are only a few spots) whereas in *D. bakuianum* these spots are well developed and form a dense network or they are nearly fused, and slugs look like uniformly dark-chocolate or even black.

### ***Deroceras tauricum*** (Simroth, 1901)

Fig. 84 A

[= *Agriolimax dymczewiczii* sensu Simroth, 1885, non Kaleniczenko, 1851; *Agriolimax crimense* Simroth, 1901; *Deroceras ramosus* Skljjar, 1975]

*Agriolimax tauricum* Simroth, 1901: 153, fig. 7.

- Type locality: mountain Crimea.
- Types: unknown.
- Dimensions: L up to (35) mm.
- Distribution: forest and forest-steppe areas of Crimea (Likharev, Schileyko, MS).

### ***Deroceras turcicum*** (Simroth, 1894)

*Agriolimax turcicum* Simroth, 1894: 392, pl. 19, figs. 2-5.

- Type locality: "Ochrida-See".
- Lectotype (Likharev, Viktor, 1980): NHMV No. 19491.
- Dimensions: L up to (32) mm.
- Distribution: Ukraine: Podolsk Hills, area between Prut and Dniester rivers (Sverlova, 2006).

### ***Krynickillus*** Kaleniczenko, 1851

Type species: *Krynickillus melanocephalus* Kaleniczenko, 1851 (SD Pilsbry, 1922)

### ***Krynickillus melanocephalus*** Kaleniczenko, 1851

Fig. 84 B, C

Kaleniczenko, 1851: 221, pl. 5, fig. 2.

- Type locality: vicinities of Stavropol.
- Types: unknown.
- Dimensions: L up to 45 mm.
- Distribution: almost entire Caucasus, forests of Stavropol Territory, mountain part of Crimea (Likharev, Schileiko, MS); Kiev, Lvov and vicinities of Yasinovataya town (Donetsk Region) in Ukraine (Sverlova, 2006); Latvia (Wiktor, Jurkowska, 2007).

***Lytopelte*** O. Boettger, 1886

Type species: *Amalia longicollis* O. Boettger, 1886 (= *Amalia maculata* Koch et Heynemann in Martens, 1874) (monotypy)

***Lytopelte maculata*** (Koch et Heynemann in Martens, 1874)

[= *Amalia longicollis* O. Boettger, 1886; *Lytopelte transcaspia* Rosen, 1894; *Deroceras kandabarensis* Altena, 1970]

*Amalia maculata* Koch et Heynemann – Martens, 1874: 2, pl. 1, fig. 4, pl. 3, fig. 35.

- Type locality: vicinities of Samarkand.
- Types: unknown.
- Dimensions: L up to 35 (26) mm.
- Distribution: Caucasus (Lenkoran lowland and foothills of Talysh); two findings on south slope of Great Caucasus (Akhsu, Padar); Central Asia (fruit-forests of Fergana Ridge, valleys of Zeravshan, Vakhsh and Pyandzh rivers); Western Kopet Dagh (Likharev, Schileiko, MS).

***Megalopelte*** Lindholm, 1914

Type species: *Megalopelte simrothi* Lindholm, 1914 (monotypy)

***Megalopelte simrothi*** Lindholm, 1914

Fig. 76 D

Lindholm, 1914b: 167.

- Type locality: Dzansul (Murgut-Su river basin, Chorokh vilayet, Northeastern Turkey).
- Types: unknown.
- Dimensions: L up to 25 (20) mm.
- Distribution: Batumi Botanical Garden (Adzharia); off Akarmara village near Tkvarcheli (Abkhazia) (Likharev, Schileiko, MS).

**BOETTGERILLIDAE** Goethem, 1972

***Boettgerilla*** Simroth, 1910

Type species: *Boettgerilla compressa* Simroth, 1910 (monotypy)

***Boettgerilla compressa*** Simroth, 1910

Simroth, 1910: 531, pl. 7, figs. 29-33.

- Type locality: Verkhnyaya Tzebelda (Abkhazia).
- Lectotype (Likharev, Wiktor, 1980): ZIN.

- Dimensions: L up to 55 (30) mm.
- Distribution: type locality and near Kutaisi on ruins of Bagrat Castle (Likharev, Schileyko, MS).

***Boettgerilla pallens*** Simroth, 1912

Fig. 76 E, 84 D

[= *Boettgerilla vermiformis* Wiktor, 1959]

Simroth, 1912: 55, pl. 3, fig. 50, pl. 8, fig. 32.

- Type locality: Gudauta (Abkhazia)
- Holotype: ZIN.
- Dimensions: L up to 60 (30) mm.
- Distribution: in nature: Abkhazia, western Georgia near Lentekhi and Upper Svane-tia; Ciscarpathia (Baidashnikov, 1988); parks and gardens of Moscow, Vyborg, St.-Petersburg, Lvov, Ivano-Frankovsk, Chernovtzy, Kiev, Sochi, Vladikavkas, Erevan, Chelyabinsk (Likharev, Schileyko, MS; Sverlova, 2006); Varzobskaya botanical station on Hissar Ridge (Tajikistan) (Likharev, Izzatulaev, 1972); Vyatka River basin (Shikhova, 2004).
- Remark: Differs from *B. compressa* by creamy or brownish coloration (*B. pallens* is light-to bluish-gray or ash-steely).

LIMACIDAE Rafinesque, 1815

LIMACINAE Rafinesque, 1815

***Caspilimax*** P. Hesse, 1926

Type species: *Limax keyserlingi* Martens, 1880 (OD)

***Caspilimax keyserlingi*** (Martens, 1880)

Fig. 76 F

[= *Limax tigris* O. Boettger, 1886; *Limax talyschanus* O. Boettger, 1886; *Limax baeri* Simroth, 1898; *Gigantomilax robustus* Simroth, 1901; *Limax persicus* Simroth, 1910]

*Limax keyserlingi* Martens, 1880a: 396<sup>1</sup>.

- Type locality: Astrabad (now Gorgan, Northern Iran).
- Holotype: ZIN.
- Dimensions: L up to 115 (80) mm.
- Distribution: forests of Talysh and Lenkoran lowland, sporadically in Khudat and Izmail districts (Likharev, Schileyko, MS).

<sup>1</sup> In 1880, the paper of Martens "Aufzählung der von Dr. Alexander Brandt ..." was published twice: in the *Mélanges Biologiques...* (Martens, 1880a) and in the *Bulletin de l'Académie Impériale des Sciences de St. Pétersbourg*, 26: 142-158. The date of publication of the former was «Septembre 1880», that of the latter – «Octobre 1880». Four species were described as new: *Limax keyserlingi*, *Limax brandti*, *Parmacella velitaris*, and *Helix talyschana*. In Russian literature they are usually cited as having been described in the second publication (e.g., Schileyko, 1978b; Likharev, Wiktor, 1980).

**Caucasolimax** Likharev et Wiktor, 1980

Type species: *Limax caucasicus* Simroth, 1898 (OD)

**Caucasolimax caucasicus** (Simroth, 1898)

[= *Limax ananovi* Simroth, 1898; *Limax amaloides* Simroth, 1898; *Limax ananovi* var. *alticola* Simroth, 1912; *Limax svaneticus* Simroth, 1912]

*Limax caucasicus* Simroth, 1898: 55.

- Type locality: Mayorsha mountain, Kazbek.
- Holotype: ZIN.
- Dimensions: L up to 45 (35) mm.
- Distribution: central part of Great Caucasus (Likharev, Schileyko, MS).

**Gigantomilax** O. Boettger, 1883

Type species: *Amalia (Gigantomilax) lederi* O. Boettger, 1883 (monotypy)

**Gigantomilax brunneus** (Simroth, 1901)

Fig. 76 G

*Monochroma brunneus* Simroth, 1901: 96, pl. 6, figs. 1-18.

- Type locality: Nagornyi Karabakh, Karagjol Lake.
- Lectotype (Likharev, Wiktor, 1980): ZIN.
- Dimensions: L up to 70 (45) mm.
- Distribution: Zangezour mountain system (Likharev, Schileyko, MS).

**Gigantomilax daghestanus** (Simroth, 1898)

[= *Limax florenskii* Simroth, 1912]

*Limax daghestanus* Simroth, 1898: 54.

- Type locality: Gunib (Central Daghestan).
- Types: unknown.
- Dimensions: L up to 100 (66) mm.
- Distribution: Central Daghestan (Gunib, Mekhelta, Agvali), southern Armenia (Leninakan, Vedinsky and Daralagez zoogeographical area) (Akramowski, 1971; Likharev, Schileyko, MS).
- Remark: Similar to *G. monticola* and *G. koenigi*, differs by absence of dark pattern on back and mantle.

**Gigantomilax koenigi** (Simroth, 1912)

Fig. 77 A

[= *Limax oltinus* Simroth, 1912; *Limax jailanus* Simroth, 1912]

*Limax koenigi* Simroth, 1912: 10, pl. 1, fig. 4, pl. 5, fig. 4.

- Type locality: Ker-Ogly (vilayet Erzerum, Turkey).
- Types: unknown.
- Dimensions: L up to 95 (50) mm.
- Distribution: Adzharia (valley of Machakhelis-tzkali River), Armenia (Idzhevan, Noemberyan and Vedinsky districts), Talysh (Likharev, Schileyko, MS).

***Gigantomilax lederi*** (O. Boettger, 1883)

Fig. 77 B

*Amalia* (*Gigantomilax*) *lederi* Boettger, 1883: 143, pl. 4, fig. 1.

- Type locality: Svanetia (Georgia).
- Lectotype (Likharev, Wiktor, 1980): SMF No. 155289.
- Dimensions: L up to 150 (100) mm.
- Distribution: southern slopes and offshoots of Great Caucasus from Mzymta River basin to Suram pass and Borzhomi area, Adzharo-Imereti and Shavsheti ridges, Teberda Reserve (Likharev, Schileyko, MS); Azerbaijan (Wiktor, Jurkowska, 2007).
- Remark: Differs from all other species of the genus by the biggest size.

***Gigantomilax lenkoranus*** Simroth, 1912[= *Gigantomilax talyshannus* Simroth, 1912]

Simroth, 1912: 48, pl. 3, fig. 44, pl. 7, fig. 27.

- Type locality: Kyz-Kalasi mountain, Zuvand (Talysh, Azerbaijan).
- Lectotype (Likharev, Wiktor, 1980): ZIN.
- Dimensions: L up to 95 (50) mm.
- Distribution: Talysh Ridge (southeastern Azerbaijan), near tops of Marayurt, Kyz-Yurdy, Kyz-Kalasi and Shindan-Kalasi mountains (Likharev, Schileyko, MS).
- Remark: Similar to *G. brunneus*, externally differs by bigger hood, which under contraction covers anterior end of body, whereas in *G. brunneus* the hood covers head and neck partially.

***Gigantomilax monticola monticola*** (O. Boettger, 1881)[= *Gigantomilax brunneus* Simroth, 1912; *Gigantomilax borsbomensis* Simroth, 1912]*Limax monticola* Boettger, 1881a: 180-182, pl. 7, fig. 6a-c.

- Type locality: “8000’ Höhe auf dem Taparowan in Hocharmenien” (vicinities of Paravani Lake, South Georgia).
- Holotype: SMF No. 155348/1.
- Dimensions: L up to [30] mm.
- Distribution: between Dzhavakheti, Samsar and Trialeti ridges (South Georgia) (Likharev, Schileyko, MS).

***Gigantomilax monticola armeniacus*** (Simroth, 1886)

Fig. 77 C

[= *Limax Dymczewiczii* sensu Martens, 1880, non Kaleniczenko, 1851; *Limax primitivus* Simroth, 1894; *Limax colchicus* Simroth, 1898; *Limax valentini* Simroth, 1898; *Limax ordubadensis* Simroth, 1901; *Limax incipiens* Simroth, 1912; *Limax kaznakovi* Simroth, 1912; *Limax simplex* Simroth, 1898; *Limax schmidti* Simroth, 1912; *Limax schelkownikovi* Simroth, 1912; *Limax voronovi* Simroth, 1912]*Limax armeniacus* Simroth, 1886: 27, pl. 1, figs. 4-7.

- Type locality: Sevanga peninsula, Sevan Lake (Armenia).
- Types: unknown.
- Dimensions: L up to 70 (47) mm.

- Distribution: most part of mountain systems of Lesser Caucasus (Likharev, Schileyko, MS).
- Remark: Differs from nominotypical subspecies only anatomically: in *G. m. armeniacus* the right ommatophoran retractor crosses with penial retractor, whereas in *G. m. armeniacus* these retractors do not cross one another.

***Lehmannia*** Heynemann, 1862

Type species: *Limax marginatus* Müller, 1774 (monotypy)

***Lehmannia jaroslaviae*** Grossu, 1967

[= *Lehmannia vrancensis* Lupu, 1973]

Grossu, 1967: 120-124, figs. 1-6.

- Type locality: ‘Jaroslave, vallée du Topolog, région Arges’ (Romania).
- Holotype: Grossu collection No. 1131 (NHMB).
- Dimensions: L up to 80 (40) mm.
- Distribution: a single finding near Kipriani village (Moldavia) (Likharev, Schileyko, MS).

***Lehmannia macroflagellata*** Grossu et Lupu, 1962

Grossu, Lupu, 1962: 198, figs. 9-11.

- Type locality: Pitrozul (Romania).
- Holotype: NHMB No. 13133.
- Dimensions: L up to 45 (35) mm.
- Distribution: Ukrainian Carpathians (Chernogora and Chivchin Mountains) (Likharev, Schileyko, MS; Baidashnikov, 1988).

***Lehmannia marginata*** (Müller, 1774)

Fig. 84 E

[= *Limax arborum* Bouchard-Chantereaux, 1838; *Limax livonicus* Schrenk, 1848]

*Limax marginatus* Müller, 1774: 10.

- Type locality: Fridrichsdal (vicinities of Copenhagen).
- Types: unknown.
- Dimensions: L up to 75 (40) mm.
- Distribution: Baltic countries, Karelian isthmus, Valaam Island (Ladoga Lake), Byelorussian and Ukrainian Polesye, Lvov, Ivano-Frankovsk, Ternopol, Cherkassy, Chernovtzy and Zakarpatskaya regions (Likharev, Schileyko, MS; Sverlova, 2006).

***Lehmannia valentiana*** (Férussac, 1821)

[= *Limax poirieri* Mabilie, 1883]

*Limax valentianus* Férussac, 1821: 21.

- Type locality: Valencia (Spain).
- Types: unknown.
- Dimensions: L up to 60 (46) mm.
- Distribution: gardenfarms of St.-Petersburg, Rostov-on-Don and Tashkent (Likharev, Schileyko, MS).

***Limax* Linnaeus, 1758**

Type species: *Limax maximus* Linnaeus, 1758 (SD Férussac, 1819)

***Limax bielzi* Seibert, 1873**

Seibert, 1873: 195.

- Type locality: “Mistek” [Severomoravsky Kraj, Czech Republic].
- Types: unknown.
- Dimensions: L up to 100 (65) mm.
- Distribution: vicinities of Zhornava village, Zakarpatskaya Region, Ukraine (Sverlova, 2006).

***Limax cinereoniger* Wolf, 1803**

Fig. 77 E, 84 F

[= *Limax antiquorum* Férussac, 1819 part.]

Wolf, 1803: 7.

- Type locality: Germany.
- Types: unknown.
- Dimensions: L up to 200 (140) mm.
- Distribution: Baltic countries, southern Karelia, western and central regions of European part of Russia, Byelorussia, northern and western Ukraine (Likharev, Schileyko, MS); Vyatka River basin (Shikhova, 2004).
- Remark: Keel occupies about 0.5 of back length (see Remark to *L. maximus*).

***Limax flavus* Linnaeus, 1758**

Fig. 77 D, 85 E

[= *Limax variegatus* Draparnaud, 1801]

Linnaeus, 1758: 652.

- Type locality: not stated.
- Types: unknown.
- Dimensions: L up to 120 (80) mm.
- Distribution: cellars, basements and greenhouses of Moscow, Kaliningrad, Tartu, Saratov, Yalta and Rostov-on-Don (Likharev, Schileyko, MS); Odessa, Zmeinyi Island in Black Sea (Sverlova, 2006).

***Limax maculatus* (Kaleniczenko, 1851)**

Fig. 85 C, D

[= *Limax variegatus* sensu Moquin-Tandon, 1855, non Draparnaud, 1801; *Limax ecarinatus* O. Boettger, 1881; *Limax grossii* Lupu, 1970]

*Krynckillus maculatus* Kaleniczenko, 1851: 226, pl. 6, fig. 2.

- Type locality: Kutchuk-Koi (now Kiparisnoe, southern coast of Crimea).
- Types: unknown.
- Dimensions: L up to 120 (80) mm.



- Distribution: mountain Crimea and Caucasus; cellars and greenhouses of Pushkin, St.-Petersburg, Sevastopol, Vladikavkaz, Tbilisi and Astrakhan (Likharev, Schileyko, MS); urbanized biotopes in Ukraine: in Nikolaev, Odessa, Zaporozhje, Berdyansk, Donetsk, Novoazovsk, Belozersk District of Kherson Region, northward to Vasilkov City in Kiev Region (Sverlova, 2006).

***Limax maximus*** Linnaeus, 1758

Fig. 78 A, 85 A, B

[= *Limax cinereus* Müller, 1774; *Limax antiquorum* Férussac, 1819 part.]

Linnaeus, 1758: 652.

- Type locality: not stated.
- Types: unknown.
- Dimensions: L up to 200 (140) mm.
- Distribution: a common species in parks and gardens in European part of Russia (Likharev, Schileyko, MS) and Ukraine: Lvov, Chernovtzy, Zhitomir, Vinnitza, settlements of Volyn, Ivano-Frankovsk, Chernigov, Kiev regions, forest biotopes of Slovechansko-Ovruch Range (Zhitomir Region) (Sverlova, 2006).
- Remark: Similar to *L. cinereoniger*, externally differs by shorter keel that occupies no more than 1/3 of back length.

***Malacolimax*** Malm, 1868

Type species: *Limax tenellus* Müller, 1774 (monotypy)

***Malacolimax tenellus*** (Müller, 1774)

Fig. 78 B

[= *Limax serotinus* Schrenk, 1848]

*Limax tenellus* Müller, 1774: 11.

- Type locality: Fridrichsdal (vicinities of Copenhagen).
- Types: unknown
- Dimensions: L up to 50 (35) mm..
- Distribution: northwestern, western and central areas of European part of Russia (Likharev, Schileyko, MS); western, northwestern and northern Ukraine (Sverlova, 2006).

***Turcomilax*** Simroth, 1901

Type species: *Gigantomilax (Turcomilax) nanus* Simroth, 1901 (monotypy)

***Turcomilax ferganus*** (Simroth, 1910)

Fig. 78 C

*Gigantomilax ferganus* Simroth, 1910: 528, pl. 7, figs. 22-25.

- Type locality: eastern slope of Chatkal Ridge.
- Lectotype (Likharev, Wiktor, 1980): ZIN.
- Dimensions: L up to 100 (55) mm.
- Distribution: Chatkal Ridge (Likharev, Schileyko, MS).

***Turcomilax nanus*** (Simroth, 1901)

Fig. 78 D

[= *Gigantomilax abramovi* Simroth, 1910; *Gigantomilax pischpekinsis* Simroth, 1910]*Gigantomilax (Turcomilax) nanus* Simroth, 1901: 177, pl. 19, figs. 15-20.

- Type locality: Arslanbob, Baubash-Ata Mount (Ferghana Ridge).
- Lectotype (Likharev, Wiktor, 1980): ZIN.
- Dimensions: L up to 90 (45) mm.
- Distribution: Ferghana, Chatkal and Kirgiz ridges (Likharev, Schileyko, MS).

***Turcomilax natalianus*** (Michaelis, 1892)

Fig. 78 E

[= *Lebmania stummeri* Simroth, 1910; *Gigantomilax iliensis* Altena, 1954]*Limax natalianus* Michaelis, 1892: 31. fig. 3.

- Type locality: mountains of eastern Kazakhstan.
- Lectotype (Likharev, Wiktor, 1980): ZIN.
- Dimensions: L up to 100 (50) mm.
- Distribution: Kirgiz, Kungei, Dzungar and Tarbagatai ridges (Central Asia) (Likharev, Schileyko, MS).

***Turcomilax turkestanus*** (Simroth, 1898)

Fig. 78 F

[= *Limax dengis* Simroth, 1910]*Limax turkestanus* Simroth, 1898: 54.

- Type locality: “Turkestan”.
- Types: unknown.
- Dimensions: L up to 100 (55) mm.
- Distribution: vicinities of Przhevalsk (Terskei-Alatau); Zailijskij Alatau; Zhetyzhol Ridge (Likharev, Schileyko, MS).

***Turcomilax tzvetkovi*** Likharev et Wiktor, 1980

Fig. 78 G

Likharev, Wiktor, 1980: 258, figs. 309, 310.

- Type locality: 12 km from Turgen village, Alma-Ata Region, Zailijskij Alatau.
- Holotype: ZIN.
- Dimensions: L up to 61 (40) mm.
- Distribution: Turgen ravine (eastern part of Zailijskij Alatau) (Likharev, Schileyko, MS).

**EUMILACINAE** Likharev et Wiktor, 1980***Eumilax*** O. Boettger, 1881Type species: *Limax (Milax) Brandti* Martens, 1880 (OD)

***Eumilax brandti*** (Martens, 1880)

Fig. 78 H, 85 F, G

[= *Paralimax multirugatus* O. Boettger, 1888; *Paralimax marmoratus* Simroth, 1901; *Paralimax niger* Simroth, 1901; *Paralimax salamandroides* Simroth, 1901; *Paralimax gyratus* Simroth, 1901; *Paralimax gracilis* Simroth, 1901; *Paralimax ochraceus* Simroth, 1901; *Paralimax albocarinatus* Simroth, 1901; *Eumilax brandti* var. *ciscaucasica* Rosen, 1901; *Eumilax ka-lischewskii* Simroth, 1910]

*Limax (Milax) brandti* Martens, 1880a: 380.

- Type locality: Borzhomi.
- Types: unknown.
- Dimensions: L up to 250 (150) mm.
- Distribution: mountain forests and meadows on south slopes of Great Caucasus, Suram, Trialeti, Adzharo-Imereti and Shavsheti chains of Lesser Caucasus (Likharev, Schileyko, MS).

***Eumilax intermittens*** (O. Boettger, 1883)

Fig. 78 I

[= *Paralimax raddei* Simroth, 1901; *Paralimax minutus* Simroth, 1901; *Paralimax orientalis* Simroth, 1912; *Paralimax griseus* Simroth, 1912]

*Limax intermittens* Boettger, 1883: 145, pl. 4, fig. 7.

- Type locality: Kutaisi.
- Types: unknown.
- Dimensions: L up to (38) mm.
- Distribution: mountain forests and meadows on south and north offshoots of Great Caucasus (Likharev, Schileyko, MS).

***Metalimax*** Simroth, 1896

Type species: *Metalimax elegans* Simroth, 1901 (monotypy)

***Metalimax elegans*** Simroth, 1901

Simroth, 1901: 94, pl. 6, figs. 1-6.

- Type locality: Tkibuli (Western Georgia).
- Holotype: ZIN.
- Dimensions: L up to (40) mm.
- Distribution: southern offshoots of Great Caucasus (Rachinsky, Zgriisky and Kodor ridges) in western Georgia and Abkhazia (Tkibuli, Tzageri, Tkvarcheli) (Likharev, Schileyko, MS).

***Metalimax varius*** (O. Boettger, 1884)

Fig. 79 A

[= *Paralimax reibischi* Simroth, 1892]

*Paralimax varius* Boettger, 1884: 147.

- Type locality: Psyrtskha (near Novyi Afon, Abkhazia).
- Types: unknown.

- Dimensions: L up to 60 (35) mm.
- Distribution: mountain and foothill forests of northwestern Great Caucasus; green-houses of Sochi and Rostov-on-Don (Likharev, Schileyko, MS).

## LIMACOPSIDAE Gerhardt, 1936

### **Bielzia** Clessin, 1887

Type species: *Limax coeruleus* M. Bielz, 1851 (monotypy)

### **Bielzia coeruleus** (M. Bielz, 1851)

Fig. 79 B, 86 D

[= *Limax schwabi* Frauenfeld, 1864]

*Limax coeruleus* M. Bielz, 1851: 14.

- Type locality: South Carpathians (Romania).
- Types: unknown.
- Dimensions: L up to 105 (90) mm.
- Distribution: Ukrainian Carpathians (Likharev, Schileyko, MS); sporadically on plains of Ukraine: area between Prut and Dniester rivers, western Podolsk Hills, vicinities of Vinnitza and Kiev (Sverlova, 2006).

## TRIGONOCHLAMYDIDAE Hesse, 1882

## TRIGONOCHLAMYDINAE Hesse, 1882

### **Boreolestes** Schileyko et Kijashko, 1999

Type species: *Boreolestes likharevi* Schileyko et Kijashko, 1999 (OD)

### **Boreolestes likharevi** Schileyko et Kijashko, 1999

Fig. 79 C

Schileyko, Kijashko, 1999: 40-41, figs. 1, 2.

- Type locality: Northwestern Caucasus, Oschten-Fischt Mountains, west-facing slope of Mount Oshten.
- Holotype: ZIN.
- Dimensions: L up to (10.6) mm.
- Distribution: North-Western Caucasus, Oschten-Fischt Mountains (Schileyko, Kijashko, 1999).

### **Boreolestes sylvestris** Kijashko in Schileyko et Kijashko, 1999

Fig. 79 D

Schileyko, Kijashko, 1999: 41-43, figs. 3, 4.

- Type locality: Northwestern Caucasus, Molchepa riverside (right tributary of Belaya River), 6 km from Ghooseriple.

- Holotype: ZIN.
- Dimensions: L up to (10.0) mm.
- Distribution: North-Western Caucasus, upper part of Belaya River basin (Schileyko, Kijashko, 1999).

***Drilolestes*** Lindholm, 1925

Type species: *Pseudomilax retowskii* O. Boettger, 1884 (OD)

***Drilolestes retowskii*** (O. Boettger, 1884)

Fig. 79 E

[= *Pseudomilax reibischi* Simroth, 1901; *Pseudomilax ananowi* Simroth, 1901; *Pseudomilax orientalis* Simroth, 1912]

*Pseudomilax retowskii* Boettger, 1884: 146.

- Type locality: Psyrtskha near Novyi Afon (Abkhazia).
- Types: unknown.
- Dimensions: L up to (35) mm.
- Distribution: forest and alpine zones of Great Caucasus and northern offshoots of Lesser Caucasus eastward of Dzhevakheta ridge (Likharev, Schileyko, MS).

***Hyrcaolestes*** Simroth, 1901

Type species: *Parmacella velitaris* Martens, 1880 (OD)

***Hyrcaolestes velitaris*** (Martens, 1880)

Fig. 79 F

[= *Pseudomilax bicolor* O. Boettger, 1881; *Hyrcaolestes valentini* Simroth, 1901; *Hyrcaolestes armeniacus* Simroth, 1910; *Hyrcaolestes kaznakovi* Simroth, 1912; *Hyrcaolestes varius* Simroth, 1912; *Hyrcaolestes obscurus* Simroth, 1912; *Hyrcaolestes fursovi* Simroth, 1912; *Hyrcaolestes declivis* Simroth, 1912; *Chrysalidomilax sphingiformis* Simroth, 1912]

*Parmacella velitaris* Martens, 1880a: 396.

- Type locality: Astrabad (now Gorgan), northern Iran.
- Lectotype (Likharev, Wiktor, 1980): ZIN.
- Dimensions: L up to 70 (27) mm.
- Distribution: forests of Lenkoran lowland and Talysh, northern and eastern offshoots of Lesser Caucasus, southern offshoots of eastern Great Caucasus (Likharev, Schileyko, MS).

***Khostalestes*** Suvorov, 2003

Type species: *Khostalestes kochetkovi* Suvorov, 2003 (OD)

***Khostalestes kochetkovi*** Suvorov, 2003

Fig. 79 H

Suvorov, 2003: 150-152, figs. 1-3.

- Type locality: Northwestern Caucasus, Krasnodar Territory, Kavkazsky State Natural Biosphere Reserve, Khosta yew-box tree wood.

- Holotype: ZMMU No. Lc-25413.
- Dimensions: L up to (21) mm.
- Distribution: type locality.

***Lesticulus*** Schileyko, 1988

Type species: *Lesticulus nocturnus* Schileyko, 1988 (OD)

***Lesticulus nocturnus*** Schileyko, 1988

Fig. 79 I

Schileyko, 1988b: 1733, fig. 2.

- Type locality: Oficho Cave near Kumistavi village (near Tzkhaltubo, western Georgia).
- Holotype: ZMMU No. Lc-22803.
- Dimensions: L up to (10) mm.
- Distribution: type locality.

***Selenochlamys*** O. Boettger, 1883

Type species: *Selenochlamys pallida* O. Boettger, 1883 (monotypy)

Remark: Quite recently, a species of *Selenochlamys*, *S. ysbyrda*, has been described from Wales (UK) (Rowson, Symondson, 2008). The authors reasonably believe that the species is alien to the UK and has been most probably imported from some area of Caucasus. Since the natural range of *Selenochlamys* mostly coincides with the area covered in this book, it is highly probable that this species will be eventually found in its natural habitat in some Caucasian locality.

***Selenochlamys pallida*** O. Boettger, 1883

[= *Selenochlamys plumbea* Simroth, 1912]

Boettger, 1883: 142, pl. 5, fig. 1.

- Type locality: Kutaisi.
- Holotype: unknown.
- Dimensions: L up to 30 (25) mm.
- Distribution: near Kutaisi, Gelati, Tkibuli, Chikhareshi, Lentekhi (western Georgia), Tkvarcheli and Amtkel (Abkhazia) and south of Maikop (Likharev, Schileyko, MS).

***Trigono-chlamys*** O. Boettger, 1881

Type species: *Trigono-chlamys imitatrix* O. Boettger, 1881 (monotypy)

***Trigono-chlamys imitatrix*** O. Boettger, 1881

Fig. 79 G

[= *Pseudomilax lederi* O. Boettger, 1881; *Trigono-chlamys semiplumbeus* O. Boettger, 1886; *Trigono-chlamys boettgeri* Retowski, 1889; *Trigono-chlamys minor* Simroth, 1901; *Phrixolestes adsharicus* Simroth, 1901; *Phrixolestes ponticus* Simroth, 1901; *Trigono-chlamys pontica* Simroth, 1912; *Trigono-chlamys armeniaca* Simroth, 1912; *Trigono-chlamys distans* Simroth, 1912] Boettger, 1881a: 177-178, pl. 7, fig. 5a-c.

- Type locality: Kutaisi.
- Holotype: SMF No. 155442.
- Dimensions: L up to 100 (40) mm.
- Distribution: Georgia: forest zone of Adzharo-Imereti and Shavsheti ridges, southern slopes of Rachinsky ridge (near Kutaisi and Tkibuli); Armenia: subtropical microsites in Megrin and Kafan areas (Akramowski, 1976); Azerbaijan: outer slopes of Lesser Caucasus (Khanlar and Shamkhor areas), near Kusari (Likharev, Schileyko, MS).

**Troglolestes** Liovushkin et Matiokin, 1965

Type species: *Troglolestes sokolovi* Liovushkin et Matiokin, 1965 (monotypy)

**Troglolestes sokolovi** Liovushkin et Matiokin, 1965

Fig. 80 A

Liovushkin, Matiokin, 1965: 35.

- Type locality: Vorontzovskaya Cave near Sochi.
- Types: unknown.
- Dimensions: L up to 32 mm.
- Distribution: type locality.

**PARMACELLIDAE** Gray, 1860

**Candaharia** Godwin-Austen, 1888

Type species: *Parmacella rutellum* Hutton, 1849 (monotypy)

**Candaharia aethiops** (Westerlund, 1896)

[= *Parmacella korschinskii* Simroth, 1901]

*Parmacella anthiops* Westerlund, 1896: 183 (nom. err. – Lindholm, 1922a: 305).

- Type locality: along Uzun-kur-su River (Ferghana Ridge).
- Holotype: lost.
- Dimensions: L up to (45) mm.
- Distribution: Kirgiz, Ferghana, Hissar, Darvaz, Peter the Great ridges and Khorog (Pamir) (Likharev, Schileyko, MS).

**Candaharia izzatullaevi** Likharev et Wiktor, 1980

Fig. 80 B

Likharev, Wiktor, 1980: 352, color plate, fig 2, figs. 475-479.

- Type locality: off Pendzhikent (Tajikistan).
- Holotype: ZIN.
- Dimensions: L up to (32) mm.
- Distribution: type locality, near irrigation system of Botanical Garden of Tajik Academy of Sciences (Dushanbe), vicinities of Dzhizak station (Uzbekistan) (Likharev, Schileyko, MS).

***Candaharia levanderi*** (Simroth, 1901)

Fig. 80 C

[= *Parmacella kaznakovi* Simroth, 1912; *Parmacella roseni* Simroth, 1912]*Parmacella levanderi* Simroth, 1901: 203, pl. 20. figs. 4, 10, 21, 22, pl. 21, figs. 1-5.

- Type locality: Samarkand.
- Lectotype (Likharev, Wiktor, 1980): Zoological Museum of Helsinki University.
- Dimensions: L up to 100 (55) mm.
- Distribution: Alai mountain system from Zeravshan Ridge in the west to Alai Ridge and Peter the Great Ridge in the east, Chatkal Ridge (Central Asia) (Likharev, Schileyko, MS).

***Candaharia rutellum*** (Hutton, 1849)

Fig. 80 D, 86 E

[= *Parmacella kainarensis* Simroth, 1912; *Vitrina baccate* Hutton, 1849]*Parmacella rutellum* Hutton, 1849: 649.

- Type locality: Kandahar (Afghanistan).
- Types: unknown.
- Dimensions: L up to 95 (55) mm.
- Distribution: mountains and offshoots of Tien-Shan, Alai and Pamir-Darvaz mountain systems (Likharev, Schileyko, MS); environs of St.-Petersburg (Wiktor, Jurkowska, 2007).

***Parmacella*** Cuvier, 1804Type species: *Parmacella olivieri* Cuvier, 1804 (monotypy)***Parmacella ibera*** Eichwald, 1841

Fig. 80 E

[= *Parmacella olivieri* sensu Simroth, 1883, non Cuvier, 1804; *Clathropodium vitrinaeformis* Westerlund, 1897; *Parmacella simrothi* Germain, 1912]*Parmacella olivieri* var. *ibera* Eichwald, 1841: 250-251, pl. 38, figs. 1-3.

- Type locality: "in Iberia" (Georgia).
- Types: unknown.
- Dimensions: L up to 95 (65) mm.
- Distribution: western Kopet Dagh, eastern Transcaucasia, southern offshoots of Great Caucasus, northern and northeastern offshoots of Lesser Caucasus, coast of Caspian Sea from Makhachkala to Yalama, Lenkoran lowland and Talysh mountains. Introduced to Caucasian coast of Black Sea (Likharev, Schileyko, MS).

**MILACIDAE** Ellis, 1926***Milax*** Gray, 1855Type species: *Limax gagates* Draparnaud, 1801 (SD Hesse, 1926)



***Milax caucasicus*** (Simroth, 1912)

Fig. 80 F

*Amalia caucasicus* Simroth, 1912: 52, pl. 3, fig. 48, pl. 8, fig. 31.

- Type locality: Borzhomi (Georgia).
- Holotype: ZIN.
- Dimensions: L up to 45 (33) mm.
- Distribution: type locality, near Lenkoran, and offshoots of Talysh mountains (Likharev, Schileyko, MS).

***Tandonia*** Lesson et Pollonera, 1882

Type species: *Limax marginatus* Draparnaud, 1801 (non Müller, 1774) (= *Limax rusticus* Millet, 1843) (SD Hesse, 1926)

***Tandonia cristata*** (Kaleniczenko, 1851)

Fig. 80 G, 86 A

[= *Milax cristatus* var. *nanus* Grossu et Lupu, 1961]

*Krynickillus cristatus* Kaleniczenko, 1851: 225, pl. 6, fig. 1.

- Type locality: Otuz (now Shchebetovka), southern Crimea.
- Types: unknown.
- Dimensions: L up to (30) mm.
- Distribution: Sevastopol, Yalta and Simferopol (Crimea), Odessa and Uzhgorod, vicinities of Vilково in lower reaches of Danube (Likharev, Schileyko, MS; Sverlova, 2006).

***Tandonia kaleniczenkoi*** (Clessin, 1883)

Fig. 81 A, 86 B

[= *Milax dobrogicus* Grossu, 1882; *Milax samsunensis* sensu Forcart, 1953, non Forcart, 1942]

*Amalia kalenzkoi* Clessin, 1883: 39, pl. 2, fig. 11 (nom. err.).

- Type locality: Strateiz (district of Yalta).
- Types: unknown.
- Dimensions: L up to (27) mm.
- Distribution: Sevastopol, Yalta, Simferopol (Crimea) (Likharev, Schileyko, MS).

***Tandonia kusceri*** (H. Wagner, 1931)

Fig. 80 H, 86 C

[= *Milax rusticus longipenis* Grossu et Lupu, 1961; *Milax rusticus* f. *balcanicus* Grossu et Lupu, 1961; *Milax bojanensis* Hudec, 1964]

*Milax kusceri* H. Wagner, 1931: 200.

- Type locality: Svetka Petka near Niš (Serbia).
- Holotype: NHMV.
- Dimensions: L up to 100 (65) mm.
- Distribution: a park and Botanical Garden in Odessa, Nikolaev and several localities of Odessa and Nikolaev regions, Crimea NW of Simferopol (Likharev, Schileyko, MS; Sverlova, 2006; Leonov, 2007).

## PHILOMYCIDAE Gray, 1847

**Meghimatium** Hasselt, 1823

Type species: *Meghimatium striatus* Hasselt, 1823 (monotypy)

**Meghimatium bilineatum** (Benson, 1842)

Fig. 81 B

*Incilaria bilineatum* Benson, 1842: 486.

- Type locality: Chzhou-Shan (China).
- Types: unknown.
- Dimensions: L up to 90 (50) mm.
- Distribution: Primorye Territory and central part of Amur River basin (Likharev, Schileyko, MS).

## ARIONIDAE Gray, 1840

## ARIONINAE Gray, 1840

**Arion** Férussac, 1819

Type species: *Arion empiricorum* Férussac, 1819 [part. syn. *Limax ater* or *Limax rufus* Linnaeus, 1758] (SD Hesse, 1926)

**Arion ater** (Linnaeus, 1758)

[= *Arion empiricorum* Férussac, 1819 pars.]

*Limax ater* Linnaeus, 1758: 652.

- Type locality: not stated.
- Types: unknown.
- Dimensions: L up to 130 mm.
- Distribution: probably can be found in Karelia (Likharev, Schileyko, MS).

**Arion circumscriptus** Johnston, 1828

Fig. 81 D

[= *Arion bourguignati* Mabille, 1868]

Johnston, 1828: 76.

- Type locality: Europe.
- Types: unknown.
- Dimensions: L up to 40 (27) mm.
- Distribution: found near St.-Petersburg and Zheleznovodsk (North Caucasus) (Likharev, Schileyko, MS); Vyatka River basin (Shikhova, 2004); Lvov and vicinities, forest biotopes of Lvov Region, park in Vinnitza (Sverlova, 2006).

***Arion distinctus*** Mabille, 1868

Mabille, 1868: 137.

- Type locality: “Sèvres, Parc de St. Cloud” [France].
- Neotype (de Winter, 1984): Rijksmuseum van Natuurlijke Historie, Leiden, No. alc. 9120.
- Dimensions: L up to 35 (15) mm.
- Distribution: Ukraine: Lvov, Ivano-Frankovsk, Zhitomir, vicinities of Pustomyty town (Lvov Region), probably Uzhgorod and Kiev (Sverlova, 2006).

***Arion fasciatus*** (Nilsson, 1822)

Fig. 81 E, 86 F

[= *Arion nilssoni* Pollonera, 1887]

*Limax fasciatus* Nilsson, 1822: 3-5.

- Type locality: Lund (Sweden).
- Types: unknown.
- Dimensions: L up to 50 (32) mm.
- Distribution: found in Moscow, Tver, Lipetzk, Orel, Kursk, Pskov, Kaluga, Ivano-Frankovsk, Zakarpatskaya, Chenovtzy, Lvov, Ternopol, Kiev regions, near St.-Petersburg, Arkhangelsk and Kiev, parks of Vinnitza (Likharev, Schileyko, MS; Sverlova, 2006); Vyatka River basin (Shikhova, 2004).

***Arion hortensis*** Férussac, 1819

Fig. 82 A

Férussac, 1819: 65-66, pl. 2, figs. 4-5.

- Type locality: “montagnes des env. de Clermont (Oise)” (France).
- Lectotype (de Winter, 1984): MNHN.
- Dimensions: L up to 35 (16) mm.
- Distribution: a single finding near Uzhgorod (Zakarpatskaya Region) (Likharev, Schileyko, MS).

***Arion rufus*** (Linnaeus, 1758)

Fig. 81 C

[= *Arion empiricorum* Férussac, 1819 pars]

*Limax rufus* Linnaeus, 1758: 652.

- Type locality: not stated.
- Types: unknown.
- Dimensions: L up to 150 (80) mm.
- Distribution: near Pushkino and Kuskovo (Moscow Region) and southern Karelia near Sandal Lake (Likharev, Schileyko, MS).

***Arion sibiricus*** Simroth, 1901

Fig. 82 B

Simroth, 1901: 53, pl. 2, figs. 1-6.

- Type locality: Irkutsk.
- Lectotype (Likharev, Wiktor, 1980): ZIN.
- Dimensions: L up to (30) mm.
- Distribution: Central and Eastern Siberia, middle and southern parts of Amur River basin, Primorye Territory, Sakhalin and Kunashir Island (Likharev, Schileyko, MS).

***Arion silvaticus*** Lohmander, 1937

Fig. 82 C

*Arion circumscriptus* var. *silvaticus* Lohmander, 1937: 94, figs. 10-11.

- Type locality: Southern Sweden.
- Types: unknown.
- Dimensions: L up to 25 (20) mm.
- Distribution: off Šiaulai and Pagegiai (Lithuania), Pushkin and Mozhaiskoje (near St.-Petersburg) (Likharev, Schileyko, MS); Carpathians including Transcarpathia and Ciscarpathia, western Podolsk Hills, area between Prut and Dniester rivers (Sverlova, 2006).

***Arion subfuscus*** (Draparnaud, 1805)

Fig. 82 D, 86 G

[= *Arion krynickii* Kaleniczenko, 1851; *Arion brunneus* Lehmann, 1862; *Arion esthonicus* Poska-Teiss, 1927]*Limax subfuscus* Draparnaud, 1805: 125-126, pl. 9, fig. 8.

- Type locality: “le Sorézois et la montagne Noire” (southeastern France).
- Neotype (Garrido et al., 1995): Museo Nacional de Ciencias Naturales, Madrid, No. 1505/18704.
- Dimensions: L up to 80 (45) mm.
- Distribution: widely distributed in European part of Russia; common in Carpathians, widespread in western, northern and southeastern Ukraine (Sverlova, 2006); western and eastern slopes of Central and South Ural, North Caucasus near Vladikavkaz; absent in Crimea (Likharev, Schileyko, MS).

***Arion vulgaris*** Moquin-Tandon, 1855[= *Arion lusitanicus* auctt., non Mabille, 1868]*Arion rufus* var. *vulgaris* Moquin-Tandon, 1855: 10, pl. 1, fig. 1.

- Type locality: not stated (France – from title).
- Types: unknown.
- Dimensions: L up to (80) mm.
- Distribution: a single finding in Kaluga Region (near Fersikovo village, 39 km east of Kaluga) (Likharev, Schileyko, MS, as *Arion lusitanicus*).

HELICIDAE Rafinesque, 1815

ARIANTINAE Mörch, 1864

**Arianta** Turton, 1831

Type species: *Helix arbustorum* Linnaeus, 1758 (OD)

**Arianta arbustorum** (Linnaeus, 1758)

Fig. 87 A

*Helix arbustorum* Linnaeus, 1758: 771.

- Type locality: “in Europae arbustis”.
- Types: probably in BMNH.
- Dimensions: H 12-23, D 18-25 mm.
- Distribution: Ukrainian Carpathians and western Podolsk Hills (Sverlova, 2006); northern Moldavia (Coadă, 2007); Byelorussia, Baltic countries, introduced to vicinities of St.-Petersburg and Moscow (Likharev, Schileyko, MS).

**Arianta petrii** (Kimakowicz, 1890)

Fig. 87 B

*Helix aethiops* var. *petrii* Kimakowicz, 1890: 204.

- Type locality: Carpathians.
- Types: unknown.
- Dimensions: H 13-15, D 18-21 mm.
- Distribution: Ukraine: high-mountain areas of Carpathians, Chernovtzy Region (Likharev, Schileyko, MS; Sverlova, 2006).

**Campylaea** Beck, 1837

Type species: *Helix planospira* L. Pfeifer, 1879 (SD Martens in Albers, 1860)

**Campylaea faustina** (Ziegler in Rossmässler, 1835)

Fig. 87 D

[= *Helix faustina* var. *associata* Rossmässler, 1835; *Helix faustina* f. *citrinula* Rossmässler, 1835]

*Helix faustina* Ziegler – Rossmässler, 1835b: 4-5, pl. 6, fig. 93.

- Type locality: “Galicien”.
- Types: unknown.
- Dimensions: H 10-12, D 15-23 mm.
- Distribution: Carpathians and western Ukraine (Likharev, Schileyko, MS; Sverlova, 2006).

**Drobacia** Brusina, 1904

Type species: *Helix banatica* Partsch in Rossmässler, 1838 (OD)

**Drobacia banatica** (Partsch in Rossmässler, 1838)

Fig. 87 C

*Helix banatica* Partsch – Rossmässler, 1838: 14, pl. 7, fig. 457.

- Type locality: “im Banat, bei Mehadia” (Romania).
- Syntypes: NHMV.
- Dimensions: H 14-18, D 25-30 mm.
- Distribution: south part of Ukrainian Carpathians (Likharev, Schileyko, MS; Sverlova, 2006).

***Helicigona*** Férussac, 1821

Type species: *Helix lapicida* Linnaeus, 1758 (SD Pilsbry, 1895)

***Helicigona lapicida*** (Linnaeus, 1758)

Fig. 88 A

*Helix lapicida* Linnaeus, 1758: 768.

- Type locality: “in Europae rupibus terrestribus”.
- Types: probably in BMNH.
- Dimensions: H 7.5-8.5, D 14-17 mm.
- Distribution: Kalinigrad Region, maritime Latvia (Likharev, Schileyko, MS).

***Isognomostoma*** Fitzinger, 1833

Type species: *Helix personata* Lamarck, 1792 (= *Helix isognomostomos* Gmelin, 1791) (OD)

***Isognomostoma isognomostomum*** (Gmelin, 1791)

Fig. 88 B

[= *Helix personata* Lamarck, 1792]

*Helix isognomostomos* Gmelin, 1791: 3621.

- Type locality: “Virginia, Thuringia, Alsatia”.
- Types: unknown.
- Dimensions: H 5.5-6.5, D 9-13 mm.
- Distribution: Ukraine: Carpathians, Transcarpathia, Ciscarpathia, western Podolsk Hills, area between Prut and Dniester rivers, Khmelnytsky Region (Likharev, Schileyko, MS; Sverlova, 2006).

HELICINAE Rafinesque, 1815

***Caucasotachea*** C. Boettger, 1911

Type species: *Helix atrolabiata* Krynicki, 1833 (monotypy)

***Caucasotachea atrolabiata*** (Krynicki, 1833)

Fig. 88 C, D

[= *Helix stauropolitana* A. Schmidt, 1854; *Helix laeta* Westerlund, 1898; *Helix atrolabiata* var. *maxima* Kobelt, 1904; *Helix atrolabiata* var. *albispira* Lindholm, 1913; *Helix atrolabiata* var. *voronoviae* Lindholm, 1913]

*Helix atrolabiata* Krynicki, 1833: 425-428, pl. 10 a-c.

- Type locality: Mashuk and Besh-Tau mountains near Pyatigorsk.

- Types: unknown.
- Dimensions: H 21-38, D 35-43 mm.
- Distribution: horseshoe-like area of western wing of Great Caucasus from north, west and south. Sporadically in western Colchis lowland and off Kutaisi (Likharev, Schileyko, MS).

***Caucasotachea calligera*** (Dubois de Montpéroux, 1840)

Fig. 88 E

[= *Helix atrolabiata* var. *pallasii* Mousson, 1863; *Helix atrolabiata* var. *repanda* Mousson, 1863; *Helix atrolabiata* var. *nemoraloides* Martens, 1874; *Helix atrolabiata* f. *tricolor* O. Boettger, 1881; *Helix atrolabiata* f. *maculato-fasciata* O. Boettger, 1881; *Helix atrolabiata* f. *decusata* O. Boettger, 1881; *Helix atrolabiata* var. *intercedens* Retowski, 1889; *Helix atrolabiata* f. *alternans* Retowski, 1914; *Helix atrolabiata* f. *transiens* Retowski, 1914; *Tachea argonautorum* Roszkowski, 1919; *Helix atrolabiata* var. *komareki* Frankenberger, 1919]

*Helix calligera* Dubois de Montpéroux, 1840: 87-88.

- Type locality: “toutes les provinces de sud de Caucase”, “de Poti et de Choucha”.
- Syntypes: MZL.
- Dimensions: H 22-28, D 27-35 mm.
- Distribution: southern slopes of Great Caucasus, Colchis lowland, western Lesser Caucasus (Likharev, Schileyko, MS).
- Remark: Similar to *C. atrolabiata*, differs mainly by the absence of elements of lattice sculpture which is present on the shells of *C. atrolabiata* (especially on the last whorl).

***Caucasotachea leucoranea*** (Mousson, 1863)

Fig. 89 A

[= *Helix stauropolitana* var. *elegans* Issel, 1865; *Helix byrcana* Martens, 1874; *Helix leucoranea* var. *caspia* Kobelt, 1898; *Helix leucoranea* var. *malleata* Kobelt, 1903; *Caucasotachea atrolabiata* var. *tschalusi* Starmühlner et Edlauer, 1957]

*Helix atrolabiata* var. *leucoranea* Mousson, 1863: 376-377.

- Type locality: “à Leucoran” (Lenkoran).
- Syntypes ZMZ No. 506701.
- Dimensions: H 18-25, D 27-34 mm.
- Distribution: Lenkoran lowland and forests of Talysh; ?Apsheron Peninsula (Caucasus) (Likharev, Schileyko, MS; Neubert, Bank, 2006).

***Cepaea*** Held, 1837

Type species: *Helix nemoralis* Linnaeus, 1758 (SD Herrmannsen, 1846)

***Cepaea hortensis*** (Müller, 1774)

Fig. 89 B

*Helix hortensis* Müller, 1774: 52-55.

- Type locality: Fridrichsdal (vicinities of Copenhagen).
- Types: unknown.
- Dimensions: H 15-16, D 18-21 mm.

- Distribution: Kaliningrad Region, Latvia, Estonia and sporadically in Vitebsk Region (Likharev, Schileyko, MS); introduced populations in western Ukraine (Sverlova, 2006).

***Cepaea nemoralis*** (Linnaeus, 1758)

Fig. 89 C

*Helix nemoralis* Linnaeus, 1758: 773.

- Type locality: “in Europae arboribus”.
- Probable syntypes: UUZM No. 757.
- Dimensions: H 16-18, D 20-24 mm.
- Distribution: locally along coast of Baltic Sea (Kaliningrad Region, Latvia, Estonia) (Likharev, Schileyko, MS); park in Lvov (Sverlova, 2006).

***Cepaea vindobonensis*** (C. Pfeiffer, 1828)

Fig. 89 D

[= *Helix austriaca* Menke, 1828; *Helix arvensis* Krynicki, 1837]

*Helix vindobonensis* Pfeiffer, 1828: 15-16, pl. 4, figs. 6-7.

- Type locality: “im Erzherzogthum Oesterreich und Illyrien”.
- Types: unknown.
- Dimensions: H 17-20, D 20-24 mm.
- Distribution: forest-steppe and steppe zones of East-European Plain, steppes of Crimea and foothills of North Caucasus (Likharev, Schileyko, MS).

***Cryptomphalus*** Agassiz, 1837

Type species: *Helix aspersa* Müller, 1774 (SD Pilsbry, 1889)

***Cryptomphalus aspersa*** (Müller, 1774)

Fig. 90 A

*Helix aspersa* Müller, 1774: 59.

- Type locality: “Italia”.
- Types: unknown.
- Dimensions: H 27-35, D 27-38 mm.
- Distribution: a single finding in Crimea near Feodosia (Likharev, Schileyko, MS).

***Eobania*** Hesse, 1915

Type species: *Helix vermiculata* Müller, 1774 (OD)

***Eobania vermiculata*** (Müller, 1774)

Fig. 90 D

*Helix vermiculata* Müller, 1774: 20.

- Type locality: Italy.
- Types: unknown.
- Dimensions: H 16-22, D 26-32 mm.
- Distribution: Crimea (Likharev, Schileyko, MS), introduced to Odessa Region (Sverlova, 2006).



**Helix** Linnaeus, 1758

Type species: *Helix pomatia* Linnaeus, 1758 (SD Montfort, 1810)

**Helix albescens** Rossmässler, 1839

Fig. 90 B, C

[= *Helix obtusata* Rossmässler, 1837 nom. praecoc., non Serres, 1824; *Helix vulgaris* Rossmässler, 1839 nom. praecoc., non Da Costa, 1778; *Helix obtusalis* Bourguignat, 1860 nom. nov. pro *H. obtusata* Rossmässler, 1837; *Helix obtusalis* var. *bicincta* Kobelt, 1877; *Helix obtusata* var. *balionis* Retowski, 1889; *Helix intermissa* Westerlund, 1897; *Helix vulgaris kubanensis* Kobelt, 1906; *Helix vulgaris roseni* Kobelt, 1906]

Rossmässler, 1839: 10, pl. 44, figs. 585-586.

- Type locality: Northern Italy.
- Holotype: SMF No. 9834.
- Dimensions: H 27-36, D 29-38 mm.
- Distribution: Odessa to Donetzk regions, mountain and steppe Crimea (Ukraine) (Sverlova, 2006); western and northern parts of North Caucasus; sporadically in Dagestan, Georgia, Armenia (Likharev, Schileyko, MS).

**Helix buchi** Dubois de Montpéreux, 1839

Fig. 91 A

[= *Helix buchi* f. *minor* O. Boettger, 1881; *Helix buchi sieversi* Kobelt, 1903; *Helix pomatia duschekensis* Kobelt, 1906; *Helix buchi* var. *adsharica* Kobelt, 1906]

Dubois de Montpéreux, 1839: 243.

- Type locality: “la Khanitskali, ... 5 ou 6 mille pieds au-dessus du niveau de la mer” (Georgia; 1640 to 1970 m above sea level).
- Types: unknown.
- Dimensions: H 46-57, D 45-60 mm.
- Distribution: Georgia near Abkhazia, Verin Agdan village (Idzhevan district, Armenia) (Akramowski, 1976; Likharev, Schileyko, MS).
- Remark: Recently, a new species of *Helix*, *H. goderdziana* Mumladze, Tarkhnishvili et Pokryszko, has been described from SW Georgia (Mumladze et al., 2008). The species differs, according to the original description, from *Helix buchi* in its larger size, the coloration of cephalopodium, the length of mucous glands and of the flagellum, as well as in the size and shape of verge (penial papilla). As concerns the size, the known shell height in *H. buchi* is 46-57 mm, at the width of 45-60 mm, whereas in the adult *H. goderdziana* these values are 57-61 and 60 mm, respectively, i.e. these characters actually overlap. The coloration of cephalopodium varies in many species of helicoids: for example, within one sample of *Trochulus bispidus* one can find individuals with dark-gray and white cephalopodia. The size of mucous glands depends on the functional condition of the studied specimen. The authors state that the flagellum in *H. goderdziana* is much longer than in *H. buchi*; this seems to be a mistake: actually the flagellum in *H. goderdziana* is markedly shorter than in *H. buchi* (as compared fig. 4 in the description of *H. goderdziana* to fig. 464 in Schileyko, 1978b). Besides, the length

of flagellum in many Helicidae is a variable character, the same being true for the shape and size of penial papilla. Thus, we do not see any reliable distinction of *H. goderdziana* and believe that *H. goderdziana* is a junior synonym of *H. buchi*.

***Helix christophi*** O. Boettger, 1881

Fig. 91 B

[= *Helix christophi atrolabioides* Kobelt, 1914]

Boettger, 1881a: 217-218.

- Type locality: “aus Adsharien” (Adzharia).
- Lectotype (Zilch, 1952a): SMF No. 50787.
- Dimensions: H 26-30, D 29-35 mm.
- Distribution: southwestern Transcaucasia (Likharev, Schileyko, MS).

***Helix lucorum*** Linnaeus, 1758

Fig. 91 C

[= *Helix taurica* Krynicky, 1833; *Helix radiosa* Rossmässler, 1838; *Helix taurica* mut. *martensi* O. Boettger, 1883; *Helix ancyrensis haussknechti* Kobelt, 1906]

Linnaeus, 1758: 773.

- Type locality: “in Europae arboribus”.
- Neotype (ICZN Opinion 1996, 2002): ZMC.
- Dimensions: H 40-50, D 41-52 mm.
- Distribution: mountain Crimea, Black Sea coast of Caucasus (north of Sochi), Colchis lowland and bordering mountain ridges, Armenia, Shemakha and Talysh (Likharev, Schileyko, MS).

***Helix lutescens*** Ziegler in Rossmässler, 1837

Fig. 92 A, B

Rossmässler, 1837: 4, pl. 21, fig. 292.

- Type locality: “Lemberg in Galicien” (Lvov, Ukraine).
- Neotype (Zilch, 1952b): SMF No. 9850.
- Dimensions: H 27-33, D 24-31 mm.
- Distribution: Carpathians in western Ukraine and Moldavia, Volyno-Podolsk Hills, Zhitomir, Odessa and Nikolaev regions, western Ukrainian Polesye and adjacent Byelorussia (Likharev, Schileyko, MS; Sverlova, 2006).

***Helix nordmanni*** Parreys in Mousson, 1854

Fig. 91 D

[= *Helix nordmanni* var. *borsbomensis* Kobelt, 1904]

Mousson, 1854: 366-367.

- Type locality: “le Somketh, l’Imereth et l’Armenie”.
- Syntypes: ZMZ Nos. 506378, 506382, 506383.
- Dimensions: H 25-26, D 25-31 mm.
- Distribution: southern Georgia (Likharev, Schileyko, MS).

***Helix pomatia*** Linnaeus, 1758

Fig. 92 C

[= *Helix pomatia* var. *compacta* Hazay, 1880; *Helix pomatia* var. *pulskeyana* Hazay, 1880; *Helix pomatia* var. *bajnaldiana* Hazay, 1880; *Helix pomatia* var. *solitaria* Hazay, 1880; *Helix pomatia* var. *subulosa* Hazay, 1880; *Helix pomatia* var. *radiata* Uličny, 1885; *Helix pomatia* var. *thessalica* O. Boettger, 1886; *Helix pomatia* var. *lednicensis* Brancsik, 1888; *Helix pomatia* var. *piceata* Gredler, 1890; *Helix pomatia* var. *gratiosa* Gredler, 1892; *Helix pomatia* f. *fasciata* Kobelt, 1906; *Helix pomatia* f. *pygmaea* Kobelt, 1906; *Helix pomatia* var. *pannonica* Kobelt, 1906; *Helix pomatia* var. *luteola* Kobelt, 1906; *Helix pomatia* var. *kapellae* Kobelt, 1906; *Helix pomatia* var. *serbica* Kobelt, 1906; *Helix pomatia* var. *expansilabris* Kobelt, 1906; *Helix pomatia* var. *elsae* Kobelt, 1906; *Helix pomatia* var. *christinae* Kobelt, 1906; *Helix pomatia* var. *dobrudschae* Kobelt, 1906; *Helix pomatia* var. *rhodopensis* Kobelt, 1906; *Helix pomatia* var. *krueperi* Kobelt, 1906; *Helix pomatia* var. *constellata* Kobelt, 1906; *Helix pomatia* var. *transylvanica* Kobelt, 1906; *Helix pomatia* var. *claudiensis* Kobelt, 1906]

Linnaeus, 1758: 771.

- Type locality: “in Angliae, Galliae nemoribus”.
- Probable syntypes: UUZM No. 866.
- Dimensions: H 38-45, D 37-47 mm.
- Distribution: Baltic countries, western, southwestern, central and northeastern parts of Ukraine, western Byelorussia, introduced to vicinities of Moscow, Kursk, Kiev, Kharkov, Poltava, and Prioksko-Terrasnyi Reserve (Likharev, Schileyko, MS; Sverlova, 2006).

***Levantina*** Kobelt, 1871Type species: *Helix spiriplana* Olivier, 1821 (SD Pilsbry, 1894)***Levantina ceratomma*** (L. Pfeiffer, 1856)[= *Helix urmiensis* Kobelt, 1889]*Helix ceratomma* Pfeiffer, 1856: 2: 106.

- Type locality: “Caucaso”.
- Holotype: lost (Schütt, Subai, 1996).
- Dimensions: H 13-16, D 24-32 mm.
- Distribution: Armenia: Djulfa (Schütt, Subai, 1996).

***Levantina djulfensis*** (Dubois de Montpéreux, 1840)

Fig. 93 A, B

[= *Helix placida* Westerlund, 1897; *Helix casta* Westerlund, 1898]*Helix djulfensis* Dubois de Montpéreux, 1840: 24.

- Type locality: “Djoulfa” [Azerbaijan].
- Types: unknown.
- Dimensions: H 16-18, D 29-35 mm.
- Distribution: Araks River valley (Megrin district) vicinities of Bzhni (Razdan district) in Armenia; Djulfa, Ordubad, Zangilan (Likharev, Schileyko, MS; Schütt, Subai, 1996).

***Levantina escheriana*** (Bourguignat, 1864)

Fig. 92 D

*Helix escheriana* Bourguignat, 1864b: 105, pl. 15, figs. 8-11.

- Type locality: not stated (holotype label: “Diarbekir (= Diyarbekir), Turquie”).
- Holotype: MHNG, Bourguignat collection, No. 18726.
- Dimensions: H 14-16, D 29-35 mm.
- Distribution: Armenia (Norashen district, Kyarki village; vicinities of Areni and Ekhegnadzor); Azerbaijan (Nakhichevan region) (Likharev, Schileyko, MS; Schütt, Subai, 1996).

***Levantina longinqua*** (Schütt et Subai, 1996)

Fig. 93 C

*Asyriella longinqua* Schütt, Subai, 1996: 128-129, pl. 7, fig. 29 (nom. nov. pro *Helix (Levantina) kurdistanica* var. *dobrni* Kobelt, 1902, non *Helix dobrni* Paulucci, 1882).

- Type locality: “Samarkand” [Uzbekistan].
- Lectotype (Zilch, 1952a): SMF No. 5703.
- Dimensions: H 19-22, D 40-42.5 mm.
- Distribution: south Uzbekistan (Schütt, Subai, 1996).
- Remark: We believe that the type locality (and, therefore, distribution) of this species is erroneous, because the malacofauna of Uzbekistan is rather well known and such large shell could hardly be overlooked by numerous collectors.

## BRADYBAENIDAE Pilsbry, 1939

***Acusta*** Martens, 1860Type species: *Helix ravidica* Benson, 1842 (OD)***Acusta ravidica*** (Benson, 1842)

Fig. 93 D

[= *Helix selskii* Schrenck, 1867; *Helix cincto-inflata* Mousson, 1887; *Helix weyrichii* sensu Cockerell, 1924, non Schrenck, 1867]*Helix ravidica* Benson, 1842: 486.

- Type locality: “Chusan”.
- Types: unknown.
- Dimensions: H 20-30, D 23-35 mm.
- Distribution: lower and middle parts of Amur River basin, the entire Primorye Territory (Egorov, Ivanov, 1997).

***Fruticicola*** Held, 1837Type species: *Helix fruticum* Müller, 1774 (SD Herrmannsen, 1847)

***Fruticicola alaica*** (Kuznetsov, 1998)

Fig. 93 E

*Bradybaena alaica* Kuznetsov, 1998: 87-88, fig. 1.

- Type locality: Kirgizia, Osh Region, Naukat District, Kichik-Alai Ridge, Mazar-Sai River (tributary of Kirgiz-Alai) valley upstream from Eski-Naukat settlement, Naukat Experimental Forestry, Experimental Point Karagoi, eastern slope, 2500-2700 m.
- Holotype: ZMMU No. Lc-22978.
- Dimensions: H 7.1-8.8, D 14.4-16.4 mm.
- Distribution: Osh Region of Kirgizia (Kuznetsov, 1998).

***Fruticicola almaatini*** (Skvortzov, 1940)

Fig. 94 A

[= *Fruticicola alma-atina* var. *lindbolmi* Skvortzov, 1940]*Fruticicola almaatini* Skvortzov, 1940: 372-373.

- Type locality: Maloe Almaatinskoe ravine, Zailiyskij Alatau.
- Syntypes: ZMMU Nos. Lc-14476, Lc-14409.
- Dimensions: H 17-19, D 21-24 mm.
- Distribution: Kazakhstan, northern Tien-Shan, Zailiyskij Alatau Ridge, Maloe Almaatinskoe ravine, Kirgiz Ala Too and Ferghana ridges, Susamyrskaya valley (Egorov, Ivanov, 1997).
- Remark: In the original description of the species, Skvortzov (1940) did not designate any type specimens but mentioned 2 specimens and gave their dimensions. Therefore, the shell illustrated in the paper by Egorov and Ivanov (1997) (No. Lc-14476), was erroneously designated as holotype.

***Fruticicola bilaticincta*** (Martens, 1882)

Fig. 94 B

[= *Fruticicola saturata* Londholm, 1926]*Helix paricincta* var. *bilaticincta* Martens, 1882a: 5-6, pl. 1, figs. 12-13.

- Type locality: “valem fluvii Ili ejusque affluentium ... ad fl. Kungess circa 1300 met. altit.”.
- Types: unknown.
- Dimensions: H 13.5-20.0, D 17-25 mm.
- Distribution: Ferghana and Chatkal ridges (western Tien-Shan) (Egorov, Ivanov, 1997).

***Fruticicola cavimargo cavimargo*** (Martens, 1879)

Fig. 94 C

[= *Helix*? *aspasta* Westerlund, 1896; *Cathaica iacosta* Möllendorff, 1899]*Helix cavimargo* Martens, 1879: 126.

- Type locality: “Kuldsha” (Ining (Kuldja), northwest China).
- Types: unknown.
- Dimensions: H 5-7, D 11-15 mm.
- Distribution: central and eastern Tien-Shan, northern Pamiro-Alai (Egorov, Ivanov, 1997).
- Remark: Zilch (1968): designated the lectotype for this species (SMF 9048), though the designation in fact concerns *C. iacosta*.

***Fruticicola cavimargo tarbagataica*** (Matiokin, 1966)

Fig. 94 D, E

*Bradybaena cavimargo tarbagataica* Matiokin, 1966: 120.

- Type locality: collective farm May-Bulak, near Karakol River, Tarbagatai Ridge.
- Holotype: ZMMU No Lc-14426.
- Dimensions: H 5-6, D 10-14 mm.
- Distribution: Semipalatinsk Region, Tarbagatai Ridge, Manrak and Saur ridges, southern Altai, northern slope of Kurchum and southern foothills of Naryn ridges (Egorov, Ivanov, 1997).

***Fruticicola dichrozona*** (Martens, 1885)

Fig. 95 A

[= *Bradybaena pavlovskii* sensu Matiokin, 1966 part.]*Helix dichrozona* Martens, 1885: 17-18.

- Type locality: Ferghana, Turkestan.
- Types: unknown.
- Dimensions: H 11-17, D 18-28 mm.
- Distribution: Chatkal Ridge and southern foothills (Likharev, Schileyko, MS).

***Fruticicola fedtschenkoi*** (Martens, 1874)

Fig. 95 B

[= *Helix sturanyana* Kobelt, 1893]*Helix fedtschenkoi* Martens, 1874: 16, pl. 1, fig. 9.

- Type locality: off Kulikalan Lake in Zeravshan Valley.
- Lectotype (Egorov, Ivanov, 1997): ZMMU No. Lc-645.
- Dimensions: H 6-10, D 12-20 mm.
- Distribution: Karatau, Zeravshan, Alai and, possibly, Chatkal ridges, on Digmay plateau, at foothills of Kuram and Turkestan ridges (Egorov, Ivanov, 1997).

***Fruticicola fruticum*** (Müller, 1774)

Fig. 95 C

[= *Helix fruticum* var. *europaea* W. Dybowski, 1901]*Helix fruticum* Müller, 1774: 71.

- Type locality: Europe.
- Types: unknown.
- Dimensions: H 15-17, D 18-23 mm.
- Distribution: East-European Plain, Crimea, Ukrainian Carpathians (foothills and lower forest zone), North Caucasus (Likharev, Schileyko, MS; Sverlova, 2006).

***Fruticicola helvola helvola*** (Frivaldszky in L. Pfeiffer, 1853)

Fig. 96 A

[= *Bradybaena likharevi* Uvalieva, 1967]*Helix helvola* Frivaldszky – Pfeiffer, 1853b: 188-189.

- Type locality: “Siberia”.

- Types: unknown.
- Dimensions: H 10-17, D 15-23 mm.
- Distribution: southwestern and southern Altai (Eastern Kazakhstan Region) (Egorov, Ivanov, 1997).

***Fruticicola helvola anachoretica*** (Matiokin, 1966)

Fig. 96 C

*Bradybaena anachoretica* Matiokin, 1966: 127-128, pl. 4, fig. 5.

- Type locality: Tarbagatai.
- Types: unknown.
- Dimensions: H 10.8-16.3, D 16.0-22.5 mm.
- Distribution: Semipalatinsk Region, Tarbagatai Ridge, Eastern Kazakhstan, southwestern Altai, Ulbinsky Ridge (Egorov, Ivanov, 1997).

***Fruticicola lantzi*** (Lindholm, 1927)

Fig. 97 A-G

[= *Fruticicola lantzi dextrorsa* Tzvetkov, 1938; *Fruticicola lantzi sinistrorsa* Tzvetkov, 1938; *Fruticicola lantzi* f. *cingulicarens* Lindholm, 1927; *Fruticicola lantzi* var. *brauni* Skvortzov, 1940; *Fruticicola lantzi* f. *albina* Tzvetkov, 1941; *Fruticicola lantzi* f. *steppensis* Tzvetkov, 1941; *Fruticicola lantzi* f. *xerophila* Tzvetkov, 1941; *Fruticicola lantzi* f. *silvestris* Tzvetkov, 1941; *Fruticicola lantzi* f. *montana* Tzvetkov, 1941]

*Fruticicola lantzi* Lindholm, 1927c: 261.

- Type locality: Varukh village near Kokand.
- Syntypes: ZIN, ZMMU No. Lc-14486.
- Dimensions: H 13-21, D 17-27 mm.
- Distribution: most ridges of northern and western Tien-Shan, Pamiro-Alai and Alai ridges (Likharev, Schileyko, MS).
- Remark: Both dextral and sinistral populations are known.

***Fruticicola necopinata*** (Tzvetkov, 1941)

Fig. 96 E

*Pseudiberus necopinatus* Tzvetkov, 1941: 285.

- Type locality: Tisken-Su side ravine of Turgen ravine (Zailiyskij Alatau Ridge).
- Lectotype (Egorov, Ivanov, 1997): ZMMU No. Lc-14429.
- Dimensions: H 7-9, D 13-20 mm.
- Distribution: Zailiyskij Alatau Ridge, ravines of Turgen and Tisken-Su rivers, Kirgiz Ala Too ridge, Alamedin valley (northern Tien-Shan) (Egorov, Ivanov, 1997).

***Fruticicola perlucens*** (Rosen, 1901)

Fig. 95 D

[= *Helix indigena* Westerlund, 1898 nom. praecoc., non Mabille, 1895]

*Helix perlucens* Rosen, 1901a: 9.

- Type locality: Garm on Surkhob River.
- Lectotype (Egorov, Ivanov, 1997): ZMMU No. Lc-523.

- Dimensions: H 7-12, D 17-22 mm.
- Distribution: foothills of Chatkal ridge (western Tien-Shan), Alai, Peter the Great, Hissar and Zeravshan ridges (Pamiro-Alai) (Egorov, Ivanov, 1997).

***Fruticicola phaeozona phaeozona*** (Martens, 1874)

Fig. 96 D

[= *Helix orithyia* Martens, 1874]

*Helix phaeozona* Martens, 1874: 13, pl. 1, fig. 8, pl. 3, fig. 39.

- Type locality: “Kokand Khanate”.
- Lectotype (Egorov, Ivanov, 1997): ZMMU No. Lc-650.
- Dimensions: H 10-13, D 14-19 mm.
- Distribution: Ferghana and Zailiyskij Alatau ridges (Tien-Shan), Alai Ridge (Egorov, Ivanov, 1997).

***Fruticicola phaeozona pseudarianta*** (Lindholm, 1927)

Fig. 96 B

*Fruticicola phaeozona pseudarianta* Lindholm, 1927b: 195.

- Type locality: “Ferghana-Gebiet, Tal. des Fl. Tshithkan (linker Nebenfluss des Uzun-Achmat), Tal. des Fl. Turduk (linker Tributär des Karasu)”.
- Lectotype (Egorov, Ivanov, 1997): ZIN.
- Dimensions: H 14.5-20.0, D 18-24 mm.
- Distribution: Ferghana Ridge near Arslanbob village, ravines of Chichkhan and Turduk rivers (Egorov, Ivanov, 1997).

***Fruticicola plectotropis plectotropis*** (Martens, 1864)

Fig. 98 A

[= *Helix plectotropis* var. *uniformis* Ancy, 1887; *Helix palmeni* Westerlund, 1898; *Helix palmeni* f. *accincta* Westerlund, 1898; *Cathaica sijoschuriana* Weber, 1913]

*Helix plectotropis* Martens, 1864: 114-115, pl. 3, figs. 3-5.

- Type locality: “Thianschan-gebirge”.
- Types: unknown.
- Dimensions: H 7-14, D 14-22 mm.
- Distribution: Kirgiz Ala Too, Zailiyskij Alatau, Ketmen, Kungei Ala Too ridges (northern Tien-Shan) (Egorov, Ivanov, 1997).
- Remark: For malacofauna of Central Asia, the phenomenon of neoendemism is well known. This phenomenon is expressed in high intraspecific shell variability. In particular this concerns *Fruticicola plectotropis*. A number of closely related “species”, and forms have been described (*mesophila*, *palmeni*, *saxatilis*, *scalaris*, *scopulosa*, *stschukini*, *sugoschuriana*, *transiliensis*). Recently, some of them were treated as subspecies (e.g., Egorov, Ivanov, 1997), even though their ranges seem to overlap. It is quite possible that a closer examination will demonstrate that all or nearly all of them are merely local or ecological forms having no taxonomic status. However, to show the range of variability of *F. plectotropis*, we conventionally retain them as “subspecies” and give their illustrations.



***Fruticicola plectotropis mesophila*** (Tzvetkov, 1941)

Fig. 98 B

*Catbaica plectotropis* m. *mesophila* Tzvetkov, 1941: 293.

- Type locality: Issyk ravine.
- Lectotype (Egorov, Ivanov, 1997): ZMMU No. Lc-14466.
- Dimensions: H 10.5-14.0, D 19.0-21.8 mm.
- Distribution: northern Tien-Shan, Zailijskij Alatau ridge, Issyk ravine, Turgen ravine (Likharev, Schileyko, MS).

***Fruticicola plectotropis saxatilis*** (Tzvetkov, 1941)

Fig. 98 D

*Catbaica saxatilis* Tzvetkov, 1941: 298-299.

- Type locality: Issyk ravine, 50 km eastward from Alma-Ata, 1200 to 2000 m above sea level.
- Lectotype (Egorov, Ivanov, 1997): ZMMU No. Lc-14433.
- Dimensions: H 6.0-7.6, D 13.7-15.8 mm.
- Distribution: Zailijskij Alatau Ridge, Issyk ravine, Kirgiz Ala Too Ridge, Alamedin valley and Chon-Tash ravine (Egorov, Ivanov, 1997).

***Fruticicola plectotropis scalaris*** (Tzvetkov, 1941)

Fig. 98 E

[= *Catbaica scalaris* m. *alticola* Tzvetkov, 1941]

*Catbaica scalaris* Tzvetkov, 1941: 297-298.

- Type locality: Talgar ravine, 1200-1300 m above sea level.
- Lectotype (Egorov, Ivanov, 1997): ZMMU No. Lc-14467.
- Dimensions: H 5.2-7.8, D 11.8-16.7 mm.
- Distribution: Zailijsky Alatau Ridge, Talgar ravine (Egorov, Ivanov, 1997).

***Fruticicola plectotropis scopulosa*** (Tzvetkov, 1941)

Fig. 98 C

*Catbaica plectotropis* m. *scopulosus* Tzvetkov, 1941: 293-294.

- Type locality: Maloe Almaatinskoe ravine.
- Lectotype (Egorov, Ivanov, 1997): ZIN (not found).
- Dimensions: H 8.4-10.2, D 16.9-21.0 mm.
- Distribution: Zailijskij Alatau ridge, Maloe Almaatinskoe ravine (northern Tien-Shan), Kirgiz Ala Too Ridge, Alamedin valley, Kungei Ala Too Ridge, northern shore of Issyk-Kul Lake, near Bosteri town (Egorov, Ivanov, 1997).

***Fruticicola plectotropis stschukini*** (Lindholm, 1927)

Fig. 99 D

*Pseudiberus stschukini* Lindholm, 1927b: 200.

- Type locality: upper reaches of Turduk River, Chatkal Ridge.
- Syntypes: ZIN.
- Dimensions: H 7.2-8.5, D 16.0-18.0 mm.

- Distribution: Chatkal Ridge, valley of Turduk River (western Tien-Shan), Kirgiz Ala Too Ridge, Karabalty valley, Kara-Haty ravine, northern slope of Talas-Alatau Ridge, Besh-Tash valley (Egorov, Ivanov, 1997); Zailijskij Alatau Ridge, Talgar valley (Likharev, Rammelmeyer, 1952).

***Fruticicola plectotropis transiliensis*** (Tzvetkov, 1940)

Fig. 100 D

*Cathaica transiliensis* Tzvetkov, 1940a: 391.

- Type locality: Alayak ravine near Uzun-Aghach village, Zailijskij Alatau Ridge.
- Lectotype (Egorov, Ivanov, 1997): ZMMU No. Lc-14472.
- Dimensions: H 6.0-8.5, D 11-15 mm.
- Distribution: type locality.

***Fruticicola schrenckii*** (Middendorff, 1851)

Fig. 99 A

[= *Helix sibirica* L. Pfeiffer, 1853; *Helix annexa* Westerlund, 1897]

*Helix schrenckii* Middendorff, 1851: 302, pl. 30, figs. 20-26.

- Type locality: Siberia.
- Syntype: ZIN.
- Dimensions: H 9-12, D 14-17 mm.
- Distribution: northeastern Europe, Siberia, Altai and Sayan mountains, Kamchatka (Schileyko, Likharev, MS; Egorov, Ivanov, 1997).
- Remark: Perhaps, it is a synonym of *F. fruticum*.

***Fruticicola scythica*** (Westerlund, 1898)

Fig. 97 H

[= *Fruticicola roxane* Lindholm, 1927]

*Helix scythica* Westerlund, 1898: 168.

- Type locality: Ferghana Ridge (“Pass zwischen Dgehularik und Habin”).
- Lectotype (Schileyko, 1978b): ZIN.
- Dimensions: H 15-22, D 19-26 mm.
- Distribution: Ferghana, Naryn-Too and Baubash-Ata ridges (Tien-Shan), Peter the Great Ridge on Pamiro-Alai (Egorov, Ivanov, 1997).

***Fruticicola skwortzowi*** Tzvetkov, 1940

Fig. 99 B

Tzvetkov, 1940a: 389.

- Type locality: Kara-Kastek river canyon, May-Tyube Pasture.
- Syntypes: ZMMU No. Lc-14428.
- Dimensions: H 10-13, D 15-20 mm.
- Distribution: Zailijskij Alatau Ridge (Likharev, Schileyko, MS).

***Fruticicola squamulosa*** (Izzatullaev et Schileyko, 1980)

Fig. 99 E

*Bradybaena squamulosa* Izzatullaev, Schileyko, 1980: 1220-222, fig. 1A, B.

- Type locality: Kirgizia, northern shore of Issyk-Kul Lake, Cholpon-Ata, Progress settlement.
- Holotype: ZIN.
- Dimensions: H 3.6-4.2, D 6.7-7.5 mm.
- Distribution: type locality; Kazakhstan, estuary of the Kóktal River (Egorov, Ivanov, 1997).

***Fruticicola stoliczkana stoliczkana*** (Nevill, 1878)

Fig. 100 A

[= *Helix opposita* Westerlund, 1898]

*Helix stoliczkana* Nevill, 1878: 3, pl. 1, figs. 4-6.

- Type locality: Sasak Taka and Pasrobat, west of Yarkand.
- Probable syntypes: SMF No. 22834.
- Dimensions: H 4.7-9.0, D 10-17 mm.
- Distribution: northern and central Tien-Shan (Egorov, Ivanov, 1997).

***Fruticicola stoliczkana chuika*** (Egorov in Egorov et Ivanov, 1997)

Fig. 100 C

*Bradybaena stoliczkana chuika* Egorov – Egorov, Ivanov, 1997: 39: fig. 32.

- Type locality: Kyrgyzstan, valley of Chu river, 50 km from Rybachje village.
- Holotype: ZMMU No. Lc-21420.
- Dimensions: H 4.9, D 10.1 mm (holotype).
- Distribution: northern Tien-Shan, Boam ravine (part of Chu river valley between Kungei Ala Too and Kirgiz Ala Too ridges) (Likharev, Schileyko, MS).

***Fruticicola stoliczkana pavlovskii*** (Likharev, 1955)

Fig. 100 B

[= *Eulota pavlovskii* var. *depressa* Likharev, 1955]

*Eulota pavlovskii* Likharev, 1955: 183-185, fig. 2.

- Type locality: Kum Tar River, northern Tien-Shan.
- Holotype: ZIN.
- Dimensions: H 4.3-7.0, D 8.6-14.6 mm.
- Distribution: Kirgizia, northern Tien-Shan, Kum Tar River, near Rybachje village on right side of the Chu valley (Egorov, Ivanov, 1997).

***Fruticicola tomyris*** Lindholm, 1927

Fig. 99 C

Lindholm, 1927b: 196.

- Type locality: Chichkan River valley, Ferghana Ridge.
- Holotype: ZIN.
- Dimensions: H 17.5, D 22.0 mm (holotype).
- Distribution: type locality.

***Fruticicola transbaicalia transbaicalia*** (Schileyko, 1978)

Fig. 101 A

*Bradybaena transbaicalia transbaicalia* Schileyko, 1978b: 128-130, textfigs. 56, 57, pl. 1, fig. 10.

- Type locality: Transbaikalia, Khamar-Daban Ridge, right bank of Mamai River.
- Holotype: ZIN.
- Dimensions: H 14-16, D 20-22 mm.
- Distribution: Khamar-Daban Ridge, Krasnoyarsk (Schileyko, 1978b; Egorov, Ivanov, 1997).

***Fruticicola transbaicalia sayanica*** (Kuznetsov in Egorov et Ivanov, 1997)

Fig. 101 B

*Bradybaena transbaicalia sayanica* Kuznetsov – Egorov, Ivanov, 1997: 9, fig. 4.

- Type locality: Russia, East Siberia, Khakassia, Biisk district, West Sayan mountain system, Alan Ridge, left side of the Yenisei valley, 3-4 km north-north-eastward of Cheriomushki village, foot of eastern slope of “1699 m” mount 20-30 m over railway, along foot of steep rocks.
- Holotype: ZMMU No. Lc-22856.
- Dimensions: H 8.0-14.2, D 13.3-23.7 mm.
- Distribution: Sayan mountains (Egorov, Ivanov, 1997).

***Fruticicola tzvetkovi*** (Uvalieva et Soboleva, 1973)

Fig. 101 C

[= *Cathaica brodskii* Tzvetkov et Tzvetkova, 1950 nom. nud.]*Bradybaena tzvetkovi* Uvalieva, Soboleva, 1973: 1717, figs. 1, 2.

- Type locality: Alma-Atinsky State Reserve, right bank of Levyi Talgar River.
- Holotype: Institute of Zoology of Kazakhstan Academy of Sciences No. 5184.
- Dimensions: H 9-12, D 10-12 mm.
- Distribution: Zailiyskij Alatau Ridge and right side of Talgar ravine (Egorov, Ivanov, 1997).

***Fruticicola zhecseni*** (Rymzhanov, 1979)

Fig. 100 E

*Bradybaena plectotropis* semisp. *zhecseni* Rymzhanov, 1979: 55, figs. 4-5.

- Type locality: Urochishche Assy, Zailiyskij Ridge.
- Holotype: ZIN.
- Dimensions: H 5.7-6.2, D 10.0-11.6 mm.
- Distribution: Zailiyskij Alatau and Kungei ridges, Turgen ravine (northern Tien-Shan) (Likharev, Schileyko, MS; Egorov, Ivanov, 1997).

***Karafthelix*** Pilsbry, 1927Type species: *Eulota fiscina* Fulton, 1905 (OD)

***Karafkahelix arcasiana*** (Crosse et Debeaux, 1863)

Fig. 101 D

[= *Helix arcasiana* f. *normalis* Schrenck, 1867; *Helix arcasiana* f. *depressior* Schrenck, 1867; *Eulota murenensis* Cockerell, 1926; *Ganesella virgo* Pilsbry, 1926; *Helix fruticum* Gerstfeldt, 1859, nom. praecoc., non Müller, 1774]

*Helix arcasiana* Crosse, Debeaux, 1863: 386.

- Type locality: “Shang-hai”.
- Types: unknown.
- Dimensions: H 13-17, D 14-19 mm.
- Distribution: basin of Amur River (near Khabarovsk, Blagoveshchensk-on-Amur), Razdolno-Khankayskaya lowland, Pogranichnyi Ridge, vicinity of Nakhodka, eastern coast of Ussuri Bay, Furugelm Island (Egorov, Ivanov, 1997).

***Karafkahelix bocageana bocageana*** (Crosse, 1864)

Fig. 102 A

[= *Helix miranda* A. Adams, 1868; *Eulota weyrichii* sensu Likharev, Rammelmeyer, 1952 part.]

*Helix bocageana* Crosse, 1864: 284.

- Type locality: “?... China”.
- Types: unknown.
- Dimensions: H 20-23, D 23-29 mm.
- Distribution: southeastern Sakhalin, Shikotan Island (Egorov, Ivanov, 1997).

***Karafkahelix bocageana chishimana*** (Pilsbry et Hirase, 1904)

Fig. 102 B

[= *Eulota weyrichii* sensu Likharev, Rammelmeyer, 1952 part.]

*Eulota chishimana* Pilsbry, Hirase, 1904a: 116-117.

- Type locality: “Kimashiri, Chishima” (Kunashir Island).
- Lectotype (Baker, 1963): ANSP No. 86324a.
- Dimensions: H 20-22, D 24-27 mm.
- Distribution: Kunashir Island (Likharev, Schileyko, MS).

***Karafkahelix bocageana urupensis*** (Pilsbry, 1927)

*Eulota urupensis* Pilsbry, 1927a: 17, pl. 1, figs. 1-3.

- Type locality: Urup, Chishima (Kurile Islands).
- Lectotype (Baker, 1963): ANSP No. 99950a.
- Dimensions: H 17.0, D 23.5 mm.
- Distribution: type locality.

***Karafkahelix bocageana weyrichii*** (Schrenck, 1867)

Fig. 102 C, D

[= *Helix serotina* A. Adams, 1868; *Eulota fiscina* Fulton, 1905]

*Helix weyrichii* Schrenck, 1867: 669, pl. 26, figs. 11-13.

- Type locality: Sakhalin Island (“Bai d’Estaing an der Westküste und bei Manuë an der Ostküste”).

- Types: unknown.
- Dimensions: H 20-37, D 29-38 mm.
- Distribution: southern Sakhalin Island (Egorov, Ivanov, 1997).

***Karftohelix capillata*** (Schileyko et Bratchik in Schileyko, 1978)

Fig. 103 A, B

*Bradybaena capillata* Schileyko, Bratchik – Schileyko, 1978b: 347-349, textfigs. 468-471.

- Type locality: Malyi Island (Peter the Great Bay).
- Holotype: ZIN.
- Dimensions: H 5-6, D 6.5-8.5 mm.
- Distribution: Malyi, Naumov, Pakhtusov, Kozlov, Matveev, De-Livron, Durnovo, Pelis, Stenin, Klykov and Rimskij-Korsakov Islands (Egorov, Ivanov, 1997).

***Karftohelix dieckmanni*** (Mousson, 1887)

Fig. 102 E

[= *Helix eutheta* Westerlund, 1897]

*Helix dieckmanni* Mousson, 1887: 13, pl. 1, fig. 2.

- Type locality: Amur River basin.
- Syntypes: ZMZ No. 506102.
- Dimensions: H 5.5-7.0, D 7-12 mm.
- Distribution: from basin of Lower and Middle Amur River to Peter the Great Bay, southern Primorye and adjacent islands (Likharev, Schileyko, MS).

***Karftohelix diversita*** (Schileyko et Bratchik in Schileyko, 1978)

Fig. 103 C

*Bradybaena diversita* Schileyko, Bratchik – Schileyko, 1978b: 140-141, textfigs. 82-84.

- Type locality: Dva Brata Islands (Peter the Great Bay).
- Holotype: ZIN.
- Dimensions: H 7-10, D 11-15 mm.
- Distribution: Dva Brata, Matveev, De-Livron, Durnovo and Rimskij-Korsakov Islands (Egorov, Ivanov, 1997).

***Karftohelix duiensis*** (Westerlund, 1897)

Fig. 103 D

*Helix duiensis* Westerlund, 1897: 121.

- Type locality: northern Sakhalin.
- Holotype: ZIN.
- Dimensions: H 11-12, D 16-21 mm.
- Distribution: east coast of Sakhalin Island along Due River; Kholmsk district, Racuma village; southeastern Sakhalin Island, Nevelsk district (Egorov, Ivanov, 1997); Kunashir Island (Pearce et al., 2002).

***Karatohelix fragilis*** (Pilsbry, 1926)

Fig. 104 A

*Eulota fragilis* Pilsbry, 1926: 455, pl. 33, fig. 2.

- Type locality: “Kom-san near Senchon” (northern part of Korean Peninsula).
- Lectotype (Baker, 1963): ANSP No. 99958a.
- Dimensions: H 10-15, D 13-22 mm.
- Distribution: southern Primorye Territory (Egorov, Ivanov, 1997).

***Karatohelix incognita*** (Schileyko, 1988)

Fig. 104 B

*Bradybaena incognita* Schileyko, 1988a: 1305, fig. 1, II.

- Type locality: Sakhalin Island.
- Holotype: ZMMU No. Lc-144480.
- Dimensions: H 5.3-6.3, D 8.5-9.5 mm.
- Distribution: type locality.

***Karatohelix intermedia*** (Rymzhanov, 1983)

Fig. 104 C

*Bradybaena intermedia* Rymzhanov, 1983: 30-32, figs. 1, 2.

- Type locality: Karkara ravine, Kungei Ala Too ridge, North Tien-Shan.
- Holotype: ZIN.
- Dimensions: H 4.5-5.5, D 11-13 mm.
- Distribution: Kungei Ala Too and Ketmen ridges, Khan-Tengry massif, Dzungar Alatau, Saur and Sarym-Sakty ridges (Egorov, Ivanov, 1997).

? ***Karatohelix kudiensis*** (Cockerell, 1924)

Fig. 106 A

*Hygromia kudiensis* Cockerell, 1924: 581.

- Type locality: basin of Kudiya river, Primorye Territory.
- Types: unknown.
- Dimensions: H 6.8-7.0, D 13.5-15.0 mm.
- Distribution: type locality and near Rudnaya Bay (Egorov, Ivanov, 1997).

***Karatohelix kurodana*** (Pilsbry, 1926)

Fig. 104 D

*Eulota kurodana* Pilsbry, 1926: 455, pl. 33, figs. 3, 4.

- Type locality: Pukhan-san north of Seoul, Korea.
- Lectotype (Baker, 1963): ANSP No. 99960a.
- Dimensions: H 18-20, D 25-30 mm.
- Distribution: Primorye Territory, Pogradichnyi district, Pogradichnyi Ridge (Egorov, Ivanov, 1997).

***Karaftohelix maacki*** (Gerstfeldt, 1859)

Fig. 105 A, B

[= *Helix maacki* f. *elator* Schrenck, 1867; *Helix maacki* var. *depressor* Schrenck, 1867; *Eulota maacki* f. *optima* Cockerell, 1924; *Helix middendorffi* Mousson, 1887 nom. praecoc., non Gerstfeldt, 1859]

*Helix maacki* Gerstfeldt, 1859: 518, fig. 27.

- Type locality: “Am mittleren Amur, vorzüglich zwischen den Mündungen des Songari und Ussuri”.
- Syntypes: ZIN.
- Dimensions: H 18-30, D 23-35 mm.
- Distribution: basin of lower and middle Amur River in Primorye Territory (Likharev, Schileyko, MS).

***Karaftohelix middendorffi*** (Gerstfeldt, 1859)

Fig. 105 C, D

[= *Helix graeseri* Mousson, 1887; *Eulota eulemnisca* Cockerell, 1924; *Hygromia amatoris* Cockerell, 1924]

*Helix middendorffi* Gerstfeldt, 1859: 521-522, fig. 29.

- Type locality: Amur River between mouths of Sungari and Ussuri rivers.
- Syntypes: ZIN.
- Dimensions: H 10-14, D 15-26 mm.
- Distribution: Primorye Territory and middle Amur River basin (Egorov, Ivanov, 1997).

***Karaftohelix plana*** (Schileyko et Bakurov in Schileyko, 1988)

Fig. 107 A

*Bradybaena plana* Schileyko et Bakurov – Schileyko, 1988: 1305, fig. 2.

- Type locality: Primorye Territory, Anuchinsk district, Chernyshovka station.
- Holotype: ZMMU No. Lc-14482.
- Dimensions: H 8.8-11.0, D 20.0-22.5 mm.
- Distribution: type locality, Rimskij-Korsakov and Durnovo islands in Peter the Great Bay (Egorov, Ivanov, 1997).

***Karaftohelix strelkovi*** (Likharev et Rammelmeyer, 1952)

Fig. 106 B, C

*Eulota strelkovi* Likharev, Rammelmeyer, 1952: 408, fig. 340.

- Type locality: southern Sakhalin.
- Holotype: ZIN.
- Dimensions: H 17-20, D 19-26 mm.
- Distribution: southern Sakhalin, Iturup, Shikotan, Kunashir Islands (Egorov, Ivanov, 1997; Pearce et al., 2002).

***Karaftohelix ussuriensis*** (Westerlund, 1897)

Fig. 107 B

*Helix ussuriensis* Westerlund, 1897: 122.



- Type locality: Nakhodka.
- Lectotype (Schileyko, 1978b): NMG No. 738.
- Dimensions: H 7-9, D 12-16 mm.
- Distribution: coastal part of southern Primorye and islands of Peter the Great Bay (Likharev, Schileyko, MS).

***Karaftohelix vulcanica*** (Schileyko, 1978)

Fig. 106 D

*Bradybaena vulcanica* Schileyko, 1978b: 142-144, textfigs. 87, 88, pl. 2, fig. 20.

- Type locality: foot of Golovnin volcano (southern Kunashir Island).
- Holotype: ZIN.
- Dimensions: H 15.0-17.5, D 20.5-22.0 mm.
- Distribution: Kunashir Island (Likharev, Schileyko, MS).

***Ponsadenia*** Schileyko, 1978

Type species: *Helix semenowi* Martens, 1864 (OD)

***Ponsadenia dentata*** (Rymzhanov, 1983)

Fig. 107 C

*Bradybaena dentata* Rymzhanov, 1983: 32, figs. 3, 4.

- Type locality: Kungei Ridge, near Kul-say Lake.
- Holotype: ZIN.
- Dimensions: H 4-5, D 6-7 mm.
- Distribution: type locality and Issyk ravine (Zailiyskij Alatau Ridge) (Likharev, Schileyko, MS).

***Ponsadenia duplocincta*** (Martens, 1879)

Fig. 108 A

[= *Helix paricincta* Martens, 1879; *Helix paricincta* var. *bisbicincta* Martens, 1882; *Helix stenroosi* Westerlund, 1898; *Helix stenroosi* f. *tetrica* Westerlund, 1898; *Fruticicola leucotaenia* Lindholm, 1927]

*Helix duplocincta* Martens, 1879: 125.

- Type locality: “Kuldsha” (Ining (Kuldja), northwest China).
- Syntypes: SMF Nos. 9103 (“lectotype”), 25075/2.
- Dimensions: H 19-26, D 20-27 mm.
- Distribution: Central Asia from Ili River to eastern Kirgiz Ala Too Ridge, Ketmen Ridge, except for northern slopes of Zailiyskij Alatau and Kirgiz Ala Too Ridges, northern shore of Issyk-Kul Lake (Likharev, Schileyko, MS).

***Ponsadenia hirsuta*** (Tzvetkov in Matiokin, 1966)

Fig. 107 D

*Bradybaena hirsuta* Tzvetkov – Matiokin, 1966: 124, pl. 4, fig. 7.

- Type locality: Dzungar and Tarbagatai ridges.
- Syntypes: ZMMU Nos. Lc-9244, 9253, 9254, 9255, 9256, 9257.

- Dimensions: H 4.5-5.0, D 10.6-10.8 mm.
- Distribution: Tarbagatai, Dzungar and Terskei ridges (Likharev, Schileyko, MS) Zailiyskij Alatau (Egorov, Ivanov, 1997).

***Ponsadenia pseudoferghanica*** (Schileyko, 1978)

Fig. 107 E

*Bradybaena pseudoferghanica* Schileyko, 1978b: 158-160, textfigs. 114, 115, pl. 4, fig. 37.

- Type locality: Kirgiz Ridge, near Chardovan village.
- Holotype: ZIN.
- Dimensions: H 9-12, D 18-22 mm.
- Distribution: Tarbagatai, Dzungar, Zailiyskij and Kirgiz ridges (Likharev, Schileyko, MS).

***Ponsadenia semenowi*** (Martens, 1864)

Fig. 108 B

[= *Cathaica bermanni* Moellendorff in Gude, 1904; *Cathaica keiseri* Cockerell, 1928]

*Helix semenowi* Martens, 1864: 115-116, pl. 3, figs. 6-8.

- Type locality: “Thianschan d.h. Himmelsgebirge”.
- Types: unknown.
- Dimensions: H 6-10, D 9-15 mm.
- Distribution: Tien-Shan, except for Pskem and Ugam ridges, Dzungar Ridge, Tarbagatai, southern Altai, Saur Ridge (Likharev, Schileyko, MS; Egorov, Ivanov, 1997).

HELICODONTIDAE Hesse, 1907

LINDHOLMIOLINAE Schileyko, 1978

***Lindholmiola*** Hesse, 1931

Type species: *Helix lens* Férussac, 1821 (OD)

***Lindholmiola corcyrensis*** (Férussac, 1819)

Fig. 108 C

[= *Helix contorta* Rossmässler, 1838]

*Helix corcyrensis* Férussac, 1819: 21, pl. 69 E, figs. 1-5.

- Type locality: not stated (Corfu Island – from the name derivation).
- Types: unknown.
- Dimensions: H 4-6, D 9-12 mm.
- Distribution: a single finding in Durlsheshtsky forest near Kishinev (Schileyko, 1978b).

HYGROMIIDAE Tryon, 1866

Remark: Species of various subfamilies of Hygromiidae sometimes have very similar shells. Therefore, to facilitate the species determination, we give the schematic picture

(Textfig. 13), showing anatomical differences between subfamilies. However, one has to take into consideration that sometimes there occurs a reduction of some additional organs (stylophores, vaginal appendages, mucus glands) within one subfamily.

**TROCHULINAE** Lindholm, 1927

***Caucasigena*** Lindholm, 1927

Type species: *Helix eichwaldi* L. Pfeiffer, 1846 (OD)

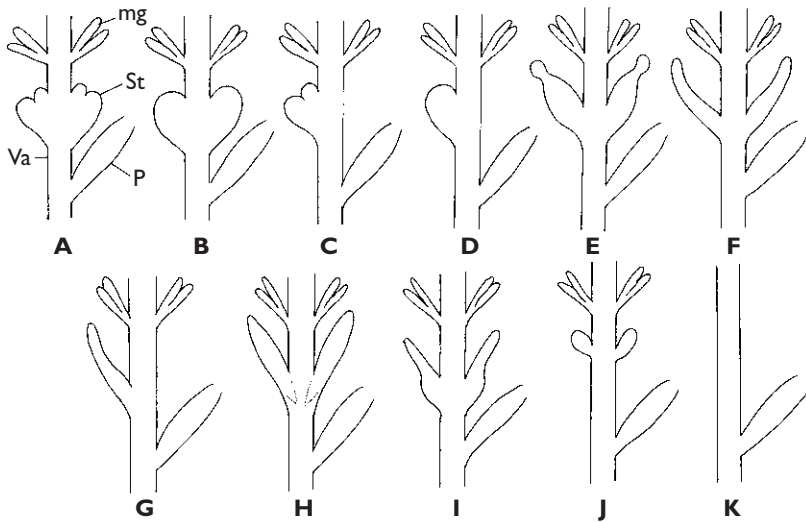
***Caucasigena abchasica*** (Lindholm, 1927)

Fig. 108 D

[= *Helix pontica* sensu O. Boettger, 1883, non Fischer, 186]

*Helix abchasica* Lindholm, 1927a: 133.

- Type locality: “Tagereise nördl. Suchum”.
- Holotype: ZIN.
- Dimensions: H 11-12, D 17-20 mm.
- Distribution: northern and southern slopes of western Great Caucasus (Likharev, Schileyko, MS).



**Textfig. 13.** Anatomical characters of subfamilies of Hygromiidae (schematic). A, B – Trochulinae; C, D – Hygromiinae and Archaicinae; E, F, G – Monachainae; H – Hesseolinae; I, J – Paedhoplitinae; K – Metafruticolinae.

*MG* – mucus glands; *P* – penis; *St* – stylophore(s) or their derivatives (vaginal appendages); *Va* – vagina.

***Caucasigena armeniaca*** (L. Pfeiffer, 1846)

Fig. 108 E

[= *Helix alpina* Menetries, 1832, non Ferussac, 1822; *Helix nivalis* Krynicki, 1837, non d'Orbigny, 1835]*Helix armeniaca* Pfeiffer, 1846b: 77.

- Type locality: "Armenia".
- Types: unknown.
- Dimensions: H 4-5, D 7.7-9.0 mm.
- Distribution: southern and eastern slopes of Great Caucasus from Kazbek to Shakh-dag, Bazum Ridge (Armenia), Kyapaz Mount (Mrovdagh Ridge, Azerbaijan) (Likharev, Schileyko, MS).

***Caucasigena eichwaldi*** (L. Pfeiffer, 1846)

Fig. 109 A

[= *Helix eichwaldi* var. *nivicola* Lindholm, 1913]*Helix eichwaldi* Pfeiffer, 1846b: 77.

- Type locality: Caucasus.
- Types: unknown.
- Dimensions: H 7-10, D 12-20 mm.
- Distribution: eastern and northeastern slopes of Great Caucasus. Near Krestovskiy pass it can be found on southern slopes (Likharev, Schileyko, MS).

***Caucasigena rengarteni*** (Lindholm, 1913)

Fig. 109 D

[= *Helix gerassimovi* Lindholm, 1913]*Helix rengarteni* Lindholm, 1913: 142.

- Type locality: central Caucasus, Baksan River valley.
- Syntype: ZIN.
- Dimensions: H 5.8-8.2, D 10-17 mm.
- Distribution: canyons in the north of central part of Great Caucasus, from Malka and Podkumok river valleys in the west to Ardon River valley in the east (Likharev, Schileyko, MS).

***Caucasigena schaposchnikovi*** (Rosen, 1911)

Fig. 109 B, C

[= *Helix antoni* Rosen, 1914, non L. Pfeiffer, 1876; *Helix antonwagneri* Lindholm, 1927; *Caucasigena schaposchnikovi* var. *balkariensis* Lindholm, 1929]*Helix schaposchnikovi* Rosen, 1911: 113, pl. 3, figs. 2a-c.

- Type locality: Oshten and Fischt mountains in western Great Caucasus.
- Lectotype (Baker, 1963): ANSP No. 210610a.
- Dimensions: H 5.0-8.5, D 10.0-15.5 mm.
- Distribution: sporadically on northern slopes of Great Caucasus (Likharev, Schileyko, MS).

***Caucasigena schileykoi*** Tavasiev et Tavasieva, 1980

Fig. 109 E

Tavasiev, Tavasieva, 1980: 144, figs. 1-11.

- Type locality: North Ossetia, Alagir district, Tamisk village, 40 km west of Vladikavkaz.
- Holotype: Museum of Severo-Osetinsky Reserve No. M-104.
- Dimensions: H 5-6, D 14-17 mm.
- Distribution: type locality.

***Caucasigena thalestris*** (Lindholm, 1927)

Fig. 110 A

[= *Helix flaveola* Mousson, 1863, non Kaleniczenko, 1853]

*Trochulus thalestris* Lindholm, 1927a: 123, 130.

- Type locality: between Sukhumi and Poti.
- Types: unknown.
- Dimensions: H 10-13, D 15-20 mm.
- Distribution: West Caucasus from Stavropol to Poti (Likharev, Schileyko, MS).

***Caucasigena tschetschenica*** (Retowski, 1914)

Fig. 110 B

*Helix tschetschenica* Retowski, 1914: 292.

- Type locality: Bonos-Mta Mount (Chechnya).
- Types: unknown.
- Dimensions: H 3.2-4.8, D 6.5-9.8 mm.
- Distribution: type locality and middle reaches of Fiagdon River (Likharev, Schileyko, MS).

***Diodontella*** Lindholm, 1929

Type species: *Diodontella stschukini* Lindholm, 1929 (OD)

***Diodontella nubigena*** Lindholm, 1929

Fig. 110 C

Lindholm, 1929: 210, pl. 11, fig. 2.

- Type locality: upper reaches of Chegem River.
- Lectotype (Schileyko, 1978b): ZIN.
- Dimensions: H 2.8-4.3, D 5.25-6.75 mm.
- Distribution: type locality.

***Diodontella stschukini*** Lindholm, 1929

Fig. 110 D

Lindholm, 1929: 206, pl. 11, fig. 1.

- Type locality: lime rocks near top of Cherakh-Kend (Chegem Canyon).
- Lectotype (Schileyko, 1978b): ZIN.
- Dimensions: H 4.5-5.5, D 9-10 mm.
- Distribution: Chegem Canyon, 1500 m above sea level (Likharev, Schileyko, MS).

***Edentiella*** Polinski, 1929

Type species: *Helix edentula* Draparnaud, 1805 (OD)

***Edentiella bakowskii*** (Polinski, 1924)

Fig. 111 A

*Fruticola bielzi* var. *bakowskii* Polinski, 1924: 196-198, figs. 72-74.

- Type locality: “Dora und Tatarów in oberen Prut-Tal sowie Osthäuge der Czarnohora in den Ostkarpaten”.
- Types: unknown.
- Dimensions: H 2.4-2.5, D 6-7 mm.
- Distribution: high-mountain Carpathians (Sverlova, 2006).

***Helicella*** Férussac, 1821

Type species: *Helix itala* Linnaeus, 1758 (SD ICZN Opinion 431, 1956)

***Helicella candicans*** (L. Pfeiffer, 1841)

Fig. 111 B

*Helix candicans* Pfeiffer, 1841: 220.

- Type locality: “bei Szigleget am Plattensee” [Balaton Lake, Hungary].
- Types: unknown.
- Dimensions: H 7-8, D 13-16 mm.
- Distribution: western part of Ukraine and Moldavia; Zhitomir and Kiev (Likharev, Schileyko, MS; Sverlova, 2006).

***Helicopsis*** Fitzinger, 1833

Type species: *Helix striata* Müller, 1774 (monotypy)

***Helicopsis dejecta*** (Cristofori et Jan in Rossmässler, 1838)

Fig. 111 C

[= *Helix arenosa* Krynicki, 1836; *Helix substriata* Clessin, 1881; *Xerophila arenosa bistriata* Puzanov, 1926; *Xerophila substriata planorum* Puzanov, 1926; *Xerophila arenosa natio rudis* Puzanov, 1926; *Xerophila (Candidula) substriata natio pallida* Puzanov, 1926; *Xerophila (Candidula) substriata natio minor* Puzanov, 1926; *Xerophila (Candidula) substriata natio nogaica* Puzanov, 1926; *Xerophila (Candidula) substriata natio Cimmerii* Puzanov, 1926; *Xerophila (Candidula) substriata pyramidalis* Puzanov, 1926]

*Helix dejecta* Cristofori, Jan – Rossmässler, 1838: 34, pl. 38, fig. 520.

- Type locality: Crimea.
- Types: unknown.
- Dimensions: H 6-11, D 9-18 mm.
- Distribution: mountain and steppe Crimea, vicinities of Melitopol and Novorossiisk, shores of Yalpuh Lake (Odessa Region), southern Donetsk Region near Novoazovsk (Likharev, Schileyko, MS; Sverlova, 2006).
- Remark: the authorship of the name is usually cited as “Cristofori et Jan, 1832” (e.g. Schileyko, 1978b). However, there is no such name in the work of Cristofori and Jan.

The earliest mentioning of the name we could find is that in Rossmässler (1838). Major monographs of the 19th century (e.g., Pfeiffer, 1848) also cite only Rossmässler as primary source of data on the species. Therefore, *Helix arenosa* Krynicki, 1836 becomes the oldest available name for this species. However, until a more detailed investigation of the question, we prefer to use the name of Cristofori and Jan.

***Helicopsis filimargo*** (Krynicki, 1833)

Fig. 111 D, E

[= *Helix taurica* Rossmässler, 1837; *Helicella lantzji* Lindholm, 1926; *Xerophila elata* Puzanov, 1927; *Xerophila milashevitschi vulcanica* Puzanov, 1927]

*Helix filimargo* Krynicki, 1833: 435.

- Type locality: “Habitat in collibus calcareis Tauriae (Sevastopol, ... Khersones, Kachi, Shulya)”.
- Syntypes: ZIN, MNHN.
- Dimensions: H 6.5-9.0, D 12-17 mm.
- Distribution: mountain Crimea, vicinities of Odessa, Lugansk Region (Likharev, Schileyko, MS; Sverlova, 2006).

***Helicopsis instabilis*** (Rossmässler, 1838)

Fig. 112 A

[= *Helicella instabilis* var. *bakowskyana* Clessin, 1879; *Helix jachnoi* Clessin, 1887]

*Helix instabilis* Rossmässler, 1838: 33, pl. 38, fig. 518.

- Type locality: “bei Lemberg in Galicien”.
- Syntypes: SMF No. 10354.
- Dimensions: H 6-8, D 14.0-18.5 mm.
- Distribution: Dniester basin (Likharev, Schileyko, MS).

***Helicopsis likharevi*** Schileyko, 1978

Fig. 112 D, E

Schileyko, 1978b: 212-213, textfigs. 232, 233, pl. 10, fig. 96.

- Type locality: Kopet Dagh, Shekhin-Dere Canyon.
- Holotype: ZIN.
- Dimensions: H 4.5-6.0, D 7.0-8.5 mm.
- Distribution: Kopet Dagh (Likharev, Schileyko, MS).

***Helicopsis paulhessei*** (Lindholm, 1936)

Fig. 112 B, C

[= *Helicella gasprensensis* Hesse, 1934]

*Helicella paulhessei* Lindholm, 1936: 439, fig. 1.

- Type locality: “Southern coast of Crimea, Gaspra manor, Koreiz”.
- Lectotype (Schileyko, 1978b): ZIN.
- Dimensions: H 9-10, D 12.5-15.8 mm.
- Distribution: type locality (Schileyko, 1978b).

***Helicopsis retowskii*** (Clessin, 1883)

Fig. 112 F

[= *Xerophila (Jacosta) milashevitschi* natio *normalis* Puzanov, 1925; *Xerophila (Jacosta) milashevitschi* natio *minuta* Puzanov, 1925; *Xerophila (Jacosta) milashevitschi planata* Puzanov, 1925; *Helicella gireiorum* Lindholm, 1926]

*Helicella retowskii* Clessin, 1883: 47, pl. 3, fig. 1.

- Type locality: Yalta (Crimea).
- Types: unknown.
- Dimensions: H 5-8, D 8-13 mm.
- Distribution: Crimea (Likharev, Schileyko, MS).

***Helicopsis striata*** (Müller, 1774)

Fig. 113 A

[= *Helicogena lunulata* Krynicky, 1833; *Martha cereoflava podolica* Polinski, 1922; *Helicella eudakowi* Skvortzov, 1938 nom. nud.]

*Helix striata* Müller, 1774: 38.

- Type locality: “in Saxonia”.
- Types: unknown.
- Dimensions: H 5.0-8.5, D 7-12 mm.
- Distribution: Moldavia, western Ukraine, Northwestern Black Sea Maritime Territory, Dnepropetrovsk and Sumy regions of Ukraine, Kursk and Voronezh regions of Russia (Likharev, Schileyko, MS; Sverlova, 2006).

***Hygrohelicopsis*** Schileyko, 1978

Type species: *Hygrohelicopsis darevskii* Schileyko, 1978 (OD)

***Hygrohelicopsis darevskii*** Schileyko, 1978

Fig. 113 B

Schileyko, 1978a: 14-15, textfigs. 42-46, pl. 3, fig. 9.

- Type locality: left bank of middle part of Chegem River.
- Holotype: ZIN.
- Dimensions: H 5.5-6.0, D 10.0-10.5 mm.
- Distribution: Chegem River Canyon, 2000-2500 m above sea level (Likharev, Schileyko, MS).

***Kokotschashvilia*** Hudec et Lezhawa, 1969

Type species: *Helix holotricha* O. Boettger, 1884 (OD)

***Kokotschashvilia caucasicola*** (Lindholm, 1913)

Fig. 113 C, D

[= *Caucasigena ossetica* Tavasieva, 1982]

*Helix caucasicola* Lindholm, 1913: 138.

- Type locality: central Caucasus, southern side of Krestovsky pass, 2370 m above sea level.
- Syntype: ZIN.
- Dimensions: H 8-9, D 10.5-12.5 mm.



- Distribution: central part of Great Caucasus (Likharev, Schileyko, MS).
- Remark: There are seven conchologically similar species: *Kokotschashvilia caucasicola*, *Stenomphalia selecta*, *Monacha ciscaucasica*, *M. kuznetsovi*, *M. perfrequens*, *M. roseni*, and *M. subcarthusiana*. *K. caucasicola* differs from the other listed species by the presence of two pairs of stylophores, *S. selecta* – by the presence of a pair of kittle- or bottle-shaped vaginal appendages (Textfig. 13). In species of the genus *Monacha*, vagina has no additional organs or is supplied by one more or less tubular appendix. To recognise the species of *Monacha*, see Remark to *M. ciscaucasica*.

***Kokotschashvilia eberhardi*** Schileyko, 1978

Fig. 113 E

Schileyko, 1978a: 19-21, textfigs. 67-70, pl. 3, fig. 12.

- Type locality: central part of Great Caucasus between Kazbegi and Sioni villages.
- Holotype: ZIN.
- Dimensions: H 10-12, D 14.0-15.5 mm.
- Distribution: highland of western Great Caucasus (Likharev, Schileyko, MS).

***Kokotschashvilia holotricha*** (O. Boettger, 1884)

Fig. 114 A

*Helix holotricha* Boettger, 1884: 151.

- Type locality: Abkhazia, Psyrzkha near Novyi Afon.
- Syntypes: SMF Nos. 6855 (“holotype”, heavily broken), 100927 (“paratype”).
- Dimensions: H 10-13, D 15.0-18.6 mm.
- Distribution: Black Sea shore of Caucasus and eastward along northern (Maikop) and southern (Tekhuri River basin) slopes of Great Caucasus (Likharev, Schileyko, MS).

***Kokotschashvilia makvalae*** (Hudec et Lezhawa, 1969)

Fig. 114 B, C

*Trichia makvalae* Hudec, Lezhawa, 1969: 41, figs. 1, 5.

- Type locality: Balda village, Gegechkori district of Georgia.
- Holotype: SMF No. 194320.
- Dimensions: H 14-15, D 19.2-21.5 mm.
- Distribution: type locality and Kvaisa (Kvansi) village, Dzhavi district of Georgia (Likharev, Schileyko, MS).

***Kokotschashvilia phaeolaema*** (O. Boettger, 1886)

Fig. 114 D

[= *Helix phaeolaema* var. *tenuitesta* Lindholm, 1913]

*Helix (Fruticocampylaea) phaeolaema* Boettger, 1886b: 137-138, pl. 3, fig. 4 a-e.

- Type locality: Shakh-Dagh Mount, East Caucasus.
- Types: unknown.
- Dimensions: H 9-12, D 11-16 mm.
- Distribution: central and eastern parts of northern slopes of Great Caucasus (Likharev, Schileyko, MS).

***Kokotschashvilia tanta*** Schileyko, 1978

Fig. 115 A, B

Schileyko, 1978a: 16-18, textfigs. 57-61, pl. 3, fig. 11.

- Type locality: Lebarde village, Gegechkori district of Georgia.
- Holotype: ZIN.
- Dimensions: H 14.5-18.0, D 22-27 mm.
- Distribution: type locality.
- Remark: Conchologically similar to *K. makevalae*, differs by larger size.

***Leucarchaica*** Schileyko et Pazylov, 1990Type species: *Leucarchaica rudimentifera* Schileyko et Pazylov, 1990 (OD)***Leucarchaica rudimentifera*** Schileyko et Pazylov, 1990

Fig. 115 C

Schileyko, Pazylov, 1990: 871, fig. 1.

- Type locality: Ferghana Ridge, Kara-Bulak Canyon near Arslanbob.
- Holotype: ZMMU No. Lc-15636.
- Dimensions: H 7.0-8.7, D 10.0-12.5 mm.
- Distribution: type locality.

***Leucozonella*** Lindholm, 1927Type species: *Helix rubens* Martens, 1874 (OD)***Leucozonella angulata*** (Westerlund, 1896)

Fig. 115 D-F

[= *Fruticicola boewiana* Tzvetkova, 1950]*Helix rubens* var. *angulata* Westerlund, 1896: 186-187.

- Type locality: “Turkesian [sic]. Artaschaty; Prov. Samarkand, Kreis Pendschekent, nahe Steinkohlgruben gegenüber Pisan-Pojane”.
- Lectotype (Schileyko, 1978b): ZIN.
- Dimensions: H 7.5-11.7, D 11-17 mm.
- Distribution: from southwestern Tien-Shan to Tarbagatai and steppe regions of East Kazakhstan (Likharev, Schileyko, MS).

***Leucozonella caria*** Schileyko, 1978

Fig. 116 A, B

Schileyko, 1978a: 12-13, textfigs. 37-41, pl. 2, fig. 8.

- Type locality: Hissar Ridge near Khodzha-Obigarm.
- Holotype: ZIN.
- Dimensions: H 4.2-6.0, D 7.3-8.8 mm.
- Distribution: Hissar Ridge (Likharev, Schileyko, MS).

***Leucozonella caryodes*** (Westerlund, 1896)

Fig. 116 C

[= *Fruticicola conospira* Lindholm, 1927]

*Helix rubens* var. *caryodes* Westerlund, 1896: 186.

- Type locality: “Turkestan und Dshungarei. Länds dem Fl. Kugart, auf Abhängen 6000-6500’. Aslam-bob; Stadt Lepsinsk; Kreis Sergiopol am Fl. Baskan”.
- Syntypes: ZIN, ZMMU No. Lc-14490.
- Dimensions: H 12-17, D 12-18 mm.
- Distribution: central and northern Tien-Shan (Likharev, Schileyko, MS).

***Leucozonella crassicosta*** Schileyko, 1978

Fig. 116 D, E

Schileyko, 1978b: 180-181, textfigs. 161-164, pl. 6, fig. 55.

- Type locality: Chatkal Ridge, left bank of Kasansai River upstream from Ala-Buka vil-lage.
- Holotype: ZIN.
- Dimensions: H 6.0-8.5, D 10.0-13.5 mm.
- Distribution: southwestern slopes of Chatkal Ridge along left bank of Kasansai river and northern part of eastern slopes of Kuramin Ridge (Likharev, Schileyko, MS).
- Remark: See Remark to *Archaica suspecta*.

***Leucozonella ferghanica*** (Lindholm, 1927)

Fig. 116 F

*Cathaica ferghanica* Lindholm, 1927c: 264.

- Type locality: near Sary-Chelek Lake.
- Syntypes: ZIN, ZMMU No. Lc-14569.
- Dimensions: H 9.5-12.0, D 17-22 mm.
- Distribution: northern part of Chatkal Ridge and vicinities of Namangan (Likharev, Schileyko, MS).

***Leucozonella globuliformis*** (Lindholm, 1931)

Fig. 117 A

*Fruticicola globuliformis* Lindholm, 1931: 54, fig. 1.

- Type locality: near Gulcha, Alai Ridge.
- Syntypes: ZIN.
- Dimensions: H 10.0-10.5, D 12.0-13.5 mm.
- Distribution: Alai Ridge near Gulcha and near Papan village (Pazylov, Schileyko, 1992).

***Leucozonella hypophaea*** (Lindholm, 1927)

Fig. 117 B

[= *Fruticicola balgutensis* Lindholm, 1927; *Fruticicola balgutensis* f. *elatior* Lindholm, 1927]

*Fruticicola hypophaea* Lindholm, 1927b: 198.

- Type locality: Chatkal Ridge, Dzhuvan-Suget River valley.
- Syntypes: ZIN.

- Dimensions: H 9-11, D 12-15 mm.
- Distribution: Ferghana and Alai ridges (Likharev, Schileyko, MS).

***Leucozonella intermedia*** Uvalieva, 1995

Fig. 117 C

Uvalieva, 1995: 9-10, textfig. 3, pl. 1, fig. 3.

- Type locality: Pskem Ridge, Kalasan-Sai ravine.
- Holotype: ZIN.
- Dimensions: H 8.0-8.2, D 11.3-12.2 mm.
- Distribution: type locality.

***Leucozonella mesoleuca*** (Martens, 1882)

Fig. 117 D, E

[= *Helix rubens* var. *limitata* Westerlund, 1896]

*Helix mesoleuca* Martens, 1882b: 105-106.

- Type locality: “Kyzyl Art” (Alai Ridge).
- Types: unknown.
- Dimensions: H 6.5-8.0, D 9-15 mm.
- Distribution: Kirgiz, Talas, Chatkal, Ferghana, Alai, Zaalai, Turkestan and Kuramin ridges and foothills (Likharev, Schileyko, MS).

***Leucozonella mica*** (Tzvetkova, 1950)

Fig. 118 A

*Fruticola mica* Tzvetkova, 1950: 331.

- Type locality: Mynzhilke Canyon near Lugovaya station, Kirgiz Ridge.
- Lectotype (Schileyko, 1988a): ZMMU No. Lc-14407.
- Dimensions: H 5.0, D 7.5 mm (lectotype).
- Distribution: type locality.

***Leucozonella planulata*** Uvalieva, 1995

Fig. 118 B

Uvalieva, 1995: 6-8, textfig. 1, pl. 1, fig. 1.

- Type locality: Zailiyskij Ridge, Syugatinskie Mountains.
- Holotype: ZIN.
- Dimensions: H 6.5-10.0, D 12.7-17.0 mm.
- Distribution: Zailiyskij and Kungei ridges (Uvalieva, 1995).

***Leucozonella retteri*** (Rosen, 1897)

Fig. 118 C

[= *Helix retteri* f. *minor* Rosen, 1901]

*Helix retteri* Rosen, 1897: 170.

- Type locality: Amankutan near Samarkand.
- Lectotype (Baker, 1963): ANSP No. 210586a.
- Dimensions: H 8-12, D 15-19 mm.

- Distribution: Hissar, Peter the Great, Turkestan and Zeravshan ridges (Likharev, Schileyko, MS).

***Leucozonella rubens*** (Martens, 1874)

Fig. 118 D, E

[= *Helix rubens* var. *concolor* Martens, 1882; *Helix rubens* var. *finschiana* Martens, 1882; *Helix rubens* var. *zeiliana* Martens, 1882; *Helix rubens* var. *subangulata* Rosen, 1901] *Helix rubens* Martens, 1874: 12, pl. 1, fig. 6.

- Type locality: basin of upper Zeravshan River.
- Syntypes: ZMMU No. Lc-647.
- Dimensions: H 12-15, D 13-20 mm.
- Distribution: sporadically along all the mountains of Central Asia except for Kopet Dagh (Likharev, Schileyko, MS).
- Remark: See Remark to *Angiomphalia regeliana*.

***Leucozonella rufispira*** (Martens, 1874)

Fig. 119 A

[= *Helix rufispira* var. *albidorsalis* Martens, 1881; *Helix rufispira* var. *maracandensis* Rosen, 1901; *Helix rufispira* var. *farabensis* Rosen, 1901; *Helix rufispira* var. *excursa* Rosen, 1901; *Helix rufispira* var. *fuscior* Rosen, 1903; *Cathaica rufispira hispida* Jaeckel, 1956] *Helix rufispira* Martens, 1874: 9, pl. 1, fig. 38.

- Type locality: vicinities of Samarkand, Pyandzhikent, Magian and Kulikalan Lake.
- Syntypes: ZIN.
- Dimensions: H 6-12, D 9-17 mm.
- Distribution: Tien-Shan and foothills of Pamir (Likharev, Schileyko, MS).

***Leucozonella schileykoi*** Pazylov et Kuchbaev in Pazylov, Kuchbaev et Daminova, 2001

Textfig. 14

Pazylov et al., 2001: 57-58, fig. 1.

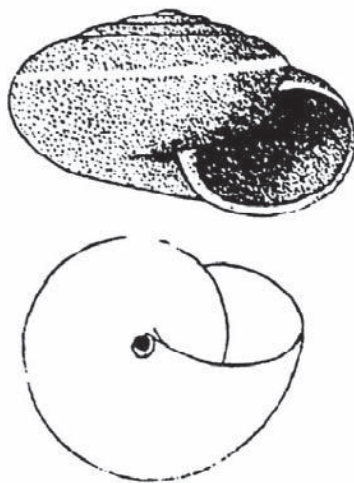
- Type locality: Turkestan Ridge, Chuyanchi village on Aksuv River.
- Holotype: Gulistan State University.
- Distribution: type locality.
- Remark: The authors of the species compared it to *L. globuliformis*; however, judging from the original description and the figure, it is conchologically more similar to *L. retteri* and differs from it by markedly narrower umbilicus.

***Leucozonella translucens*** Uvalieva, 1995

Fig. 119 B

Uvalieva, 1995: 8-9, textfig. 2, pl. 1, fig. 2.

- Type locality: Kirgiz Ridge, Tuiyk-Zhar.
- Holotype: ZIN.
- Dimensions: H 5.6-6.0, D 9-10 mm.
- Distribution: Kirgiz Ridge (Uvalieva, 1995).




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**Textfig. 14.** *Leucozonella schileykoi*, holotype, after Pazylov et al., 2001.

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***Nanaja*** Schileyko, 1978

Type species: *Nanaja cumulata* Schileyko, 1978 (OD)

***Nanaja chatkalica*** Kuznetsov, 1996

Fig. 119 C

Kuznetsov, 1996: 161, fig. 1 A, B.

- Type locality: Uzbekistan, Tashkent Region, Bostanlyk District, 6 km southward of Burchmulla settlement, Keksui Ridge, right bank of Chatkal River, lower third of south-western slope of Paltau Mountain.
- Holotype: ZMMU No. Lc-22839.
- Dimensions: H 2.9-3.5, D 6.2-7.6 mm.
- Distribution: Chatkal River valley (Kuznetsov, 1996).

***Nanaja cumulata*** Schileyko, 1978

Fig. 119 D

Schileyko, 1978b: 164-165, textfigs. 120-123, pl. 5, fig. 41.

- Type locality: Pskem Ridge, upper part of Pskem River, upstream from Nanai village.
- Holotype: ZIN.
- Dimensions: H 6.8-9.3, D 14.4-17.0 mm.
- Distribution: Pskem River valley (Likharev, Schileyko, MS).
- Remark: Conchologically does not differ from *Archaica heptapotamica*; anatomically differs by the presence of two pairs of stylophores while *A. heptapotamica* has only one pair sitting on vagina unilaterally.

***Nanaja illuminata*** Schileyko, 1978

Fig. 119 E

Schileyko, 1978b: 165-166, textfigs. 124-126, pl. 5, fig. 42.

- Type locality: western Tien-Shan, narrow side ravine in Pskem River valley, upstream from Nanai village.
- Holotype: ZIN.
- Dimensions: H 5.0-5.5, D 10.9-11.6 mm.
- Distribution: Pskem River valley (Likharev, Schileyko, MS).

***Odontotrema*** Lindholm, 1927

Type species: *Odontotrema diplodon* Lindholm, 1927 (OD)

***Odontotrema diplodon*** Lindholm, 1927

Fig. 120 A

Lindholm, 1927c: 268.

- Type locality: near Sary-Chelek Lake.
- Types: unknown.
- Dimensions: H 4.0-5.5, D 7-10 mm.
- Distribution: northeastern part of Chatkal Ridge (Likharev, Schileyko, MS).

***Odontotrema monodon*** Schileyko, 1988

Fig. 120 B

Schileyko, 1988a: 1307, fig. 3.

- Type locality: Ashmailya Canyon near Lugovaya station, Kirgiz Ridge.
- Holotype: ZMMU No. Lc-14442.
- Dimensions: H 3.2-3.5, D 6.6-7.5 mm.
- Distribution: western part of Kirgiz Ridge (Likharev, Schileyko, MS).

***Plicuteria*** Schileyko, 1978

Type species: *Helix lubomirskii* Slósarski, 1881 (OD)

***Plicuteria lubomirskii*** (Slósarski, 1881)

Fig. 120 C

[= *Helix clessini* Uličny, 1885]

*Helix lubomirskii* Slósarski, 1881: 29.

- Type locality: “na S-tym Krzyżu (Lysej Gorze) w Lipcu ... nadto ... na dziedzincu staroego zamku w Ogrodziencu w Lipcu” (Upper Silesia, Poland).
- Types: unknown.
- Dimensions: H 5.5-7.0, D 7-9 mm.
- Distribution: Carpathians, Ciscarpathia and western Podolsk Hills (Likharev, Schileyko, MS; Sverlova, 2006).

***Teberdina*** Schileyko, 1978

Type species: *Helix zolotarevi* Lindholm, 1913 [= *Helix flavolimbatus* O. Boettger, 1883] (OD)

***Teberdinia flavolimбата*** (O. Boettger, 1883)

Fig. 120 D

[= *Helix brjanskii* Rosen, 1914; *Helix zolotarevi* Lindholm, 1913; *Caucasigena reminiscenta* Schileyko, 1978]*Helix flavolimbatu*s Boettger, 1883: 162, pl. 5, fig. 6 a-d.

- Type locality: Svanetiya, Esheri village.
- Syntype: SMF No. 6639.
- Dimensions: H 6.7-7.5, D 11-14 mm.
- Distribution: Alpine and subalpine zones of western Great Caucasus (Likharev, Schileyko, MS).

***Trochulus*** Chemnitz, 1786Type species: *Helix hispida* Linnaeus, 1758 (SD Herrmannsen, 1849)[= *Trichia* Hartmann, 1840]***Trochulus bielzi*** (A. Schmidt in Bielz, 1860)

Fig. 121 A

*Helix bielzi* A. Schmidt – Bielz, 1860: 199.

- Type locality: northern Transylvania, Romania.
- Types: unknown.
- Dimensions: H 5-7, D 8-10 mm.
- Distribution: Carpathians (Likharev, Schileyko, MS).

***Trochulus concinnus*** (Jeffreys, 1830)

Fig. 121 B

[= *Helix nothra* Westerlund, 1897]*Helix concinna* Jeffreys, 1830: 336.

- Type locality: Great Britain, Welsh, Glamorgan near Swonsea.
- Types: unknown.
- Dimensions: H 3.5-5.0, D 6.5-9.5 mm.
- Distribution: probably western part of Ukraine and Byelorussia (Likharev, Schileyko, MS).

***Trochulus hispidus*** (Linnaeus, 1758)

Fig. 121 C

*Helix hispida* Linnaeus, 1758: 771.

- Type locality: “in Svecia”.
- Types: unknown.
- Dimensions: H 4.5-5.5, D 7.0-9.5 mm.
- Distribution: western and northwestern Ukraine (Sverlova, 2006); nearly entire European Russia (Likharev, Schileyko, MS).

***Trochulus villosulus*** (Ziegler in Rossmässler, 1838)

Fig. 121 D

[= *Helix pietruskyana* L. Pfeiffer, 1846]



*Helix villosa* var. *villosula* Ziegler – Rossmässler, 1838: 1.

- Type locality: Hungary.
- Syntype: SMF No. 183376.
- Dimensions: H 4.8-6.5, D 7.5-10.0 mm.
- Distribution: Carpathians and Ciscarpathia (Likharev, Schileyko, MS).

***Xeropicta*** Monterosato, 1893

Type species: *Helix krynickii* Andrzejowski in Krynicki, 1833 (monotypy)

***Xeropicta candaharica*** (L. Pfeiffer, 1846)

Fig. 122 A

[= *Helix millepunctata* O. Boettger, 1889]

*Helix candaharica* Pfeiffer, 1846a: 37.

- Type locality: “Candahar, East Indies” (Afghanistan).
- Types: unknown.
- Dimensions: H 8-10, D 14.5-16.0 mm.
- Distribution: Central Asia from eastern Kopet Dagh to Ferghana Ridge, Ferghana valley, Chatkal and western Kirgiz ridges and foothills (Likharev, Schileyko, MS).

***Xeropicta derbentina*** (Krynicki, 1836)

Fig. 122 B

[= *Helix derbentina* var. *isomera* Mousson, 1863; *Helix derbentina* var. *suprazonata* Mousson, 1863; *Xerophila* (*Helicella*) *derbentina* natio *minor* Puzanov, 1925]

*Helix derbentina* Krynicki, 1836: 192.

- Type locality: Pyatigorsk.
- Types: unknown.
- Dimensions: H 8-12, D 14-20 mm.
- Distribution: Crimea; Odessa, Nikolaev, Kherson, Zaporozhje regions of Ukraine; Sakharna Reserve and Kishinev (Chişinău) parks in Moldova; Caucasus (Likharev, Schileyko, MS; Sverlova, 2006).

***Xeropicta krynickii*** (Andrzejowski in Krynicki, 1833)

Fig. 122 C

[= *Helix theodosia* Clessin, 1881; *Xerophila krynickii* var. *odessana* Lindholm, 1908; *Xerophila* (*Heliomanes*) *Orianda* Puzanov, 1925]

*Helix krynickii* Andrzejowski – Krynicki, 1833: 434.

- Type locality: “Habitat inter montes calcareos Tauriae (Sevastopol, Inkerman, Shulya)”.
- Syntypes: MNHN.
- Dimensions: H 7.5-11.0, D 12-18 mm.
- Distribution: Crimea, Odessa, Nikolaev, Kherson regions of Ukraine; vicinities of Anapa, Novorossiisk, Astrakhan, Lenkoran lowland to Talysh by river valleys (Likharev, Schileyko, MS; Sverlova, 2006).
- Remark: Differs from *X. derbentina* by narrower umbilicus (through umbilicus one can see no more than ¼ of penultimate whorl whereas in *X. derbentina* – the whole whorl).

***Xeropicta parableta*** (O. Boettger, 1881)

Fig. 122 D

*Helix* (*Xerophila*) *parableta* Boettger, 1881a: 212-213, pl. 8, fig. 15 a-c.

- Type locality: debris of Araks River near Nakhichevan.
- Types: unknown.
- Dimensions: H 3-5, D 5.8-7.5 mm.
- Distribution: highland-steppe zone of Talysh (Likharev, Schileyko, MS).
- Remark: Differs from *X. derbentina* by lesser size and relatively higher spire.

## HYGROMIINAE Tryon, 1866

***Cernuella*** Schlüter, 1838Type species: *Helix variabilis* Draparnaud, 1801 (= *Cochlea virgata* Da Costa, 1778) (SD Gude, Woodward, 1921)***Cernuella virgata*** (Da Costa, 1778)

Fig. 123 A

[= *Helix variabilis* Draparnaud, 1801; *Xerophila euxina* Clessin, 1883; *Xerophila* (*Heliomanes*) *euxina natio grandis* Puzanov, 1925; *Xerophila* (*Heliomanes*) *euxina natio parvula* Puzanov, 1925]*Cochlea virgata* Da Costa, 1778: 79, pl. 4, fig. 8.

- Type locality: Oxfordshire, Hampshire, Cornwall, Cambridge (England).
- Types: unknown.
- Dimensions: H 8-12, D 12-16 mm.
- Distribution: southern coast of Crimea and vicinities of Novorossiisk (Likharev, Schileyko, MS).

***Chilanodon*** Westerlund, 1897Type species: *Helix sibirica* Westerlund, 1897 (= *Helix gerstfeldti* Dybowski, 1901) (monotypy)***Chilanodon bicallosa*** (L. Pfeiffer, 1853)

Fig. 123 B

*Helix bicallosa* Pfeiffer, 1853a: 638.

- Type locality: "Siberia".
- Types: unknown.
- Dimensions: H 6-7, D 8.0-9.5 mm.
- Distribution: Altai, southern Tomsk and Novosibirsk regions (Likharev, Schileyko, MS; Udaloj, Novikov, 2005b).

***Chilanodon gerstfeldti*** (W. Dybowski, 1901)

Fig. 123 C

[= *Helix sibirica* Westerlund, 1897, non L. Pfeiffer, 1853; *Chilanodon gerstfeldti* var. *depressior* Lindholm, 1912]

*Helix gerstfeldti* Dybowski W., 1901: 136-138, textfig.

- Type locality: “Mundung des Ussuri in den Amour”.
- Types: unknown.
- Dimensions: H 5.5-6.0, D 6.4-7.5 mm.
- Distribution: Cisbaikalia and Transbaikalia, along Amur River basin to Khabarovsk (Likharev, Schileyko, MS).

***Circassina*** Hesse, 1921

Type species: *Helix circassica* Charpentier in Mousson, 1863 (OD)

***Circassina christophori*** (Rosen, 1911)

Fig. 123 D

[= *Helix uruschtenica* Lindholm, 1927, nom. nov. pro *Helix christophori* Rosen, 1911; *Helix christophori* Rosen, 1911: 110.

- Type locality: “am Ufer des Uruschten, c. 30 Werst südlich Psebai” (southern Krasnodar Territory, Russia).
- Types: unknown.
- Dimensions: H 7.5-9.0, D 11.3-13.1 mm.
- Distribution: upper drainage area of the Malaya Laba River in the northwestern Caucasus (Hausdorf, 2001).
- Remark: Differs from all other species of the genus in the coarser granular sculpture and the wider umbilicus.

***Circassina frutis akramowskii*** Schileyko, 1972

Textfig. 15

Schileyko, 1972: 1135-1136.

- Type locality: northern Armenia.
- Holotype: Institute of Zoology, Armenia.
- Dimensions: H 14-19, D 18-22 mm.
- Remark: Subspecies of *C. frutis* differ from one another mainly anatomically: *frutis akramowskii* has stylophores only (mucus glands are absent); *frutis circassica* has both stylophores and mucus glands, *frutis frutis* has mucus glands only (stylophores are absent), in *frutis vesehyi* the vagina is simple, lacking both stylophores and mucus glands.

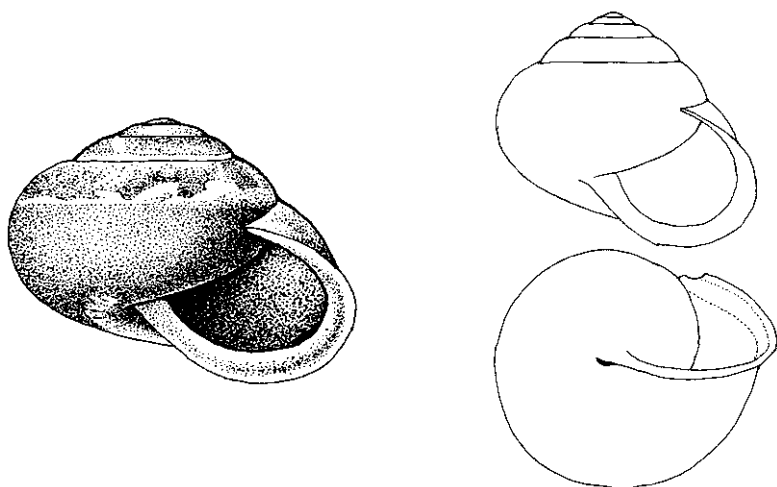
***Circassina frutis frutis*** (L. Pfeiffer, 1859)

Textfig. 16

[= ?*Helix flaveola* Kaleniczenko, 1853 (partim); ?*Helix colchica* Mousson, 1863; *Helix circassica* var. *rudis* Retowski, 1889]

*Helix frutis* Pfeiffer, 1859: 252.

- Type locality: “Réduktaleh” (= Redut-Kale = Qulevi, Georgia).
- Lectotype (Hausdorf, 2001): ZMZ No. 505748a.
- Dimensions: H 10.5-16.0, D 13.7-22.6 mm.



**Textfig. 15.** *Circassina frutis akramowskii*, Parz-lich Lake, Armenia.

**Textfig. 16.** *Circassina frutis frutis*, lectotype, after photo in Hausdorf, 2001.

- Distribution: western Georgia from Adzharia in the southeast to Kutaisi and surroundings of Sukhumi in the northeast; Stavropol (Hausdorf, 2001).

***Circassina frutis circassica*** (Charpentier in Mousson, 1863)

Fig. 124 A

[= ?*Helix colchica* Mousson, 1863; *Helix Nymphaea* Mousson, 1863 (partim?); *Circassina bojanae* Hudec et Lezhawa, 1969]

*Helix circassica* Charpentier – Mousson, 1863: 370-371.

- Type locality: “Nakolakevi” (Nakalakevi, Imeretia, Georgia).
- Lectotype (Hausdorf, 2001): ZMZ No. 50575a.
- Dimensions: H 14.3-18.1, D 18.7-24.6 mm.
- Distribution: southern slopes of Caucasus in northern Georgia and adjacent Russia, Trialeti Ridge in southern Georgia (Hausdorf, 2001).

***Circassina frutis veselyi*** (Frankenberger, 1919)

Fig. 124 B

[= *Helix aurea* Rosen, 1911, non Dillwyn, 1817; *Circassina circassica simpla* Schileyko, 1972; *Metafruticicola (Metafruticicola) schileykoi* Hudec, 1972, nom. nov. pro *Helix aurea* Rosen, 1911]

*Fruticicola (Monacha) veselyi* Frankenberger, 1919: 72, fig. 6.

- Type locality: “Ananur” (Ananuri, Georgia).
- Lectotype (Kroupa, 1988): Národní Muzeum, Praha, Czechia.

- Dimensions: H 12.1-16.2, D 16.2-20.7 mm.
- Distribution: north slope of Caucasus from the Belaya valley in the west to the Assa valley in the east, also eastern Georgia and northernmost Armenia; probable isolated occurrences on southern slopes of Caucasus (Abkhazia and Imereti Ridge in south-western Georgia) (Hausdorf, 2001).

***Circassina pachnodes*** (O. Boettger, 1884)

Fig. 124 C

*Helix pachnodes* Boettger, 1884: 150.

- Type locality: “Uetsch-Deré” (Georgia).
- Lectotype (Hausdorf, 2001): SMF No. 6232.
- Dimensions: H 9.3-13.8, D 13.1-17.4 mm.
- Distribution: southwest slope of Caucasus from the Shakhe valley in the northwest to the Bzyb valley in the southeast (Hausdorf, 2001).
- Remark: The shell of this species cannot be distinguished from *C. septentrionalis*, from which it differs in relatively longer epiphallus. Differs from *C. pergranulata* and *C. stephaniae* in the less distinct granular sculpture which is replaced by fine parallel striae on the penultimate whorl.

***Circassina pergranulata*** Hausdorf, 2001

Fig. 124 D

[= *Hela stephaniae* Hudec et Lezhawa, 1970 (partim)]

Hausdorf, 2001: 442-443, figs. 9, 17, 26, 30.

- Type locality: Mamdzykha Mount above Gagra, Abkhazia, Georgia.
- Holotype: ZMH No. 2864.
- Dimensions: H 9.9-14.6, D 13.4-18.8 mm.
- Distribution: surroundings of Gagra, Abkhazia, Georgia (Hausdorf, 2001).
- Remark: Differs from *C. pachnodes* and *C. septentrionalis* in more distinct granular sculpture which is also present on the lower whorls and the basal side. Conchologically cannot be distinguished from *C. stephaniae*, from which it differs in the relatively longer epiphallus.

***Circassina septentrionalis*** Hausdorf, 2001

Fig. 125 A

Hausdorf, 2001: 443-444, figs. 10, 18, 27, 30.

- Type locality: Russia: Maykop.
- Holotype: SMF No. 138802a.
- Dimensions: H 9.2-12.8, D 13.2-17.2 mm.
- Distribution: north slope of Caucasus (Maikop, Dakhovskaya) and south slope as far southwest as Lazarevskoye (Hausdorf, 2001).

***Circassina stephaniae*** (Hudec et Lezhawa, 1970)

Fig. 125 B

*Hela stephaniae* Hudec, Lezhawa, 1970: 16, figs. 1, 10 (partim).

- Type locality: Novyi Afon, Abkhazia.
- Holotype: Národní Muzeum, Praha, Czechia, No. 7066, 7067.
- Dimensions: H 14-19, D 18-23 mm.
- Distribution: type locality (Hausdorf, 2001).

***Fruticocampylaea* Kobelt, 1871**

Type species: *Helix narzanensis* Krynicki, 1836 (SD Lindholm, 1928)

***Fruticocampylaea kobiensis* (O. Boettger, 1883)**

Fig. 125 C

[= *Helix kobiensis* var. *fluxa* Rosen, 1914; ? *Helix schelkovnikovi* Rosen, 1914]

*Helix kobiensis* Boettger, 1883: 166.

- Type locality: Pasanauri near Aragvi River, Georgia.
- Probable syntype: SMF No. 6199.
- Dimensions: H 8-11, D 11.5-18.0 mm.
- Distribution: southern slopes of central Great Caucasus (Likharev, Schileyko, MS).
- Remark: Similar to *F. narzanensis* (see Remark to that species) and *Hesseola solidior*, from the latter it differs by less number of whorls (no more than 5.5 while in *H. solidior* it is no less than 6) and a little wider umbilicus (about 1.5 whorls is seen through umbilicus (in *H. solidior* – no more than 1 whorl).

According to Hausdorf (2003), this name is a synonym of *Helix pratensis* var. *bayerii* L. Pfeiffer, 1859. The actual taxonomic position of the species may be established only after dissection of material from the type locality (Rachinsky Ridge, Georgia). If the synonymization is supported, this species should be named *Fruticocampylaea bayerii* (L. Pfeiffer, 1859).

***Fruticocampylaea narzanensis* (Krynicki, 1836)**

Fig. 125 D

[= *Helix narzanensis* var. *suanetica* O. Boettger, 1883; *Helix narzanensis* var. *macromphala* O. Boettger, 1883; *Helix narzanensis* var. *cyclothira* O. Boettger, 1883; *Fruticocampylaea schamyli* Lindholm, 1922]

*Helix narzanensis* Krynicki, 1836: 172.

- Type locality: “In Caucaso ad balneas narzanensis”.
- Syntypes: ZIN.
- Dimensions: H 10-15, D 14-24 mm.
- Distribution: almost entire Caucasus except for Colchis lowland, Adzharia, Kuro-Araks lowland and Talysh (Likharev, Schileyko, MS).
- Remark: Differs from *F. kobiensis* by wider umbilicus and unequal dark bands (in *F. kobiensis* both spiral bands are equally developed).

***Kalitinaia* Hudec et Lezhawa, 1967**

Type species: *Helix schelkovnikovi* Bogatshev, 1936, non Rosen, 1914 (= *Kalitinaia perspectiva* Hausdorf, 1993) (OD)

***Kalitinaia arcadiana*** (Schileyko, 1967)

Fig. 126 A

*Helicella arcadiana* Schileyko, 1967: 28, figs. 1, 3A.

- Type locality: Azerbaijan, Talysh, Zuvand Plateau, 2 km eastward of Kosmalyan village.
- Holotype: ZMMU No. Lc-14479, 4844.
- Dimensions: H 4.5-6.3, D 8.0-9.7 mm.
- Distribution: Zuvand, Talysh (Likharev, Schileyko, MS).

***Kalitinaia crenimargo*** (L. Pfeiffer, 1848)

Fig. 126 B

[= *Helix crenimargo* var. *obtusior* Mousson, 1876; ? *Helix acutistria* O. Boettger, 1880]

*Helix crenimargo* Pfeiffer, 1848: 174.

- Type locality: Caucasus.
- Types: unknown.
- Dimensions: H 5.0-6.5, D 8-11 mm.
- Distribution: central and eastern Ciscaucasia, Daghestan, eastern Transcaucasia (Likharev, Schileyko, MS).

***Kalitinaia gvozdevi*** (Soboleva, Rymzhanov et Plachov, 1995)

*Xerosecta gvozdevi* Soboleva et al., 1995: 141-143, figs. 1-2.

- Type locality: Aktau-Buzachinsky Reserve, 30 km west of Tauchik settlement.
- Holotype: Institute of Zoology of National Academy of Sciences of Kazakhstan Republic.
- Dimensions: H 6.0-7.5, D 10.5-12.5 mm.
- Distribution: type locality.

***Kalitinaia orientalis*** (Uvalieva et Sacharnova in Uvalieva, 1995)

Fig. 126 C

*Xerosecta orientalis* Uvalieva et Sacharnova – Uvalieva, 1995: 12-13, textfig. 5, pl. 1, fig. 5.

- Type locality: West Kazakhstan, Obshchie Syrty.
- Holotype: ZIN.
- Dimensions: H 7.5, D 11.7 mm.
- Distribution: type locality.

***Kalitinaia perspectiva*** Hausdorf, 1993

Fig. 127 A-B

Hausdorf, 1993: 44 (nom. nov. pro *Helix schelkovnikovi* Bogatshev, 1936, non *Helix schelkovnikovi* Rosen, 1914).

- Type locality: Apsheron deposits (Upper Pliocene) of Kura depression near Mingechauri.
- Types: unknown.
- Dimensions: H 5-7, D 12-15 mm.
- Distribution: near Kura River, vicinities of Kaspi (eastern Georgia) and Samukha (western Azerbaijan) (Likharev, Schileyko, MS).

***Kalitinaia tiflisiana*** (Lindholm, 1913)

Fig. 126 D

*Xerophila tiflisiana* Lindholm, 1913: 20.

- Type locality: Mta-Tzmindia mountain slope, Tbilisi.
- Syntype: ZIN.
- Dimensions: H 6.0-6.6, D 10.5-13.3 mm.
- Distribution: Tbilisi with vicinities and Darjyal Canyon (Likharev, Schileyko, MS).

***Lindholmomneme*** Haas, 1936Type species: *Helix (Trichia) rhyssota* var. *altaica* Westerlund, 1896 (OD)***Lindholmomneme altaica*** (Westerlund, 1896)

Fig. 127 C

*Helix (Trichia) rhyssota* var. *altaica* Westerlund, 1896:13.

- Type locality: “Am See Jabagan” (Russia, Mountain Altai, Ust-Kan District, Anui Ridge, near Yabogan settlement on the shore of Yabogan Lake).
- Types: unknown.
- Dimensions: H 7.2-8.0, D 11.2-13.3 mm.
- Distribution: West Altai, Abakan Ridge (Kuznetsov, Schileyko, 1999).

***Lindholmomneme nordenskioldi*** (Westerlund, 1876)

Fig. 127 D

*Helix (Eulota) nordenskioldi* Westerlund, 1876a: 97-98.

- Type locality: “ad Jenissei adversus Chantojskoj (lat. 68°5’), prope Podk. Tunguska (lat. 61°) et inter Krasnojarsk (lat. 56°) et Tomsk”.
- Syntypes: NHMS, possibly ZMMU (Kuznetsov, Schileyko, 1999).
- Dimensions: H 7.5-10.0, D 11.5-15.6 mm.
- Distribution: Altai, Salair and Abakan ridges (Kuznetsov, Schileyko, 1999).

***Lindholmomneme notophila*** (Cockerell, 1924)

Fig. 127 E

*Hygromia notophila* Cockerell, 1924: 581.

- Type locality: Primorye Territory, vicinities of Kongauz.
- Types: unknown.
- Dimensions: H 6-9, D 11.0-13.5 mm.
- Distribution: Primorye Territory, vicinities of Kongauz, Chernigovka and coast of Peschanka Bay near Vladivostok (Likharev, Schileyko, MS); Sakhalin (Prozorova, Berezhok, 2004).

***Lindholmomneme rhyssota*** (Westerlund, 1896)

Fig. 128 A

*Helix (Trichia) rhyssota* Westerlund, 1896: 13.



- Type locality: “Am Fusse der Berge Kyrlygan und Alatau (im oberen Laufe von Neni nahe Tomj)” (Russia, Altai Territory, Solton District, Salair Ridge, slope of Kyrlygan Mount and in mountains in upper reaches of the Neniya River).
- Lectotype (Kuznetsov, Schileyko, 1999): Zoologiska Institutionen, Göteborg No. 504.
- Dimensions: H 6.8-9.5, D 11.3-13.2 mm.
- Distribution: Salair, Abakan, West Sayan ridges (Kuznetsov, Schileyko, 1999).

***Lindholmomneme turbinatum*** Uvalieva, 1995

Fig. 128 B

Uvalieva, 1995: 10-12, textfig. 4, pl. 1, fig 4.

- Type locality: Semipalatinsk Region, Zhana-Semei District, near pioneer camp “Orbita” (Kazakhstan, right side of Irtysh River valley).
- Holotype: ZIN.
- Dimensions: H 7.7-9.2, D 11.3-13.1 mm.
- Distribution: Kazakhstan, Irtysh River basin (Kuznetsov, Schileyko, 1999).

***Lindholmomneme westerlundi*** Kuznetsov in Kuznetsov et Schileyko, 1999

Fig. 128 C

Kuznetsov, Schileyko, 1999: 34-36, fig. 5.

- Type locality: Russia, Krasnoyarsk Territory, Divnogorsk District, East Sayan, “Stolby” Reserve, flood-lands of right bank of Laletina River (right tributary of Yenisei River), 2.5-3 km southward of “Krasnoyarsk-Divnogorsk” road.
- Holotype: ZMMU No. Lc-23369.
- Dimensions: H 5.5-8.0, D 11.5-13.8 mm.
- Distribution: Yenisei River valley on the territory of West and East Sayan (from the dam of Sayano-Shusha hydroelectric power plant to “Stolby” Reserve) (Kuznetsov, Schileyko, 1999).

? ***Lindholmomneme boevi*** (Uvalieva, 1967)

Fig. 128 D

*Bradybaena boevi* Uvalieva, 1967: 216, figs. 4, 5.

- Type locality: north of Altai village, southern Altai.
- Holotype: ZIN.
- Dimensions: H 12.0, D 17.3 mm (holotype).
- Distribution: type locality.
- Remark: Schileyko (1978b) believes that this species most probably does not belong to Bradybaenidae but is similar to representatives of Hygromiidae. The original description and figures do not allow to decide on its taxonomic position without an additional study.

***Monachoides*** Gude et Wodward, 1921

Type species: *Helix incarnata* Müller, 1774 (OD)

***Monachoides incarnata*** (Müller, 1774)

Fig. 129 A

*Helix incarnata* Müller, 1774: 63.

- Type locality: not designated.
- Types: unknown.
- Dimensions: H 9-11, D 12-16 mm.
- Distribution: Carpathians and Ciscarpathia (Likharev, Schileyko, MS).

***Monachoides vicina*** (Rossmässler, 1842)

Fig. 129 B, C

*Helix vicina* Rossmässler, 1842: 3, pl. 51, fig. 689.

- Type locality: Carpathians.
- Holotype: SMF No. 6740.
- Dimensions: H 8.5-11.5, D 12.0-15.5 mm.
- Distribution: Ukraine: Carpathians, Transcarpathia and Ciscarpathia, Podolsk Hills, area between Prut and Dniester rivers, eastward to Vinnitsa Region, northward to Rovno Region (Sverlova, 2006).
- Remark: Differs from *M. incarnata* by umbilicus: it is completely closed or in form of very narrow slit (in *M. incarnata* umbilicus is open or, at most, semicovered).

***Noneulota*** Schileyko et Horsák, 2007Type species: *Noneulota surprisa* Schileyko et Horsák, 2007 (OD)***Noneulota khakassica*** Schileyko, Horsák et Cheremnov in Schileyko et Horsák, 2007

Fig. 129 D

Schileyko, Horsák, 2007: 71, fig. 3.

- Type locality: Altai, Khakassia, Tashtyp settlement
- Holotype: ZMMU No. Lc-22805.
- Dimensions: H 4.4-5.0, D 4.6-10.3 mm.
- Distribution: type locality.

***Noneulota surprisa*** Schileyko et Horsák, 2007

Fig. 129 E

Schileyko, Horsák, 2007: 70-71, figs. 1-2.

- Type locality: Russia, Altai Republic, Altai Mountains, Turochak district, Ust'-Lyzha settlement, a slope 1.5 km NE of the settlement, 51°51'19.1"N, 87°06'57.5"E, 435 m above sea level.
- Holotype: ZMMU No. Lc-37341.
- Dimensions: H 4.5-5.0, D 8.9-10.3 mm.
- Distribution: type locality.

***Perforatella*** Schlüter, 1838Type species: *Trochus bidens* Chemnitz, 1786 (= *Helix bidentata* Gmelin, 1791) (monotypy)

***Perforatella bidentata*** (Gmelin, 1791)

Fig. 130 A

*Helix bidentata* Gmelin, 1791: 3642.

- Type locality: Europe.
- Types: unknown.
- Dimensions: H 5.0-6.5, D 7-9 mm.
- Distribution: East European Plain (Likharev, Schileyko, MS).

***Perforatella dibothrion*** (Kimakowicz, 1883)

Fig. 130 B

*Fruticicola dibothrion* Kimakowicz, 1883: 47.

- Type locality: vicinities of Mukatchevo.
- Types: unknown.
- Dimensions: H 7-10, D 9-12 mm.
- Distribution: Carpathians, Ciscarpathia, western Ukraine (Sverlova, 2006).
- Remark: Differs from *P. bidentata* mainly by larger size: diameter is no less than 10 mm (10-12 mm) whereas diameter of *P. bidentata* is no more than 9 mm (7-9 mm).

***Pseudotrachia*** Likharev, 1949

Type species: *Tricheulota shadini* Likharev, 1949 (= *Helix rubiginosa* Ziegler in Rossmässler, 1838) (monotypy)

***Pseudotrachia rubiginosa*** (Ziegler in Rossmässler, 1838)

Fig. 130 C

[= *Fruticicola czarnoborica* Poliński, 1924; *Tricheulota shadini* Likharev, 1949]

*Helix rubiginosa* Ziegler – Rossmässler, 1838: 3.

- Type locality: not stated.
- Types: unknown.
- Dimensions: H 4.3-6.5, D 6-9 mm.
- Distribution: almost entire Palearctic (Likharev, Schileyko, MS).

***Shileykoia*** Hudec, 1969

Type species: *Helix daghestana* Kobelt, 1877 (OD)

***Shileykoia daghestana*** (Kobelt, 1877)

Fig. 131 A-C

[= *Helix* (?) *aliostroma* Westerlund, 1898; *Helix eichwaldi* var. *albocostata* Retowski, 1914;

*Helix eichwaldi* var. *königi* Retowski, 1914; *Shileykoia lithophila* Schileyko, 1972]

*Helix daghestana* Kobelt, 1877: 28, pl. 126, fig. 1217.

- Type locality: Daghestan.
- Probable syntype: SMF No. 101244 (coll. C.R. Boettger 1906, labelled by Zilch as “Neotype”, most probably taken by Boettger from Kobelt’s material – R. Janssen, pers. comm.).
- Dimensions: H 4.0-8.5, D 8-19 mm.

- Distribution: mountain Daghestan and slopes of eastern Great Caucasus (Likharev, Schileyko, MS).

***Stygius*** Schileyko, 1970

Type species: *Zenobiella aculeata* Uvalieva, 1964 (OD)

***Stygius aculeatus*** (Uvalieva, 1964)

Fig. 131 D, E

*Zenobiella aculeata* Uvalieva, 1964: 201, figs. 1-3.

- Type locality: Altai, vicinities of Verkhnekhatunsk.
- Holotype: ZIN.
- Dimensions: H 6.0-6.5, D 7.3-8.5 mm.
- Distribution: Altai, southern Tomsk and Novosibirsk regions (Udaloi, Novikov, 2005b).

***Stygius stuxbergi*** (Westerlund, 1876)

Fig. 132 A, B

[= *Helix verna* Westerlund, 1897; *Helix czechanowskii* Westerlund, 1897]

*Helix stuxbergi* Westerlund, 1876b: 98.

- Type locality: Siberia, Khantaiskoye Lake, 68°5' N.
- Lectotype (Schileyko, 1978b): NHMS No. 1654.
- Dimensions: H 5-6, D 7.0-9.5 mm.
- Distribution: from Khamardaban Ridge to Dudinka along Angara and Yenisei rivers (Likharev, Schileyko, MS).

***Urticicola*** Lindholm, 1927

Type species: *Helix umbrosa* Partsch in C. Pfeiffer, 1828 (OD)

***Urticicola umbrosa*** (Partsch in C. Pfeiffer, 1828)

Fig. 130 D

*Helix umbrosa* Partsch – Pfeiffer, 1828: 27-28, pl. 6, fig. 7.

- Type locality: islands on Danube river near Vienna.
- Types: unknown.
- Dimensions: H 5.5-7.0, D 10-14 mm.
- Distribution: Carpathians and Ciscarpathia (Likharev, Schileyko, MS).
- Remark: Very similar to *Prostenomphalia carpathica*. Differs by more depressed shell, wider umbilicus, and slightly angulated last whorl.

**ARCHAICINAE** Schileyko, 1978

***Archaica*** Schileyko, 1970

Type species: *Helix apollinis* Martens, 1882 (OD)

***Archaica apollinis*** (Martens, 1882)

Fig. 132 C

[= *Helix diaphora* Westerlund, 1896; *Cathaica apollinis nubila* Lindholm, 1931]

*Helix apollinis* Martens, 1882b: 105.

- Type locality: “Andidjan in valle fluvii Naryn”.
- Types: unknown.
- Dimensions: H 7-9, D 10-17 mm.
- Distribution: Ferghana and Alai ridges (Likharev, Schileyko, MS).

***Archaica heptapotamica*** (Lindholm, 1927)

Fig. 132 D, E

[= *Cathaica tianschanica* Lindholm, 1927; *Cathaica kokpoktasica* Tzvetkova, 1950; *Cathaica heptapotamica dsbambuli* Tzvetkova, 1950; *Zenobiella tzvetkovi* Matiokin, 1966]

*Cathaica heptapotamica* Lindholm, 1927c: 265.

- Type locality: Kuldja and Issyk-Kul.
- Syntypes: ZIN, ZMMU No. 14410.
- Dimensions: H 6-10, D 12-17 mm.
- Distribution: northwestern Ferghana and Chatkal and central Talas ridges westward to westernmost part of Tien-Shan; further along Kirgiz Ridge eastward to Issyk-Kul and adjacent regions of China (Likharev, Schileyko, MS).

***Archaica labianix*** Schileyko, 1978

Fig. 133 A

Schileyko, 1978b: 261, pl. 14, fig. 139, textfigs. 323-327.

- Type locality: upper reaches of Pskem River.
- Holotype: ZIN.
- Dimensions: H 5.0-5.5, D 9.0-10.5 mm.
- Distribution: upper reaches of Pskem River (Likharev, Schileyko, MS).
- Remark: Conchologically very similar to *Paedhoplita buamica*; differs by slightly wider umbilicus and more smoothed angle above periphery.

***Archaica papanica*** Pazylov et Schileyko, 1992

Fig. 133 B

Pazylov, Schileyko, 1992: 61-62, fig. 2.

- Type locality: Papan village on Ak-Buura River, Alai Ridge.
- Holotype: ZMMU No. Lc-17982.
- Dimensions: H 10-11, D 12-13 mm.
- Distribution: type locality.

***Archaica suspecta*** Schileyko et Moisseeva, 1989

Fig. 133 C

Schileyko, Moisseeva, 1989: 141, figs. 2, I; 3, I.

- Type locality: Yangskyr Mountains, valley of Pchan River (right tributary of Ala-Buka River, Naryn river basin).

- Holotype: ZMMU No. Lc-14440, 19084.
- Dimensions: H 5.2-7.5, D 9.5-11.2 mm.
- Distribution: type locality.
- Remark: Conchologically hardly differs from *Leucozonella crassica*, the only distinction is that the lip in *A. suspecta* is more developed. Anatomically differs by the presence of a pair of stylophores while in *L. crassica* there are 2 pairs of stylophores.

## MONACHAINAE Wenz, 1930 (1904)

### ***Euomphalia*** Westerlund, 1889

Type species: *Helix strigella* Draparnaud, 1801 (SD Kobelt, 1904)

### ***Euomphalia appeliiana*** (Mousson, 1876)

Fig. 133 D

[= *Helix narzanensis* var. *appeliusi* f. *depressa* O. Boettger, 1883]

*Helix appeliiana* Mousson, 1876a: 32-33, pl. 2, fig. 3.

- Type locality: Kislovodsk.
- Syntype: ZMZ No. 505745.
- Dimensions: H 12-14, D 17-20 mm.
- Distribution: horseshoe area around western wing of Great Caucasus from Kislovodsk to Novorossiisk, along coast of Black Sea and Abkhazia (Likharev, Schileyko, MS).

### ***Euomphalia aristata*** (Krynicky, 1836)

Fig. 134 A

[= ?*Helix (Trichia) chrysotricha* O. Boettger, 1888]

*Helix aristata* Krynicky, 1836: 179.

- Type locality: “in Caucaso (Narzanya)”.
- Syntypes: ZIN.
- Dimensions: H 12-15, D 16-21 mm.
- Distribution: central and western parts of North Caucasus and Georgia, southward to Imereti Ridge (Likharev, Schileyko, MS).

### ***Euomphalia strigella*** (Draparnaud, 1801)

Fig. 134 B

[= *Helix podolica* Westerlund, 1897]

*Helix strigella* Draparnaud, 1801: 84-85.

- Type locality: not stated (France – from title).
- Syntypes: NHMV.
- Dimensions: H 9-12, D 13-19 mm.
- Distribution: East-European Plain to 61° N in the north, to the Black and Caspian seas in the south, to left bank of the Volga in the east; isolated findings in Ural (Belaya River basin and vicinities of Ekaterinburg) (Likharev, Schileyko, MS).

**Karabaghia** Lindholm, 1927

Type species: *Perforatella bituberosa* Lindholm, 1927 (OD)

**Karabaghia bituberosa** (Lindholm, 1927)

Fig. 134 C

[= *Helix bifrons* Rosen, 1914, non Lowe, 1833]

*Perforatella bituberosa* Lindholm, 1927a: 124.

- Type locality: Nagorny Karabakh, Zindzhirlu Ridge.
- Types: unknown.
- Dimensions: H 4.0-4.5, D 6.0-6.5 mm.
- Distribution: highland of Nagorny Karabakh, Pambak and Sevan ridges in Armenia (Likharev, Schileyko, MS).

**Monacha** Fitzinger, 1833

Type species: *Helix cartusiana* Müller, 1774 (SD Herrmannsen, 1847)

**Monacha cartusiana** (Müller, 1774)

Fig. 134 D

*Helix cartusiana* Müller, 1774: 15.

- Type locality: “in Gallia”.
- Types: unknown.
- Dimensions: H 4.7-10.0, D 8.1-16.0 mm.
- Distribution: southern Ukraine, Crimea, vicinities of Novorossiisk (Likharev, Schileyko, MS); several probably introduced populations in western Ukraine (Sverlova, 2006).

**Monacha ciscaucasica** Hausdorf, 2000

Fig. 135 A

Hausdorf, 2000: 1586-1587, figs. 5, 14.

- Type locality: Pyatigorsk, Mashuk Mount.
- Holotype: ZMH No. 2771.
- Dimensions: H 5.7-9.4, D 8.3-13.9 mm.
- Distribution: surroundings of Pyatigorsk in North Caucasus (Hausdorf, 2000).
- Remark: See Remark to *Kokotschashvilia caucasicola*. Species of the genus *Monacha* often can be reliably recognized mainly by anatomical characters (Hausdorf, 2000). Conchologically *M. ciscaucasica* cannot be distinguished from *M. roseni*, differing by proportions of length of penial papilla (verge) in relation to the epiphallus (Hausdorf, 2000). However, the length of elements of reproductive tract can depend on functional condition and fixation; therefore we admit that *M. ciscaucasica* could be a junior synonym of *M. roseni*.

**Monacha claussi** Hausdorf, 2000

Fig. 135 B

Hausdorf, 2000: 1576-1580, figs. 1, 10.

- Type locality: Russia: gorge between Monastyrka and Kepsh.
- Holotype: ZMH No. 2765.

- Dimensions: H 8.7-11.7, D 16.4-20.9 mm.
- Distribution: Mzymta valley, Caucasus (Hausdorf, 2000).
- Remark: Differs from all other species of the genus by strongly depressed shell and a comparatively wide umbilicus.

***Monacha fruticola*** (Krynicky, 1833)

Fig. 135 C

[= *Theba fruticola natio tenera* Puzanov, 1925]

*Helix fruticola* Krynicky, 1833: 429-430.

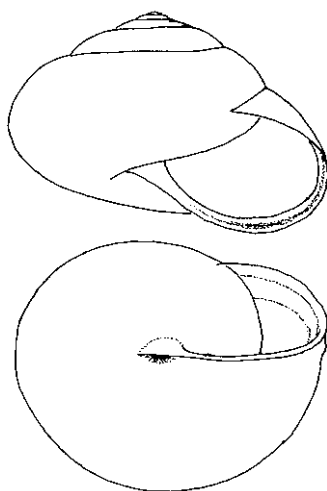
- Type locality: “Habitat in montosis fruticetis Tauriae meridionalis (Simferopol, Shulya, Baidarskaya dolina, Yuzhnyi bereg)”.
- Syntypes: ZIN.
- Dimensions: H 12-15, D 14-20 mm.
- Distribution: Crimea, cities and other localities in Odessa, Nikolaev, Kherson regions, found also in Zaporozhje (Likharev, Schileyko, MS; Sverlova, 2006).

***Monacha kuznetsovi*** Hausdorf, 2000

Textfig. 17

Hausdorf, 2000: 1581-1583: figs. 2. 11.

- Type locality: Russia: SW slope of the Markoth Gora NE of Gelendzhik.
- Holotype: ZMH No. 2767.
- Dimensions: H 8.4-9.8, D 12.1-13.7 mm.
- Distribution: type locality (Hausdorf, 2000).
- Remark: See Remark to *M. ciscaucasica*. The shell of *M. kuznetsovi* can hardly be distinguished from *M. roseni*, differing by light-corneous color, whereas the shell of *M.*




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**Textfig. 17.** *Monacha kuznetsovi*, after photo in Hausdorf, 2001.

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*roseni* is usually whitish, and the umbilicus of *M. kuznetsovi* is on average slightly narrower than that of *M. roseni*.

### ***Monacha perfrequens*** (Hesse, 1914)

Fig. 135 D

[= *Helix perfrequens* O. Boettger, 1883 nom. nud.; *Helix frequens* var. *obscura* Mousson, 1863, non Müller, 1774; *Helix frequens* f. *minor* O. Boettger, 1884]

*Monacha samsunensis perfrequens* Hesse, 1914: 259.

- Type locality: “Kutais”.
- Lectotype (Hausdorf, 2000): SMF No. 6572.
- Dimensions: H 5.8-10.1, D 8.5-15.0 mm.
- Distribution: western Caucasus (Hausdorf, 2000).
- Remark: See Remark to *M. ciscaucasica*. *M. perfrequens* differs from all other Caucasian species of *Monacha* in the very narrow, partly or almost completely obscured umbilicus.

### ***Monacha roseni*** (Hesse, 1914)

Fig. 136 A

[= *Helix carascaloides* O. Boettger, 1884 partim, non Bourguignat, 1856; *Theba elevata* Hesse, 1931; *Monacha caucasicola* sensu Schileyko, 1978; *Monacha tschegemica* Schileyko, 1988]

*Helix orientalis roseni* Hesse, 1914: 263.

- Type locality: “Suvorovka”, Russia.
- Lectotype (Hausdorf, 2000:1584): SMF No. 6606a.
- Dimensions: H 6.6-11.5, D 9.8-17.7 mm.
- Distribution: western Caucasus (Hausdorf, 2000).
- Remark: Conchologically very similar to *Kokotschashvilia caucasicola* and *Stenomphalia selecta*.

### ***Monacha samsunensis*** (L. Pfeiffer, 1868)

Fig. 136 B

[= *Helix bifaria* Westerlund, 1889; *Helix perfrequens* O. Boettger, 1891; *Theba scrobiculosa* Lindholm, 1922; *Theba scrobiculosa* var. *perforata* Lindholm, 1922]

*Helix samsunensis* Pfeiffer, 1868: 480.

- Type locality: Samsun, Northern Turkey.
- Types: unknown.
- Dimensions: H 6.7-13.0, D 11.0-19.1 mm.
- Distribution: along the coast of the Black Sea between Gelendzhik and Psou valley (Hausdorf, 2000).
- Remark: Since there are no reliable indications to the presence of this species in Georgia (Hausdorf, 2000), perhaps it lives in Adzharia near the Turkish border. The species is somewhat similar to *M. subcarthusiana*, differing in narrower umbilicus, corneous color and the presence of distinct hair-scars.

### ***Monacha subcarthusiana*** (Lindholm, 1913)

Fig. 136 C

[= *Helix carascaloides* O. Boettger, 1884, part., non Bourguignat, 1856]

*Helix subcarthusiana* Lindholm, 1913: 139.

- Type locality: Sochi, on slope of mountain with lighthouse.
- Lectotype (Schileyko, 1978b): ZIN.
- Dimensions: H 6.7-11.5, D 11.8-17.0 mm.
- Distribution: western part of North Caucasus from Pyatigorsk to Black Sea and southward along the coast to Colchis lowland (Likharev, Schileyko, MS).
- Remark: Conchologically differs from other species of the genus by wider, open umbilicus.

***Monacha talischana*** (Martens, 1880)

Fig. 136 D, E

[= *Theba longiflagellata* Schileyko, 1968; *Theba maxima* Schileyko, 1968]

*Helix talischana* Martens, 1880a: 396-397.

- Type locality: “Lenkoran, Provinz Talisch”.
- Types: unknown.
- Dimensions: H 7.5-17.0, D 11.0-17.5 mm.
- Distribution: Lenkoran lowland and zone of mountain forests of Talysh (Likharev, Schileyko, MS).

***Oscarboettgeria*** Lindholm, 1927

Type species: *Helix euages* O. Boettger, 1883 (OD)

***Oscarboettgeria euages*** (O. Boettger, 1883)

Fig. 137 C, D

[= *Helix gagriensis* Rosen, 1911]

*Helix euages* Boettger, 1883: 161, pl. 4, fig. 2, pl. 6, fig. 1.

- Type locality: Psyrtskha near Novyi Afon.
- Syntype: SMF No. 6179.
- Dimensions: H 9-13, D 14-18 mm.
- Distribution: western slopes of Great Caucasus and adjacent maritime parts (Likharev, Schileyko, MS).

***Platytheba*** Pilsbry, 1894

Type species: *Helix nummus* Ehrenberg, 1831 (OD)

***Platytheba mingrelica*** (Hesse, 1921)

Fig. 137 A

[= *Helix jasonis* Mousson, 1861, non Mayer, 1856; *Helix argonautarum* Lindholm, 1922]

*Circassina mingrelica* Hesse, 1921: 67.

- Type locality: Nakalakevi, Georgia.
- Types: unknown.
- Dimensions: H 9-12, D 20-24 mm.
- Distribution: western and southwestern slopes of Great Caucasus (Likharev, Schileyko, MS).

***Platytheba prometheus*** (O. Boettger, 1883)

Fig. 137 B

*Helix prometheus* Boettger, 1883: 159, pl. 4, fig. 6.

- Type locality: southern slopes of Great Caucasus, Muri village on Tzkhentzkali River.
- Syntype: SMF No. 6219.
- Dimensions: H 7-8, D 18-20 mm.
- Distribution: southern slopes of Great Caucasus between basins of Tzkhentzkali and Aragvi rivers (Likharev, Schileyko, MS).

***Prostenomphalia*** Baidashnikov, 1985

Type species: *Prostenomphalia carpathica* Baidashnikov, 1985 (OD)

***Prostenomphalia carpathica*** Baidashnikov, 1985

Fig. 137 E, F

Baidashnikov, 1985: 206, figs. 1, 2.

- Type locality: Zakarpatskaya Region, Rakhov District, fir tree forest on bank of the Strogovetz river 12.5 km from Luga village.
- Holotype: ZIN.
- Dimensions: H 6.4-8.0, D 10.6-13.2 mm.
- Distribution: Zakarpatskaya Region, Rakhov District (Likharev, Schileyko, MS).
- Remark: See Remark to *Urticicola umbrosa*.

***Stenomphalia*** Lindholm, 1927

Type species: *Helix selecta* Klika, 1894 (OD)

***Stenomphalia maiae*** (Hudec et Lezhawa, 1969)

Fig. 138 A

*Euomphalia maiae* Hudec, Lezhawa, 1969: 45, figs. 3, 7.

- Type locality: Zelenyi Mys, 10-15 km from Batumi.
- Holotype: SMF No. 194322.
- Dimensions: H 10-16, D 13.5-19.0 mm.
- Distribution: Zeleny Mys, Batumi Botanical garden, mouth of Machakheli-Tzkali river (Likharev, Schileyko, MS).

***Stenomphalia pisiformis*** (L. Pfeiffer, 1846)

Fig. 138 B

[= *Helix arpatschaiana* Mousson, 1873; *Helix pseudoglobula* Mousson, 1873; *Euomphalia pisiformis* var. *acbaensis* Minasyan, 1947; *Euomphalia assadovi* Likharev et Rammelmeyer, 1952] *Helix pisiformis* Pfeiffer, 1846b: 95-96.

- Type locality: Caucasus.
- Types: unknown.
- Dimensions: H 5-12, D 8-17 mm.
- Distribution: Caucasus, probably Kopet Dagh (Likharev, Schileyko, MS).

***Stenomphalia ravergiensis*** (Férussac, 1835)

Fig. 138 C, D

[= *Helix ravergii* Krynicki, 1836 nom. emend. pro *Helix ravergiensis* Férussac, 1835; *Helix ravergieri* auct. nom. emend. pro *Helix ravergiensis* Férussac, 1835; *Helix caucasica* L. Pfeiffer, 1845; *Helix ravergiensis* var. *transcaucasica* Mousson, 1863]

*Helix ravergiensis* Férussac, 1835: 21.

- Type locality: Caucasus.
- Syntypes: MNHN.
- Dimensions: H 8-13, D 12-18 mm.
- Distribution: widely but sporadically distributed in North Caucasus, Daghestan and Transcaucasia (Likharev, Schileyko, MS); southeastern Ukraine (Sverlova, 2006).

***Stenomphalia selecta*** (Klika, 1894)

Fig. 138 E, F

[= *Helix tschorochensis* Lindholm, 1913; *Theba chrysomallis* Lindholm, 1922; *Helix globula* Kaleniczenko, 1853, non Lea, 1837; *Helix? inflata* Mousson, 1863, non Deshayes, 1830] *Helix selecta* Klika, 1894: 2, 4.

- Type locality: Dilizhan, Armenia.
- Types: unknown.
- Dimensions: H 7.0-8.5, D 6.5-12.0 mm.
- Distribution: North Caucasus, Transcaucasia (absent in Talysh and Kuro-Araks lowland) (Likharev, Schileyko, MS).
- Remark: See Remark to *Kokotschasbvilia caucasicola*.

## PAEDHOPLITINAE Schileyko, 1978

***Angiomphalia*** Schileyko, 1978

Type species: *Helix rubens* var. *regaliana* Martens, 1882 (OD)

***Angiomphalia almalensis*** Schileyko et Uvalieva in Schileyko, 1978

Fig. 139 A

Schileyko, 1978b: 297-298, pl. 17, fig. 167, textfigs. 398-399.

- Type locality: farm Almaly, Chu River valley near Tokmak village.
- Holotype: ZIN.
- Dimensions: H 11.5-12.5, D 16-17 mm.
- Distribution: Chu River valley (Likharev, Schileyko, MS).

***Angiomphalia caelestimontana*** (Tzvetkov, 1940)

Fig. 139 B

*Cathaica caelestimontana* Tzvetkov, 1940a: 390.

- Type locality: Zailiyskij Ridge, western slope of Karagalinsky Canyon.
- Syntypes: ZMMU No. Lc-3943, Lc-14411.
- Dimensions: H 8-11, D 13-16 mm.

- Distribution: ridges of Tien-Shan, to south, west and north from Issyk-Kul Lake (Likharev, Schileyko, MS).

***Angiomphalia copiosa*** Schileyko, 1978

Fig. 139 C, D

Schileyko, 1978b: 292-293, pl. 17, fig. 162, textfigs. 382-384.

- Type locality: floodland in upper reaches of Chatkal River.
- Holotype: ZIN.
- Dimensions: H 8.2-10.5, D 16.5-21.2 mm.
- Distribution: upper reaches of Chatkal River (Likharev, Schileyko, MS).

***Angiomphalia exasperata*** Schileyko et Uvalieva in Schileyko, 1978

Fig. 139 E, F

Schileyko, 1978b: 295-296, pl. 17 fig. 165, textfigs. 390-392.

- Type locality: vicinities of Bolshoye Almaatinskoye Lake.
- Holotype: ZIN.
- Dimensions: H 5.5-6.5, D 8-11 mm.
- Distribution: Zailiyskij, Kungei and eastern part of Kirgiz ridges (Likharev, Schileyko, MS).

***Angiomphalia regeliana*** (Martens, 1882)

Fig. 140 A

*Helix rubens* var. *regelianus* Martens, 1882a: 9, pl. 2, fig. 4.

- Type locality: “Kuldsha” (Ining (Kuldja), northwest China).
- Types: unknown.
- Dimensions: H 11-15, D 14-20 mm.
- Distribution: Tien-Shan and northern offshoots of Pamir (Likharev, Schileyko, MS).
- Remark: Not differs conchologically from *Leucozonella rubens*. Anatomically differs from the latter by the presence of a pair of vaginal appendages instead of two pairs of stylophores.

***Angiomphalia seductilis*** (Westerlund, 1898)

Fig. 140 B

*Helix seductilis* Westerlund, 1898: 157.

- Type locality: “Kaschkara”.
- Syntypes: NMG No. 577.
- Dimensions: H 11-12, D 16-20 mm.
- Distribution: Zailiyskij and Kungei ridges, western part of Terskei Ridge and eastern part of Kirgiz Ridge (Likharev, Schileyko, MS).

***Paedhoplita*** Lindholm, 1927.

Type species: *Paedhoplita laminata* Lindholm, 1927 (OD)

***Paedhoplita buamica*** (Tzvetkov et Tzvetkova, 1943)

Fig. 140 C

*Enomphalia buamica* Tzvetkov, Tzvetkova, 1943: 118.

- Type locality: Buam Canyon of Chu river, 59 km from Rybachje village.
- Syntypes: ZMMU No. Lc-14471, 14419, 14422.
- Dimensions: H 4.5-6.0, D 9-10 mm.
- Distribution: canyons of Chu and Arasan rivers in eastern part of Kirgiz Ridge (Likharev, Schileyko, MS).
- Remark: See Remark to *Archaica labianix*.

***Paedhoplita kirgisisis*** Likharev et Rammelmeyer, 1952

Fig. 140 D

Likharev, Rammelmeyer, 1952: 411, fig. 342.

- Type locality: Kirgiz Ridge, upper reaches of Alamedin River.
- Holotype: ZIN.
- Dimensions: H 4, D 7.5-8.0 mm.
- Distribution: type locality.

***Paedhoplita laminata*** Lindholm, 1927

Fig. 141 C, D

Lindholm, 1927c: 266.

- Type locality: Kirgiz Ridge.
- Lectotype (Schileyko, 1978b): ZIN.
- Dimensions: H 3.5-4.3, D 6.5-9.0 mm.
- Distribution: eastern part of Kirgiz Ridge (Likharev, Schileyko, MS).

***Paedhoplita lentina*** (Martens, 1885)

Fig. 141 A

[= *Paedhoplita mesasiana* Lindholm, 1927]*Helix lentina* Martens, 1885: 18.

- Type locality: Ferghana, Turkestan.
- Types: unknown.
- Dimensions: H 4.5-5.0, D 12-13 mm.
- Distribution: northern part of Ferghana Ridge and eastern slopes of Chatkal Ridge (Likharev, Schileyko, MS).

***Paedhoplita lindholmi*** Tzvetkov et Tzvetkova, 1943

Fig. 141 B

Tzvetkov, Tzvetkova, 1943: 119.

- Type locality: Kirgiz Ridge, Karabalty Canyon, rocks near Uzun-Bulak River, 1900-2400 m above sea level.
- Syntypes: ZMMU No. Lc-14412, 14402.
- Dimensions: H 3.5-5.0, D 7-9 mm.
- Distribution: northern slopes of middle and eastern parts of Kirgiz Ridge, Zailijskij Ridge (Likharev, Schileyko, MS).

## HESSEOLINAE Schileyko, 1990

### **Hesseola** Lindholm, 1927

Type species: *Helix adshariensis* Lindholm, 1913 (= *Helix solidior* Mousson, 1873) (OD)

### **Hesseola bactriana** (Hutton, 1849)

Fig. 141 E, F

[= *Helix transcaspia* O. Boettger, 1889]

*Helix bactriana* Hutton, 1849: 651.

- Type locality: Kandahar.
- Types: probably BMNH.
- Dimensions: H 6.8, D 9-14 mm.
- Distribution: Kopet Dagh (Likharev, Schileyko, MS).

### **Hesseola solidior** (Mousson, 1873)

Fig. 142 A, B

[= *Helix adshariensis* Lindholm, 1913; *Hesseola adshariensis antontomashevici* Hudec, 1972; *Metafruticicola pratensis* Akramowski, 1949 partim, non L. Pfeiffer, 1845]

*Helix narzanensis* var. *solidior* Mousson, 1873: 200-201.

- Type locality: “Kisikoparan, Aschich-Dade” (Armenia).
- Types: unknown.
- Dimensions: H 9-12, D 13-16 mm.
- Distribution: western and central parts of Lesser Caucasus, a single finding in North Caucasus (Urushten River valley) (Likharev, Schileyko, MS).
- Remark: See Remark to *Fruticocampylaea kobiensis*.

## METAFRUTICICOLINAE Schileyko, 1972

### **Caucasocressa** Hesse, 1921

Type species: *Helix joannis* Mortillet, 1854 (OD)

### **Caucasocressa ibera** Hausdorf, 2003

Fig. 142 C

[= *Helix pratensis* var. *depressa* Kobelt, 1877; *Helix pratensis* var. *unicingulata* Retowski, 1914; *Metafruticicola* & *Caucasocressa pratensis* auctt., non L. Pfeiffer, 1846]

Hausdorf, 2003: 2634-2635, figs. 2, 6.

- Type locality: Georgia, Borzhomi.
- Holotype: ZMH No. 2896.
- Dimensions: H 8.0-11.5, D 13.5-19.1 mm.
- Distribution: Kura valley between Atsquri and Borzhomi, Georgia (Hausdorf, 2003).
- Remark: Very similar to *Fruticocampylaea kobiensis* and *Hesseola solidior*. Reliably differs from both anatomically (vagina has no any appendages). Conchologically indistinguishable from *C. joannis*, differs by much longer flagellum.

***Caucasocressa joannis*** (Mortillet, 1854)

Fig. 142 D, E

[= *Helix joannis* var. *minor* Mortillet, 1854; *Helix delabris* Mousson, 1863; *Helix joannis* var. *andronakii* Lindholm, 1913; *Helix joannis* f. *pellucidepunctata* Retowski, 1914; *Fruticocampylaea pratensis karabagbensis* Lindholm, 1928]

*Helix joannis* Mortillet, 1854: 8, pl. 1, fig. 9.

- Type locality: middle reaches of Chorokh River, vicinities of Ispira village, Turkey.
- Probable syntypes: SMF No. 6448.
- Dimensions: H 7.3-15.8, D 12.6-27.8 mm.
- Distribution: Adzharia (Hausdorf, 2003).

## POLYGYRIDAE Pilsbry, 1895

***Triodopsis*** Rafinesque, 1819

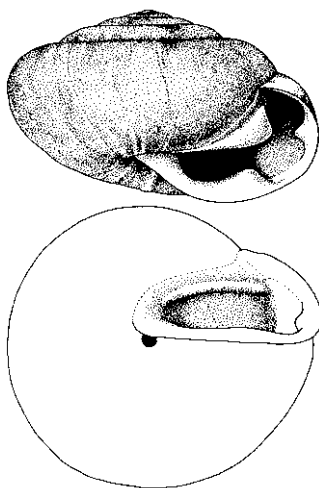
Type species: *Triodopsis lunula* Rafinesque, 1831 (= *Helix tridentata* Say, 1816) (SD Hermannsen, 1849)

***Triodopsis subpersonatum*** (Middendorff, 1851)

Textfig. 18

*Helix subpersonatum* Middendorff, 1851: 306, pl. 30, figs. 27-29.

- Type locality: vicinities of Udscoe (near of the Okhotsk Sea coast).
- Holotype: ZIN (probably lost).
- Dimensions: H 4.0, D 6.8 mm.
- Distribution: type locality and Ayan (Likharev, Schileyko, MS).




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**Textfig. 18.** *Triodopsis subpersonata*, syntype, vicinities of Ayan, ZIN.

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## SOURCES OF ILLUSTRATIONS

Fig. 1.

**A** – *Hemipoma bakodadiense*; Kurile Islands, Iturup Island, Kitovyi settlement; det. A. Kuznetsov; ZMMU Lc-25749, D 5.5 mm. **B** – *Toffolettia lederi*; Greater Caucasus, at waterfall on Abasha River near Gegechkori; det. A. Schileyko; ZMMU Lc-21040, H 7.7 mm; **C** – *Caspicyclotus sieversi*; Talysh, forest near Osakyudzha village; det. A. Schileyko; ZMMU Lc-21053, D 6.7 mm; **D** – *Palaina amurensis*; Primorye Territory, near Peishula village; det. A. Schileyko; ZMMU Lc-32594, H 2.0 mm; **E** – “*Palaina amurensis*”, “syntype” (see Remark to that species); “Wladiwostok”; ZMZ 526628, H 4.5 mm.

Fig. 2.

**A** – *Aicula moussoni*; East Georgia, Lagodekhi; det. E. Rammelmeyer; ZIN No. 7<sup>1</sup>, H 3.0 mm; **B** – *Aicula parvelineata*; Ukraine, Transcarpathia, Tyachev district, vicinities of Malaya Ugolka village; det. N. Sverlova; ZMMU Lc-28779, H 2.2 mm; **C** – *Platyla perpusilla*; Ukraine, Transcarpathia, Rakhov district, vicinities of Delovoye village; det. N. Sverlova; ZMMU Lc-27870, H 1.6 mm; **D** – *Platyla oedogyra*; “Rareul bei Kim polung, Bukowina”; det. W. Lindholm; ZIN No. 1, H 2.8 mm; **E** – *Platyla polita*; Tver Region, Selizharovskiy district, vicinities of Bolshaya Kosha village; det. E. Shikov; ZMMU Lc-19330, H 2.9 mm; **F** – *Terrestribythinella carpathica*, holotype, ZIN No. 1, H 2.5 mm; **G** – *Terrestribythinella baidashnikovii*, holotype; ZIN No. 1, H 2.7 mm; **H** – *Pomatias hyrcanum*; Talysh, near Bibioni village; det. A. Schileyko; ZMMU Lc-13570, H 13.1 mm; **I** – *Pomatias rivulare*; Caucasus, forest near Kukheshi village; ZMMU Lc-13536, H 12.9 mm.

Fig. 3.

**A** – *Carychium cymatoplax*; South Primorye, Kedrovka; det. L. Prozorova; ZMMU Lc-37435, H 2.0 mm; **B** – *Carychium lederi*; Lenkoran; det. W. Lindholm; ZIN No. 2, H 1.8 mm; **C** – *Carychium minimum*; Tver Region, Soblago; det. B. Tzvetkov; ZMMU Lc-10790, H 1.7 mm; **D** – *Carychium pessimum*; South Primorye, Gornotaezhnaya station; det. L. Prozorova; ZMMU Lc-37438, H 1.6 mm; **E** – *Carychium sibiricum*; Sakhalin, Poronaisky district, middle reaches of Rukutama river; det. A. Schileyko; ZMMU Lc-37436, H 1.8 mm; **F** – *Carychium tridentatum*; Checheno-Ingushetia, 5 km W of Saami-Yurt village, 26 km W of Grozny; det. A. Schileyko; ZMMU Lc-10788, H 1.9 mm; **G** – *Novisuccinea altaica*; Zailiyskij Alatau, Chemolgan village; det. B. Tzvetkov; ZMMU Lc-3097, H 10.0 mm; **H** – *Novisuccinea diserta*, holotype; ZIN No. 1, H 15.4 mm; **I** – *Novisuccinea diserta*, paratype; type locality; ZMMU Lc-14540, H 15.3 mm.

<sup>1</sup> Here and throughout the text, the collection numbers for ZIN are those in the systematic catalogue but not the registration numbers.

Fig. 4.

**A** – *Novisuccinea evoluta*; Khakassia, West Sayan, Alan Ridge, left side of Yenisei valley, 3 km SSW of Maina settlement; det. A. Kuznetsov; ZMMU Lc-26063, H 11.6 mm; **B** – *Novisuccinea lyrata*; Kurile Islands, Kunashir Island, 2 km from Mendeleevo village towards Sernovodsk village; det. A. Kuznetsov; ZMMU Lc-26055, H 13.8 mm; **C** – *Novisuccinea martensiana*; Alexandrovsky Ridge, Karabalty ravine; det. B. Tzvetkov; ZMMU Lc-3099, H 22.8 mm; **D** – *Novisuccinea strigata*; NE Kamchatka, shore of Ilpinsky Peninsula, near Kylakovayam river mouth; det. A. Kuznetsov; ZMMU Lc-26061, H 13.0 mm; **E** – *Pamirsuccinea eximia*, paratype; type locality; ZMMU Lc-28517, H 8.9 mm.

Fig. 5.

**A** – *Pamirsuccinea eximia*, holotype; ZIN No. 1, H 9.4 mm; **B** – *Succinea gladiator*, holotype; ZMMU Lc-28513, H 17.8 mm; **C** – *Succinea lauta*; Japan Sea, Peter the Great Bay, De-Livron Island; det. A. Schileyko; ZMMU Lc-12429, H 22.2 mm; **D** – *Succinea putris*; Moscow, Tzaritzyno; det. B. Tzvetkov; ZMMU Lc-2950, H 14.5 mm; **E** – *Succinella oblonga*, probable syntype; Paris; MNHN, H 16.4 mm; **F** – *Succinella oblonga*; Western Ukraine, Uzhgorod, castle; det. A. Schileyko; ZMMU Lc-12499, H 6.7 mm.

Fig. 6.

**A** – *Oxyloma ajanica*, holotype; ZIN No. 1, H 8.2 mm; **B** – *Oxyloma dunkeri*; Daghestan, Khasavyurt; det. A. Schileyko; ZMMU Lc-12755, H 16.8 mm; **C** – *Oxyloma elegans*, syntype; no locality data; MNHN, H 12.5 mm; **D** – *Oxyloma elegans*; South Kazakhstan Uzun-Agach Station, Uzun-Karagaly river valley; det. B. Tzvetkov; ZMMU Lc-3019, H 13.5 mm; **E** – *Oxyloma birasei*; Iturup Island, brook near Blagodatnoye lake; det. L. Prozorova; ZMMU Lc-37437, H 11.4 mm; **F** – *Oxyloma retusa*; Kamchatka, Azabachiya river; det. A. Schileyko; ZMMU Lc-12769, H 11.1 mm; **G** – *Oxyloma sarsi*; Leningrad Region, Pushkin City, Catherine the Great Palace; det. A. Kuznetsov; ZMMU Lc-26094, H 12.4 mm.

Fig. 7.

**A** – *Oxyloma starobogatovi*, holotype; ZIN No. 1, H 9.5 mm; **B** – *Oxyloma starobogatovi*, paratype; ZMMU Lc-28515, H 10.0 mm; **C** – *Oxyloma stellifera*, holotype; ZMMU Lc-4944, H 5.6 mm; **D** – *Oxyloma stellifera*; Talysh, foothills near Lenkoran-chai; det. A. Schileyko; ZMMU Lc-28519, H 7.7 mm; **E** – *Succinea insularis*, syntype, “I. Uisut Amur”; ZMZ 519288, H 10.0 mm; **F** – *Cochlicopa collina*; “Dorf Lushki, Kreis Serpuchow, Gov. Moskau”; det. Ya. Starobogatov; ZIN No. 1 of *C. exigua* f. *lacteola* Lindholm, H 5.1 mm; **G** – *Cochlicopa curta*; Ukraine, Melitopol; det. Ya. Starobogatov; ZIN No. 23 of *C. lubrica* var. *exigua*, H 4.8 mm; **H** – *Cochlicopa dushanbensis*, holotype; ZIN, no number, H 6.6 mm; **I** – *Cochlicopa heptapotamica*, holotype; ZIN No. 1, H 7.8 mm; **J** – *Cochlicopa izzatullaevi*, holotype; ZIN, no number, H 7.2 mm.

Fig. 8.

**A** – *Cochlicopa kamchatica*, holotype; ZIN No. 1, H 6.3 mm; **B** – *Cochlicopa kurenkovi*, holotype; ZIN No. 1, H 6.2 mm; **C** – *Cochlicopa kurilensis*, holotype; ZIN, no number, H 5.7 mm; **D** – *Cochlicopa likharevi*, holotype; ZIN No. 1, H 6.0 mm; **E** – *Cochlicopa lubrica*; Kola Peninsula, Ponoï river mouth; det. A. Schileyko; ZMMU Lc-37426; H 6.2 mm; **F** – *Cochlicopa lubricella*;

North Caucasus, debris of Chaty-su river in Chegem Gorge; det. A. Schileyko; ZMMU Lc-37427, H 5.1 mm; **G** – *Cochlicopa lubricoides*; Munsevo, Klin district, Moscow Region; det. Ya. Starobogatov; ZIN No. 25 of *C. lubrica* var. *exigua*, H 5.0 mm; **H** – *Cochlicopa maacki*, holotype; ZIN, no number, H 6.3 mm; **I** – *Cochlicopa major*; South Baikal, Kultuk; det. Ya. Starobogatov; ZIN No. 31 of *C. lubrica*; H 5.6 mm; **J** – *Cochlicopa mukhitdinovi*, holotype; ZIN No. 1, H 7.4 mm; **K** – *Cochlicopa nitens*, syntype; no locality data; SMF 166385, H 7.0 mm; **L** – *Cochlicopa nitens*; left bank of Oka river near Belyie Kolodezi village; det. A. Schileyko; ZMMU Lc-37428, H 7.0 mm; **M** – *Cochlicopa pfeifferi*; “Gouv. Orenburg, Sarudnyi”; det. Ya. Starobogatov; ZIN No. 17 of *C. lubrica*, H 6.2 mm; **N** – *Cochlicopa pseudonitens*, holotype; ZIN No. 1, H 7.8 mm; **O** – *Cochlicopa shikotanica*, holotype; ZIN, no number, H 5.7 mm.

Fig. 9.

**A** – *Orcula dolium*; France, Jura, Chatillon; det. A. Schileyko; ZMMU Lc-1817, H 7.1 mm; **B** – *Orculella pfeifferi*, holotype; SMF 311144, H 9.1 mm; **C** – *Orculella ruderalis*, holotype; ZIN No. 1, H 6.0 mm; **D** – *Pilorcula aspinosa*, holotype; SMF 311152, H 4.3 mm; **E** – *Pilorcula pusilla*, holotype; SMF 311153, H 2.9 mm; **F** – *Pilorcula trifilaris quadrifilaris*; West Caucasus, left side of Dzhankoi river valley, 2 km N of Praskoveevka village; det. A. Kuznetsov; ZMMU Lc-30261, H 4.5 mm; **G** – *Pilorcula trifilaris trifilaris*, lectotype; “Reduktaleh”; ZMZ 514413, H 4.0 mm; **H** – *Pilorcula trifilaris longior*, holotype; SMF 311154, H 6.9 mm; **I** – *Pilorcula trifilaris quadrifilaris*, holotype; SMF 4593, H 4.2 mm.

Fig. 10.

**A** – *Schileykula batumensis*, lectotype; “Batumi, im Auswurfe des Tschorok bei Batumi”; SMF 3607a, H 8.85 mm; photo courtesy E. Neubert; **B** – *Schileykula batumensis*, paralectotype; type locality; SMF 3607, H 7.2 mm; **C** – *Sphyradium doliolum*; North Caucasus, forest in lower reaches of Fiagdon river; det. A. Schileyko; ZMMU Lc-23210, H 5.4 mm; **D** – *Pagodulina lederi lederi*, lectotype; SMF 3726, H 3.5 mm; **E** – *Pagodulina pagodula*; “su erbe marce Tarvisio (Udine, NE Italy)”; ZMMU Lc-30144, H 3.4 mm; **F** – *Euxinolaurea glomerata*, paratype; Adzharia, North Tzorionisi village; ZMMU Lc-17813, H 3.1 mm; **G** – *Euxinolaurea caucasica*; Georgia, Tkibuli district, between Tkibuli and Mukhura village; det. A. Kuznetsov; ZMMU Lc-30100, H 5.8 mm.

Fig. 11.

**A** – *Euxinolaurea mica*, holotype; ZIN No. 1, H 3.2 mm; **B** – *Euxinolaurea nemethi*, holotype; SMF 311169, H 4.3 mm; **C** – *Euxinolaurea paulinae*, lectotype; ZIN No. 1, H 3.5 mm; **D** – *Euxinolaurea pulchra*; NW Caucasus, floodland of Ubin river near Severskaya station; det. A. Schileyko; ZMMU Lc-23207, H 4.4 mm; **E** – *Euxinolaurea tenuimarginata*; Batumi, Botanical Garden; det. A. Schileyko; ZMMU Lc-7673, H 3.5 mm; **F** – *Euxinolaurea zonifera*; Adzharia, Khelvachauri district, Mtzvane-Kontzkhi village, Batumi Botanical Garden; det. A. Kuznetsov; ZMMU Lc-30105; H 3.8 mm.

Fig. 12.

**A** – *Euxinolaurea rectidentata*, holotype; ZIN No. 1, H 2.9 mm; **B** – *Euxinolaurea rectidentata*; Adzharia, Khulo; det. A. Suvorov; ZMMU Lc-21567, H 3.1 mm; **C** – *Euxinolaurea sinangula*;

Adzharia, Batumi, Botanical Garden; det. A. Schileyko; ZMMU Lc-7678, H 5.8 mm; **D** – *Euxinolauria superstructa*, syntype; “Lalash, Koutais”; ZMZ 514509, H 5.2 mm; **E** – *Euxinolauria superstructa*; NW Caucasus, floodland of Ubin river near Severskaya station; det. A. Schileyko; ZMMU Lc-20921, H 3.3 mm; **F** – *Euxinolauria vitrea*, holotype; ZMMU Lc-14441, H 4.2 mm; **G** – *Lauria cylindracea*; North Caucasus, Lechinkai Mount, Chegem Gorge; det. A. Schileyko; ZMMU Lc-23198, H 3.2 mm; **H** – *Lauria cylindracea*; Checheno-Ingushetia, 5 km W of Shaami-Yurt village, 26 km of Grozny; det. A. Schileyko; ZMMU Lc-13184, H 3.9 mm; **I** – *Argna bielzi*; Ukraine, Carpathians, Rakhov district, Kvasy village; ZMMU Lc-30192, H 5.1 mm; **J** – *Argna bielzi*, lectotype; SMF 51716, H 5.5 mm.

Fig. 13.

**A** – *Eostrobilops coreana*; Primorye, Kedrovaya Pad Reserve; det. L. Prozorova; ZMMU Lc-37404, D 3.1 mm; **B** – *Acanthinula aculeata*; NW Caucasus, floodland of Ubin river near Severskaya station; ZMMU Lc-37442, D 2.0 mm; **C** – *Spermodea lamellata*; SW Sweden; ZMMU Lc-27510, D 2.2 mm; **D** – *Zoogenetes harpa*; Amur river upstream of Kidsi; syntype of *Helix amurensis* Gerstfeldt, ZIN No. 4, H 3.1 mm; **E** – *Planogyra asteriscus*; Kurile Islands, Kunashir Island, Sernovodsk; det. A. Kuznetsov; ZMMU Lc-27242, D 1.7 mm.

Fig. 14.

**A** – *Vallonia asiatica*; Kirgizia, Chu-Char brook valley, Uzyn-Gyr Mount; det. A. Kuznetsov; ZMMU Lc-27478, D 2.8 mm; **B** – *Vallonia chinensis*; Central Asia, Saksasyr river; det. J. Gerber; ZIN No. 1 of *V. tenera*, D 2.7 mm; **C** – *Vallonia costata*; Georgia, Mtskheta village near Tbilisi; det. A. Schileyko; ZMMU Lc-8823, D 2.2 mm; **D** – *Vallonia enniensis*, lectotype; SMF 193139a, D 2.2 mm; **E** – *Vallonia excentrica*, probable paralectotype; no locality data; SMF 3744, D 2.2 mm; **F** – *Vallonia excentrica*; Karachaevo-Cherkessia, Khumara village; det. A. Schileyko; ZMMU Lc-8784, D 2.5 mm.

Fig. 15.

**A** – *Vallonia kamtschatica*, holotype; ZIN No. 1, D 2.5 mm; **B** – *Vallonia kamtschatica*; Kurile Islands, Kunashir Island, SSW of Lagunnoe Lake; det. A. Kuznetsov; ZMMU Lc-27429, D 2.4 mm; **C** – *Vallonia ladacensis*; Kazakhstan, Chulak Mountains, Alaman-su river canyon; det. A. Schileyko; ZMMU Lc-8769, D 3.2 mm; **D** – *Vallonia mionecton mionecton*, lectotype; SMF 3738, D 2.5 mm; **E** – *Vallonia mionecton mionecton*; Tajikistan, Khodzhen Region, Pedzhikent district, Hissar Ridge, W of Uskander-kul lake, Sarytag Mount; det. A. Kuznetsov; ZMMU Lc-27414, D 2.7 mm; **F** – *Vallonia mionecton schambalensis*, lectotype; SMF 3742, D 2.5 mm.

Fig. 16.

**A** – *Vallonia patens patens*, lectotype; SMF 42466, D 2.3 mm; **B** – *Vallonia petersi*, paratype; Primorye Territory, Peter the Great Bay, Rimsky-Korsakov Islands, Pakhtusov Island; ZMMU Lc-22186, D 2.1 mm; **C** – *Vallonia pulchella*; lower reaches of Volga river (left bank), Dzhanybek; det. A. Schileyko; ZMMU Lc-37441, D 2.3 mm; **D** – *Vallonia zaru*; Kazakhstan, Alma-Ata Region, Dzhambul district, Kastek Ridge, 13 km S of Karakastek village; det. A. Kuznetsov; ZMMU Lc-27433, H 3.6 mm; **E** – *Vallonia tenuilabris*; Kazakhstan, East Kazakhstan Region, Zaisan district, Saur Ridge, 3 km S of Churchutzu village, Mount

Sarykia; det. A. Kuznetsov; ZMMU Lc-27430, D 3.3 mm; **F** – *Vallonia pulchellula tenerima*, paratype; type locality; ZMMU Lc-34088, D 2.1 mm.

Fig. 17.

**A** – *Gibbulinopsis cryptodon*, syntype; SMF 4601, H 3.3 mm; **B** – *Gibbulinopsis cryptodon*; Peter the Great Bay, Popov Island; det. A. Schileyko; ZMMU Lc-37405, H 3.1 mm; **C** – *Gibbulinopsis gracilis*, holotype; ZIN No. 1, H 5.4 mm; **D** – *Gibbulinopsis interrupta*; Georgia, vicinities of Kodzhori, ravine below ruins of Ker-ogly Castle; det. A. Schileyko; ZMMU Lc-37406, H 2.8 mm; **E** – *Gibbulinopsis nanosignata*, holotype; ZIN No. 1, H 3.3 mm; **F** – *Gibbulinopsis signata* (subadult); Hissar Ridge, Kandara ravine; det. A. Schileyko; ZMMU Lc-37399, H 3.5 mm; **G** – *Pupilla alabiella*, holotype; ZIN No. 1, H 3.0 mm; **H** – *Pupilla anzobica*, holotype; ZIN No. 1, H 4.2 mm; **I** – *Gibbulinopsis signata*; Tien Shan, right bank of Naryn river upstream of Toktogul; det. A. Schileyko; ZMMU Lc-23194, H 3.6 mm.

Fig. 18.

**A** – *Pupilla bigranata*; Central Russia, left bank of Oka river near Belye Kolodezi village; det. A. Schileyko; ZMMU Lc-37391, H 3.0 mm; **B** – *Pupilla bipapulata*, holotype; ZIN No. 2, H 2.7 mm; **C** – *Pupilla bipapulata*; Armenia, Gnishik village, Kyantzagayal; det. N. Akramowski; ZMMU Lc-37397, H 2.6 mm; **D** – *Pupilla gallae*, holotype; ZMMU Lc-3350, H 2.8 mm; **E** – *Pupilla gallae*; Zailijskij Alatau, mountain pasture Mai-Tube, Kara-Kestek river ravine; det. B. Tzvetkov; ZMMU Lc-3351, H 3.2 mm; **F** – *Pupilla inequidentata*, holotype; ZMMU Lc-21492, H 3.3 mm; **G** – *Pupilla inops*; Armenia, Gnishik village, Paya-dara; det. N. Akramowski; ZMMU Lc-37394, H 2.6 mm; **H** – *Pupilla limata*, holotype; ZIN No. 1, H 3.0 mm; **I** – *Pupilla muscorum*; White Sea, shore of Knyazhaya inlet; det. A. Schileyko; ZMMU Lc-37496, H 4.2 mm.

Fig. 19.

**A** – *Pupilla sterrii*; Georgia, vicinities of Kodzhori, ravine below ruins of Ker-ogly Castle; det. A. Kuznetsov; ZMMU Lc-37393, H 2.7 mm; **B** – *Pupilla striopolita*, holotype; ZIN No. 1, H 3.4 mm; **C** – *Pupilla triplicata*; North Caucasus, Fiagdon settlement in Kurtatin gorge; det. A. Schileyko; ZMMU Lc-37395, H 3.0 mm; **D** – *Pupilla turcmenica*; Hissar Ridge, right bank of Sari-Tag river; det. A. Schileyko; ZMMU Lc-37398, H 2.8 mm; **E** – *Pupoides coenopictus*; Central Asia, Vakhsh river floodland, Tigrovaya Balka Reserve; det. A. Schileyko; Lc-37407, H 5.1 mm; **F** – *Gastrocopta huttoniana*; “Kafirnigan-Darkhaz”; det. A. Schileyko; ZMMU Lc-3367, H 2.2 mm; **G** – *Gastrocopta theeli*, paralectotype; type locality; ZIN No. 4, H 2.2 mm; **H** – *Gastrocopta theeli*, syntype of *Pupa denudata* Mousson; “Wladiwostok”; ZMZ 514717, H 1.85 mm; **I** – *Vertigo antivertigo*; Kaluga Region, Ferzikovo railway station; det. B. Tzvetkov; ZMMU Lc-3199, H 2.1 mm; **J** – *Vertigo circumlabiata*, paratype; Kunashir Island, near Sernovodsk; ZMMU Lc-28527, H 2.3 mm.

Fig. 20.

**A** – *Vertigo eogea*, after Pilsbry, 1919, pl. 14, figs. 1-2; **B** – *Vertigo hirasei*; Sakhalin, Poronaisky district, middle reaches of Rukutama river; det. A. Schileyko; ZMMU Lc-37430, H 2.0 mm; **C** – *Vertigo hygrophila*; Kurile Islands, Iturup Island, Kitovyi settlement; det. A. Kuznetsov; ZMMU Lc-27328, H 2.3 mm; **D** – *Vertigo japonica*; Kurile Islands, Shikotan Island, SW part



of Malo-Kurilskoe settlement; det. A. Kuznetsov; ZMMU Lc-27341, H 2.4 mm; **E** – *Vertigo kusbiroensis*; Kurile Islands, Shikotan Island, Krabovaya Bay; det. A. Schileyko; ZMMU Lc-20461, H 1.9 mm; **F** – *Vertigo microsphaera*; Sakhalin, Lyuchi; det. A. Schileyko; ZMMU Lc-7653, H 1.8 mm; **G** – *Vertigo modesta modesta*; Chukchi Peninsula, vicinities of Amguema settlement; det. A. Schileyko; ZMMU Lc-37432, H 2.7 mm; **H** – *Vertigo modesta alpestris*; Kirgiz Ridge, near thermal sources in Alamedin river canyon; det. A. Schileyko, ZMMU Lc-15743, H 1.9 mm; **I** – *Vertigo moulinsiana*; Germany, SW Baden-Württemberg, Rhine valley: between Breiscech and Burkheim; det. J. Gerber; ZMMU Lc-27391, H 2.7 mm; **J** – *Vertigo pseudosubstriata*, holotype of *V. laevis* Uvalieva; South Altai, Katon-Karagai; ZIN No. 1, H 2.4 mm; **K** – *Vertigo pusilla*; Northwest Caucasus, Tekhuri river valley; det. A. Schileyko; ZMMU Lc-23322, H 1.9 mm; **L** – *Vertigo pygmaea*; Astrakhan Reserve; det. A. Schileyko; ZMMU Lc-37431, H 1.8 mm; **M** – *Vertigo sieversi*; North Caucasus, Chegem river gorge, 5 km S of Verkhnij Chegem village; det. A. Schileyko, ZMMU Lc-7624, H 2.3 mm; **N** – *Vertigo substriata*; Stavropol Territory, Zelenchuk district, 21 km SW of Arkhyz settlement; det. A. Kuznetsov; ZMMU Lc-27356, H 1.8 mm; **O** – *Vertilla angustior*; North Caucasus, Chegem river gorge; det. A. Schileyko; ZMMU Lc-23324, H 1.8 mm.

Fig. 21.

**A** – *Columella acicularis*, paratype; type locality; ZMMU Lc-28529, H 3.0 mm; **B** – *Columella aspera*, holotype; NMG; photo courtesy D. Ivanov; **C** – *Columella aspera*, paratype; Sweden, Vastmanland, par. Linde, E of Jiggebbhyttoo; ZIN No. 2, H 2.1 mm; **D** – *Columella edentula*; vicinities of Kursk; det. A. Schileyko; ZMMU Lc-23303, H 2.3 mm; **E** – *Columella intermedia*, holotype; ZIN No. 1, H 2.9 mm; **F** – *Truncatellina callicratis*; Kirgiz Ridge, near thermal sources in Alamedin river canyon; det. A. Schileyko; ZMMU Lc-15744, H 2.1 mm; **G** – *Truncatellina claustralis*; Crimea, Simeiz; det. W. Lindholm; ZIN No. 5, H 1.8 mm; **H** – *Truncatellina costulata*; Kabardino-Balkaria, Nalchik Game Reserve; det. I. Muratov; ZMMU Lc-14217, H 1.9 mm; **I** – *Truncatellina cylindrica*; Georgia, vicinities of Dzhvari village near Tbilisi; det. A. Schileyko; ZMMU Lc-7575, H 1.7 mm; **J** – *Truncatellina cylindrica*, lectotype of *T. tauricola* Lindholm; Crimea, Chatyr-Dagh; ZIN No. 1, H 2.2 mm; **K** – *Chondrina ampborula*, holotype; ZMMU Lc-25327, H 6.4 mm; **L** – *Chondrina clienta clienta*, lectotype; NMG 2174; photo courtesy D. Ivanov; **M** – *Chondrina clienta clienta*; Transcarpathia, summit of Velikij Kamen Mount near Belyi Cheremosh river; det. A. Baidashnikov; ZMMU Lc-7571, H 6.5 mm.

Fig. 22.

**A** – *Chondrina clienta caucasica*, lectotype; SMF 44091a, H 7.2 mm; **B** – *Chondrina clienta caucasica*; North Caucasus, Urukht river (right tributary of Terek river); det. I. Muratov; ZMMU Lc-20898, H 7.5 mm; **C** – *Chondrina granum*, probable syntype; Lyon [France]; MNHN, H 3.9 mm; **D** – *Chondrina granum*; Kopet Dagh, Peredovoi Ridge; det. I. Muratov; ZMMU Lc-22746, H 5.0 mm; **E** – *Chondrina rhodia taurica*; Crimea, Simeiz; det. A. Schileyko; ZMMU Lc-3522, H 4.7 mm; **F** – *Granaria frumentum*, probable syntype; [France], Lyon; MNHN, H 7.0 mm; **G** – *Granaria frumentum*; Obrovazzo; det. A. Schileyko; ZMMU Lc-22746, H 10.0 mm; **H** – *Pyramidula rupestris*; Alexandrovsky Ridge, Karabalty ravine, Ryabinovaya narrow; det. B. Tzvetkov; ZMMU Lc-8741, D 2.6 mm; **I** – *Pyramidula rupestris*, paralectotype of *P. rupestris przewalskii* Lindholm; East Turkestan, Kerijsky Ridge; ZMMU Lc-21425, D 3.2 mm.

Fig. 23.

**A** – *Akramowskiella andronakii*, lectotype; ZIN No. 13, H 12.0 mm; **B** – *Akramowskiella schbuschaensis*, syntype (labelled as “lectotype”); type locality; SMF 10702, H 8.3 mm; **C** – *Akramowskiella schbuschaensis*; Armenia, 6 km W of Kafan town, right side of Vokhcha river valley; det. A. Kuznetsov; ZMMU Lc-26717, H 5.8 mm; **D** – *Akramowskiella umbrosa*; Armenia, ca. 9 km N of Areni village, left side of Gnishik river village; det. A. Kuznetsov; ZMMU Lc-26710, H 10.0 mm; **E** – *Differena leucostoma*, paratype; Azerbaijan, Khanlar district, Kyapaz Mount, 2700 m; ZMMU Lc-23276, H 7.2 mm; **F** – *Clausilioides filifer*, holotype; ZIN No. 1, H 9.3 mm; **G** – *Geminula continens*, syntype; “Kazandshik”; ZIN No. 1, H 6.9 mm; **H** – *Geminula continens*, syntype; “Transkaspien: Kazandshik” SMF 64121, H 7.35 mm; **I** – *Geminula isseliana*; Turkmenia, Turkmeno-Khorassan Mountains, Mondzhukly Ridge, 9 km S of Yuvankala, right side of Biksu valley, 500 m a.s.l.; det. A. Kuznetsov; ZMMU Lc-26711, H 7.1 mm; **J** – *Geminula isseliana*, holotype of *Buliminus tardigyus* Westerlund; Turkestan, hills near Sulaklyu; ZIN No. 1, H 7.5 mm.

Fig. 24.

**A** – *Imparietula brevior*; South Georgia, east shore of Tuman-goel lake; det. A. Schileyko; ZMMU Lc-37365, H 10.5 mm; **B** – *Laevozebrinus eremita*; Hissar Ridge, Romit Reserve, left bank of Sardai-Miona river; det. A. Schileyko; ZMMU Lc-37362, H 15.7 mm; **C** – *Laevozebrinus guttula*, holotype; ZMMU Lc-16590, H 7.2 mm; **D** – *Laevozebrinus lenis*; Kazakhstan, Chimkent Region, Karatau Ridge, N of Bayaldyr settlement; det. A. Kuznetsov; ZMMU Lc-26676, H 12.1 mm; **E** – *Laevozebrinus urgutensis*, lectotype, SMF 150811, H 19.6 mm; **F** – *Laevozebrinus ujjalhyanus*, syntype; Usgent, Turkestan; NMW.1955.158.24118, H 21.1 mm; photo courtesy H. Wood; **G** – *Laevozebrinus ujjalhyanus*; Kirgizia, Fergana Ridge, Yassy river valley, near Ak-Terek village; det. A. Kuznetsov; ZMMU Lc-26695, H 22.0 mm; **H** – *Laevozebrinus ujjalhyanus*, holotype of *Subzebrinus prochorovi* Lindholm; Sary-Chelek lake, Namangan district, Fergana Government [Chatkal Ridge, Kirgizia]; ZIN No. 1, H 20.2 mm.

Fig. 25.

**A** – *Ljudmilena sieversi*, syntype; [Armenia], “Araxes”; ZMZ 514143, H 7.2 mm; **B** – *Ljudmilena sieversi*; Armenia, Daralagez, Gnishik village; det. N. Akramovski; ZMMU Lc-37380, H 7.9 mm; **C** – *Ljudmilena tricollis*, syntype; [Turkey], Azchur Ob. Kuratal; ZMZ 514074, H 9.2 mm; **D** – *Mastoides albocostatus*, holotype; ZIN No. 1, H 12.2 mm; **E** – *Mastoides obeliscus*, holotype; ZMMU Lc-21491, H 12.5 mm; **F** – *Mastoides orloffensis*, possible syntype; Talas river valley, Karagoin ravine; ZMMU Lc-14565, H 8.5 mm; **G** – *Ottorosenia varenzovi*, lectotype; ZIN No. 6, H 6.8 mm; **H** – *Ottorosenia varenzovi*; Turkmenia, 30 km S of Ashkhabad, Kopet Dag Ridge, 1700 m a.s.l.; det. I. Muratov; ZMMU Lc-26700, H 8.2 mm.

Fig. 26.

**A** – *Pseudochondrula lederi*; North Ossetia, Zrug ravine near Nar village; det. A. Schileyko; ZMMU Lc-37373, H 13.0 mm; **B** – *Pseudochondrula seductilis*, syntype (labelled as lectotype); “Dalmatien”; SMF 237088, H 9.5 mm; **C** – *Pseudochondrula seductilis*; Turkey, Kilibahir; ZMMU Lc-26546, H 11.7 mm; **D** – *Pseudochondrula sinistrorsa*, holotype; ZIN No. 1, H 12.9 mm; **E** – *Pseudochondrula tetradon*, syntype; “Armenie”; MNHN, H 13.8 mm; **F** – *Pseudochondrula*



*tuberifera*; North Ossetia, Zrug ravine, above Nar village; det. A. Schileyko; ZMMU Lc-37388, H 8.1 mm; **G** – *Pseudonapaenus albiplicatus*, paralectotype; Tashkent; ZMMU Lc-1735, H 11.8 mm; **H** – *Pseudonapaenus albiplicatus*; Uzbekistan, Tashkent Region, Ugam Ridge, Khumsan village; det. A. Kuznetsov; ZMMU Lc-26563, H 11.8 mm; **I** – *Pseudonapaenus aptychus*; Kazakhstan, Alma-Ata Region, Zailiyskij Alatau Ridge, left side of Prokhodnaya river valley; det. A. Kuznetsov; ZMMU Lc-26574, H 10.2 mm.

Fig. 27.

**A** – *Pseudonapaenus bacillus*, holotype; ZMMU Lc-24067, H 11.6 mm; **B** – *Pseudonapaenus asiaticus*; Zailiyskij Alatau, Chim-Turgen ravine; det. I. Likharev; ZMMU Lc-27385, H 12.2 mm; **C** – *Pseudonapaenus chodschendicus*, holotype, ZIN No. 1, H 13.3 mm; **D** – *Pseudonapaenus dipilus*, lectotype; NMG; photo courtesy D. Ivanov; **E** – *Pseudonapaenus dipilus*; Kirgizia, Ferghana Ridge, Yarodar village; det. A. Kuznetsov; ZMMU Lc-26579, H 12.3 mm; **F** – *Pseudonapaenus eleonorae*, lectotype; ZMMU Lc-24068, H 10.9 mm; **G** – *Pseudonapaenus drymaeus*, holotype; ZIN No. 1, H 9.2 mm; **H** – *Pseudonapaenus drymaeus*; Kirgizia, Ferghana Ridge, Arslanbob settlement; det. A. Kuznetsov; ZMMU Lc-26531, H 9.1 mm; **I** – *Pseudonapaenus entodon*; South Kazakhstan, Uzun-Agach, Kara-Kastek river canyon, Mai-Tyube Pasture; det. A. Schileyko; ZMMU Lc-7497, H 9.7 mm.

Fig. 28.

**A** – *Pseudonapaenus dissimilis*, paralectotype; Alma-Ata Region, Arasan-Bulak, Kegen river; ZMMU Lc-24084, H 7.3 mm; **B** – *Pseudonapaenus dissimilis*, paralectotype; Alma-Ata Region, Arasan-Bulak, Kegen river; ZMMU Lc-24084, H 6.0 mm; **C** – *Pseudonapaenus entoptyx*; Uzbekistan, Ugam Ridge, left side of Ugam river valley, N part of Khumsan village, 1300 m a.s.l.; det. A. Kuznetsov; ZMMU Lc-26668, H 9.7 mm; **D** – *Pseudonapaenus errans*, lectotype, ZIN No. 1, H 12.0 mm; **E** – *Pseudonapaenus galinae*, lectotype; ZMMU Lc-3773, H 14.1 mm; **F** – *Pseudonapaenus goldfussi*, holotype; SMF 156686, H 10.2 mm; **G** – *Pseudonapaenus goldfussi*; Kirgizia, Osh Region, vicinities of Dzhilieu; det. Z. Izzatullaev; ZMMU Lc-37376, H 10.2 mm; **H** – *Pseudonapaenus berzensteini*, syntype; Turkestan; NMW 1955.158.24106, H 10.5 mm; photo courtesy H. Wood; **I** – *Pseudonapaenus berzensteini*, syntype; Turkestan; NMW 1955.158.24106, H 9.2 mm; photo courtesy H. Wood.

Fig. 29.

**A** – *Pseudonapaenus izzatullaevi*, holotype; ZMMU Lc-24065, H 13.9 mm; **B** – *Pseudonapaenus kasnakovi*, lectotype; NMG 1806, H 9.5 mm; photo courtesy D. Ivanov; **C** – *Pseudonapaenus kasnakovi*, paralectotype; NMG 1806; photo courtesy D. Ivanov; **D** – *Pseudonapaenus kasnakovi*, paralectotype; Tien-Shan, Ak-su river valley [Vakhsh basin]; ZMMU Lc-4212, H 9.7 mm; **E** – *Pseudonapaenus latilabris*, syntype; Turduk river near Kumbel mountain pass, Namangan district, Ferghana Region; ZIN No. 2, H 12.2 mm; **F** – *Pseudonapaenus leucopleurus*, paralectotype; Sary-Chilek lake, Namangan district, Ferghana Region, Chatkal Ridge; ZMMU Lc-15132, H 11.8 mm; **G** – *Pseudonapaenus lindbolmi*, holotype; ZMMU Lc-24063, H 10.3 mm; **H** – *Pseudonapaenus leucoptychus*, Kirgizia, Kirgiz Ala-Too Ridge, Otkorkoi Mountains, left side of Chu river canyon (= Boam Canyon), Kyz-Kuioo village, 1850 m a.s.l.; det. A. Kuznetsov; ZMMU Lc-26599, H 8.3 mm; **I** – *Pseudonapaenus miser*; Uzbekistan,

Tashkent Region, Bostanlyk district, right side of Pskem river valley, 3-4 km upstream of Nanai village; det. A. Schileyko; ZMMU Lc-26603, H 8.5 mm.

Fig. 30.

**A** – *Pseudonapaesus regelianus*; Kazakhstan, Ketmen Ridge, NE of Tuyuk settlement; det. A. Schileyko; ZMMU Lc-26552, H 14.0 mm; **B** – *Pseudonapaesus retrodens*, paralectotype; “Kuldsha”; ZMMU Lc-3420, H 9.8 mm; **C** – *Pseudonapaesus retrodens*; Kirgizia, Kirgiz Ala-Too Ridge, 2.2 km SSW of Arpatekir village, 1700 m a.s.l.; det. A. Kuznetsov; ZMMU Lc-26618, H 10.4 mm; **D** – *Pseudonapaesus schileykoi*, holotype; ZIN No. 1, H 10.1 mm; **E** – *Pseudonapaesus schileykoi*, paratype; Tajikistan, Karategin Ridge, Komarou ravine, vicinities of Rvoz village; ZMMU Lc-22455, H 9.6 mm; **F** – *Pseudonapaesus schnitnikovi*, holotype; ZIN No. 1, H 10.4 mm; **G** – *Pseudonapaesus schnitnikovi*; Kazakhstan, Zailiyskij Alatau Ridge, right side of Malaya Almaatinka river valley; det. A. Kuznetsov; ZMMU Lc-26622, H 9.8 mm; **H** – *Pseudonapaesus secalinus*; Kirgizia, Kirgiz Ala-Too Ridge, left side of Alamedin river valley, 2000 m a.s.l.; det. A. Kuznetsov; ZMMU Lc-26626, H 7.7 mm; **I** – *Pseudonapaesus subobscurus*, syntype; “Daraty Bulak, Fekestzhal”; NMW 1955.158.24112, H 10.3 mm; photo courtesy H. Wood; **J** – *Pseudonapaesus subobscurus*; Uzbekistan, Ugam Ridge, left side of Tavaksai river canyon (right tributary of Pskem river), 1800-1850 m a.s.l.; det. A. Kuznetsov; ZMMU Lc-26641, H 10.4 mm.

Fig. 31.

**A** – *Pseudonapaesus otostomus*, paralectotype; NMG 1797; photo courtesy D. Ivanov; **B** – *Pseudonapaesus otostomus*, lectotype; NMG 1797, H 12.5 mm; photo courtesy D. Ivanov; **C** – *Pseudonapaesus otostomus*; Central Asia, vicinities of Termez, debris of Amu-Darya river; det. A. Schileyko; ZMMU Lc-37389, H 11.5 mm; **D** – *Pseudonapaesus otostomus*, syntype of *Buliminus otostomus* var. *servatus* Rosen; Darvaz Ridge, Childara; ZMMU Lc-589, H 9.3 mm; **E** – *Pseudonapaesus sogdianus*; Tajikistan, Hissar Ridge, 12 km N of Dushanbe, Varzob-GES settlement; det. A. Kuznetsov; ZMMU Lc-26632, H 15.1 mm; **F** – *Pseudonapaesus stabilis stabilis*; Uzbekistan, Tashkent Region, Bostanlyk district, Ugam Ridge, N part of Khumsan village; det. A. Kuznetsov; ZMMU Lc-26660, H 14.8 mm; **G** – *Pseudonapaesus stabilis chatkalicus*, holotype; ZMMU Lc-21892, H 15.5 mm; **H** – *Pseudonapaesus submucronatus*, lectotype; ZIN No. 1, H 13.5 mm; **I** – *Pseudonapaesus trigonochilus*, syntype; Samarkand; NMW 1955.158.24170, H 11.9 mm; photo courtesy H. Wood; **J** – *Pseudonapaesus trigonochilus*, syntype; Samarkand; NMW 1955.158.24170, H 11.0 mm; photo courtesy H. Wood; **K** – *Pseudonapaesus trigonochilus*; Tien-Shan, right bank of Naryn river upstream of Toktogul; det. A. Schileyko, ZMMU Lc-37382, H 10.5 mm.

Fig. 32.

**A** – *Subzebrinus labiellus*; Zailiyskij Ridge, Bartogai, Ortotau; det. A. Schileyko; ZMMU Lc-37374, H 11.5 mm; **B** – *Turanena albolimbata*, lectotype; ZIN No. 1, 10.0 mm; **C** – *Turanena albolimbata*; Tien-Shan, Kirgiz Ridge, Chardovar village; det. A. Schileyko; ZMMU Lc-37377, H 10.7 mm; **D** – *Turanena boamica*, holotype; ZMMU Lc-24064, H 7.4 mm; **E** – *Turanena cognata*, lectotype; ZIN No. 1, H 13.2 mm; **F** – *Turanena conicula*, holotype; ZIN No. 2, H 5.8 mm; **G** – *Turanena conicula*; Tajikistan, Khodzhent Region, Fan Mountains, lower reaches of Dukdon river, Yurtai-Kara, 2800 m a.s.l.; det. A. Kuznetsov; ZMMU Lc-26765, H 7.0 mm; **H** – *Turanena herzi*, lectotype; SMF 156687, H 7.6 mm.

Fig. 33.

**A** – *Turanena inversa*, holotype; ZMMU Lc-22029, H 16.3 mm; **B** – *Turanena leptogyra*, lectotype; ZIN No. 1, H 10.1 mm; **C** – *Turanena leptogyra*, paralectotype; Chatkal Ridge, Balgut village, between Mart and Kumbel mountain passes; ZMMU Lc-3928, H 10.0 mm; **D** – *Turanena margaritae*, holotype; ZMMU Lc-14477, H 7.5 mm; **E** – *Turanena martensiana*; Kirgizia, Kichik-Alai Ridge, valley of Mazar-Sai river (right tributary of Kirgiz-Ata river) upstream of Eski-Naukat settlement, Naukat Forestry, 2500-2700 m a.s.l.; det. A. Kuznetsov; ZMMU Lc-25787, H 7.7 mm; **F** – *Turanena meshkovi*, paratype; Tien-Shan, right bank of Pskem river upstream of Nanai settlement; ZMMU Lc-37375, H 12.9 mm; **G** – *Turanena meshkovi*; Uzbekistan, Ugam Ridge, 1 km W of Palnavak village, 1300 m a.s.l.; det. A. Kuznetsov; ZMMU Lc-26782, H 11.3 mm; **H** – *Turanena scalaris*; Armenia, Aiodzor Ridge, ca. 2.5 km from Noravank temple complex, Dzhafriryukh area, right side of Gnishik river canyon; det. A. Kuznetsov; ZMMU Lc-26791, H 6.8 mm.

Fig. 34.

**A** – *Turanena stschukini*, lectotype; ZIN No. 1, H 18.2 mm; **B** – *Turanena tenuispira*, holotype; ZIN No. 1, H 13.5 mm; **C** – *Turanena tenuispira*, paratype; Kara-Kastek Canyon, W of Alma-Ata; ZMMU Lc-15444, H 12.2 mm; **D** – *Chondrulopsina fedtschenkoi*, syntype; Samarkand; NMW 1955.158.01676, H 7.9 mm; photo courtesy H. Wood; **E** – *Chondrulopsina fedtschenkoi*, syntype of *Buliminus rennenkampfi* Rosen; Samarkand Region, Amankutan; ZMMU Lc-588, H 8.1 mm; **F** – *Chondrulopsina fedtschenkoi*; Kirgizia, Baubashata Ridge, near Arslanbob village, Kara-Bulak ravine, 2500 m a.s.l.; det. A. Kuznetsov; ZMMU Lc-26550, H 6.5 mm; **G** – *Chondrulopsina intumescens*, paratype; Chupanata near Samarkand; ZMMU Lc-1734, H 8.7 mm; **H** – *Siraphoroides moltchanovi*, holotype, ZIN No. 1, H 7.7 mm; **I** – *Siraphoroides moltchanovi*; Kirgizia, Baubashata Ridge, NW of Arslanbob village, lower reaches of Arslanbob river; det. A. Kuznetsov; ZMMU Lc-26715, H 6.3 mm; **J** – *Chondrulopsina intumescens*; Tien-Shan, Ortok-bel, SE slopes of stony foothills of Chatkal Ridge; det. A. Schileyko; ZMMU Lc-37381, H 8.8 mm.

Fig. 35.

**A** – *Merdigera invisiva*, holotype; ZIN No. 1, H 7.5 mm; **B** – *Merdigera invisiva*, paratype; type locality; ZIN, H 7.8 mm; **C** – *Merdigera obscura*; Central European Russia, Tver Region, Staritzk district, Yaitzovo village; det. E. Shikov; ZMMU Lc-37387, H 8.6 mm; **D** – *Adzharia renschi*, lectotype; ZMB 75980a; H 20.5 mm; photo A. Schileyko; **E** – *Buliminus urmianus*, syntype (labelled as lectotype); SMF 14506, H 20.1 mm; **F** – *Buliminus urmianus*; Nagornyi Karabakh, between Karashik and Khonashen; det. A. Schileyko; ZMMU Lc-37364, H 21.7 mm; **G** – *Andronakia catenulata*, lectotype; ZIN No. 1, H 7.5 mm; **H** – *Andronakia catenulata*; Adzharia, Batumi Botanical Garden; det. A. Kuznetsov; ZMMU Lc-25584, H 6.4 mm; **I** – *Retonskia schlaeflii*; Transcaucasia, Adzharo-Imereti Ridge, 7 km upstream of Adigeni; det. I. Likharev; ZMMU Lc-23301, H 16.3 mm.

Fig. 36.

**A** – *Brephulopsis bidens*, lectotype; ZIN No. 48, H 15.0 mm; **B** – *Brephulopsis bidens*; Crimea, Simferopol Region, Chatyr-Dagh-Yaila Ridge, Perevalnoe (= Angara) settlement; det. A. Kuznetsov; ZMMU Lc-26724, H 14.7 mm; **C** – *Brephulopsis cylindrica*; Crimea, Yalta Region, Artek settlement, near Artek-Lazurnyi Pioneer-Camp; det. A. Kuznetsov; ZMMU Lc-

26743, H 23.5 mm; **D** – *Caucasicola raddei*, lectotype; SMF 156684, H 25.9 mm; **E** – *Chondrula bielzi*; “Ungarn, Comit. Bereg, Sztrójna”; det. A. Schileyko; ZMMU Lc-37421, H 17.2 mm; **F** – *Chondrula caucasica*; West Caucasus, Novyi Afon; det. A. Schileyko; ZMMU Lc-37359, H 19.8 mm; **G** – *Chondrula microtraga*, holotype, SMF 182473, H 12.2 mm; **H** – *Chondrula sunzhibica*; Armenia, Kafan district, southern slope of Burgushat Ridge, David-Bek village; det. A. Kuznetsov; ZMMU Lc-26441, H 14.5 mm; **I** – *Chondrula tridens*; North Caucasus, Uruk canyon, Pezgor; det. A. Mazaev; ZMMU Lc-26748, H 10.3 mm.

Fig. 37.

**A** – *Chondrus zebraula*, lectotype; “Gemlik, Turque”; MNHN, H 16.9 mm; **B** – *Ena montana*, possible syntype; [France], Jura; MNHN, H 14.1 mm; **C** – *Georginapaeus hobenackeri*; Armenia, vicinities of Sevan Lake; det. A. Schileyko; ZMMU Lc-37363, H 22.1 mm; **D** – *Peristoma boettgeri*; Georgia, suburbs of Kutaisi; det. A. Schileyko; ZMMU Lc-37369, H 14.5 mm; **E** – *Peristoma lanceum*, holotype; ZIN No. 1, H 12.4 mm; **F** – *Peristoma lanceum*, paratype; type locality; ZMMU Lc-14449, H 10.9 mm; **G** – *Peristoma merdueniamum*, lectotype; no locality data; ZIN No. 17, H 13.3 mm; **H** – *Peristoma merduenianum*; Crimea, Georgievsky Monastery; det. W. Lindholm; ZMMU Lc-37367, H 14.3 mm; **I** – *Peristoma rupestre*; Crimea, Yalta; det. A. Schileyko; ZMMU Lc-37368, H 18.2 mm; **J** – *Peristoma rupestre*, syntype of *Buliminus kuznetsovi* Lindholm; Crimea, northern slope of Yaila Mount; ZIN No. 8, H 15.5 mm.

Fig. 38.

**A** – *Thoanteus ferrarii*, holotype; SMF 309928, H 17.8 mm; photo courtesy E. Neubert; **B** – *Thoanteus ferrarii*, paratype; Crimea, Yalta district, Artek; ZMMU Lc-34125, H 20.5 mm; **C** – *Thoanteus gibber*, lectotype; ZIN No. 2, H 19.6 mm; **D** – *Thoanteus gibber*; Crimea, Chatyr-Dagh; det. A. Schileyko; ZMMU Lc-37358, H 20.5 mm; **E** – *Euchondrus acutior*, holotype; ZIN No. 1, H 5.8 mm; **F** – *Euchondrus lamelliferus*; Georgia, Adigeni district, Benara village, left bank of Abastumanka river; det. I. Likharev; ZMMU Lc-37386; H 6.0 mm; **G** – *Improvisa pupoides*, lectotype; ZIN No. 42, H 5.8 mm; **H** – *Senaridenta nachicevanjensis*, holotype; SMF 225190, H 6.1 mm; **I** – *Pentadentula balandinae*, holotype; ZMMU Lc-28617, H 6.0 mm.

Fig. 39.

**A** – *Ramusculus subulatus*; Crimea, yaila of Chatyr-Dagh; det. A. Schileyko; ZMMU Lc-23274, H 8.5 mm; **B** – *Zebrina detrita*; Turkey, vilayet Bursa, Bursa City; det. A. Kuznetsov; ZMMU Lc-26280, H 22.0 mm; **C** – *Caspiophaedusa perlucens*, lectotype; SMF 61559a, H 13.9 mm; **D** – *Pontophaedusa funiculum*; West Caucasus, Adler district, right side of Mzymta river valley, upstream of Kazachij Brod village, at entrance to Akhshtyr Cave; det. A. Kuznetsov; ZMMU Lc-29841, H 17.1 mm; **E** – *Pravispira semilamellata*, syntype; “Reduktaleh” [sic]; ZMZ 516635, H 10.4 mm; **F** – *Pravispira semilamellata*; NW Caucasus, left bank of Ubin river near Ubinskaya village; det. A. Schileyko; ZMMU Lc-24696, H 13.1 mm; **G** – *Serrulina serrulata serrulata*; Russia, West Caucasus, Sochi; det. A. Kuznetsov; ZMMU Lc-29835, H 12.7 mm.

Fig. 40.

**A** – *Serrulina sieversi sieversi*; Azerbaijan, Talysh, Astara, Istisu; det. A. Schileyko, ZMMU Lc-29781, H 10.3 mm; **B** – *Serrulina sieversi occidentalis*, holotype; ZIN No. 1, H 12.8 mm; **C**

– *Serrulinella senghanensis*, lectotype; MNHN, H 9.7 mm; **D** – *Serrulinella senghanensis*; Georgia, 3 km from Poti to Batumi, debris on beach; det. A. Kuznetsov; ZMMU Lc-29487, H 9.3 mm; **E** – *Alopija glauca*; Transylvania; det. A. Schileyko, ZMMU Lc-1915, H 16.1 mm; **F** – *Cochlodina cerata*; Jazierce, Velka Fatra; det. Lisicky; ZIN No. 3, H 16.0 mm; **G** – *Cochlodina costata*; “Illyrien”; det. C. Westerlund; ZIN No. 1, H 12.2.

Fig. 41.

**A** – *Cochlodina laminata*; Crimea, Crimean Game-Preserve; det. R. Egorov; ZMMU Lc-13348, H 14.5 mm; **B** – *Cochlodina orthostoma*; no locality data; det. W. Lindholm; ZMMU Lc-9457, H 12.1 mm; **C** – *Acrotoma barysbnikovi*, holotype; ZIN No. 1, 18.1 mm; **D** – *Acrotoma claussi*, holotype; SMF 246140, H 31.6 mm; **E** – *Acrotoma gegica*, holotype; ZMMU Lc-25409, H 24.7 mm; **F** – *Acrotoma komarowi*, holotype; SMF 144037, H 34.3 mm.

Fig. 42.

**A** – *Acrotoma laccata*, holotype; SMF 144040, H 19.6 mm; **B** – *Acrotoma narzanensis*, lectotype; ZIN No. 6a, H 17.0 mm; **C** – *Acrotoma tunievi*, holotype; ZMMU Lc-25411, H 22.7 mm; **D** – *Acrotoma semicincta*, lectotype; ZIN No. 1, H 16.2 mm; **E** – *Acrotoma semicincta*, paralectotype (labelled as lectotype); “Teberda u. Karatschai”; SMF 144041, H 16.4 mm; **F** – *Acrotoma juliae*, holotype; ZMMU Lc-25410, H 25.7; **G** – *Acrotoma tunievi*, paratype; ZMMU Lc-25412, H 19.9 mm.

Fig. 43.

**A** – *Akramovskia akramovskii*, holotype; ZIN No. 1, H 21.6 mm; **B** – *Akramovskia valentini*, holotype; SMF 144141, H 22.5 mm; **C** – *Armenica disjuncta armenica*, holotype; ZIN No. 1, H 14.7 mm; **D** – *Armenica gracillima*, lectotype; SMF 144152, H 20.6 mm; **E** – *Armenica gracillima*; “Artvin, an Felsen am Tschoroch”; SMF 144154, H 22.0 mm; **F** – *Armenica griseofusca*, probable syntype; Tabizhuri; SMF 144161, H 16.9 mm; **G** – *Armenica likharevi*, holotype; ZIN No. 1, H 17.0 mm; **H** – *Armenica likharevi*; North Armenia, Idzhevan district, 5 km E of Gandzakar; det. A. Kuznetsov; ZMMU Lc-29760, H 20.0 mm.

Fig. 44.

**A** – *Armenica unicristata*; “Russ-Armenien: Schuscha”; det. O. Boettger; SMF 144127, H 16.6 mm; **B** – *Armenica zakatalica*, holotype; ZIN No. 1, H 23.8 mm; **C** – *Elia derasa*, syntype; “Reduktaleh” [sic]; ZMZ 516718, H 19.3 mm; **D** – *Elia ossetica*; North Ossetia, 10 km SW of Alagir Mount; det. I. Muratov; ZMMU Lc-29704, H 18.2 mm; **E** – *Elia novorossica*; Russia, Krasnodar Territory, Gelendzhik district, 100 m SW of “10<sup>th</sup> km” village; det. A. Kuznetsov; ZMMU Lc-29656, H 12.2 mm; **F** – *Elia somchetica somchetica*; Kobi; SMF 133500, H 14.3 mm; **G** – *Elia somchetica raddei*; Armenia, Gugark district, S of Lermontovo village; det. A. Kuznetsov; ZMMU Lc-29667, H 13.1 mm.

Fig. 45.

**A** – *Elia tuschetica*, holotype; ZIN No. 1, H 21.8 mm; **B** – *Elia tuschetica*, paratype; type locality; ZIN No. 2, H 20.4 mm; **C** – *Euxina gastron*, holotype; MNHN, H 20.4 mm; **D** – *Euxina talyschana*, holotype; ZIN No. 2a, H 14.1 mm; **E** – *Euxinastra hamata*, lectotype; SMF



145385, 17.7 mm; **F** – *Filosa filosa*, syntype; “Reduktaleh” [sic]; ZMZ 516636, H 9.0 mm; **G** – *Kazancia lindbolmi*, lectotype; ZIN No. 1a, H 19.5 mm.

Fig. 46.

**A** – *Mentissoidea rupicola rupicola*; “Adsharis-Zchali, Gouv. Batum”; det. I. Likharev; ZIN No. 6, H 16.7 mm; **B** – *Mentissoidea rupicola litotes*, syntype of *Clausilia litotes* var. *svanetica* Boettger; Svanetia (Georgia); ZIN No. 1, H 12.9 mm; **C** – *Scrobifera taurica taurica*; West Caucasus, 10 km NE of Gelendzhik, W end of Mikhailovskij-Pereval village; det. A. Kuznetsov; ZMMU Lc-29735, H 14.1 mm; **D** – *Scrobifera taurica brjanskii*, syntype; “Adler, Kuban-Gebiet”; SMF 30782, H 17.4 mm; **E** – *Scrobifera taurica brjanskii*, syntype; ZIN No. 1, H 16.6 mm; **F** – *Strigileuxina reuleauxi*, lectotype; SMF 145389, H 22.8 mm; **G** – *Clausilia bidentata*; Latvia; det. A. Schileyko; ZMMU Lc-9372, H 10.0 mm.

Fig. 47.

**A** – *Clausilia cruciata*; Smolensk Region, Ugra district, Zavalnoe village; det. R. Egorov; ZMMU Lc-24526, H 9.3 mm; **B** – *Clausilia dubia*; West Ukraine, vicinities of Uzhgorod; det. A. Schileyko; ZMMU Lc-37409, H 10.6 mm; **C** – *Clausilia pumila pumila*; Latvia, right bank of Daugava river near Daugavpils; det. S. Liovushkin; ZMMU Lc-4541, H 15.2 mm; **D** – *Clausilia pumila sejuncta*; Moscow Region, Abramtzevo village; det. A. Kuznetsov; ZMMU Lc-29805, H 13.5 mm; **E** – *Macrogastra latestriata latestriata*; Transcarpathia, Khust district, right bank of Rina river near Khust town; det. S. Liovushkin; ZMMU Lc-4552, H 12.1 mm; **F** – *Macrogastra latestriata borealis*; NW Russia, Vyshne-Volotzkij district, Medvezhyya Lapa; det. E. Shikov; ZIN No. 7, H 13.2 mm; **G** – *Macrogastra plicatula*; Moscow Region, Ferzikovo; det. B. Tzvetkov; ZMMU Lc-9393, H 12.0 mm; **H** – *Macrogastra tumida*; Poland, Krynica, Gora Parkowa, 800 m a.s.l.; det. K. Schniebs; ZMMU Lc-9392, H 14.3 mm.

Fig. 48.

**A** – *Macrogastra ventricosa*, probable syntype; “Vienne”; MNHN, H 16.8 mm; **B** – *Macrogastra ventricosa*; Moscow Region, Khimki City; det. A. Schileyko; ZMMU Lc-9387, H 18.0 mm; **C** – *Ruthenica filograna*; Moscow Region, Romashkovo railway station; det. A. Schileyko; ZMMU Lc-24629, H 8.1 mm; **D** – *Alinda stabilis*; Galicia, Przemyśl; det. C. Westerlund; ZIN, H 15.5 mm; **E** – *Alinda biplicata*; Moscow Region, Pakhra river bank near Mikhailovskoie village; det. A. Schileyko; ZMMU Lc-37411, H 16.5 mm; **F** – *Alinda fallax*; Galicia, Przemyśl; det. C. Westerlund; ZIN, H 19.0 mm; **G** – *Bulgarica cana*; Moscow Region, Romashkovo village; det. A. Schileyko; ZMMU Lc-24680, H 16.5 mm; **H** – *Bulgarica vetusta*, probable syntype (labelled as paratype); “Steiner Alpen, Krain”; SMF 5597, H 14.4 mm.

Fig. 49.

**A** – *Laciniaria plicata*; Moscow Region, Romashkovo railway station; det. A. Schileyko; ZMMU Lc-24684, H 15.2 mm; **B** – *Likharevia gustavi*, lectotype; SMF 144147, H 17.5 mm; **C** – *Mentissa gracilicosta gracilicosta*, syntype; “Taurien, Krim”; SMF 133625, H 18.9 mm; **D** – *Mentissa gracilicosta albocostata*, paratype; Crimea, between Kodnikovskoe and Kolkhoznoe villages; ZIN No. 2, H 19.7 mm; **E** – *Mentissa gracilicosta orientalis*, paratype; type locality; ZIN No. 1, H 16.9 mm; **F** – *Mentissa gracilicosta sodalis*; Crimea; det. C. Boettger; ZIN No. 1, H 15.8

mm; **G** – *Mentissa gracilicosta tshatyrdagika*, paratype; type locality; ZIN No. 1, H 17.7 mm; **H** – *Mentissa velutina*, paratype; Crimea, Yalta yayla, Tomillyary; ZIN No. 1, H 16.4 mm.

Fig. 50.

**A** – *Mentissa canalifera*, syntype; “Taurien, Krim”; SMF 133643, H 18.5 mm; **B** – *Mentissa canalifera*; “Krim”; SMF 133642, H 18.8 mm; **C** – *Mentissa canalifera*, holotype of *Clausilia detersa* Rossmässler; “Taurien, Krim”; SMF 145403, H 17.1 mm; **D** – *Micropontica annae*, holotype; ZIN No. 1, H 10.1 mm; **E** – *Micropontica circassica*, syntype; “Kaukasus: Oschten-Fischgruppe”; SMF 145380, H 13.9 mm; **F** – *Micropontica closta*, lectotype; ZIN No. 1, H 9.7 mm; **G** – *Micropontica interjecta*; “Beloretschjarsky-Tau”; ZIN No. 1, H 12.0 mm; **H** – *Micropontica retowskii*; West Caucasus, Khosta; det. A. Schileyko; ZMMU Lc-9284, H 11.3 mm.

Fig. 51.

**A** – *Mucronaria acuminata*, syntype; “Tabizhuri”; ZMZ 516706, H 13.6 mm; **B** – *Mucronaria index*, syntype; “Reduktaleh” [sic]; ZMZ 516685, H 16.6 mm; **C** – *Mucronaria duboisi*; Georgia, Tbilisi, Botanical Garden, S slope of Narikala Mount; det. A. Kuznetsov; ZMMU Lc-29823, H 12.4 mm; **D** – *Mucronaria pleuroptychia*, syntype; “Syrien”; SMF 133391, H 14.6 mm; **E** – *Mucronaria strauchii*; Georgia, vicinities of Kutaisi, Vartzikhe village; det. A. Schileyko; ZMMU Lc-9279, H 17.7 mm; **F** – *Quadriplacata aggesta aggesta*; Stavropol Territory, Zelenchuk district, 21 km SW of Arkhyz settlement, left bank of Aman-Auz river; det. A. Kuznetsov; ZMMU Lc-29908, H 12.2 mm; **G** – *Quadriplacata aggesta stauropolitana*, paralectotype; “Pjatigorsk, Gouv. Stavropol”; SMF 13333, H 16.2 mm; **H** – *Quadriplacata aggesta stauropolitana*, paralectotype; Stavropol; ZMMU Lc-613, H 15.4 mm.

Fig. 52.

**A** – *Quadriplacata dipolauchen*, paralectotype (labelled as lectotype); “Gordi am Tskeni-Tskali”; SMF 145396, H 16.9 mm; **B** – *Quadriplacata dipolauchen*, paralectotype; near Tzkenis-Tzkali, Rionee district; ZIN No. 1, H 15.8 mm; **C** – *Quadriplacata lederi lederi*, paralectotype (labelled as lectotype); Suram; SMF 145397, H 17.7 mm; **D** – *Quadriplacata lederi gradata*, paralectotype (labelled as lectotype); Timotissubani; SMF 133580, H 15.0 mm; **E** – *Quadriplacata lederi martensi*, paratype; Georgia, Chokhatauri district, near Bakhmaro, 40 km SSE of Nabeglavi, 1550-1700 m a.s.l.; ZMMU Lc-14443, H 16.2 mm; **F** – *Quadriplacata pumiliformis*; West Caucasus, NE of Adler, right side of Mzymta ravine, near entrance to Akhshtyr Cave; det. A. Kuznetsov; ZMMU Lc-29767, H 14.8 mm; **G** – *Quadriplacata quadriplacata*; “Kaukasus: Akhtala”; SMF 133536, H 18.5 mm; **H** – *Quadriplacata subaggesta*; Adzharia, Batumi Botanical Garden; det. A. Kuznetsov; ZMMU Lc-29919, H 14.1 mm.

Fig. 53.

**A** – *Vestia elata*; Romania, Suceava county, Bistria Mountains, Brosteni village; ZMMU Lc-29575, H 14.7 mm; **B** – *Vestia gulo*; Ukraine, Transcarpathian Region, Rakhov district, basin of upper Chernaya Tisa river, upper reaches of Okoly brook; det. A. Kuznetsov; ZMMU Lc-29574, H 16.0 mm; **C** – *Vestia turgida turgida*; Ukraine, NE vicinity of Chernovtzy City, forest on right bank of Prut river; det. A. Kuznetsov; ZMMU Lc-29537, H 15.0 mm; **D** – *Vestia turgida procera*; Ukraine, Transcarpathia, Tyachev district, Ugolskoe Forestry; det. A.

Baidashnikov; ZMMU Lc-9440, H 20.7 mm; **E** – *Balea perversa*; Germany, Rheinland-Pfalz, ruins of Rheingrafenstein Castle near Bad Munster am Stein; ZMMU Lc-29690, H 8.7 mm; **F** – *Cecilioides acicula*, syntype of *C. acicula* var. *abchasica* Retowski; Novyi Afon (Abkhazia); ZIN No. 1, H 6.5 mm; **G** – *Cecilioides raddei*; Crimea, Yalta district, Ai-Petri Yaila, 2 km N of Foros settlement, 400 m a.s.l.; det. A. Kuznetsov; ZMMU Lc-32535, H 6.6 mm; **H** – *Poiretia mingrelica*, lectotype; SMF 70590, H 33.6 mm.

Fig. 54.

**A** – *Punctum boreale*; Shikotan Island, north shore of Krabovaya Bay; det. I. Likharev; ZIN No. 4, D 1.8 mm; **B** – *Punctum micropneuros*; Montpellier; det. W. Lindholm; ZIN No. 1, D 2.2 mm; **C** – *Punctum conspectum*; Kamchatka, Ust-Bolsherechensk district, right bank of Plotnikova river; det. I. Likharev; ZIN No. 1, D 1.5 mm; **D** – *Punctum pygmaeum*; Voronezh Region, 4 km from Borisoglebsk; det. A. Kuznetsov; ZMMU Lc-27246, D 1.5 mm; **E** – *Punctum ussuriense*; Primorye, vicinities of Peishula Peninsula; det. A. Schileyko; ZMMU Lc-37442, D 1.2 mm; **F** – *Helicodiscus singleyanus*; Ukraine, Khmelnytskij Region, Zamekhov village; det. A. Schileyko; ZMMU Lc-25339, D 2.3 mm.

Fig. 55.

**A** – *Discus depressus*; Primorye territory, Khasan district, Kedrovaya Pad Reserve; det. I. Likharev; ZIN No. 90, D 6.5 mm; **B** – *Discus perspectivus*; Hermannstadt [= Sibiu, Romania]; det. C. Westerlund; ZIN No. 1, D 5.7 mm; **C** – *Discus rotundatus*; Ukraine, Lvov; det. M. Ospishchev; ZMMU Lc-15996, D 6.5 mm; **D** – *Discus ruderatus*; Moscow Region, Zavety Ilyicha collective farm; det. A. Schileyko; ZMMU Lc-37444, D 6.0 mm.

Fig. 56.

**A** – *Hawaia minuscula*; Primorye, Vladivostok; det. A. Kuznetsov; ZMMU Lc-30401, D 1.5 mm; **B** – *Striatura aperta*; Iturup Island, Kasatka Bay; det. I. Likharev; ZIN No. 1, D 2.2 mm; **C** – *Pristiloma japonica*; Kurile Islands, Iturup Island, 23 km S of Kurilsk City; det. A. Kuznetsov; ZMMU Lc-30408, D 2.8 mm; **D** – *Vitrea angustropha*, lectotype; Suram; SMF 170983, D 2.7 mm.

Fig. 57.

**A** – *Vitrea contortula*, syntype; Stavropol; ZIN No. 2, D 3.0 mm; **B** – *Vitrea contortula*, holotype of *Vitrea viridis* Westerlund; Il Mount; ZIN No. 1, D 3.3 mm; **C** – *Vitrea crystallina*; Ukraine, west boundary of Chernovtzy City; det. A. Kuznetsov; ZMMU Lc-30391, D 3.3 mm; **D** – *Vitrea contracta*; Sweden, Ronneby; det. C. Westerlund; ZIN No. 1, D 2.1 mm; **E** – *Vitrea diaphana*; Ukraine, Lesistye Carpaty, Urdu-Flavantuch Ridge, SW Rakhov town; det. A. Kuznetsov; ZMMU Lc-30421, D 3.7 mm.

Fig. 58.

**A** – *Vitrea nadejdae*, syntype (labelled as lectotype); ZIN No. 1, D 3.8 mm; **B** – *Vitrea rhododendronis*, holotype; ZIN No. 1, D 4.1 mm; **C** – *Vitrea pygmaea*, lectotype; Martkopi; SMF 171023, D 1.5 mm; **D** – *Vitrea subrimata*, lectotype; SMF 3482, D 2.7 mm; **E** – *Vitrea transylvanica*, lectotype; SMF 45685, D 2.7 mm.



Fig. 59.

**A** – *Aegopinella epipedostoma*; Ukraine, NE of Kamenetz-Podolsky town; det. A. Kuznetsov; ZMMU Lc-30337, D 7.4 mm; **B** – *Aegopinella nitens*; Kursk Region, Zheleznogorsk town; det. A. Kuznetsov; ZMMU Lc-30317, D 7.3 mm; **C** – *Aegopinella minor*, syntype of *Hyalina stauropolitana* Rosen; Stavropol; ZIN No. 1, D 6.3 mm; **D** – *Aegopinella nitidula*; Ukraine, Transcarpathia, Rakhov district, Svidovertz Ridge, 1 km of Kvasy village; det. A. Kuznetsov; ZMMU Lc-30351, D 7.7 mm; **E** – *Aegopinella pura*; North Caucasus, Stavropol Territory, Zelenchuk district, 21 km SW of Arkhyz settlement; det. A. Kuznetsov; ZMMU Lc-30340, D 3.7 mm.

Fig. 60.

**A** – *Perpolita hammonis*; Kurile Islands, Iturup Island, 23 km S of Kurilsk; det. A. Kuznetsov; ZMMU Lc-30352, D 4.1 mm; **B** – *Perpolita petronella*; Moscow Region, Podolsk district, NW of Novomikhailovskoe village; det. A. Kuznetsov; ZMMU Lc-30354, D 4.5 mm; **C** – *Cellariopsis orientalis*; East Carpathians, Yaremcha; det. A. Riedel; ZIN No. 2, D 9.7 mm; **D** – *Conulopolita sieversi*, lectotype; SMF 3498, D 7.2 mm; **E** – *Conulopolita stopnevichi*, syntype (labelled as lectotype); ZIN No. 1, D 7.4 mm.

Fig. 61.

**A** – *Conulopolita raddei*, syntype (labelled as lectotype); “Stalaktitenhöhle, Abchasien”; SMF 124368/a, D 15.2 mm; **B** – *Conulopolita cavatica*, holotype; ZIN No. 2, D 12.5 mm; **C** – *Discoxychilus lindholmii*; Adzharia, Khelvachauri district, Chirnoli village, Chirnoli river; ZIN No. 2, D 8.5 mm; **D** – *Eopolita derbentina*, holotype of *Hyalina siraphora* Westerlund; Nakhichevan; ZIN No. 1, D 7.4 mm; **E** – *Morlina glabra striaria*; Ukraine, Volyn; det. W. Lindholm; ZIN No. 2, D 11.0 mm.

Fig. 62.

**A** – *Oxychilus alliarius*; Moscow City, Lefortovo Park; det. A. Kuznetsov; ZMMU Lc-30314, D 7.5 mm; **B** – *Oxychilus caspius*, lectotype; SMF 225554, D 7.3 mm; **C** – *Oxychilus cellarius*; Poland, “Radochow ad Ladek-Zdroj (woj. Walbrzych)”; det. A. Riedel; ZIN No. 7, D 9.7 mm; **D** – *Oxychilus crenimargo*, paralectotype; Risa, Asia Minor; ZIN No. 1, D 6.3 mm; **E** – *Oxychilus deilus deilus*; Georgia, Tbilisi, Botanical Garden, N slope of mount of ruins of Narikala Castle; det. A. Kuznetsov; ZMMU Lc-30546, D 15.7 mm.

Fig. 63.

**A** – *Oxychilus decipiens decipiens*, lectotype; SMF 158333, D 10.1 mm; **B** – *Oxychilus decipiens adsbaricus*; Georgia, 3 km from Poti, sea debris; det. A. Kuznetsov; ZMMU Lc-30307, D 6.8 mm; **C** – *Oxychilus disciformis*; Talysh, Lenkoran-chai river floodland; det. A. Schileyko; ZMMU Lc-19936, D 6.9 mm; **D** – *Oxychilus difficilis*, syntype (labelled as lectotype); “W-Kaukasus: Oschten-Fischt-gruppe”; SMF 225580, D 25.0 mm; **E** – *Oxychilus discrepans*; Adzharia, Kedy district, Metzkhety Ridge, right side of Adzharistzkali river valley, above Tzoniarisi village; det. A. Kuznetsov; ZMMU Lc-30438, D 25.6 mm.

Fig. 64.

**A** – *Oxychilus draparnaudi*; Lithuania, Kaunas; det. A. Kuznetsov; ZMMU Lc-30581, D 13.3 mm; **B** – *Oxychilus elegans*, syntype; Lenkoran; ZIN No. 1, D 12.9 mm; **C** – *Oxychilus filicum*, syntype (labelled as lectotype); “Georgia. Tauria” ZIN No. 7, D 18.7 mm; **D** – *Oxychilus duboisi*, syntype; “Koutais”; ZMZ 502231, D 25.7 mm; **E** – *Oxychilus emmae*, holotype; ZIN No. 1, D 4.7 mm.

Fig. 65.

**A** – *Oxychilus borsti*; West Caucasus, Sochi; det. A. Kuznetsov; ZMMU Lc-30270, D 23.8 mm; **B** – *Oxychilus imperator*, paratype; Novyi Afon; ZIN No. 6, D 24.6 mm; **C** – *Oxychilus kobelti*, lectotype; ZIN No. 1, 22.3 mm; **D** – *Oxychilus iphigenia*, syntype (labelled as lectotype); ZIN No. 1, D 4.7 mm; **E** – *Oxychilus oschtenicus*, syntype (labelled as lectotype); “N Kaukasus: Oschten-Fischt-gruppe”; SMF 160941, D 17.2 mm.

Fig. 66.

**A** – *Oxychilus koutaisanus koutaisanus*, syntype of *Zonites lucidus* var. *selectus* Mousson; “Mingrelien, Koutais”; ZMZ 502238, D 19.7 mm; **B** – *Oxychilus koutaisanus mingrelicus*, syntype; “Reduktaleh” [sic]; ZMZ 502223, D 20.5 mm; **C** – *Oxychilus koutaisanus mingrelicus*, syntype of *Oxychilus emigratus* Lindholm; Ashkhabad, horticultural farm Revillon; ZIN No. 1, D 16.3 mm; **D** – *Oxychilus suaneticus suaneticus*, syntype (labelled as lectotype); “Swanetia”; SMF 225695, D 18.7 mm; **E** – *Oxychilus suaneticus likharevi*, holotype, ZIN No. 4, D 25.4 mm.

Fig. 67.

**A** – *Oxychilus sucinaceus sucinaceus*, lectotype; SMF 162978, D 19.7 mm; photo courtesy E. Neubert; **B** – *Oxychilus sucinaceus zakatalicus*, holotype; ZIN No. 4, D 18.9 mm; **C** – “*Oxychilus*” *andronakii*, syntype; type locality; ZIN No. 4, D 11.6 mm; **D** – *Oxychilus translucidus*; Adzharia, Batumi; det. A. Kuznetsov; ZMMU Lc-30310, D 7.7 mm; **E** – *Oxychilus subeffusus*, syntype (labelled as lectotype); “Transkaukasien: Mamudly”; SMF 3496, D 3.5 mm.

Fig. 68.

**A** – *Oxychilus* (?) *diaphanellus*, probable syntype; “Tauria”; ZIN No. 6, D 6.6 mm; **B** – “*Oxychilus*” *birsteini*, syntype; type locality; ZMMU Lc-14469, D 5.3 mm; **C** – “*Oxychilus*” *lederi*, lectotype; SMF 125199, D 15.0 mm; **D** – “*Oxychilus*” *retowskii*; Georgia, 3 km from Poti, sea debris; det. A. Kuznetsov; ZMMU Lc-30444, D 4.2 mm; **E** – *Riedeliconcha depressa*; Crimea, Karasubazar; det. E. Rammelmeyer; ZIN No. 4, D 7.3 mm.

Fig. 69.

**A** – *Vitrinoxychilus subsuturalis*, syntype (labelled as lectotype); “Kaukasus: Niederung Kurdschips”; SMF 165894, D 6.5 mm; **B** – *Vitrinoxychilus subsuturalis*, syntype; “Plaine de Kurdschia, Caucase Occidentale”; MNHN, D 6.0 mm; **C** – *Vitrinoxychilus suturalis*, syntype (labelled as lectotype); type locality; ZIN No. 1, D 5.6 mm; **D** – *Bilania boettgeri*; Crimea, NW of Simferopol, vicinities of Beloglinka village; det. S. Leonov; L 34 mm; photo courtesy S. Leonov; **E** – *Bilania boettgeri*; Crimea, Yalta; det. O. Retowski; ZMMU Lc-7889, D 5.2 mm; **F** – *Carpathica calophana*, syntype;

NMG 13; photo courtesy D. Ivanov; **G** – *Carpathica calophana*; Carpathians, Ivano-Frankovsk Region, Yaremcha village; det. I. Likharev; ZMMU Lc-7881, D 4.8 mm.

Fig. 70.

**A** – *Daudebardia brevipes brevipes*; Ukraine, Lvov Region, vicinities of Lvov, Bryukhovichi forest park; det. N. Sverlova; ZMMU Lc-28778, D 4.5 mm; **B** – *Daudebardia rufa rufa*; Ukraine, Lvov Region, vicinities of Lvov; det. N. Sverlova; ZMMU Lc-28777, D 3.9 mm; **C** – *Inguria wagneri*; Great Caucasus, wet forest in Tekhuri river valley; det. A. Schileyko; ZMMU Lc-7886, D 7.7 mm; **D** – *Sieversia beydeni*; Batumi, Botanical Garden; det. A. Schileyko; ZMMU Lc-7872, D 6.4 mm; **E** – *Sieversia lederi*; Abkhasia, Tkvarcheli, Akarmara; det. A. Schileyko; ZMMU Lc-7876, D 5.9 mm; **F** – *Szuchumiella jetschini*; Abkhasia, Tkvarcheli, Akarmara, between Dzhanukha settlement and mine No. 6; det. I. Likharev; ZMMU Lc-7883, D 4.7 mm.

Fig. 71.

**A** – *Vitrina exilis*; Bering Island; ZIN No. 1, D 4.9 mm; **B** – *Vitrina pellucida pellucida*; Central Russia, left bank of Oka river near Belye Kolodezi village; det. A. Schileyko; ZMMU Lc-25609, D 5.5 mm; **C** – *Vitrina pellucida alaskana*; Commander Islands, Bering Island, vicinities of Nikolskoe village; det. A. Schileyko; ZMMU Lc-25610, D 6.5 mm; **D** – *Vitrina rugulosa*; Hissar Ridge, Romit Reserve; det. Z. Izzatullaev; ZMMU Lc-215615, D 5.5 mm; **E** – *Phenacolimax annularis*; Lesser Caucasus, Shirak Highland, 9 km from Leninakan; det. A. Schileyko; ZMMU Lc-12771, D 5.4 mm.

Fig. 72.

**A** – *Trochovitrina lederi*, lectotype; SMF 170216, D 4.5 mm; photo courtesy E. Neubert; **B** – *Euobresia nivalis*, syntype (labelled as lectotype); “Vaud, Bex, Alp Azindaz”; SMF 170130, D 5.8 mm; photo courtesy E. Neubert; **C** – *Euobresia nivalis*; Poland, Tatry, Koshely village; det. I. Likharev; ZMMU Lc-12837, D 5.9 mm; **D** – *Semilimax kotulai*; Transcarpathia, Kvasy village near Rakhov city; det. A. Schileyko; ZMMU Lc-12888, D 5.6 mm; **E** – *Semilimax semilimax*; Transcarpathia, Rakhov district, Chernotiseyanskoe Forestry, upper reaches of Apshinets river; det. A. Kuznetsov; ZMMU Lc-12781, D 5.2 mm.

Fig. 73.

**A** – *Zonitoides arboreus*; Sakhalin, eastern vicinity of Yuzhno-Sakhalinsk city, Susunai Ridge; det. A. Kuznetsov; ZMMU Lc-30369, D 4.1 mm; **B** – *Zonitoides nitidus*; Ukraine, Transcarpathia, Uzhgorod city; det. A. Kuznetsov; ZMMU Lc-30379, D 7.0 mm; **C** – *Discoconulus sinapidium*; Primorye, near Kongauz village; det. A. Kuznetsov; ZMMU Lc-26820, D 1.2 mm; **D** – *Euconulus fulvus*; Zailiyskij Alatau, Bakhtiar ravine; det. R. Egorov; ZMMU Lc-15692, D 3.0 mm.

Fig. 74.

**A** – *Macroblamys kasnakovi*, syntype (labelled as lectotype); type locality; ZIN No. 1, D 9.0 mm; **B** – *Macroblamys sogdiana*, lectotype; ZMMU Lc-1076, D 20.3 mm; **C** – *Macroblamys turanica*, lectotype; ZMMU Lc-3785, D 17.7 mm; **D** – *Macroblamys clessini*, syntype of *M. kasachstani* Tzvetkov; South Kazakhstan, Zailiyskij Alatau, Kargaly, Kargalinka river ravine, near Ush-

Konur; ZMMU Lc-24519, D 15.2 mm; **E** – *Macroblamys turanica*, syntype of *M. korsbinski* Westerlund; Arslan-Bob; ZMMU Lc-3797, D 19.1 mm; **F** – *Macroblamys turanica*, syntype of *Hyalinia reteri* Rosen; Aman-Kutan, Samarkand province; ZMMU Lc-3821, D 11.7 mm.

Fig. 75.

**A** – *Deroceras agreste*; suburbs of Moscow; det. H. Simroth; ZMMU Lc-765, L 15.0 mm; **B** – *Deroceras bakurianum*; Batumi, Georgia; after Likharev, Wiktor, 1980, changed; **C** – *Deroceras caucasicum*; Dushanbe, Tajikistan; after Likharev, Wiktor, 1980, changed; **D** – *Deroceras laeve*; Moscow Region, Khimki, park of Zakharyino sanatorium; ZMMU Lc-19434, L 9.5 mm; **E** – *Deroceras moldavicum*; “Komańcza in Bieszczady-Gebirge”, Poland; after Wiktor, 1973; **F** – *Deroceras osseticum*; Batumi, Georgia; after Likharev, Wiktor, 1980, changed; **G** – *Deroceras praecox*; “Gipfel Babia Góra”, Poland; after Wiktor, 1973; **H** – *Deroceras reticulatum*; Moscow Region, Russkoe-Vasilkovo; det. A. Schileyko; ZMMU Lc-1203.

Fig. 76.

**A** – *Deroceras rodnae*; “Szczepreszyn”, Poland; after Wiktor, 1973; **B** – *Deroceras sturanyi*; “Wrocław”, Poland; after Wiktor, 1973; **C** – *Deroceras subagreste*; Krasnodar Territory, Tulskaja settlement; after Likharev, Wiktor, 1980, changed; **D** – *Megalopelte simrothi*; Batumi Botanical garden; ZMMU Lc-21833; **E** – *Boettgerilla pallens*; Moscow, Vorobiovy Gory; det. A. Schileyko; ZMMU Lc-19458; **F** – *Caspilimax keyserlingi*; Talysh Mountains, Lerik, Azerbaijan; after Likharev, Wiktor, 1980, changed; **G** – *Gigantomilax brunneus*; Zangezur Range; after Likharev, Wiktor, 1980, changed.

Fig. 77.

**A** – *Gigantomilax koenigi*; Kurdistan, Iraq; after Likharev, Wiktor, 1980, changed; **B** – *Gigantomilax lederi*; North Caucasus, Teberda Reserve, Dombai, 2700-2800 m a.s.l.; det. A. Schileyko; ZMMU, L 83 mm; **C** – *Gigantomilax monticola armeniacus*; Southern Georgia; after Likharev, Wiktor, 1980, changed; **D** – *Limax flavus*; Crimea, Karasan; det. A. Schileyko; ZMMU Lc-26137; **E** – *Limax cinereoniger*; Moscow, Vorobiovy Gory; det. A. Schileyko; ZMMU.

Fig. 78.

**A** – *Limax maximus*; Norway, Bergen; det. A. Schileyko; ZMMU, L 50.5 mm; **B** – *Malacolimax tenellus*; “Milicz”, Poland; after Wiktor, 1973; **C** – *Turcomilax ferganus*; Dzungar Rudge, N slopes near Aral-Tobe; det. A. Kuzminykh; ZMMU Lc-24268; **D** – *Turcomilax nanus*; Fergansky Range, Kyzyl-Ungur; after Likharev, Wiktor, 1980, changed; **E** – *Turcomilax natalianus*; **F** – *Turcomilax turkestanus*; Kirgizia, ravine near Kyz-Kie village, 30 km from Bystrovka sideward of Rybachie; det. A. Schileyko; ZMMU Lc-19765; **G** – *Turcomilax tzyetkovi*, paratype; Kazakhstan, Zailiiskij Alatau Ridge, opposite to Malovodnoe settlement; ZMMU Lc-19770, L 39.5 mm; **H** – *Eumilax brandti*; Inari; ZMMU Lc-24078; **I** – *Eumilax intermittens*; Lagodekhi Reserve (Georgia); ZMMU Lc-24075.

Fig. 79.

**A** – *Metalimax varius*; Krasnodar Territory, Severskaya settlement; after Likharev, Wiktor, 1980, changed; **B** – *Bielzia coerulans*; Transcarpathia, Rakhov district, Kvasy village; det. A.

Schileiko; ZMMU; **C** – *Boreolestes likharevi*, holotype; after Schileiko, Kijashko, 1999; **D** – *Boreolestes sylvestris*, holotype; Schileiko, Kijashko, 1999; **E** – *Drilolestes retovskii*; environs of Sukhumi, West Caucasus; after Likharev, Wiktor, 1980, changed; **F** – *Hyrcaolestes velitaris*; Talysh, Shumrud; det. A. Schileiko; ZMMU Lc-19461; **G** – *Trigonochlamys imitatrix*; Caucasus; after Likharev, Wiktor, 1980, changed; **H** – *Khostalestes kochetkovi*, holotype; after Suvorov, 2003; **I** – *Lesticulus nocturnus*, holotype.

Fig. 80.

**A** – *Troglolestes sokolovi* Vorontzovskaja Cave near Sochi; after Ljovushkin, Matiokin, 1965; **B** – *Candabaria izgatullaevi*; [Tajikistan], Romit gorge, Yavroz settlement; det. I. Muratov; ZMMU Lc-20584, L 27 mm; **C** – *Candabaria levanderi*; Hissar Range, Khodya-Obi-Gharm, Tadjikistan; after Likharev, Wiktor, 1980, changed; **D** – *Candabaria rutellum*; Kirgiz Ridge, Karabalty gorge; det. A. Schileiko; ZMMU Lc-5005, L 29.5 mm; **E** – *Parmacella iberica*; Kopet Dag, Kara-Kala; det. A. Schileiko; ZMMU Lc-21817, L 38 mm; **F** – *Milax caucasicus*; Talysh, Bibiony village; det. A. Schileiko; ZMMU Lc-5110, L 17.5 mm; **G** – *Tandonia cristata*; suburbs of Constantinople; det. H. Simroth; ZMMU Lc-768, L 16 mm; **H** – *Tandonia kusceri*; Bulgaria; after Likharev, Wiktor, 1980, changed.

Fig. 81.

**A** – *Tandonia kaleniczenkoi*; Crimea, Yalta, Nikitski Botanical garden; after Likharev, Wiktor, 1980, changed; **B** – *Meghimatium bilineatum*; above **E** – China, Yunnan province, below – Khabarovsk Territory, Kukhari settlement; after Likharev, Wiktor, 1980, changed; **C** – *Arion rufus*; Säntis Mount near Appenzell; det. A. Schileiko; ZMMU, L 64 mm; **D** – *Arion circumscriptus*; “Nowiny bei Belżec”, Poland; after Wiktor, 1973; **E** – *Arion fasciatus*; “Książ bei Wałbrzych”, Poland; after Wiktor, 1973.

Fig. 82.

**A** – *Arion hortensis*; Wrocław; after Wiktor, 1973; **B** – *Arion sibiricus*; above **E** – Altai, upper part of Izha river; below – Irkutsk; lectotype; after Likharev, Wiktor, 1980, changed **C** – *Arion sylvaticus*; “Umgebung des Berges Biskupia Kopa”, Poland; after Wiktor, 1973, changed; **D** – *Arion subfuscus*; above **E** – Lithuania; below – vicinity of Imandra Lake, Kola Peninsula; after Likharev, Wiktor, 1980, changed.

Fig. 83.

**A** – *Deroceras caucasicum*; Crimea, NW of Simferopol, vicinities of Beloglinka village; det. S. Leonov; L 54 mm; photo courtesy S. Leonov; **B** – *Deroceras caucasicum*; Crimea, NW of Simferopol, vicinities of Beloglinka village, Salgir river bank; det. S. Leonov; photo courtesy S. Leonov; **C** – *Deroceras reticulatum*; Crimea, NW of Simferopol, vicinities of Beloglinka village, Salgir river bank; det. S. Leonov; photo courtesy S. Leonov; **D** – *Deroceras reticulatum*; Crimea, NW of Simferopol, vicinities of Beloglinka village; det. S. Leonov; L ca. 30 mm; photo courtesy S. Leonov; **E** – *Deroceras reticulatum*; Western Ukraine, vicinities of Lvov; det. N. Sverlova; photo courtesy N. Sverlova; **F** – *Deroceras rodnae*; Western Ukraine; vicinities of Lvov; det. N. Sverlova; photo courtesy N. Sverlova.

Fig. 84.

**A** – *Deroceras tauricum*; Crimea, Sevastopol, Omega; det. S. Leonov; L 42 mm; photo courtesy S. Leonov; **B** – *Krynickyillus melanocephalus*; Crimea, Chatyrdagh; det. S. Leonov; L ca. 60 mm; photo courtesy S. Leonov; **C** – *Krynickyillus melanocephalus*; Western Ukraine, vicinities of Lvov; det. N. Sverlova; photo courtesy N. Sverlova; **D** – *Boettgerilla pallens*; Western Ukraine, vicinities of Lvov; det. N. Sverlova; photo courtesy N. Sverlova; **E** – *Lebmannia marginata*; Western Ukraine, vicinities of Lvov; det. N. Sverlova; photo courtesy N. Sverlova; **F** – *Limax cinereoniger*; Western Ukraine, vicinities of Lvov; det. N. Sverlova; photo courtesy N. Sverlova.

Fig. 85.

**A** – *Limax maximus*; Crimea, Inkerman; det. S. Leonov; L 95 mm; photo courtesy S. Leonov; **B** – *Limax maximus*; Western Ukraine; det. N. Sverlova; photo courtesy N. Sverlova; **C** – *Limax maculatus*; Ukraine, Kiev Region; det. N. Sverlova; photo courtesy N. Sverlova; **D** – *Limax maculatus*; Crimea, Simferopol; det. S. Leonov; L 95 mm; photo courtesy S. Leonov; **E** – *Limax flavus*; Crimea, Gaspra; det. S. Leonov; L 95 mm; photo courtesy S. Leonov; **F** – *Eumilax brandti*; Northern Caucasus, N of Karasu, Bezengi valley; det. I. Muratov; photo courtesy I. Muratov; **G** – *Eumilax brandti*; Northern Caucasus, upper reaches of Nalchik river; det. I. Muratov; photo courtesy I. Muratov.

Fig. 86.

**A** – *Tandonia cristata*; Crimea, NW of Simferopol, vicinities of Beloglinka village; det. S. Leonov; L ca. 35 mm; photo courtesy S. Leonov; **B** – *Tandonia kaleniczenkoi*; Crimea, NW of Simferopol, vicinities of Beloglinka village; det. S. Leonov; L 51 mm; photo courtesy S. Leonov; **C** – *Tandonia kusceri*; Crimea, NW of Simferopol, vicinities of Beloglinka village; det. S. Leonov; L 70 mm; photo courtesy S. Leonov; **D** – *Bielzia coerulans*; Western Ukraine, vicinities of Lvov; det. N. Sverlova; photo courtesy N. Sverlova; **E** – *Candabaria rutellum*; Tajikistan, near Dushanbe; det. I. Muratov; photo courtesy I. Muratov; **F** – *Arion fasciatus*; Western Ukraine, vicinities of Lvov; det. N. Sverlova; photo courtesy N. Sverlova; **G** – *Arion subfuscus*; White Sea, Kandalaksha Bay, Kindo Peninsula; det. A. Schileyko; photo courtesy D. Ivanov.

Fig. 87.

**A** – *Arianta arbustorum*; Moscow Region, Valentinovka village; det. A. Schileyko; ZMMU Lc-25263, D 20.9 mm; **B** – *Arianta petrii*; Transcarpathia, Ivano-Frankovsk Region, 15 km from Shibene village; det. A. Baidashnikov; ZMMU Lc-6887, D 20.1 mm; **C** – *Drobacia banatica*; Transcarpathia, near Khust town, Gula Mountains; det. A. Schileyko; ZMMU Lc-6863, D 28.8 mm; **D** – *Camptylaea faustina*; Transcarpathia, Raphov district, Kvasy village; det. A. Schileyko; ZMMU Lc-6886, D 16.8 mm.

Fig. 88.

**A** – *Helicigona lapicida*; Czechia, Andelska Mount near Karlovy Vary city; det. V. Hudec; ZMMU Lc-6869, D 14.7 mm; **B** – *Isonomostoma isognomostomum*; West Ukraine, vicinities of Rakhov town; det. A. Schileyko; ZMMU Lc-37410, D 10.2 mm; **C** – *Caucasotachea atrolabiata*, syntype of *Helix atrolabiata* var. *albispira* Lindholm; [Abkhasia], 2-3 km N of Gagry; ZIN



No. 1, D 35.4 mm; **D** – *Caucasotachea atrolabiata*, syntype of *Helix atrolabiata* var. *voronoviae* Lindholm; [N Caucasus], Tzebelda, Medzhara river basin, Yurjevskoe estate; ZIN No. 1, D 36.0 mm; **E** – *Caucasotachea calligera*, lectotype of *Helix atrolabiata* var. *pallasii* Mousson; “Ghelindjik (Marzuka)”, ZMZ 506694, D 32.8 mm.

Fig. 89.

**A** – *Caucasotachea leucoranea*; Talysh, Pensar; det. A. Schileyko; ZMMU Lc-6801, D 27.5 mm; **B** – *Cepaea hortensis*; Germany, Illert, Schloss Illertissen; det. K. Fraussen; ZMMU Lc-23047, D 18.8 mm; **C** – *Cepaea nemoralis*; Moscow Region, Yaroslavl Railroad, Zagoryanka settlement; det. A. Schileyko; ZMMU Lc-12929, D 23.2 mm; **D** – *Cepaea vindobonensis*; syntype (labelled as lectotype) of *Helix arvensis* Krynicky; Kharkov; ZIN No. 1, D 21.1 mm.

Fig. 90.

**A** – *Cryptomphalus aspersa*; Belgium, Brussels; ZMMU Lc-1869, D 29.2 mm; **B** – *Helix albescens*; holotype; SMF 9834, D 31.0 mm; **C** – *Helix albescens*; Crimea, Yalta, Massandra, 400–500 m a.s.l.; det. A. Schileyko; ZMMU Lc-2452, D 29.5 mm; **D** – *Eobania vermiculata*; Crimea, Nikitsky Botanical Garden; det. A. Schileyko; ZMMU Lc-9932, D 27.4 mm.

Fig. 91.

**A** – *Helix buchi*; Armenia, Idzhevan district, Gandzakar (= Verin Agdan) village; det. A. Kuznetsov; ZMMU Lc-27806, D 45.0 mm; **B** – *Helix christophi*, lectotype; SMF 50787, D 29.0 mm; photo courtesy E. Neubert; **C** – *Helix lucorum*; Crimea, Prokhladnoe village; det. A. Kuznetsov; ZMMU Lc-27818, D 41.4 mm; **D** – *Helix nordmanni*, syntype; “Kaukasus, Akhaltsckhe”; ZMZ 506382, D 25.4 mm.

Fig. 92.

**A** – *Helix lutescens*, neotype; SMF 9850, D 29.2 mm; **B** – *Helix lutescens*; Ukraine, Kamenetz-Podolsky town; det. A. Kuznetsov; ZMMU Lc-27785, D 28.6 mm; **C** – *Helix pomatia*; Moscow, Petrovsko-Razumovskoe; det. A. Schileyko; ZMMU Lc-6849, D 34.5 mm; **D** – *Levantina escheriana*; South Nakhichevan, semidesert; det. A. Schileyko; ZMMU Lc-19608, D 33.6 mm.

Fig. 93.

**A** – *Levantina djulfensis*, syntype (labelled as lectotype) of *Helix casta* Westerlund; “Caucasus”; ZIN No. 1, D 33.0 mm; **B** – *Levantina djulfensis*; Armenia, Zangezur Ridge, near Megri Mount; det. A. Schileyko; ZMMU Lc-9925, D 30.3 mm; **C** – *Levantina longinqua*, lectotype; SMF 5703, D 41.3 mm; photo courtesy E. Neubert; **D** – *Acusta ravida*, syntype of *Helix cincioinflata* Mousson; “Wladiwostok, Amour”; ZMZ 510101, D 31.0 mm; **E** – *Fruticicola alaiica*, holotype; ZMMU Lc-22978, D 15.0 mm.

Fig. 94.

**A** – *Fruticicola almaatini*, syntype; Zailijskij Alatau Ridge, Malaya Almaatinka river canyon; ZMMU Lc-14476, D 23.6 mm; **B** – *Fruticicola bilaticincta*; Uzbekistan, Bostanlyk district, Chatkal Ridge, 2 km SSE of Chimgan village, 1720–1750 m a.s.l.; det. A. Kuznetsov; ZMMU Lc-32982, D 24.8 mm; **C** – *Fruticicola cavimargo cavimargo*; Zailijskij Alatau, Bartogai, Suraigy;

det. A. Schileyko; ZMMU Lc-16335, D 14.0 mm; **D** – *Fruticicola cavimargo tarbagataica*, holotype; ZMMU Lc-14426, D 11.4 mm; **E** – *Fruticicola cavimargo tarbagataica*; SW Altai, 3 km SE from Maralikha village, N slope of Kuchum Ridge, left side of Kuchum river valley; det. A. Kuznetsov; ZMMU Lc-20895, D 10.7 mm.

Fig. 95.

**A** – *Fruticicola dichrozona*; Tien Shan, Chatkal Ridge, Sary-Chelek; det. A. Schileyko; ZMMU Lc-9594, D 18.5 mm; **B** – *Fruticicola fedtschenkoi*, lectotype; ZMMU Lc-645, D 13.5 mm; **C** – *Fruticicola fruticum*; Ukraine, Kharkov; ZMMU Lc-341, D 19.6 mm; **D** – *Fruticicola perlucens*, lectotype; ZMMU Lc-523, D 19.3 mm.

Fig. 96.

**A** – *Fruticicola helvola helvola*; Tarbagatai; det. T. Rymzhanov; ZMMU Lc-9497, D 19.0 mm; **B** – *Fruticicola phaeozona pseudarianta*, lectotype; ZIN No. 2, D 18.7 mm; **C** – *Fruticicola helvola anachoretica*; SW Altai, Kazakhstan, Ulbinsky Ridge, 2 km SE from Gornaya Ulbinka village; det. A. Kuznetsov; ZMMU Lc-32885, D 16.7 mm; **D** – *Fruticicola phaeozona phaeozona*, lectotype; ZMMU Lc-650, D 14.7 mm; **E** – *Fruticicola necopinata*, lectotype; ZMMU Lc-14420, D 14.7 mm.

Fig. 97.

**A-G** – *Fruticicola lantzi*: **A** – syntype (labelled as holotype); type locality; ZIN No. 3, D 19.5 mm; **B** – syntype; type locality; ZMMU Lc-14486, D 19.6 mm; **C** – lectotype of m. *steppensis* Tzvetkov; Alma-Ata; ZMMU Lc-2786, D 18.8 mm; **D** – lectotype of m. *silvestris* Tzvetkov; Zailiyskij Alatau Ridge, Malaya Almaatinka River Canyon, meadow at 1900 m a.s.l.; ZMMU Lc-14468, D 20.4 mm; **E** – lectotype of m. *montana* Tzvetkov; South Kazakhstan, Uzun-Agach, bush in foothills.; ZMMU Lc-2670, D 22.5 mm; **F** – lectotype of f. *albina* Tzvetkov; Kazakhstan, Dzungaria, Kyzyl-Agach River Canyon near Kopal Mountain; ZMMU Lc-14415, D 22.5 mm; **G** – lectotype of ssp. *sinistrorsa* Tzvetkov; Kazakhstan, Zailiysky Alatau Ridge, Issyk River Canyon (near Alma-Ata City); ZMMU Lc-14473, D 21.0 mm; **H** – *Fruticicola scythica*, lectotype; ZIN No. 1, D 21.0 mm.

Fig. 98.

**A** – *Fruticicola plectotropis plectotropis*, syntype of *Helix plectotropis* var. *uniformis* Ancey; “Arassan Bulak, Dzungaria”; MNHN, D 17.5 mm; **B** – *Fruticicola plectotropis mesophila*, lectotype; ZMMU Lc-14466, D 21.6 mm; **C** – *Fruticicola plectotropis scopulosa*; Kirgizia, Chuisk Region, Alamedin district, Kirgiz Ala-Too Ridge, right side of Alamedin river valley, 2.3 km S of Koi-Tash village, 1500 m a.s.l.; det. A. Kuznetsov; ZMMU Lc-32971, D 21.0 mm; **D** – *Fruticicola plectotropis saxatilis*, lectotype; ZMMU Lc-14433, D 15.0 mm; **E** – *Fruticicola plectotropis scalaris*, lectotype; ZMMU Lc-14467, D 16.0 mm.

Fig. 99.

**A** – *Fruticicola schrenckii*, syntype (labelled as lectotype); Siberia; ZIN No. 20, D 15.5 mm; **B** – *Fruticicola skwortzowi*, syntype; South Kazakhstan, Uzun-Agach, Mai-Tyube Pasture in Kara-Kestek river valley ZMMU Lc-14428, D 18.3 mm; **C** – *Fruticicola tomyris*, holotype;



ZIN No. 1, 22.0 mm; **D** – *Fruticicola plectotropis stschukini*, syntype (labelled as lectotype); type locality; ZIN No. 4, D 16.3 mm; **E** – *Fruticicola squamulosa*, paratype; type locality; ZMMU Lc-14446, D 6.7 mm.

Fig. 100.

**A** – *Fruticicola stoliczkaiana stoliczkaiana*, “Turkestan: Gartakhe”; det. G. Nevill; SMF 22834, D 15.6 mm; **B** – *Fruticicola stoliczkaiana pavlovskii*, holotype; ZIN No. 2, D 14.6 mm; **C** – *Fruticicola stoliczkaiana chniuka*, holotype; ZMMU Lc-21420, D 10.1 mm; **D** – *Fruticicola plectotropis transiliensis*, lectotype; ZMMU Lc-14472, D 14.6 mm; **E** – *Fruticicola zhecseni*, holotype; ZIN No. 1, D 10.0 mm.

Fig. 101.

**A** – *Fruticicola transbaicalia transbaicalia*, holotype; ZIN No. 1, D 20.5 mm; **B** – *Fruticicola transbaicalia sayanica*, holotype; ZMMU Lc-22856, D 22.8 mm; **C** – *Fruticicola tshvetkovi*; Kazakhstan, Alma-Ata Region, Zailijskij Alatau Ridge, left side of Issyk river valley, W of Issyk Lake; det. A. Kuznetsov; ZMMU Lc-33972, D 10.0 mm; **D** – *Karaftobelix arcasiana*; Primorye Territory, Nakhodka city; det. A. Kuznetsov; ZMMU Lc-32803, D 15.3 mm.

Fig. 102.

**A** – *Karaftobelix bocageana bocageana*; Kurile Islands, Shikotan, SW shore of Krabovaya Bay; det. A. Kuznetsov; ZMMU Lc-32892, D 23.6 mm; **B** – *Karaftobelix bocageana chishimana*; Kunashir Island, forest near Goryachij Plyazh settlement; det. A. Schileyko; ZMMU Lc-12956, D 26.4 mm; **C** – *Karaftobelix bocageana weyrichii*; South Sakhalin, near Novoaleksandrovsk; det. A. Schileyko; ZMMU Lc-16323, D 31.3 mm; **D** – *Karaftobelix bocageana weyrichii*, probable syntype; “Lit. orient. Ins. Sachalis prope Manuë”; ZIN No. 1, D 29.8 mm; **E** – *Karaftobelix dieckmanni*; Peter the Great Bay, Stenina Island; det. R. Bratchik, ZMMU Lc-37416, D 9.2 mm.

Fig. 103.

**A** – *Karaftobelix capillata*, paratype; Peter the Great Bay, Rimsky-Korsakov Islands, Durnovo Island; ZMMU Lc-32779, D 8.5 mm; **B** – *Karaftobelix capillata*, paratype; Peter the Great Bay, Pelis Island; ZMMU Lc-14444, D 8.2 mm; **C** – *Karaftobelix diversita*, holotype; ZIN No. 1, D 12.5 mm; **D** – *Karaftobelix duiensis*; Sakhalin, Kholmsk district, Pravda settlement; det. A. Kuznetsov; ZMMU Lc-32796, D 20.1 mm.

Fig. 104.

**A** – *Karaftobelix fragilis*, lectotype; ANSP 99958a, D 21.3 mm; photo courtesy I. Muratov; **B** – *Karaftobelix incognita*, holotype; ZMMU Lc-14480, D 9.5 mm; **C** – *Karaftobelix intermedia*, holotype; ZIN No. 1, D 12.1 mm; **D** – *Karaftobelix kurodana*, lectotype; ANSP 99960a, D 29.6 mm; photo courtesy I. Muratov.

Fig. 105.

**A** – *Karaftobelix maackei*, syntype (labelled as lectotype); type locality; ZIN No. 190, D 17.1 mm; **B** – *Karaftobelix maackei*; Primorye, Khekhtzir Natural Reserve; det. R. Bratchik; ZMMU Lc-13986, D 28.8 mm; **C** – *Karaftobelix middendorffi*, syntype (labelled as lectotype);

type locality; ZIN No. 89, D 18.7 mm; **D** – *Karftobelix middendorffi*, syntype of *Helix graeseri* Mousson; Wladiwostok; ZMZ 508504, D 15.9 mm.

Fig. 106.

**A** – *Karftobelix kudiensis*; Southern Khabarovsk Territory, Epovsky Ridge; det. A. Schileyko; ZMMU Lc-20937, D 13.7 mm; **B** – *Karftobelix strelkovi*, holotype; ZIN No. 1, 25.5 mm; **C** – *Karftobelix strelkovi*; Kurile Islands, Iturup Island, 23 km SSE of Kurilsk city, foot of Bakanskogo volcano; det. A. Kuznetsov; ZMMU Lc-32797, D 19.7 mm; **D** – *Karftobelix vulcanica*, holotype; ZIN No. 1, D 20.7 mm.

Fig. 107.

**A** – *Karftobelix plana*, holotype; ZMMU Lc-14482, D 21.1 mm; **B** – *Karftobelix ussuriensis*, lectotype; NMG 738; photo courtesy D. Ivanov; **C** – *Ponsadenia dentata*, paratype; Kungei Ridge, vicinities of Kulsai Lake; ZMMU Lc-18835, D 6.2 mm; **D** – *Ponsadenia hirsuta*, syntype; Kazakhstan, Tarbagatai, mountains near Kharakol river; ZMMU Lc-9254, D 9.8 mm; **E** – *Ponsadenia pseudoferganica*, holotype; ZIN No. 1, D 19.7 mm.

Fig. 108.

**A** – *Ponsadenia duplocincta*, syntype (labelled as lectotype); “Sung-pan”; SMF 9103, D 20.0 mm; **B** – *Ponsadenia semenowi*; Kirgizia, Kochkorka village; det. A. Schileyko; ZMMU Lc-13200, D 10.5 mm; **C** – *Lindholmia coryrensis*; Kishinev [Chisinau], Durlesht Forest; det. A. Schileyko; ZMMU Lc-12883, D 9.3 mm; **D** – *Caucasigena abbasica*, holotype; ZIN No. 1, D 17.7 mm; **E** – *Caucasigena armeniaca*; Armenia, Stepanavan district, Todar (Bzobdal) Mount; det. N. Akramowski; ZMMU Lc-37413, D 7.7 mm.

Fig. 109.

**A** – *Caucasigena eichwaldi*; North Caucasus, Daryal ravine, rocks on left bank of Terek river near Kazbegi village; det. A. Schileyko; ZMMU Lc-37423, D 19.4 mm; **B** – *Caucasigena schaposchnikovi*, paralectotype; Oschten-Fischt Mountains (western Great Caucasus); ZIN No. 1, D 10.4 mm; **C** – *Caucasigena schaposchnikovi*; North Caucasus, Chegem gorge, Araboran area; det. A. Schileyko; ZMMU Lc-19134, D 15.0 mm; **D** – *Caucasigena rengarteni*, syntype (labelled as lectotype); type locality; ZIN No. 1, D 13.8 mm; **E** – *Caucasigena schileykoi*, paratype; Caucasus, North Ossetia, Alagir district, vicinities of Tamisk village; ZMMU Lc-28509, D 15.7 mm.

Fig. 110.

**A** – *Caucasigena thalensis*; Novyi Afon; det. W. Lindholm; ZMMU Lc-28443, D 19.2 mm; **B** – *Caucasigena tschetschenica*; North Caucasus, middle reaches of Fiagdon river near Fiagdon settlement; det. A. Schileyko; ZMMU Lc-37419, D 9.5 mm; **C** – *Diodontella nubigena*, lectotype; ZIN No. 1, D 6.7 mm; **D** – *Diodontella stschukini*, lectotype; ZIN No. 1, D 9.4 mm.

Fig. 111.

**A** – *E dentiella bakowskii*; Transcarpathia, Rakhov district, Minchul near Kvasy village; det. A. Schileyko; ZMMU Lc-28441, D 6.5 mm; **B** – *Helicella candicans*; Kalinin [= Tver] City; det. A.

Schileyko; ZMMU Lc-13078, D 14.4 mm; **C** – *Helicopsis dejecta*, West Caucasus, Gelendzhik city; det. A. Kuznetsov; ZMMU Lc-31155, D 15.1 mm; **D** – *Helicopsis filimargo*, syntype; “Tauride”; MNHN, D 14.5 mm; **E** – *Helicopsis filimargo*, syntype; Sevastopol, Khersones, Shula; ZIN No. 8, D 13.7 mm.

Fig. 112.

**A** – *Helicopsis instabilis*, syntype; “bei Lemberg in Galicien”; SMF 10354, D 15.1 mm; **B** – *Helicopsis paulbessei*, lectotype; ZIN No. 1, D 14.1 mm; **C** – *Helicopsis paulbessei*; Crimea, Yalta district, Gaspra settlement; det. A. Kuznetsov; ZMMU Lc-31206, D 12.6 mm; **D** – *Helicopsis likharevi*, holotype; ZIN No. 1, D 8.4 mm; **E** – *Helicopsis likharevi*, paratype; Kopet-Dagh, Sheken-Dere ravine; ZMMU Lc-22771, D 8.1 mm; **F** – *Helicopsis retovskii*, syntype (labelled as lectotype) of *Helicella gireiorum* Lindholm; Crimea, vicinities of Bakhchisarai, Kachi-Kalen; ZIN No. 4, D 9.3 mm.

Fig. 113.

**A** – *Helicopsis striata*, syntype of *Helicogena lunulata* Krynicki; Odessa; MNHN, D 9.7 mm; **B** – *Hygrohelicopsis darevskii*, holotype; ZIN No. 1, D (broken) 10.1 mm; **C** – *Kokotschashvilia caucasicola*, syntype (labelled as lectotype); type locality; ZIN No. 1, D 10.7 mm; **D** – *Kokotschashvilia caucasicola*, holotype of *Caucasigena ossetica* Tavasieva; ZIN No. 1, D 12.5 mm; **E** – *Kokotschashvilia eberhardi*, paratype; vicinities of Sioni village near Kazbek Mount; ZMMU Lc-28510, D 14.7 mm.

Fig. 114.

**A** – *Kokotschashvilia holotricha*, syntype (labelled as paratype); “Kaukasus: Neu-Athos”; SMF 100927 (also labelled 4648a), D 15.7 mm; **B** – *Kokotschashvilia makvalae*, holotype; SMF 194320, D 19.25 mm; photo courtesy E. Neubert; **C** – *Kokotschashvilia makvalae*; North Ossetia, vicinities of Nar village, Military Ossetic Road; det. A. Schileyko; ZMMU Lc-8197, D 19.6 mm; **D** – *Kokotschashvilia phaeolaema*; North Caucasus, Chegem Gorge, left bank of Kulumin-su river near waterfalls; ZMMU Lc-19117, D 13.0 mm.

Fig. 115.

**A** – *Kokotschashvilia tanta*, holotype; ZIN No. 1, D 25.6 mm; **B** – *Kokotschashvilia tanta*, paratype; Georgia, Gegechkori district, Lebarde, Alpin meadow; ZMMU Lc-28511, D 26.0 mm; **C** – *Leucarcbaica rudimentifera*, holotype; ZMMU Lc-15536, D 12.0 mm; **D** – *Leucozonella angulata*, lectotype; ZIN No. 4, D 13.8 mm; **E** – *Leucozonella angulata*, paralectotype; Samarkand, Pendzhikend district, near charcoal mines; ZMMU Lc-14484, D 13.5 mm; **F** – *Leucozonella angulata*; Kazakhstan, Karatau Ridge, 1 km N of Bayaldyr village; det. A. Kuznetsov; ZMMU Lc-31565, D 15.2 mm.

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## **COLOR PLATES**







Fig. 1. A – *Hemipoma hakodadiense*, D 5.5 mm; B – *Toffolettia lederi*, H 7.7 mm; C – *Caspicyclotus sieversi*, D 6.7 mm; D – *Palaina amurensis*, H 2.0 mm; E – “*Palaina amurensis*”, “syntype”, H 4.5 mm.



Fig. 2. **A** – *Acicula moussoni*, H 3.0 mm; **B** – *Acicula parcellineata*, H 2.2 mm; **C** – *Platyla perpusilla*, H 1.6 mm; **D** – *Platyla oedogyra*, H 2.8 mm; **E** – *Platyla polita*, H 2.9 mm; **F** – *Terrestribythinella carpathica*, holotype, H 2.5 mm; **G** – *Terrestribythinella baidashnikovi*, holotype, H 2.7 mm; **H** – *Pomatias hyrcanum*, H 13.1 mm; **I** – *Pomatias rivulare*, H 12.9 mm.

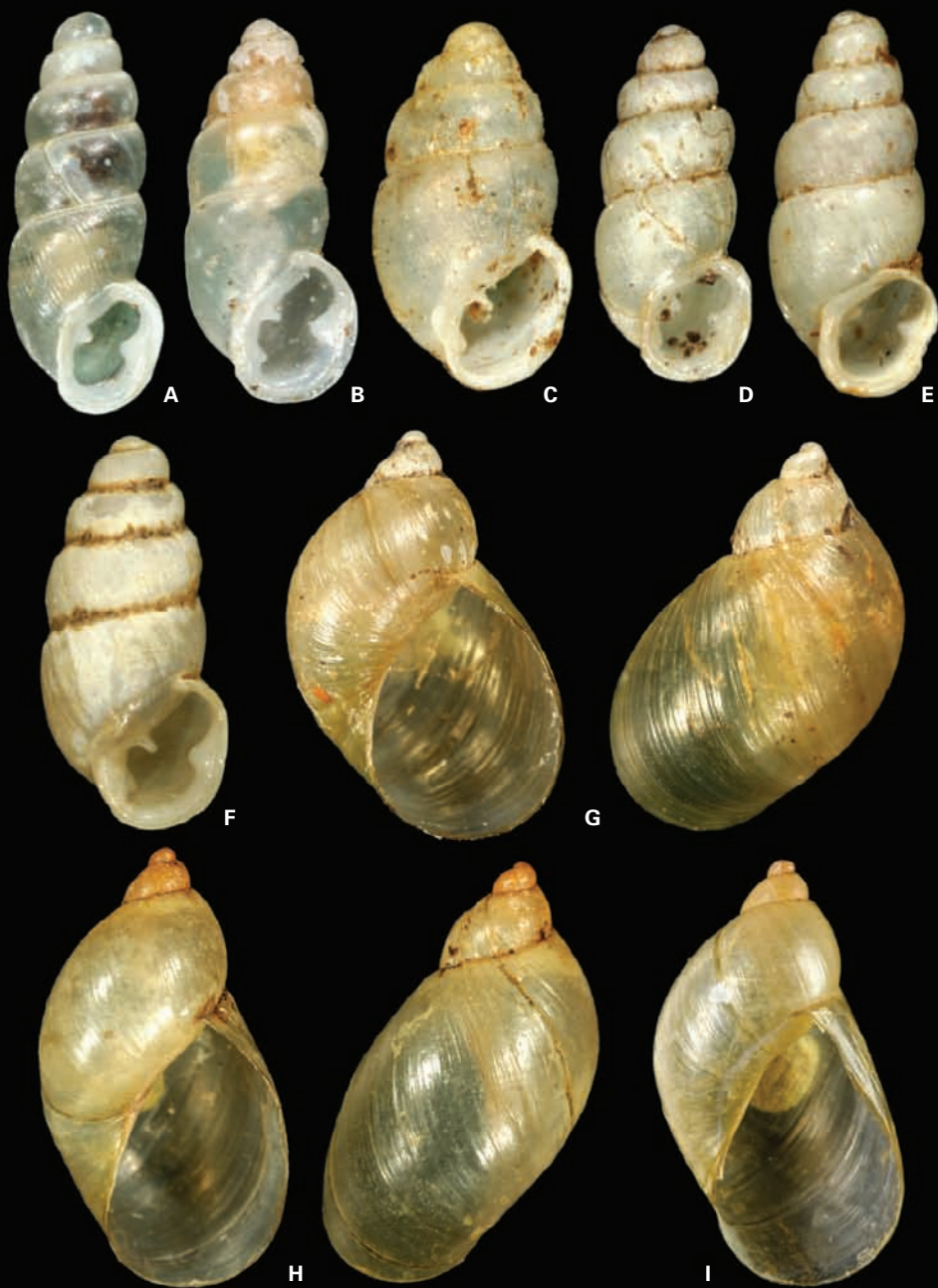


Fig. 3. A – *Carychium cymatoplax*, H 2.0 mm; B – *Carychium lederi*, H 1.8 mm; C – *Carychium minimum*, H 1.7 mm; D – *Carychium pessimum*, H 1.6 mm; E – *Carychium sibiricum*, H 1.8 mm; F – *Carychium tridentatum*, H 1.9 mm; G – *Novisuccinea altaica*, H 10.0 mm; H – *Novisuccinea diserta*, holotype, H 15.4 mm; I – *Novisuccinea diserta*, paratype, H 15.3 mm.





Fig. 4. A – *Novisuccinea evoluta*, H 11.6 mm; B – *Novisuccinea lyrata*, H 13.8 mm; C – *Novisuccinea martensiana*, H 22.8 mm; D – *Novisuccinea strigata*, H 13.0 mm; E – *Pamirsuccinea eximia*, paratype, H 8.9 mm.



Fig. 5. **A** – *Pamirsuccinea eximia*, holotype, H 9.4 mm; **B** – *Succinea gladiator*, holotype, H 17.8 mm; **C** – *Succinea lauta*, H 22.2 mm; **D** – *Succinea putris*, H 14.5 mm; **E** – *Succinella oblonga*, probable syntype [?!], H 16.4 mm; **F** – *Succinella oblonga*, H 6.7 mm.



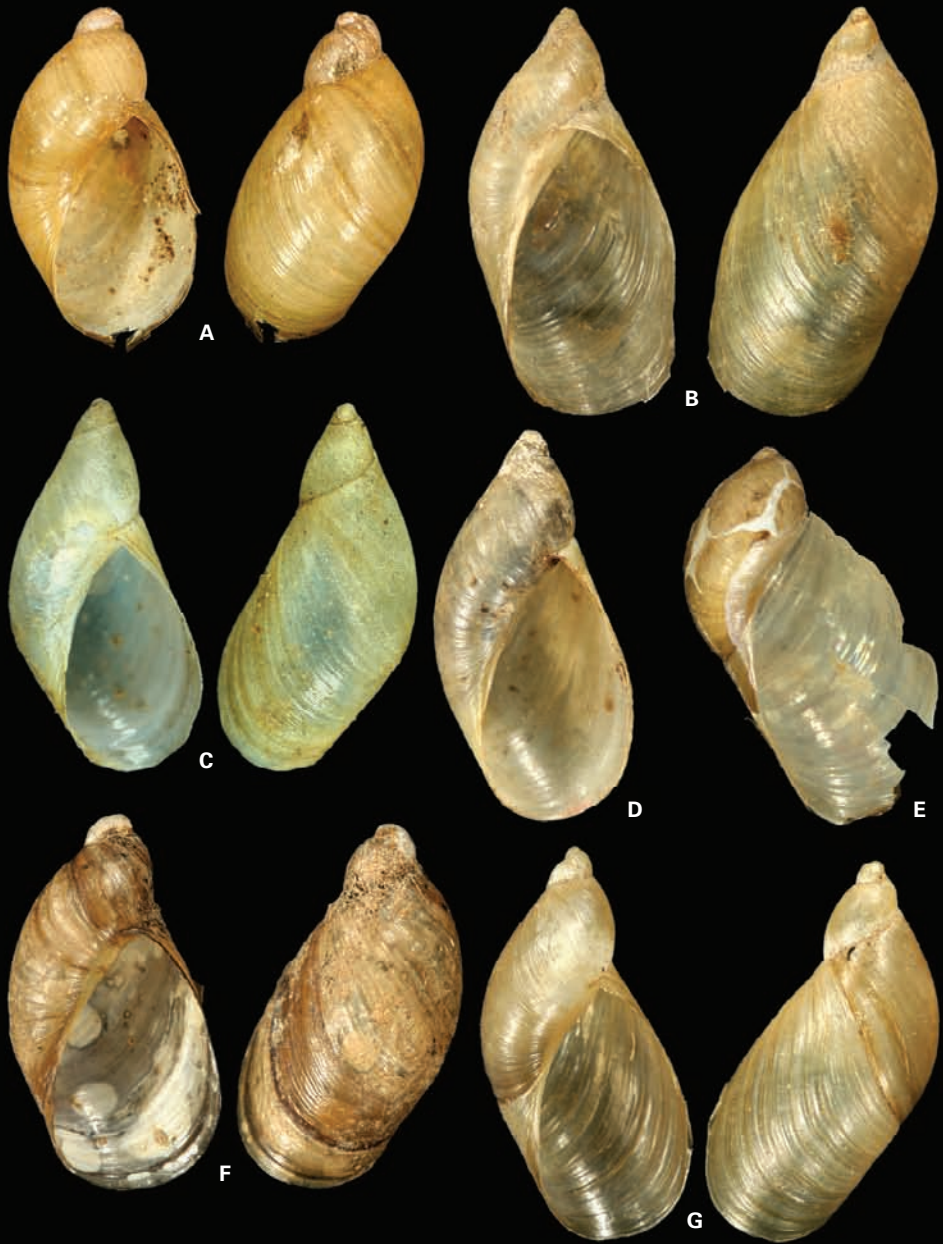


Fig. 6. A – *Oxyloma ajanica*, holotype, H 8.2 mm; B – *Oxyloma dunkeri*, H 16.8 mm; C – *Oxyloma elegans*, syntype, H 12.5 mm; D – *Oxyloma elegans*, H 13.5 mm; E – *Oxyloma hirasei*, H 11.4 mm; F – *Oxyloma retusa*, H 11.1 mm; G – *Oxyloma sarsi*, H 12.4 mm.



Fig. 7. **A** – *Oxyloma starobogatovi*, holotype, H 9.5 mm; **B** – *Oxyloma starobogatovi*, paratype, H 10.0 mm; **C** – *Oxyloma stellifera*, holotype, H 5.6 mm; **D** – *Oxyloma stellifera*, H 7.7 mm; **E** – *Succinea insularis*, syntype, H 10.0 mm; **F** – *Cochlicopa collina*, H 5.1 mm; **G** – *Cochlicopa curta*, H 4.8 mm; **H** – *Cochlicopa dushanbensis*, holotype, H 6.6 mm; **I** – *Cochlicopa heptapotamica*, holotype, H 7.8 mm; **J** – *Cochlicopa izzatullaevi*, holotype, H 7.2 mm.



Fig. 8. A – *Cochlicopa kamchatica*, holotype, H 6.3 mm; B – *Cochlicopa kurenkovi*, holotype, H 6.2 mm; C – *Cochlicopa kurilensis*, holotype, H 5.7 mm; D – *Cochlicopa likharevi*, holotype, H 6.0 mm; E – *Cochlicopa lubrica* H 6.2 mm; F – *Cochlicopa lubricella*, H 5.1 mm; G – *Cochlicopa lubricoides*, H 5.0 mm; H – *Cochlicopa maacki*, holotype, H 6.3 mm; I – *Cochlicopa major*, H 5.6 mm; J – *Cochlicopa mukhitdinovi*, holotype, H 7.4 mm; K – *Cochlicopa nitens*, syntype, H 7.0 mm; L – *Cochlicopa nitens*, H 7.0 mm; M – *Cochlicopa pfeifferi*, H 6.2 mm; N – *Cochlicopa pseudonitens*, holotype, H 7.8 mm; O – *Cochlicopa shikotanica*, holotype, H 5.7 mm.





Fig. 9. A – *Orcula dolium*, H 7.1 mm; B – *Orculella pfeifferi*, holotype, H 9.1 mm; C – *Orculella ruderalis*, holotype, H 6.0 mm; D – *Pilorceula aspinosa*, holotype, H 4.3 mm; E – *Pilorceula pusilla*, holotype, H 2.9 mm; F – *Pilorceula trifilaris quadrifilaris*, H 4.5 mm; G – *Pilorceula trifilaris trifilaris*, lectotype, H 4.0 mm; H – *Pilorceula trifilaris longior*, holotype, H 6.9 mm; I – *Pilorceula trifilaris quadrifilaris*, holotype, H 4.2 mm.



Fig. 10. A – *Schileykula batumensis*, lectotype, H 8.85 mm; B – *Schileykula batumensis*, paralectotype, H 7.2 mm; C – *Sphyradium doliolum*, H 5.4 mm; D – *Pagodulina lederi lederi*, lectotype, H 3.5 mm; E – *Pagodulina pagodula*, H 3.4 mm; F – *Euxinolauria glomerosa*, paratype, H 3.1 mm; G – *Euxinolauria caucasica*, H 5.8 mm.



Fig. 11. A – *Euxinolauria mica*, holotype, H 3.2 mm; B – *Euxinolauria nemethi*, holotype, H 4.3 mm; C – *Euxinolauria paulinae*, lectotype, H 3.5 mm; D – *Euxinolauria pulchra*, H 4.4 mm; E – *Euxinolauria tenuimarginata*, H 3.5 mm; F – *Euxinolauria zonifera*, H 3.8 mm.





Fig. 12. **A** – *Euxinolauria rectidentata*, holotype, H 2.9 mm; **B** – *Euxinolauria rectidentata*, H 3.1 mm; **C** – *Euxinolauria sinangula*, H 5.8 mm; **D** – *Euxinolauria superstructa*, syntype, H 5.2 mm; **E** – *Euxinolauria superstructa*, H 3.3 mm; **F** – *Euxinolauria vitrea*, holotype, H 4.2 mm; **G** – *Lauria cylindracea*, H 3.2 mm; **H** – *Lauria cylindracea*, H 3.9 mm; **I** – *Argna bielzi*, H 5.1 mm; **J** – *Argna bielzi*, lectotype, 5.5 mm.



Fig. 13. A – *Eostrobilops coreana*, D 3.1 mm; B – *Acanthinula aculeata*, D 2.0 mm; C – *Spermodea lamellata*, D 2.2 mm; D – *Zoogenetes harpa*, syntype of *Helix amurensis* Gerstfeldt, H 3. 1 mm; E – *Planogyra asteriscus*, D 1.7 mm.





Fig. 14. A – *Vallonia asiatica*, D 2.8 mm; B – *Vallonia chinensis*, D 2.7 mm; C – *Vallonia costata*, D 2.2 mm; D – *Vallonia enniensis*, lectotype, D 2.2 mm; E – *Vallonia excentrica*, probable paralectotype, D 2.2 mm; F – *Vallonia excentrica*, D 2.5 mm.



Fig. 15. A – *Vallonia kamtschatica*, holotype, D 2.5 mm; B – *Vallonia kamtschatica*, D 2.4 mm; C – *Vallonia ladacensis*, D 3.2 mm; D – *Vallonia mionecton mionecton*, lectotype, D 2.5 mm; E – *Vallonia mionecton mionecton*, D 2.7 mm; F – *Vallonia mionecton schamhalensis*, lectotype, D 2.5 mm.



Fig. 16. A – *Vallonia patens patens*, lectotype, D 2.3 mm; B – *Vallonia peteri*, paratype, D 2.1 mm; C – *Vallonia pulchella*, D 2.3 mm; D – *Vallonia zaru*, H 3.6 mm; E – *Vallonia tenuilabris*, D 3.3 mm; F – *Vallonia pulchellula tenerrima*, paratype, D 2.1 mm.





Fig. 17. **A** – *Gibbulinopsis cryptodon*, syntype, H 3.3 mm; **B** – *Gibbulinopsis cryptodon*, H 3.1 mm; **C** – *Gibbulinopsis gracilis*, holotype, H 5.4 mm; **D** – *Gibbulinopsis interrupta*, H 2.8 mm; **E** – *Gibbulinopsis nanosignata*, holotype, H 3.3 mm; **F** – *Gibbulinopsis signata* (subadult), H 3.5 mm; **G** – *Pupilla alabiella*, holotype, H 3.0 mm; **H** – *Pupilla anzobica*, holotype, H 4.2 mm; **I** – *Gibbulinopsis signata*, H 3.6 mm.



Fig. 18. A – *Pupilla bigranata*, H 3.0 mm; B – *Pupilla bipapulata*, holotype, H 2.7 mm; C – *Pupilla bipapulata*, H 2.6 mm; D – *Pupilla gallae*, holotype, H 2.8 mm; E – *Pupilla gallae*, H 3.2 mm; F – *Pupilla inequidentata*, holotype, H 3.3 mm; G – *Pupilla inops*, H 2.6 mm; H – *Pupilla limata*, holotype, H 3.0 mm; I – *Pupilla muscorum*, H 4.2 mm.

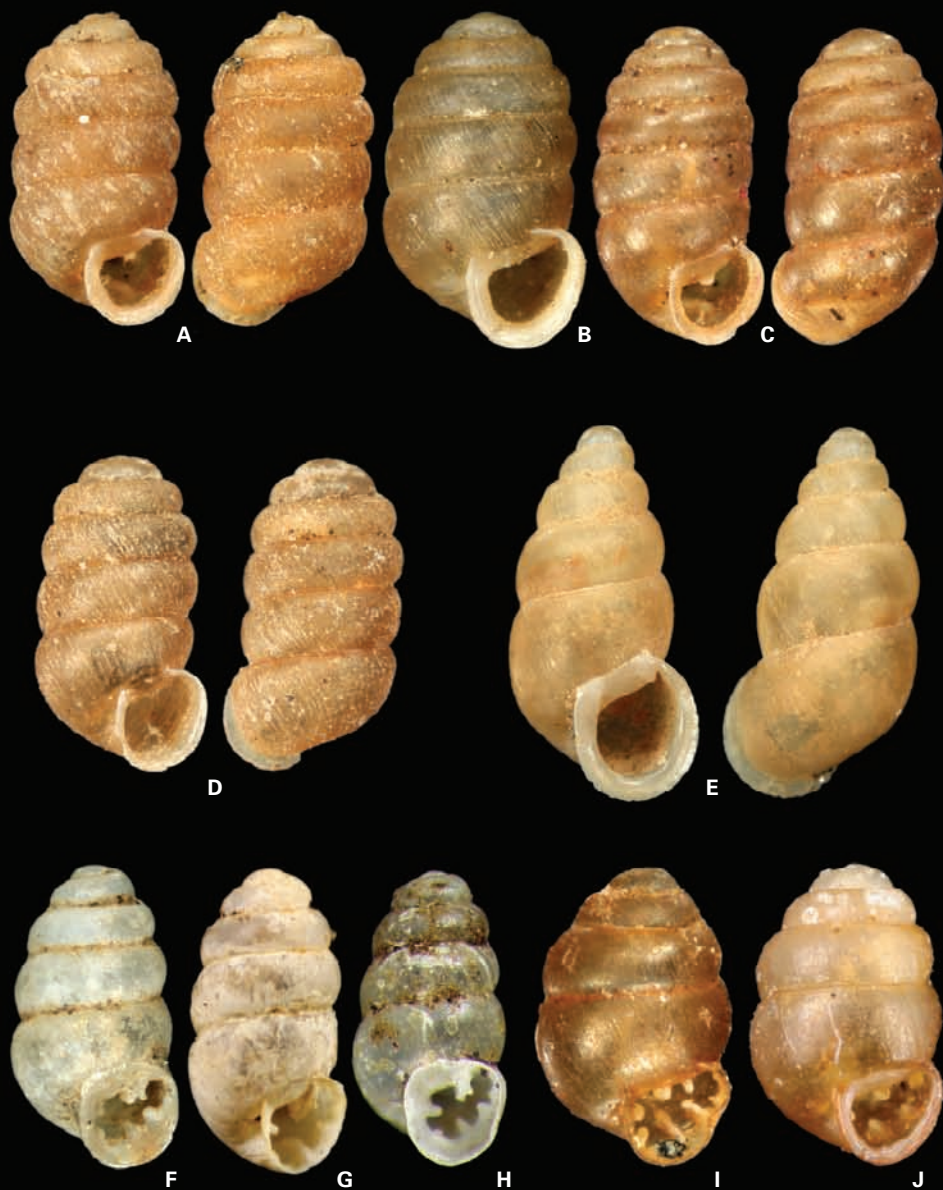


Fig. 19. A – *Pupilla sterri*, H 2.7 mm; B – *Pupilla striopolita*, holotype, H 3.4 mm; C – *Pupilla triplicata*, H 3.0 mm; D – *Pupilla turcmenica*, H 2.8 mm; E – *Pupoides coenopictus*, H 5.1 mm; F – *Gastrocopta huttoniana*, H 2.2 mm; G – *Gastrocopta theeli*, paralectotype, H 2.2 mm; H – *Gastrocopta theeli*, syntype of *Pupa denudata* Mousson, H 1.85 mm; I – *Vertigo antivertigo*, H 2.1 mm; J – *Vertigo circumlabiata*, paratype, H 2.3 mm.





Fig. 20. A – *Vertigo eogea*, after Pilsbry, 1919; B – *Vertigo hirasei*, H 2.0 mm; C – *Vertigo hygrophila*, H 2.3 mm; D – *Vertigo japonica*, H 2.4 mm; E – *Vertigo kushiroensis*, H 1.9 mm; F – *Vertigo microsphaera*, H 1.8 mm; G – *Vertigo modesta modesta*, H 2.7 mm; H – *Vertigo modesta alpestris*, H 1.9 mm; I – *Vertigo moulinsiana*, H 2.7 mm; J – *Vertigo pseudosubstriata*, holotype of *V. laevis* Uvalieva, H 2.4 mm; K – *Vertigo pusilla*, H 1.9 mm; L – *Vertigo pygmaea*, H 1.8 mm; M – *Vertigo sieversi*, H 2.3 mm; N – *Vertigo substriata*, H 1.8 mm; O – *Vertilla angustior*, H 1.8 mm.





Fig. 21. A – *Columella acicularis*, paratype, H 3.0 mm; B – *Columella aspera*, holotype; C – *Columella aspera*, paratype, H 2.1 mm; D – *Columella edentula*, H 2.3 mm; E – *Columella intermedia*, holotype, H 2.9 mm; F – *Truncatellina callicratis*, H 2.1 mm; G – *Truncatellina claustralis*, H 1.8 mm; H – *Truncatellina costulata*, H 1.9 mm; I – *Truncatellina cylindrica*, H 1.7 mm; J – *Truncatellina cylindrica*, lectotype of *T. tauricola* Lindholm, H 2.2 mm; K – *Chondrina amphorula*, holotype, H 6.4 mm; L – *Chondrina clienta clienta*, lectotype; M – *Chondrina clienta clienta*, H 6.5 mm..



Fig. 22. A – *Chondrina clienta caucasica*, lectotype, H 7.2 mm; B – *Chondrina clienta caucasica*, H 7.5 mm; C – *Chondrina granum*, probable syntype, H 3.9 mm; D – *Chondrina granum*, H 5.0 mm; E – *Chondrina rhodia taurica*, H 4.7 mm; F – *Granaria frumentum*, probable syntype, H 7.0 mm; G – *Granaria frumentum*, H 10.0 mm; H – *Pyramidula rupestris*, D 2.6 mm; I – *Pyramidula rupestris*, paralectotype of *P. rupestris przewalskii* Lindholm, D 3.2 mm.



Fig. 23. **A** – *Akramowskiella andronakii*, lectotype, H 12.0 mm; **B** – *Akramowskiella schuschaensis*, syntype, H 8.3 mm; **C** – *Akramowskiella schuschaensis*, H 5.8 mm; **D** – *Akramowskiella umbrosa*, H 10.0 mm; **E** – *Differena leucostoma*, paratype, H 7.2 mm; **F** – *Clausilioides filifer*, holotype, H 9.3 mm; **G** – *Geminula continens*, syntype, H 6.9 mm; **H** – *Geminula continens*, syntype, H 7.35 mm; **I** – *Geminula isseliana*, H 7.1 mm; **J** – *Geminula isseliana*, holotype of *Buliminus tardigyus* Westerlund, H 7.5 mm.





Fig. 24. **A** – *Imparietula brevior*, H 10.5 mm; **B** – *Laevozebrinus eremita*, H 15.7 mm; **C** – *Laevozebrinus guttula*, holotype, H 7.2 mm; **D** – *Laevozebrinus lenis*, H 12.1 mm; **E** – *Laevozebrinus urgutensis*, lectotype, H 19.6 mm; **F** – *Laevozebrinus ufjalvyanus*, syntype, H 21.1 mm; **G** – *Laevozebrinus ufjalvyanus*, H 22.0 mm; **H** – *Laevozebrinus ufjalvyanus*, holotype of *Subzebrinus prochorovi* Lindholm, H 20.2 mm.



Fig. 25. **A** – *Ljudmilena sieversi*, syntype, H 7.2 mm; **B** – *Ljudmilena sieversi*, H 7.9 mm; **C** – *Ljudmilena tricollis*, syntype, H 9.2 mm; **D** – *Mastoides albocostatus*, holotype, H 12.2 mm; **E** – *Mastoides obeliscus*, holotype, H 12.5 mm; **F** – *Mastoides orloffensis*, possible syntype, H 8.5 mm; **G** – *Ottorosenia varenavi*, lectotype, H 6.8 mm; **H** – *Ottorosenia varenavi*, H 8.2 mm.



Fig. 26. A – *Pseudochondrula lederi*, H 13.0 mm; B – *Pseudochondrula seductilis*, syntype, H 9.5 mm; C – *Pseudochondrula seductilis*, H 11.7 mm; D – *Pseudochondrula sinistrorsa*, holotype, H 12.9 mm; E – *Pseudochondrula tetrodon*, syntype, H 13.8 mm; F – *Pseudochondrula tuberifera*, H 8.1 mm; G – *Pseudonapaeus albiplicatus*, paralectotype, H 11.8 mm; H – *Pseudonapaeus albiplicatus*, H 11.8 mm; I – *Pseudonapaeus aptychus*, H 10.2 mm.





Fig. 27. A – *Pseudonapaeus bacillus*, holotype, H 11.6 mm; B – *Pseudonapaeus asiaticus*, H 12.2 mm; C – *Pseudonapaeus chodschendicus*, holotype, H 13.3 mm; D – *Pseudonapaeus diplus*, lectotype; E – *Pseudonapaeus diplus*, H 12.3 mm; F – *Pseudonapaeus eleonorae*, lectotype, H 10.9 mm; G – *Pseudonapaeus drymaeus*, holotype, H 9.2 mm; H – *Pseudonapaeus drymaeus*, H 9.1 mm; I – *Pseudonapaeus entodon*, H 9.7 mm.





Fig. 28. A – *Pseudonapaeus dissimilis*, paralectotype, H 7.3 mm; B – *Pseudonapaeus dissimilis*, paralectotype, H 6.0 mm; C – *Pseudonapaeus entoptyx*, H 9.7 mm; D – *Pseudonapaeus errans*, lectotype, H 12.0 mm; E – *Pseudonapaeus galinae*, lectotype, H 14.1 mm; F – *Pseudonapaeus goldfussi*, holotype, H 10.2 mm; G – *Pseudonapaeus goldfussi*, H 10.2 mm; H – *Pseudonapaeus herzensteini*, syntype, H 10.5 mm; I – *Pseudonapaeus herzensteini*, syntype, H 9.2 mm.



Fig. 29. A – *Pseudonapaeus izzatullaevi*, holotype, H 13.9 mm; B – *Pseudonapaeus kasnakowi*, lectotype, H 9.5 mm; C – *Pseudonapaeus kasnakowi*, paralectotype; D – *Pseudonapaeus kasnakowi*, paralectotype, H 9.7 mm; E – *Pseudonapaeus latilabris*, syntype, H 12.2 mm; F – *Pseudonapaeus leucopleurus*, paralectotype, H 11.8 mm; G – *Pseudonapaeus lindholmi*, holotype, H 10.3 mm; H – *Pseudonapaeus leucoptychus*, H 8.3 mm; I – *Pseudonapaeus miser*, H 8.5 mm.



Fig. 30. A – *Pseudonapaeus regelianus*, H 14.0 mm; B – *Pseudonapaeus retrodens*, paralectotype, H 9.8 mm; C – *Pseudonapaeus retrodens*, H 10.4 mm; D – *Pseudonapaeus schileykoi*, holotype, H 10.1 mm; E – *Pseudonapaeus schileykoi*, paratype, H 9.6 mm; F – *Pseudonapaeus schnitnikovi*, holotype, H 10.4 mm; G – *Pseudonapaeus schnitnikovi*, H 9.8 mm; H – *Pseudonapaeus secalinus*, H 7.7 mm; I – *Pseudonapaeus subobscurus*, syntype, H 10.3 mm; J – *Pseudonapaeus subobscurus*, H 10.4 mm.





Fig. 31. A – *Pseudonapaeus otostomus*, paralectotype; B – *Pseudonapaeus otostomus*, lectotype, H 12.5 mm; C – *Pseudonapaeus otostomus*, H 11.5 mm; D – *Pseudonapaeus otostomus*, syntype of *Buliminus otostomus* var. *servatus* Rosen, H 9.3 mm; E – *Pseudonapaeus sogdianus*, H 15.1 mm; F – *Pseudonapaeus stabilis stabilis*, H 14.8 mm; G – *Pseudonapaeus stabilis chatkalicus*, holotype, H 15.5 mm; H – *Pseudonapaeus submucronatus*, lectotype, H 13.5 mm; I – *Pseudonapaeus trigonochilus*, syntype, H 11.9 mm; J – *Pseudonapaeus trigonochilus*, syntype, H 11.0 mm; K – *Pseudonapaeus trigonochilus*, H 10.5 mm.



Fig. 32. A – *Subzebrinus labiellus*, H 11.5 mm; B – *Turanena albolimbata*, lectotype, 10.0 mm; C – *Turanena albolimbata*, H 10.7 mm; D – *Turanena boamica*, holotype, H 7.4 mm; E – *Turanena cognata*, lectotype, H 13.2 mm; F – *Turanena conicula*, holotype, H 5.8 mm; G – *Turanena conicula*, H 7.0 mm; H – *Turanena herzi*, lectotype, H 7.6 mm.



Fig. 33. A – *Turanena inversa*, holotype, H 16.3 mm; B – *Turanena leptogyra*, lectotype, H 10.1 mm; C – *Turanena leptogyra*, paralectotype, H 10.0 mm; D – *Turanena margaritae*, holotype, H 7.5 mm; E – *Turanena martensiana*, H 7.7 mm; F – *Turanena meshkovi*, paratype, H 12.9 mm; G – *Turanena meshkovi*, H 11.3 mm; H – *Turanena scalaris*, H 6.8 mm.





Fig. 34. A – *Turanena stschukini*, lectotype, H 18.2 mm; B – *Turanena tenuispira*, holotype, H 13.5 mm; C – *Turanena tenuispira*, paratype, H 12.2 mm; D – *Chondrulopsina fedtschenkoi*, syntype, H 7.9 mm; E – *Chondrulopsina fedtschenkoi*, syntype of *Buliminus rennenkampfi* Rosen, H 8.1 mm; F – *Chondrulopsina fedtschenkoi*, H 6.5 mm; G – *Chondrulopsina intumescens*, paratype, H 8.7 mm; H – *Siraphoroides moltschanovi*, holotype, H 7.7 mm; I – *Siraphoroides moltschanovi*, H 6.3 mm; J – *Chondrulopsina intumescens*, H 8.8 mm.



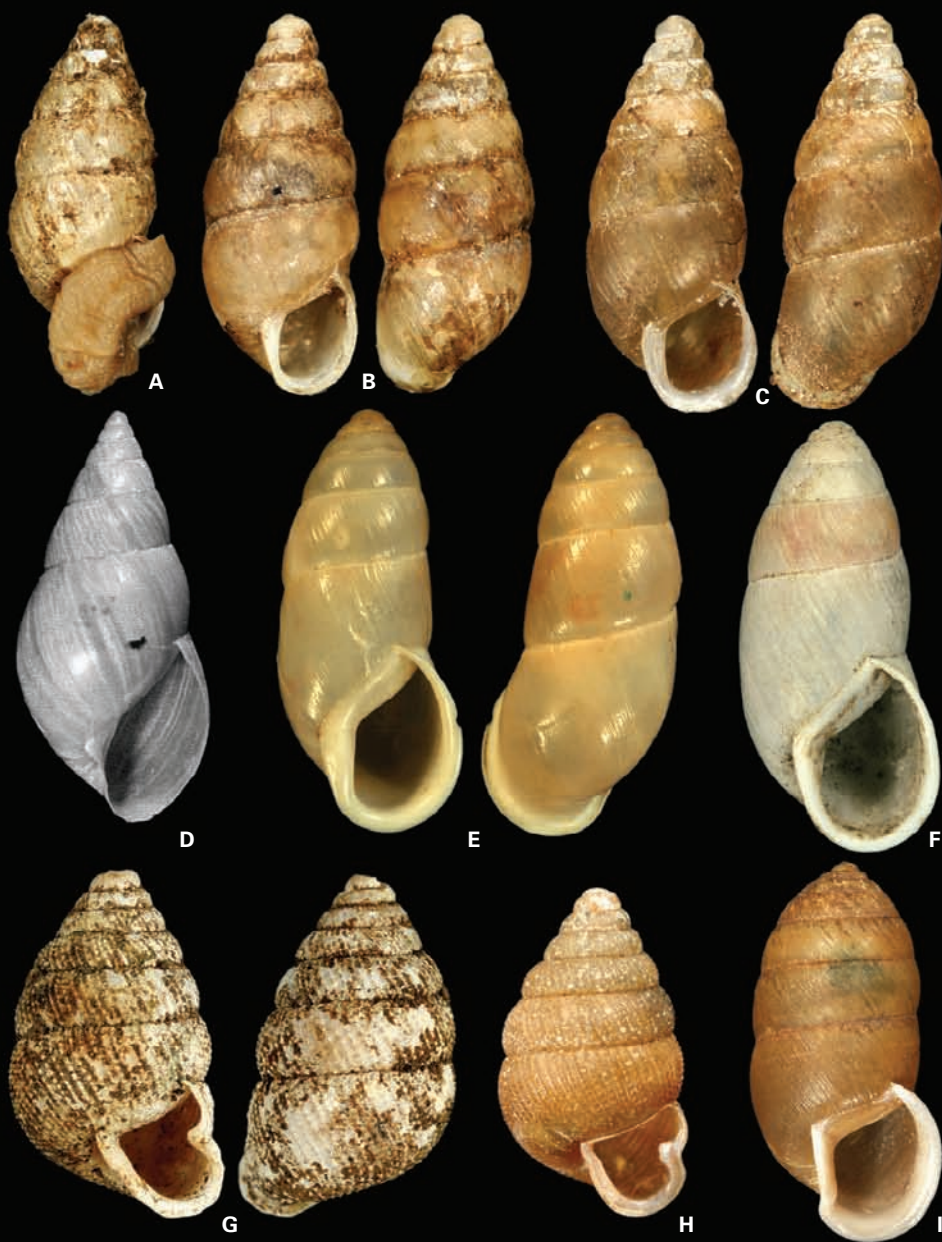


Fig. 35. **A** – *Merdigera invis*a, holotype, H 7.5 mm; **B** – *Merdigera invis*a, paratype, H 7.8 mm; **C** – *Merdigera obscura*, H 8.6 mm; **D** – *Adzharia renschi*, lectotype, H 20.5 mm; **E** – *Buliminus urmianus*, syntype, H 20.1 mm; **F** – *Buliminus urmianus*, H 21.7 mm; **G** – *Andronakia catenulata*, lectotype, H 7.5 mm; **H** – *Andronakia catenulata*, H 6.4 mm; **I** – *Retowskia schlaeflii*, H 16.3 mm.



Fig. 36. A – *Brephulopsis bidens*, lectotype, H 15.0 mm; B – *Brephulopsis bidens*, H 14.7 mm; C – *Brephulopsis cylindrica*, H 23.5 mm; D – *Caucasicola raddei*, lectotype, H 25.9 mm; E – *Chondrula bielzi*, H 17.2 mm; F – *Chondrula caucasica*, H 19.8 mm; G – *Chondrula microtraga*, holotype, H 12.2 mm; H – *Chondrula sunzhica*, H 14.5 mm; I – *Chondrula tridens*, H 10.3 mm.



Fig. 37. A – *Chondrus zebrula*, lectotype, H 16.9 mm; B – *Ena montana*, possible syntype, H 14.1 mm; C – *Georginapaeus hohenackeri*, H 22.1 mm; D – *Peristoma boettgeri*, H 14.5 mm; E – *Peristoma lanceum*, holotype, H 12.4 mm; F – *Peristoma lanceum*, paratype, H 10.9 mm; G – *Peristoma merduenianum*, lectotype, H 13.3 mm; H – *Peristoma merduenianum*, H 14.3 mm; I – *Peristoma rupestre*, H 18.2 mm; J – *Peristoma rupestre*, syntype of *Buliminus kuznetsowi* Lindholm, H 15.5 mm.





Fig. 38. A – *Thoanteus ferrarii*, holotype, H 17.8 mm; B – *Thoanteus ferrarii*, paratype, H 20.5 mm; C – *Thoanteus gibber*, lectotype, H 19.6 mm; D – *Thoanteus gibber*, H 20.5 mm; E – *Euchondrus acutior*, holotype, H 5.8 mm; F – *Euchondrus lamelliferus*, H 6.0 mm; G – *Improvisa pupoides*, lectotype, H 5.8 mm; H – *Senaridenta nachicevanjensis*, holotype, H 6.1 mm; I – *Pentadentula balandinae*, holotype, H 6.0 mm.



Fig. 39. A – *Ramusculus subulatus*, H 8.5 mm; B – *Zebrina detrita*, H 22.0 mm; C – *Caspiophaedusa perlucens*, lectotype, H 13.9 mm; D – *Pontophaedusa funiculum*, H 17.1 mm; E – *Pravispira semilamellata*, syntype, H 10.4 mm; F – *Pravispira semilamellata*, H 13.1 mm; G – *Serrulina serrulata serrulata*, H 12.7 mm.



Fig. 40. A – *Serrulina sieversi sieversi*, H 10.3 mm; B – *Serrulina sieversi occidentalis*, holotype, H 12.8 mm; C – *Serrulinella senghanensis*, lectotype, H 9.7 mm; D – *Serrulinella senghanensis*, H 9.3 mm; E – *Alopia glauca*, H 16.1 mm; F – *Cochlodina cerata*, H 16.0 mm; G – *Cochlodina costata*, H 12.2.





Fig. 41. A – *Cochlodina laminata*, H 14.5 mm; B – *Cochlodina orthostoma*, H 12.1 mm; C – *Acrotoma baryshnikovi*, holotype, 18.1 mm; D – *Acrotoma claussi*, holotype, H 31.6 mm; E – *Acrotoma gegica*, holotype, H 24.7 mm; F – *Acrotoma komarowi*, holotype, H 34.3 mm.





Fig. 42. A – *Acrotoma laccata*, holotype, H 19.6 mm; B – *Acrotoma narzanensis*, lectotype, H 17.0 mm; C – *Acrotoma tunievi*, holotype, H 22.7 mm; D – *Acrotoma semicincta*, lectotype, H 16.2 mm; E – *Acrotoma semicincta*, paralectotype, H 16.4 mm; F – *Acrotoma juliae*, holotype, H 25.7; G – *Acrotoma tunievi*, paratype, H 19.9 mm.



Fig. 43. **A** – *Akramowskia akramowskii*, holotype, H 21.6 mm; **B** – *Akramowskia valentini*, holotype, H 22.5 mm; **C** – *Armenica disjuncta armenica*, holotype, H 14.7 mm; **D** – *Armenica gracillima*, lectotype, H 20.6 mm; **E** – *Armenica gracillima*, H 22.0 mm; **F** – *Armenica griseofusca*, probable syntype, H 16.9 mm; **G** – *Armenica likharevi*, holotype, H 17.0 mm; **H** – *Armenica likharevi*, H 20.0 mm.



Fig. 44. **A** – *Armenica unicristata*, H 16.6 mm; **B** – *Armenica zakatalica*, holotype, H 23.8 mm; **C** – *Elia derasa*, syntype, H 19.3 mm; **D** – *Elia ossetica*, H 18.2 mm; **E** – *Elia novorossica*, H 12.2 mm; **F** – *Elia somchetica somchetica*, H 14.3 mm; **G** – *Elia somchetica raddei*, H 13.1 mm.





Fig. 45. A – *Elia tuschetica*, holotype, H 21.8 mm; B – *Elia tuschetica*, paratype, H 20.4 mm; C – *Euxina gastron*, holotype, H 20.4 mm; D – *Euxina talyschana*, holotype, H 14.1 mm; E – *Euxinastra hamata*, lectotype, 17.7 mm; F – *Filosa filosa*, syntype, H 9.0 mm; G – *Kazancia lindholmi*, lectotype, H 19.5 mm.



Fig. 46. **A** – *Mentissoidea rupicola rupicola*, H 16.7 mm; **B** – *Mentissoidea rupicola litotes*, syntype of *Clausilia litotes* var. *suanetica* Boettger, H 12.9 mm; **C** – *Scrobifera taurica taurica*, H 14.1 mm; **D** – *Scrobifera taurica brjanskii*, syntype, H 17.4 mm; **E** – *Scrobifera taurica brjanskii*, syntype, H 16.6 mm; **F** – *Strigileuxina reuleauxi*, lectotype, H 22.8 mm; **G** – *Clausilia bidentata*, H 10.0 mm.



Fig. 47. A – *Clausilia cruciata*, H 9.3 mm; B – *Clausilia dubia*, H 10.6 mm; C – *Clausilia pumila pumila*, H 15.2 mm; D – *Clausilia pumila sejuncta*, H 13.5 mm; E – *Macrogastrea latestriata latestriata*, H 12.1 mm; F – *Macrogastrea latestriata borealis*, H 13.2 mm; G – *Macrogastrea plicatula*, H 12.0 mm; H – *Macrogastrea tumida*, H 14.3 mm.





Fig. 48. A – *Macrogastrea ventricosa*, probable syntype, H 16.8 mm; B – *Macrogastrea ventricosa*, H 18.0 mm; C – *Ruthenica filograna*, H 8.1 mm; D – *Alinda stabilis*, H 15.5 mm; E – *Alinda biplicata*, H 16.5 mm; F – *Alinda fallax*, H 19.0 mm; G – *Bulgarica cana*, H 16.5 mm; H – *Bulgarica vetusta*, probable syntype, H 14.4 mm.





Fig. 49. **A** – *Laciniaria plicata*, H 15.2 mm; **B** – *Likharevia gustavi*, lectotype, H 17.5 mm; **C** – *Mentissa gracilicosta gracilicosta*, syntype, H 18.9 mm; **D** – *Mentissa gracilicosta albocostata*, paratype, H 19.7 mm; **E** – *Mentissa gracilicosta orientalis*, paratype, H 16.9 mm; **F** – *Mentissa gracilicosta sodalis*, H 15.8 mm; **G** – *Mentissa gracilicosta tschatyrdagika*, paratype, H 17.7 mm; **H** – *Mentissa velutina*, paratype, H 16.4 mm.



Fig. 50. **A** – *Mentissa canalifera*, syntype, H 18.5 mm; **B** – *Mentissa canalifera*, H 18.8 mm; **C** – *Mentissa canalifera*, holotype of *Clausilia detersa* Rossmässler, H 17.1 mm; **D** – *Micropontica annae*, holotype, H 10.1 mm; **E** – *Micropontica circassica*, syntype, H 13.9 mm; **F** – *Micropontica closta*, lectotype, H 9.7 mm; **G** – *Micropontica interjecta*, H 12.0 mm; **H** – *Micropontica retowskii*, H 11.3 mm.



Fig. 51. **A** – *Mucronaria acuminata*, syntype, H 13.6 mm; **B** – *Mucronaria index*, syntype, H 16.6 mm; **C** – *Mucronaria duboisi*, H 12.4 mm; **D** – *Mucronaria pleuroptychia*, syntype, H 14.6 mm; **E** – *Mucronaria strauchi*, H 17.7 mm; **F** – *Quadriplicata aggesta aggesta*, H 12.2 mm; **G** – *Quadriplicata aggesta staupolitana*, paralectotype, H 16.2 mm; **H** – *Quadriplicata aggesta staupolitana*, paralectotype, H 15.4 mm.





Fig. 52. **A** – *Quadriplicata dipolauchen*, paralectotype, H 16.9 mm; **B** – *Quadriplicata dipolauchen*, paralectotype, H 15.8 mm; **C** – *Quadriplicata lederi lederi*, paralectotype, H 17.7 mm; **D** – *Quadriplicata lederi gradata*, paralectotype, H 15.0 mm; **E** – *Quadriplicata lederi martensi*, paratype, H 16.2 mm; **F** – *Quadriplicata pumiliformis*, H 14.8 mm; **G** – *Quadriplicata quadriplicata*, H 18.5 mm; **H** – *Quadriplicata subaggesta*, H 14.1 mm.



Fig. 53. A – *Vestia elata*, H 14.7 mm; B – *Vestia gulo*, H 16.0 mm; C – *Vestia turgida turgida*, H 15.0 mm; D – *Vestia turgida procera*, H 20.7 mm; E – *Balea perversa*, H 8.7 mm; F – *Cecilioides acicula*, syntype of *C. acicula* var. *abchastica* Retowski, H 6.5 mm; G – *Cecilioides raddei*, H 6.6 mm; H – *Poiretia mingrelica*, lectotype, H 33.6 mm.



Fig. 54. A – *Punctum boreale*, D 1.8 mm; B – *Punctum micropleuros*, D 2.2 mm; C – *Punctum conspectum*, D 1.5 mm; D – *Punctum pygmaeum*, D 1.5 mm; E – *Punctum ussuriense*, D 1.2 mm; F – *Helicodiscus singleyanus*, D 2.3 mm.





Fig. 55. A – *Discus depressus*, D 6.5 mm; B – *Discus perspectivus*, D 5.7 mm; C – *Discus rotundatus*, D 6.5 mm; D – *Discus ruderatus*, D 6.0 mm.



Fig. 56. A – *Hawaiiia minuscula*, D 1.5 mm; B – *Striatura aperta*, D 2.2 mm; C – *Pristiloma japonica*, D 2.8 mm; D – *Vitrea angystropha*, D 2.7 mm.



Fig. 57. A – *Vitrea contortula*, syntype, D 3.0 mm; B – *Vitrea contortula*, holotype of *Vitrea viridis* Westerlund, D 3.3 mm; C – *Vitrea crystallina*, D 3.3 mm; D – *Vitrea contracta*, D 2.1 mm; E – *Vitrea diaphana*, D 3.7 mm.





Fig. 58. A – *Vitrea nadejdae*, syntype, D 3.8 mm; B – *Vitrea rhododendronis*, holotype, D 4.1 mm; C – *Vitrea pygmaea*, lectotype, D 1.5 mm; D – *Vitrea subrimata*, lectotype, D 2.7 mm; E – *Vitrea transsylvanica*, lectotype, D 2.7 mm.

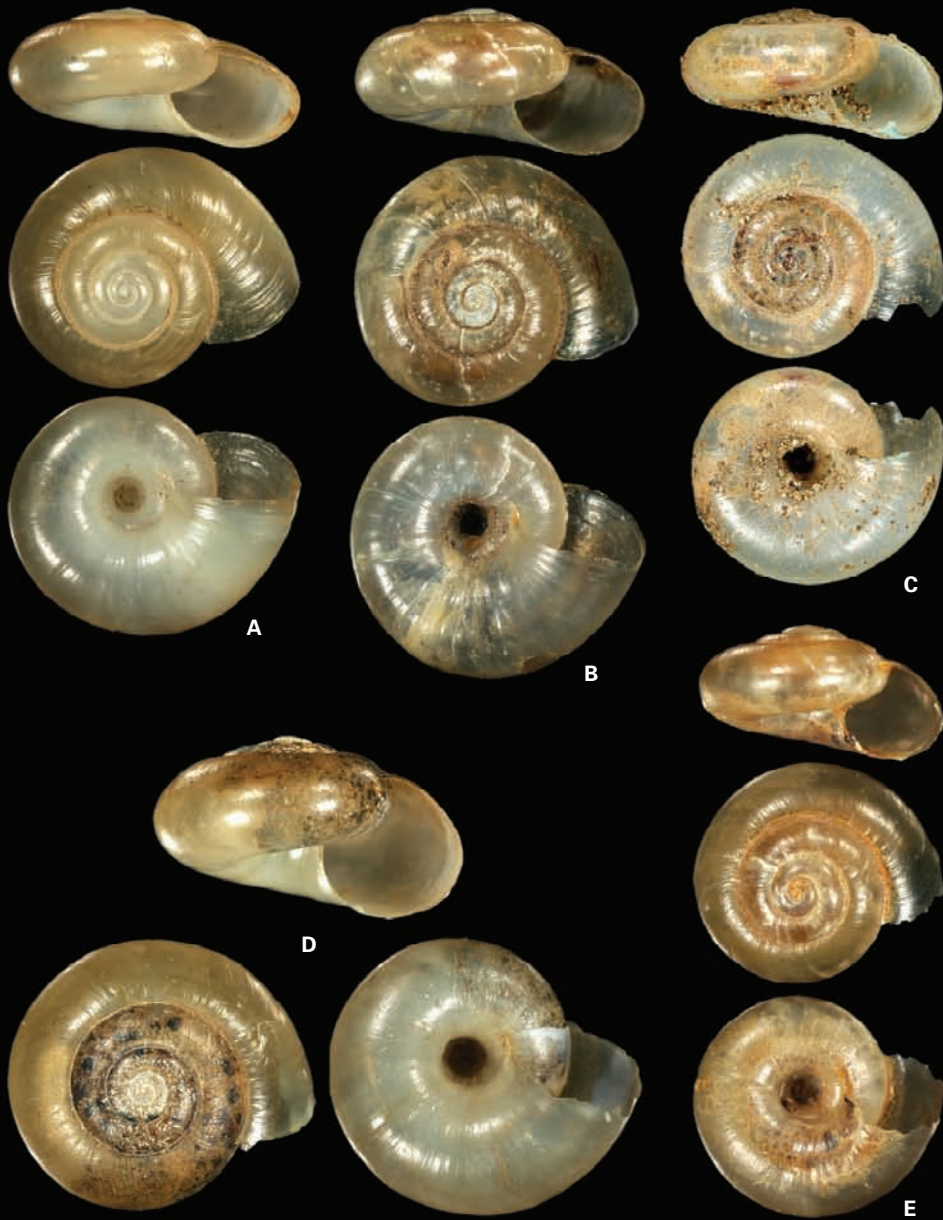


Fig. 59. A – *Aegopinella epipedostoma*, D 7.4 mm; B – *Aegopinella nitens*, D 7.3 mm; C – *Aegopinella minor*, syntype of *Hyalina stauropolitana* Rosen, D 6.3 mm; D – *Aegopinella nitidula*, D 7.7 mm; E – *Aegopinella pura*, D 3.7 mm.



Fig. 60. A – *Perpolita hammonis*, D 4.1 mm; B – *Perpolita petronella*, D 4.5 mm; C – *Cellariopsis orientalis*, D 9.7 mm; D – *Conulopolita sieversi*, lectotype, D 7.2 mm; E – *Conulopolita stopnevichi*, syntype, D 7.4 mm.





Fig. 61. A – *Conulopolita raddei*, syntype, D 15.2 mm; B – *Conulopolita cavatica*, holotype, D 12.5 mm; C – *Discoxychilus lindholmi*, D 8.5 mm; D – *Eopolita derbentina*, holotype of *Hyalinia siraphora* Westerlund, D 7.4 mm; E – *Morlina glabra striaria*, D 11.0 mm.



Fig. 62. A – *Oxychilus alliaris*, D 7.5 mm; B – *Oxychilus caspius*, lectotype, D 7.3 mm; C – *Oxychilus cellarius*, D 9.7 mm; D – *Oxychilus crenimargo*, paralectotype, D 6.3 mm; E – *Oxychilus deilus deilus*, D 15.7 mm.



Fig. 63. A – *Oxychilus decipiens decipiens*, lectotype, D 10.1 mm; B – *Oxychilus decipiens adsharicus*, D 6.8 mm; C – *Oxychilus disciformis*, D 6.9 mm; D – *Oxychilus difficilis*, syntype, D 25.0 mm; E – *Oxychilus discrepans*, D 25.6 mm.





Fig. 64. A – *Oxychilus draparnaudi*, D 13.3 mm; B – *Oxychilus elegans*, syntype, D 12.9 mm; C – *Oxychilus filicum*, syntype, D 18.7 mm; D – *Oxychilus duboisi*, syntype, D 25.7 mm; E – *Oxychilus emmae*, holotype, D 4.7 mm.



Fig. 65. A – *Oxychilus horsti*, D 23.8 mm; B – *Oxychilus imperator*, paratype, D 24.6 mm; C – *Oxychilus kobelti*, lectotype, 22.3 mm; D – *Oxychilus iphigenia*, syntype, D 4.7 mm; E – *Oxychilus oschtenicus*, syntype, D 17.2 mm.



Fig. 66. **A** – *Oxychilus koutaisanus koutaisanus*, syntype of *Zonites lucidus* var. *selectus* Mousson, D 19.7 mm; **B** – *Oxychilus koutaisanus mingrelicus*, syntype, D 20.5 mm; **C** – *Oxychilus koutaisanus mingrelicus*, syntype of *O. emigratus* Lindholm, D 16.3 mm; **D** – *Oxychilus suaneticus suaneticus*, syntype, D 18.7 mm; **E** – *Oxychilus suaneticus likharevi*, holotype, D 25.4 mm.





Fig. 67. A – *Oxychilus sucinaceus sucinaceus*, lectotype, D 19.7 mm; B – *Oxychilus sucinaceus zakatalicus*, holotype, D 18.9 mm; C – “*Oxychilus*” *andronakii*, syntype, D 11.6 mm; D – *Oxychilus translucidus*, D 7.7 mm; E – *Oxychilus subeffusus*, syntype, D 3.5 mm.



Fig. 68. A – *Oxychilus* (?) *diaphanellus*, probable syntype, D 6.6 mm; B – “*Oxychilus*” *birsteini*, syntype, D 5.3 mm; C – “*Oxychilus*” *lederi*, lectotype, D 15.0 mm; D – “*Oxychilus*” *retowskii*, D 4.2 mm; E – *Riedeliconcha depressa*, D 7.3 mm.



Fig. 69. A – *Vitrinoxychilus subsuturalis*, syntype, D 6.5 mm; B – *Vitrinoxychilus subsuturalis*, syntype, D 6.0 mm; C – *Vitrinoxychilus suturalis*, syntype, D 5.6 mm; D – *Bilania boettgeri*, L 34 mm; E – *Bilania boettgeri*, D 5.2 mm; F – *Carpathica calophana*, syntype; G – *Carpathica calophana*, D 4.8 mm.



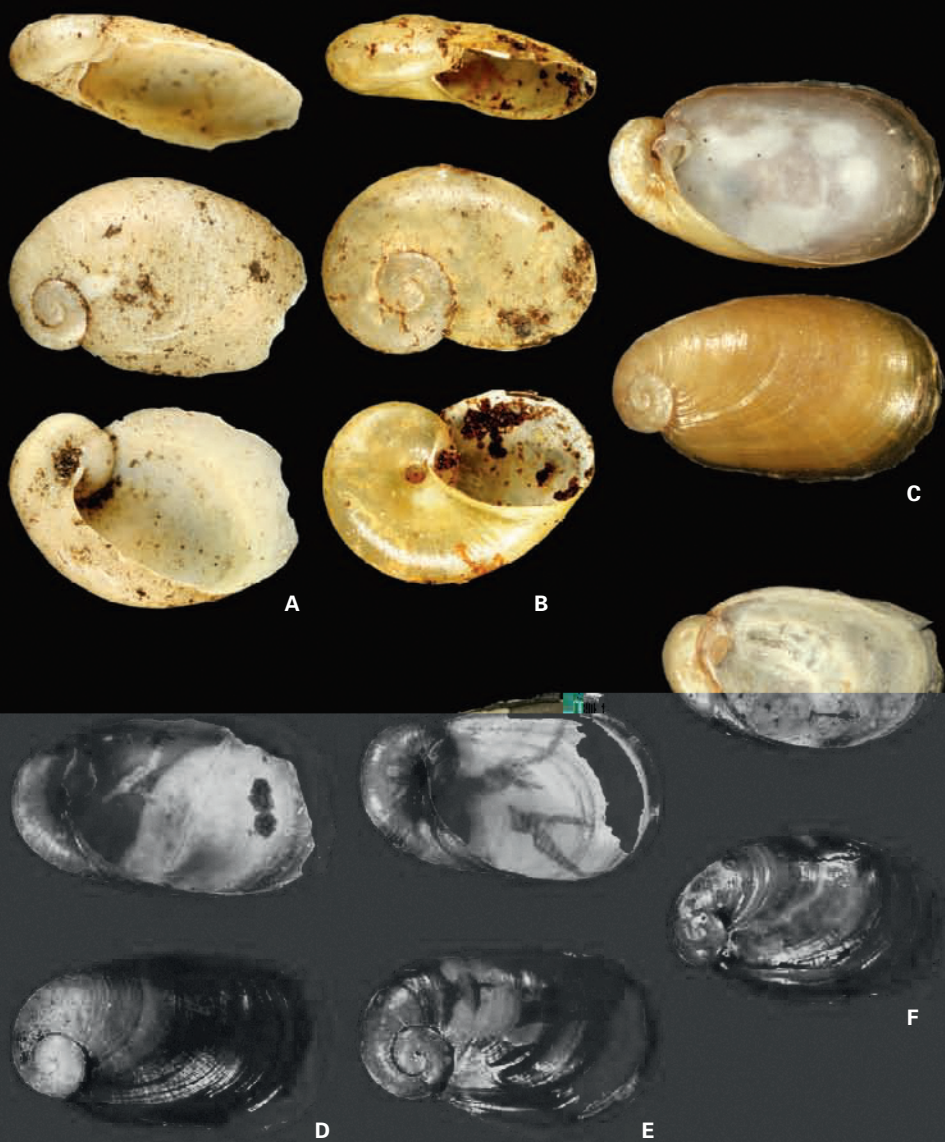


Fig. 70. A – *Daudebardia brevipes brevipes*, D 4.5 mm; B – *Daudebardia rufa rufa*, D 3.9 mm; C – *Inguria wagneri*, D 7.7 mm; D – *Sieversia heydeni*, D 6.4 mm; E – *Sieversia lederi*, D 5.9 mm; F – *Szuchumiella jetschini*, D 4.7 mm.

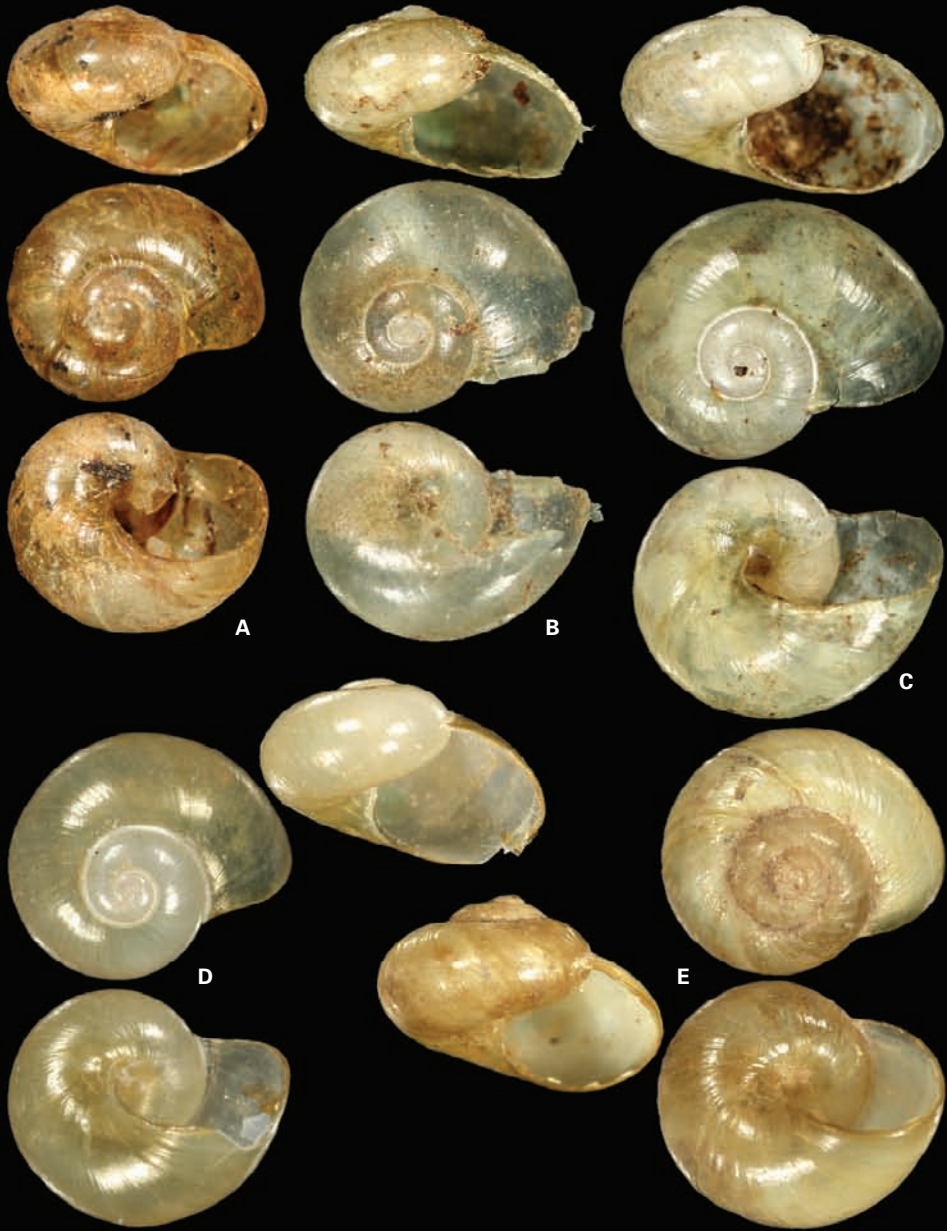


Fig. 71. A – *Vitrina exilis*, D 4.9 mm; B – *Vitrina pellucida pellucida*, D 5.5 mm; C – *Vitrina pellucida alaskana*, D 6.5 mm; D – *Vitrina rugulosa*, D 5.5 mm; E – *Phenacolimax annularis*, D 5.4 mm.



Fig. 72. A – *Trochovitrina lederi*, lectotype, D 4.5 mm; B – *Eucobresia nivalis*, syntype, D 5.8 mm; C – *Eucobresia nivalis*, D 5.9 mm; D – *Semilimax kotulae*, D 5.6 mm; E – *Semilimax semilimax*, D 5.2 mm.





Fig. 73. A – *Zonitoides arboreus*, D 4.1 mm; B – *Zonitoides nitidus*, D 7.0 mm; C – *Discoconulus sinapidium*, D 1.2 mm; D – *Euconulus fulvus*, D 3.0 mm.



Fig. 74. **A** – *Macrochlamys kasnakowi*, syntype, D 9.0 mm; **B** – *Macrochlamys sogdiana*, lectotype, D 20.3 mm; **C** – *Macrochlamys turanica*, lectotype, D 17.7 mm; **D** – *Macrochlamys clessini*, syntype of *M. kasachstani* Tzvetkov, D 15.2 mm; **E** – *Macrochlamys turanica*, syntype of *M. korshinskii* Westerlund, D 19.1 mm; **F** – *Macrochlamys turanica*, syntype of *Hyalinia retteri* Rosen, D 11.7 mm.

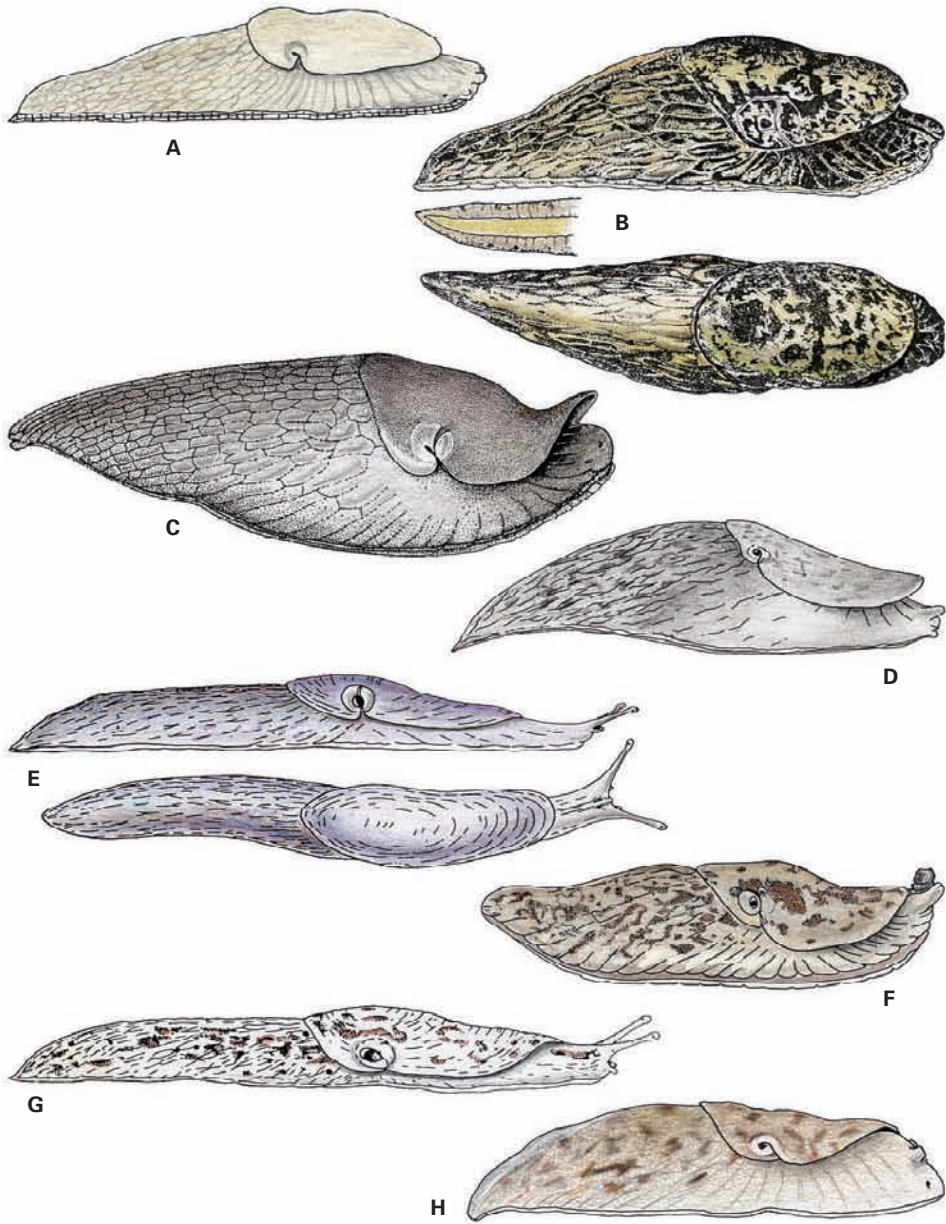


Fig. 75. A – *Deroceras agreste*; L 15.0 mm; B – *Deroceras bakurianum*; C – *Deroceras caucasicum*; D – *Deroceras laeve*; L 9.5 mm; E – *Deroceras moldavicum*; F – *Deroceras osseticum*; G – *Deroceras praecox*; H – *Deroceras reticulatum*.



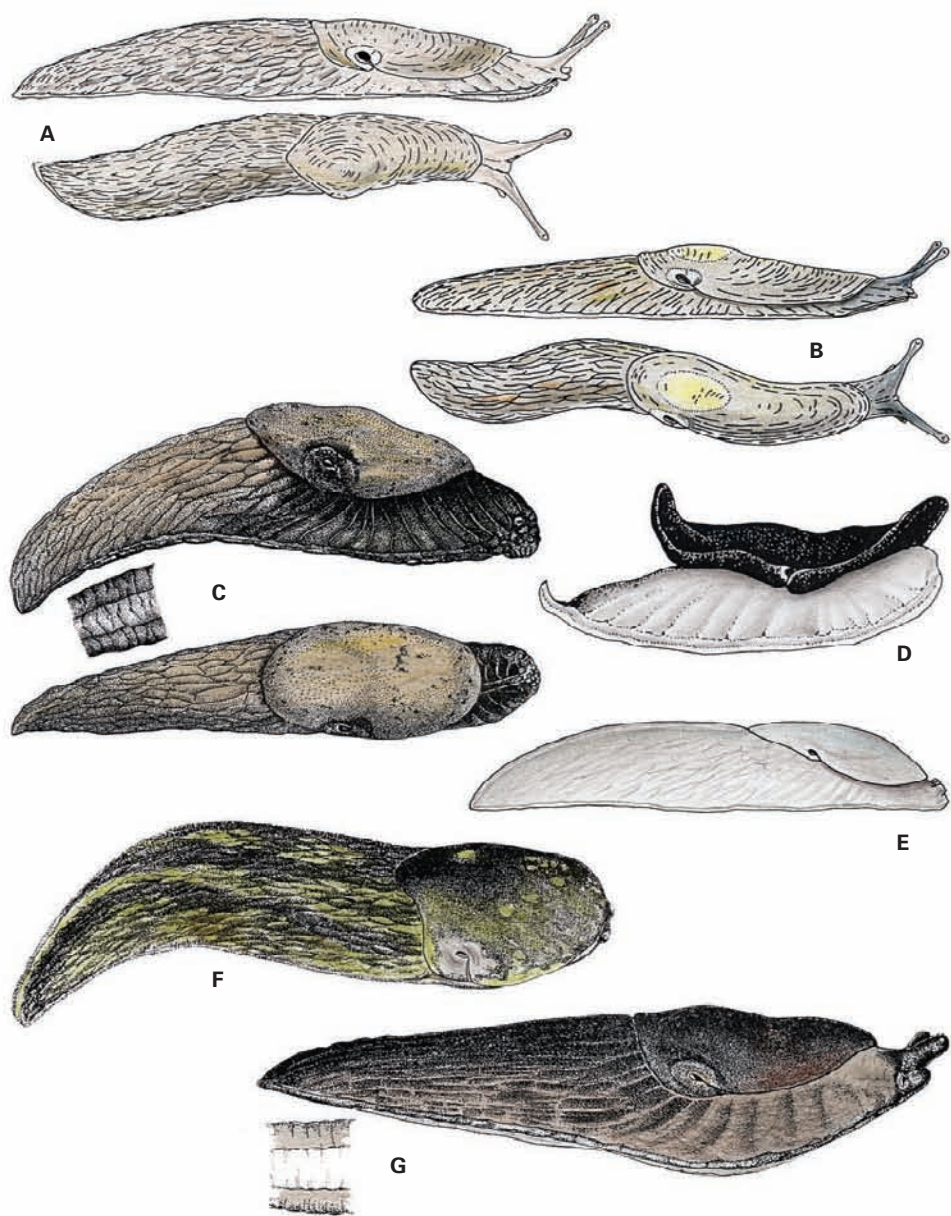


Fig. 76. A – *Deroceras rodnae*; B – *Deroceras sturanyi*; C – *Deroceras subagreste*; D – *Megalopelte simrothi*; E – *Boettgerilla pallens*; F – *Caspilimax keyserlingi*; G – *Gigantomilax brunneus*.



Fig. 77. A – *Gigantomilax koenigi*; B – *Gigantomilax lederi*; L 83 mm; C – *Gigantomilax monticola armeniacus*; D – *Limax flavus*; E – *Limax cinereoniger*.

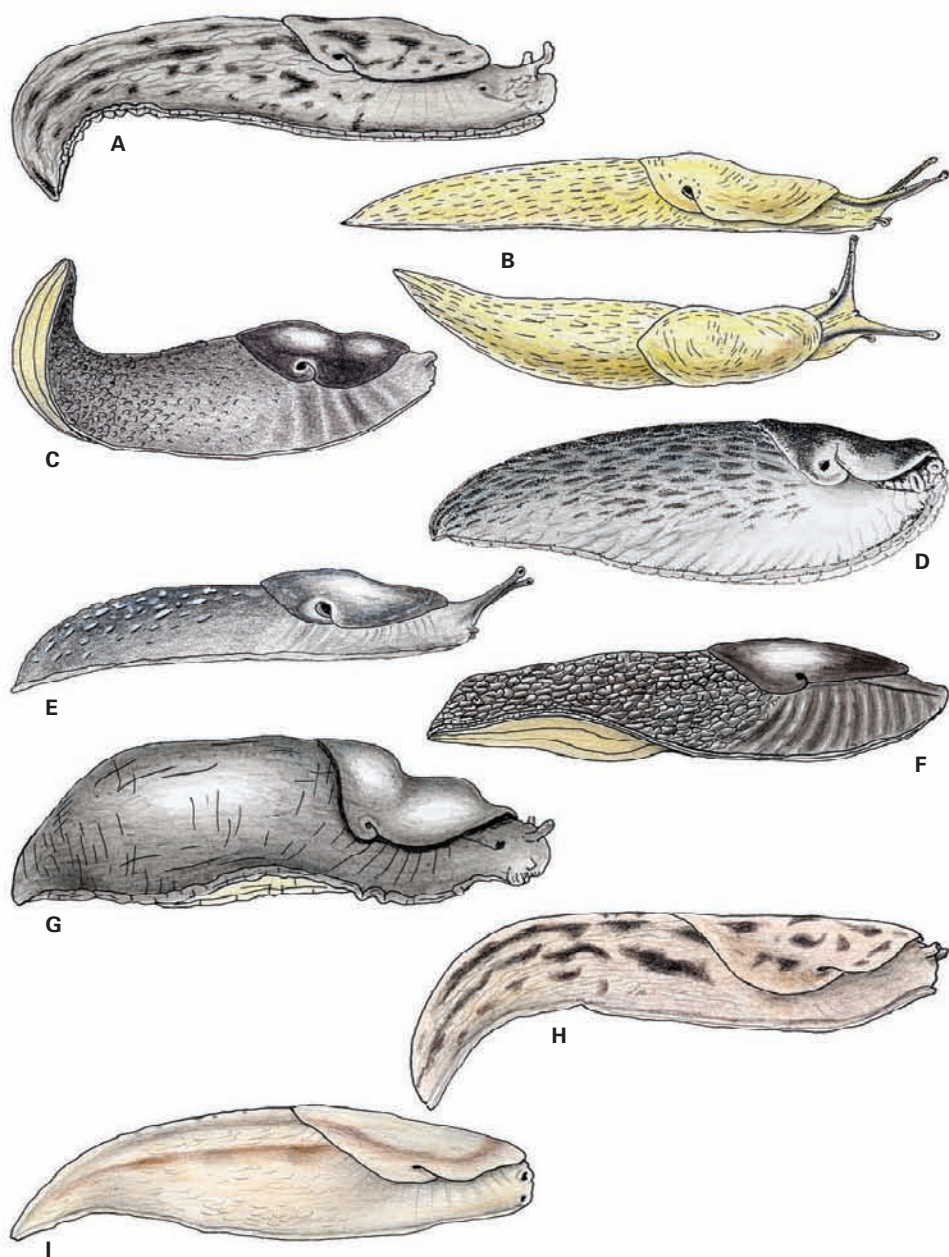


Fig. 78. A – *Limax maximus*, L 50.5 mm; B – *Malacolimax tenellus*; C – *Turcomilax ferganus*; D – *Turcomilax nanus*; E – *Turcomilax natalianus*; F – *Turcomilax turkestanus*; G – *Turcomilax tzvetkovi*, paratype, L 39.5 mm; H – *Eumilax brandti*; I – *Eumilax intermittens*.



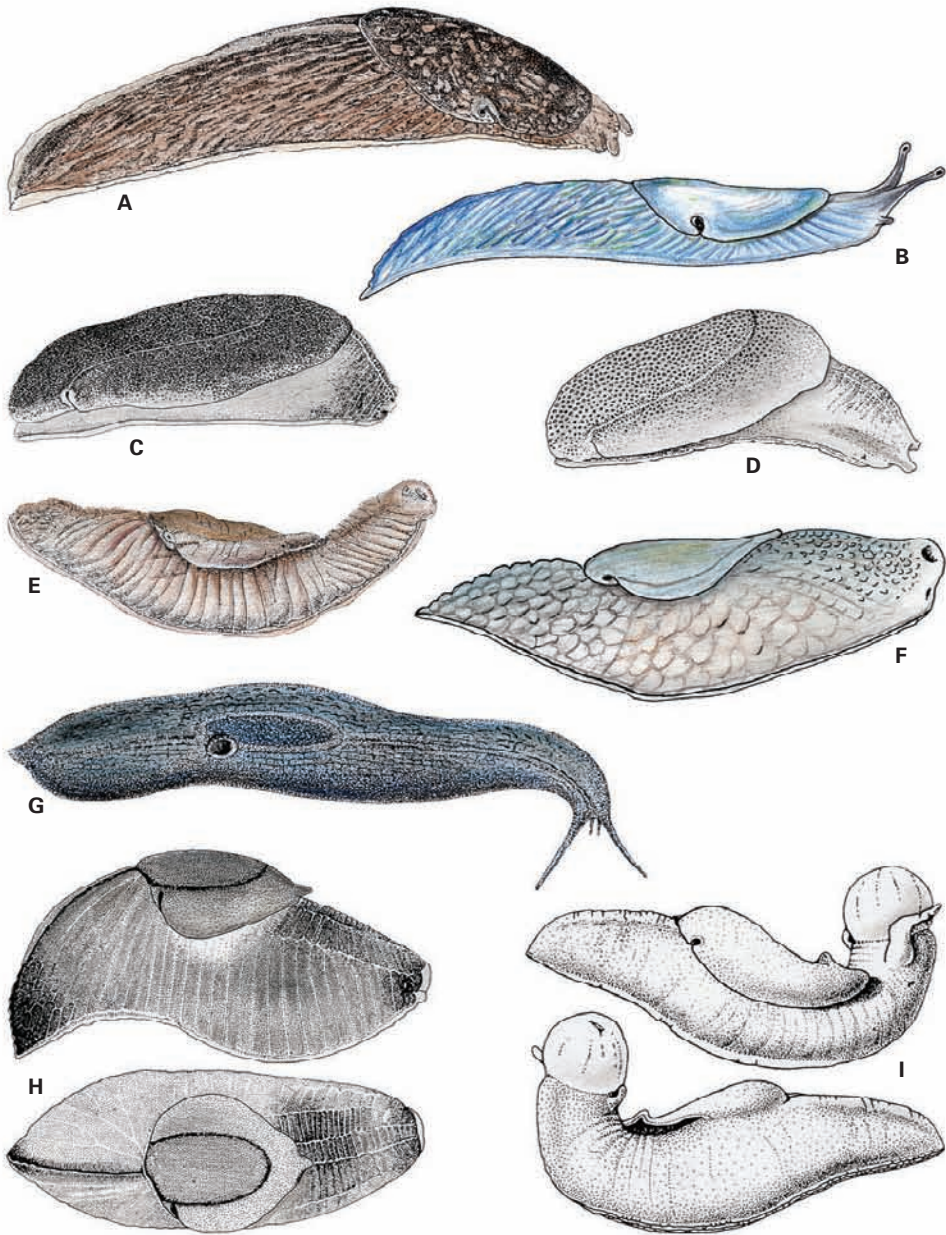


Fig. 79. A – *Metalimax varius*; B – *Bielzia coeruleans*; C – *Boreolestes likharevi*; D – *Boreolestes sylvestris*; E – *Drilolestes retowskii*; F – *Hyrcanolestes velitaris*; G – *Trigonochlamys imitatrix*; H – *Khostalestes kochetkovi*; I – *Lesticulus nocturnus*.

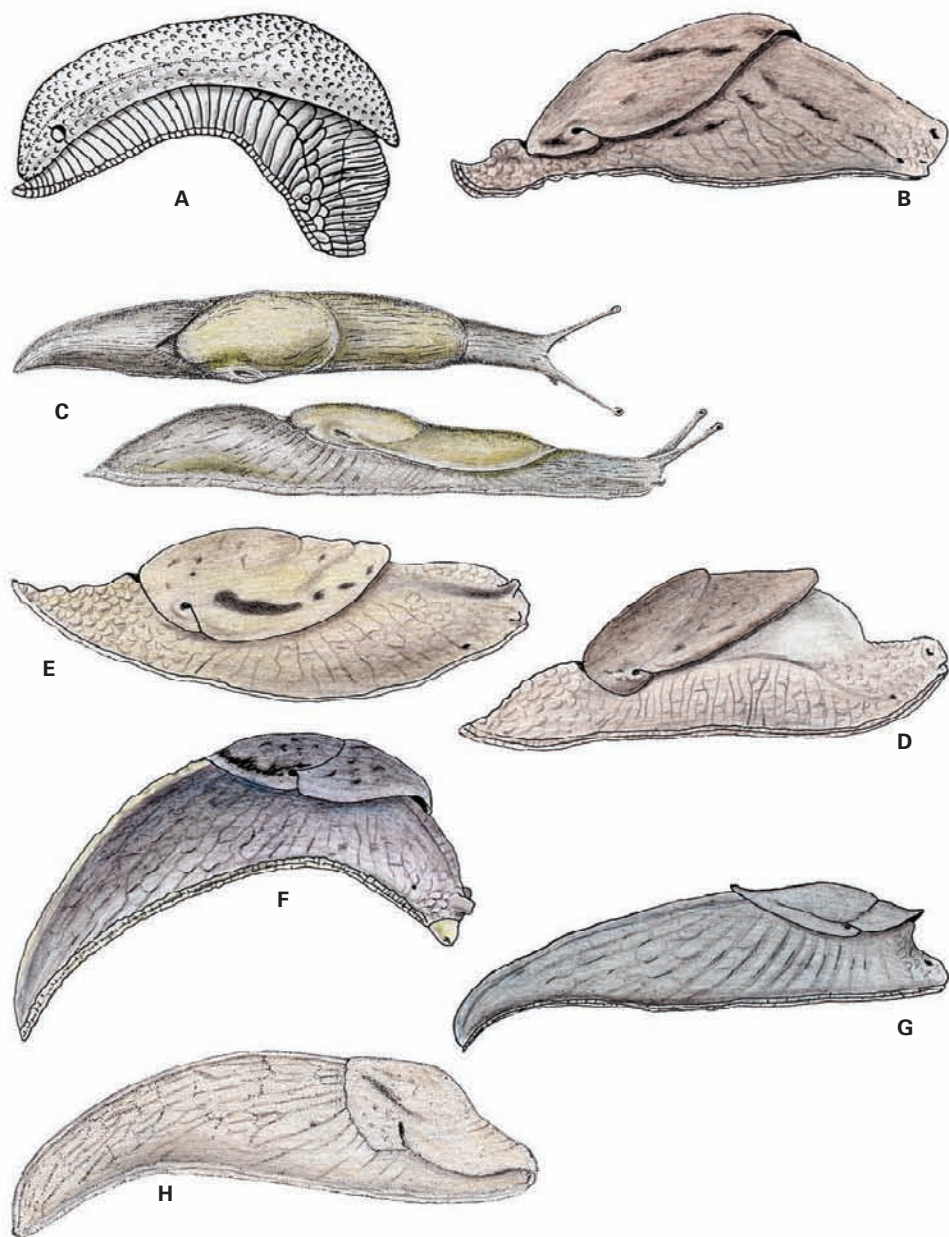


Fig. 80. A – *Troglolestes sokolovi*; B – *Candaharia izzatullaevi*, L 27 mm; C – *Candaharia levanderi*; D – *Candaharia rutellum*, L 29.5 mm; E – *Parmacella ibera*, L 38 mm; F – *Milax caucasicus*, L 17.5 mm; G – *Tandonia cristata*, L 16 mm; H – *Tandonia kusceri*.



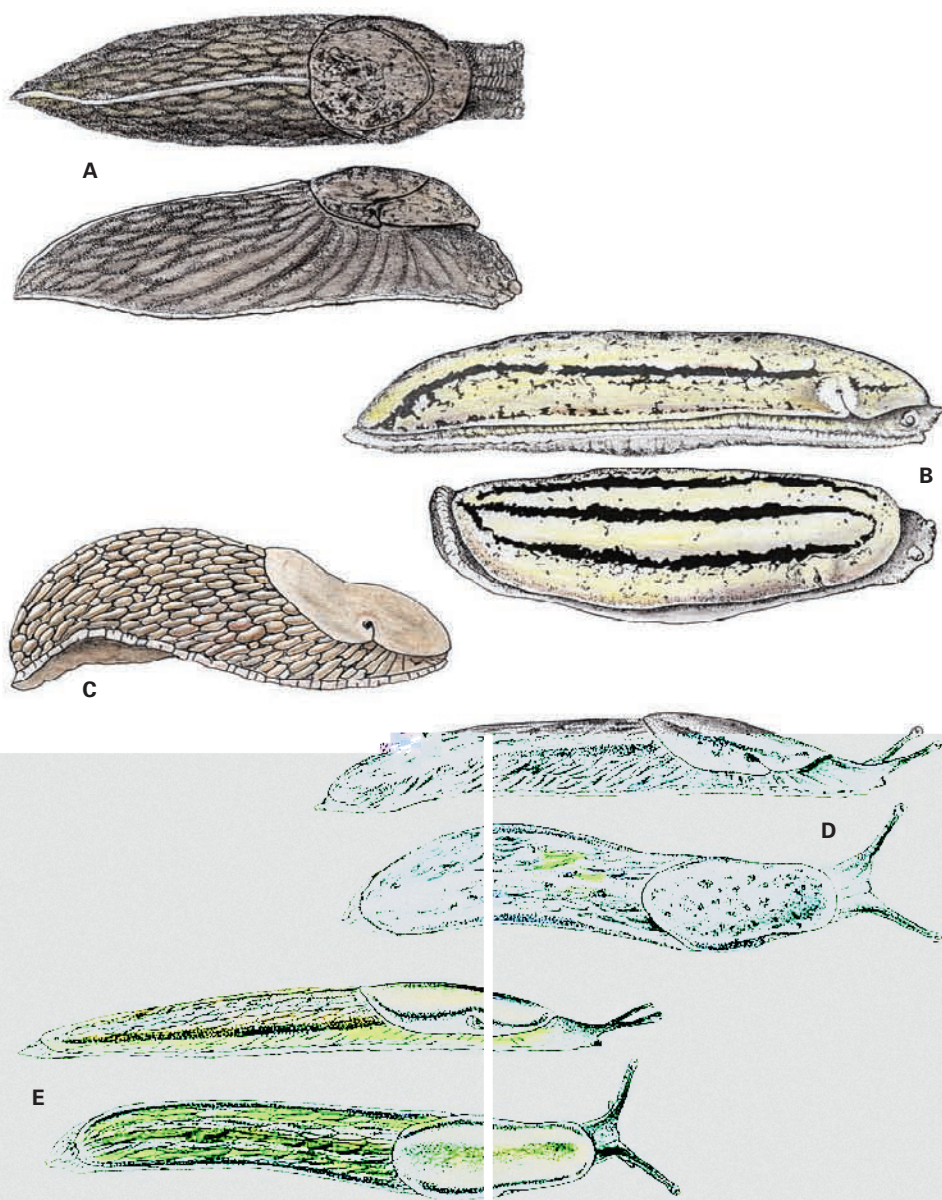


Fig. 81. A – *Tandonia kaleniczenkoi*; B – *Meghimatium bilineatum*; C – *Arion rufus*, L 64 mm;  
 D – *Arion circumscriptus*; E – *Arion fasciatus*.

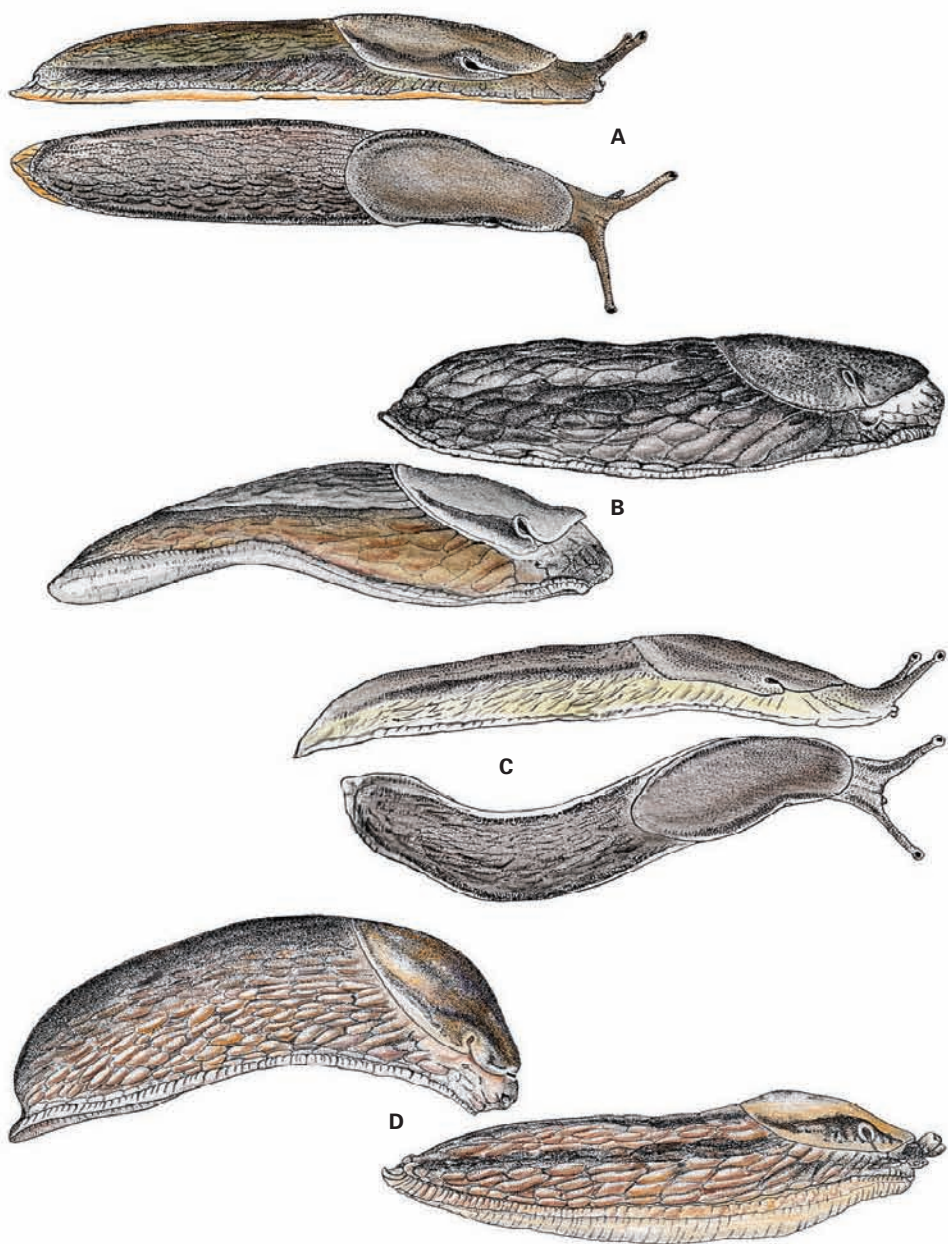


Fig. 82. A – *Arion hortensis*; B – *Arion sibiricus*; C – *Arion silvaticus*; D – *Arion subfuscus*.



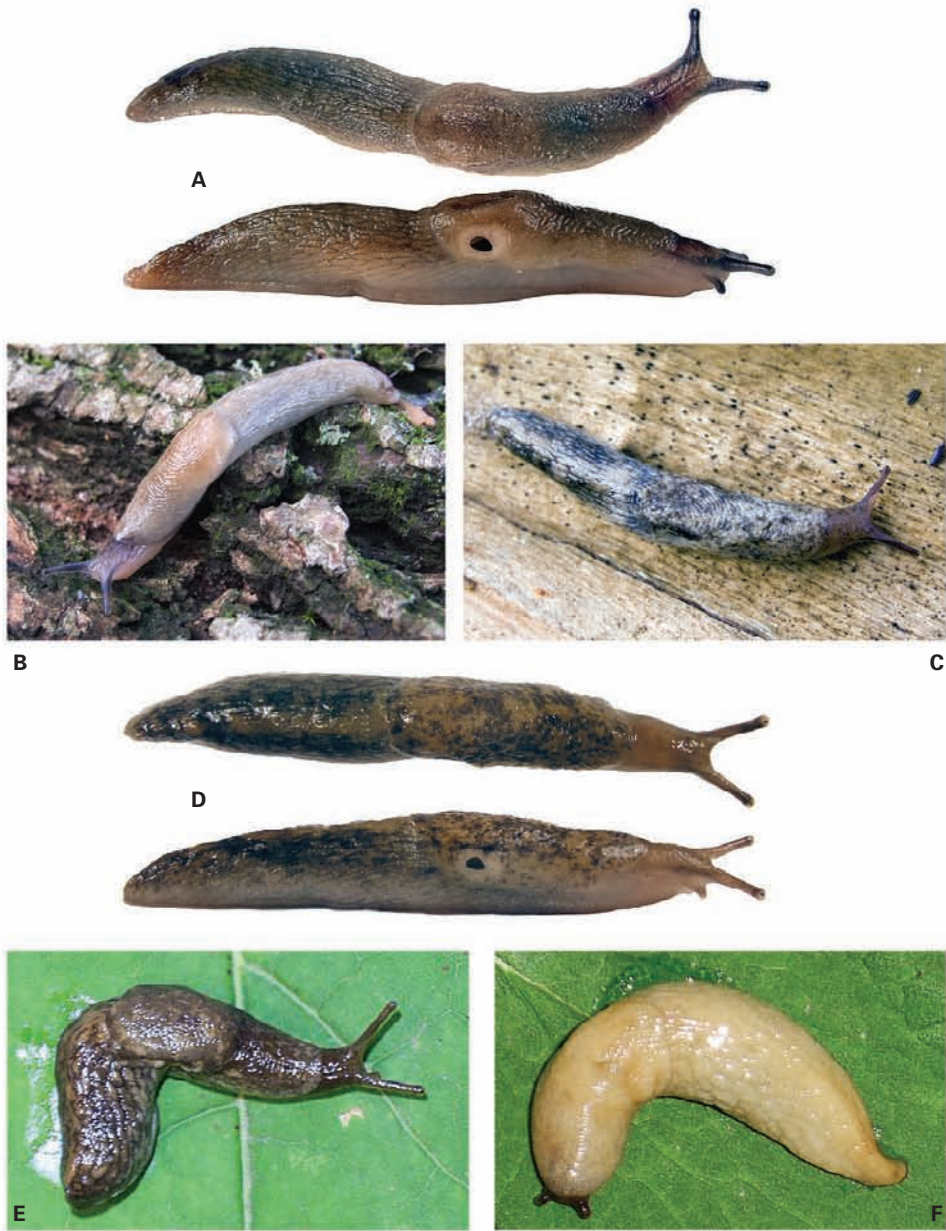


Fig. 83. A – *Deroceras caucasicum*, L 54 mm; B – *Deroceras caucasicum*; C – *Deroceras reticulatum*, D – *Deroceras reticulatum*, L ca. 30 mm; E – *Deroceras reticulatum*; F – *Deroceras rodnae*.

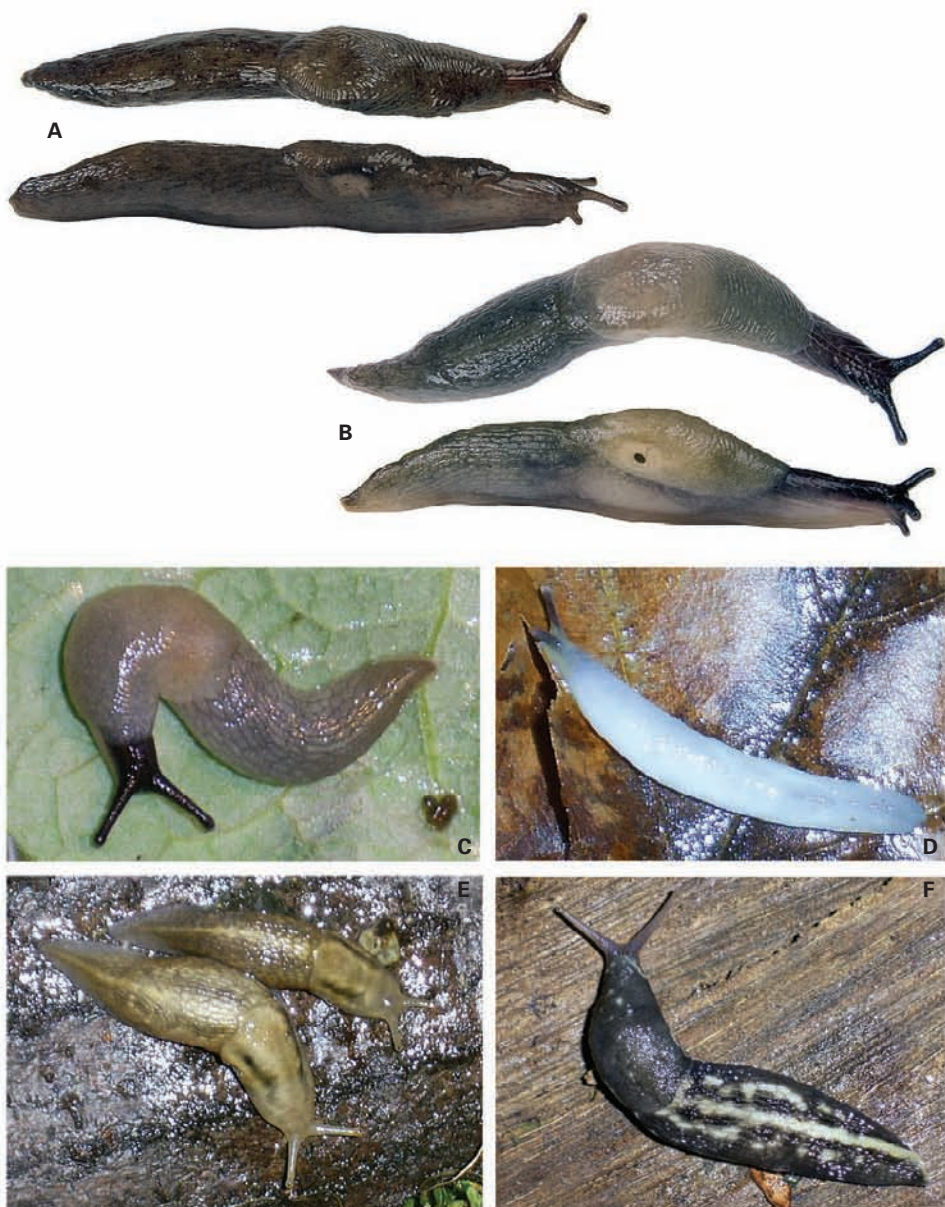


Fig. 84. A – *Deroceras tauricum*, L 42 mm; B – *Krynickillus melanocephalus*, L ca. 60 mm; C – *Krynickillus melanocephalus*; D – *Boettgerilla pallens*; E – *Lehmannia marginata*; F – *Limax cinereoniger*.



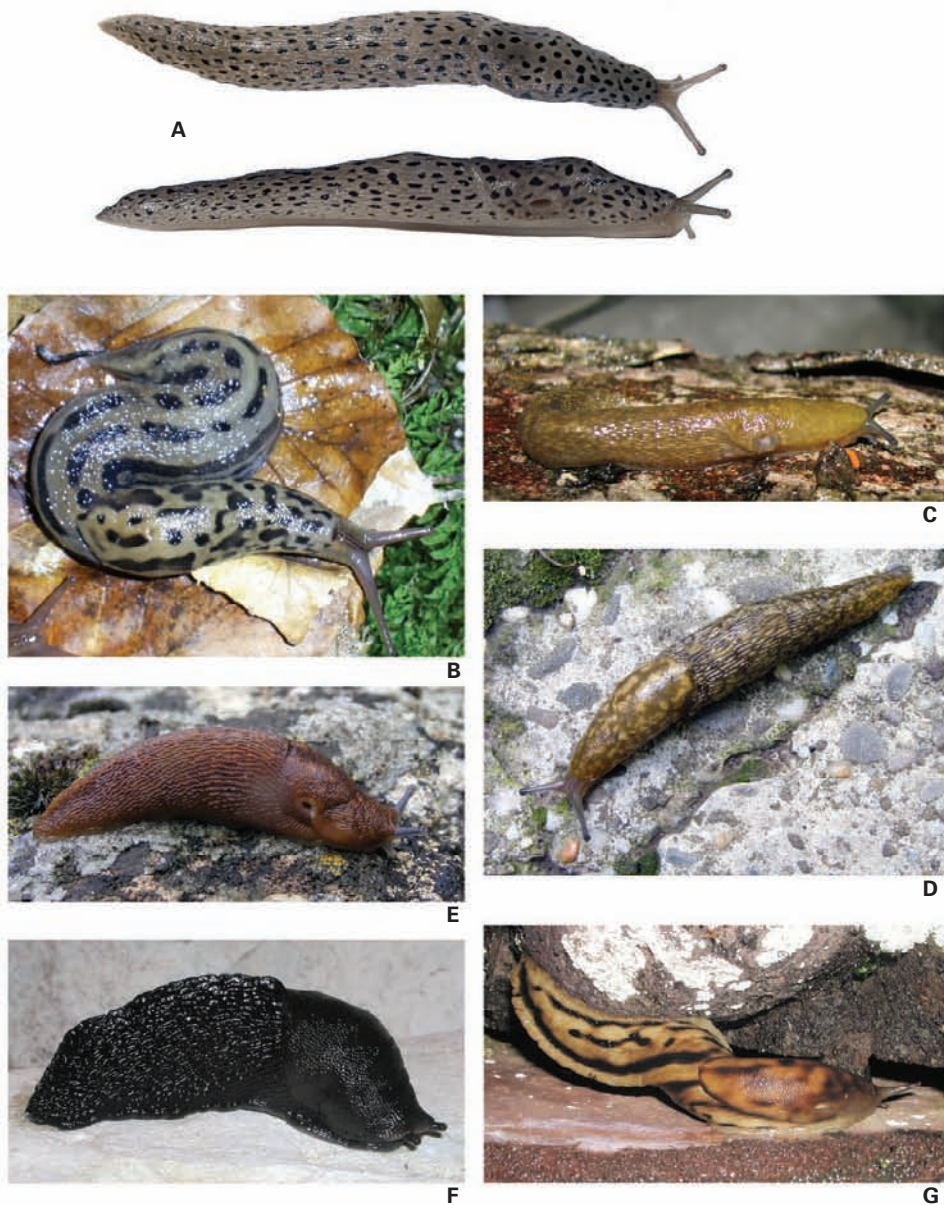


Fig. 85. A – *Limax maximus*, L 95 mm; B – *Limax maximus*; C – *Limax maculatus*; D – *Limax maculatus*, L 95 mm; E – *Limax flavus*, L 95 mm; F, G – *Eumilax brandti*.



Fig. 86. A – *Tandonia cristata*, L ca. 35 mm; B – *Tandonia kaleniczenkoi*, L 51 mm; C – *Tandonia kusceri*, L 70 mm; D – *Bielzia coerulans*; E – *Candaharia rutellum*; F – *Arion fasciatus*; G – *Arion subfuscus*.





Fig. 87. A – *Arianta arbustorum*, D 20.9 mm; B – *Arianta petrii*, D 20.1 mm; C – *Drobacia banatica*, D 28.8 mm; D – *Campylaea faustina*, D 16.8 mm.



Fig. 88. **A** – *Helicigona lapicida*, D 14.7 mm; **B** – *Isognomostoma isognomostomum*, D 10.2 mm; **C** – *Caucasotachea atrolabiata*, syntype of *Helix atrolabiata* var. *albispira* Lindholm, D 35.4 mm; **D** – *Caucasotachea atrolabiata*, syntype of *Helix atrolabiata* var. *voronoviae* Lindholm, D 36.0 mm; **E** – *Caucasotachea calligera*, lectotype of *Helix atrolabiata* var. *pallasii* Mousson, D 32.8 mm.



Fig. 89. A – *Caucasotachea leucoranea*, D 27.5 mm; B – *Cepaea hortensis*, D 18.8 mm; C – *Cepaea nemoralis*, D 23.2 mm; D – *Cepaea vindobonensis*; syntype of *Helix arvensis* Krynicki, D 21.1 mm.





Fig. 90. A – *Cryptomphalus aspersa*, D 29.2 mm; B – *Helix albescens*; holotype, D 31.0 mm; C – *Helix albescens*, D 29.5 mm; D – *Eobania vermiculata*, D 27.4 mm.



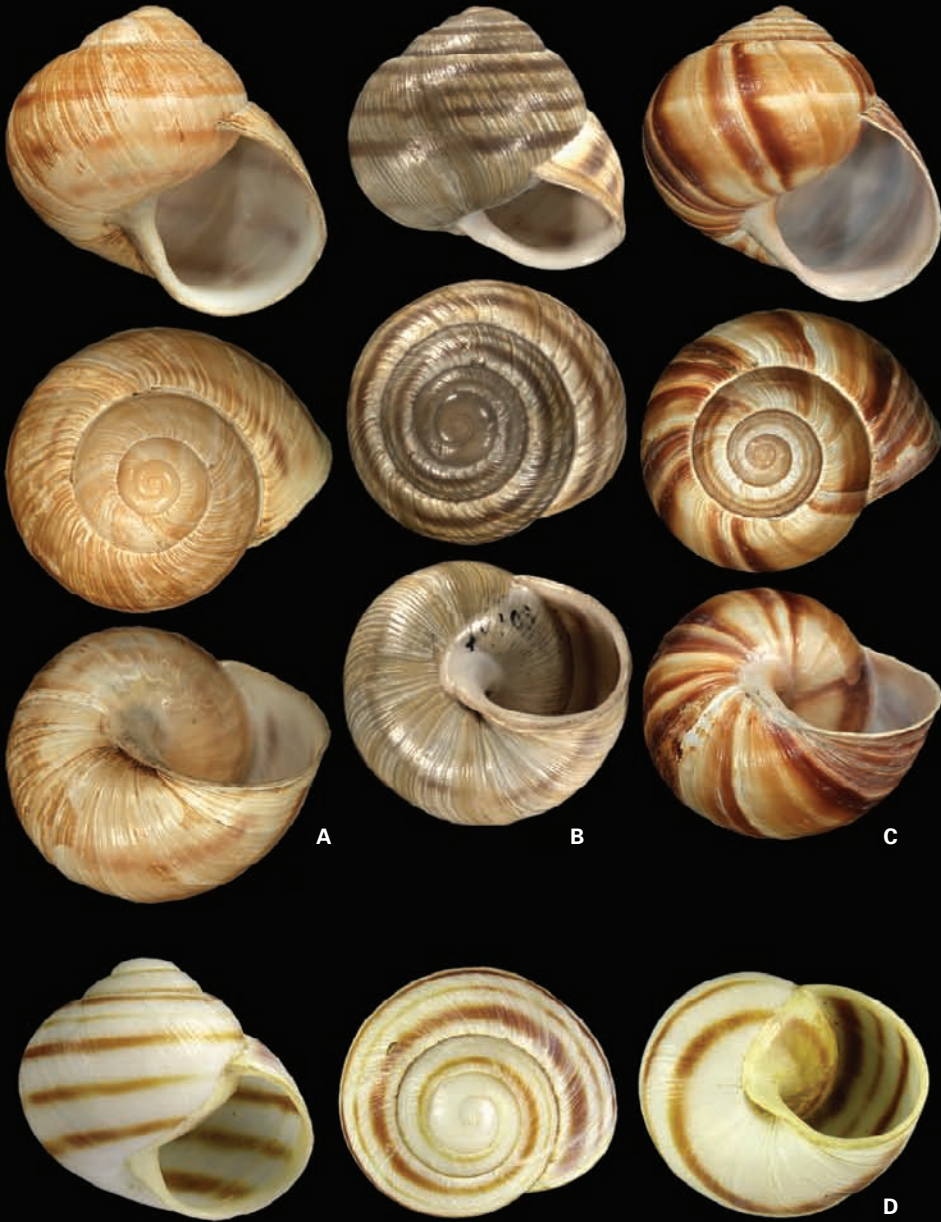


Fig. 91. A – *Helix buchi*, D 45.0 mm; B – *Helix christophi*, lectotype, D 29.0 mm; C – *Helix lucorum*, D 41.4 mm; D – *Helix nordmanni*, syntype, D 25.4 mm.



Fig. 92. A – *Helix lutescens*, neotype, D 29.2 mm; B – *Helix lutescens*, D 28.6 mm; C – *Helix pomatia*, D 34.5 mm; D – *Levantina escheriana*, D 33.6 mm.



Fig. 93. A – *Levantina djulfensis*, syntype of *Helix casta* Westerlund, D 33.0 mm; B – *Levantina djulfensis*, D 30.3 mm; C – *Levantina longinqua*, lectotype, D 41.3 mm; D – *Acusta ravida*, syntype of *Helix cinctoinflata* Mousson, D 31.0 mm; E – *Fruticicola alaica*, holotype, D 15.0 mm.





Fig. 94. A – *Fruticicola almaatini*, syntype, D 23.6 mm; B – *Fruticicola bilaticincta*, D 24.8 mm; C – *Fruticicola cavimargo cavimargo*, D 14.0 mm; D – *Fruticicola cavimargo tarbagataica*, holotype, D 11.4 mm; E – *Fruticicola cavimargo tarbagataica*, D 10.7 mm.

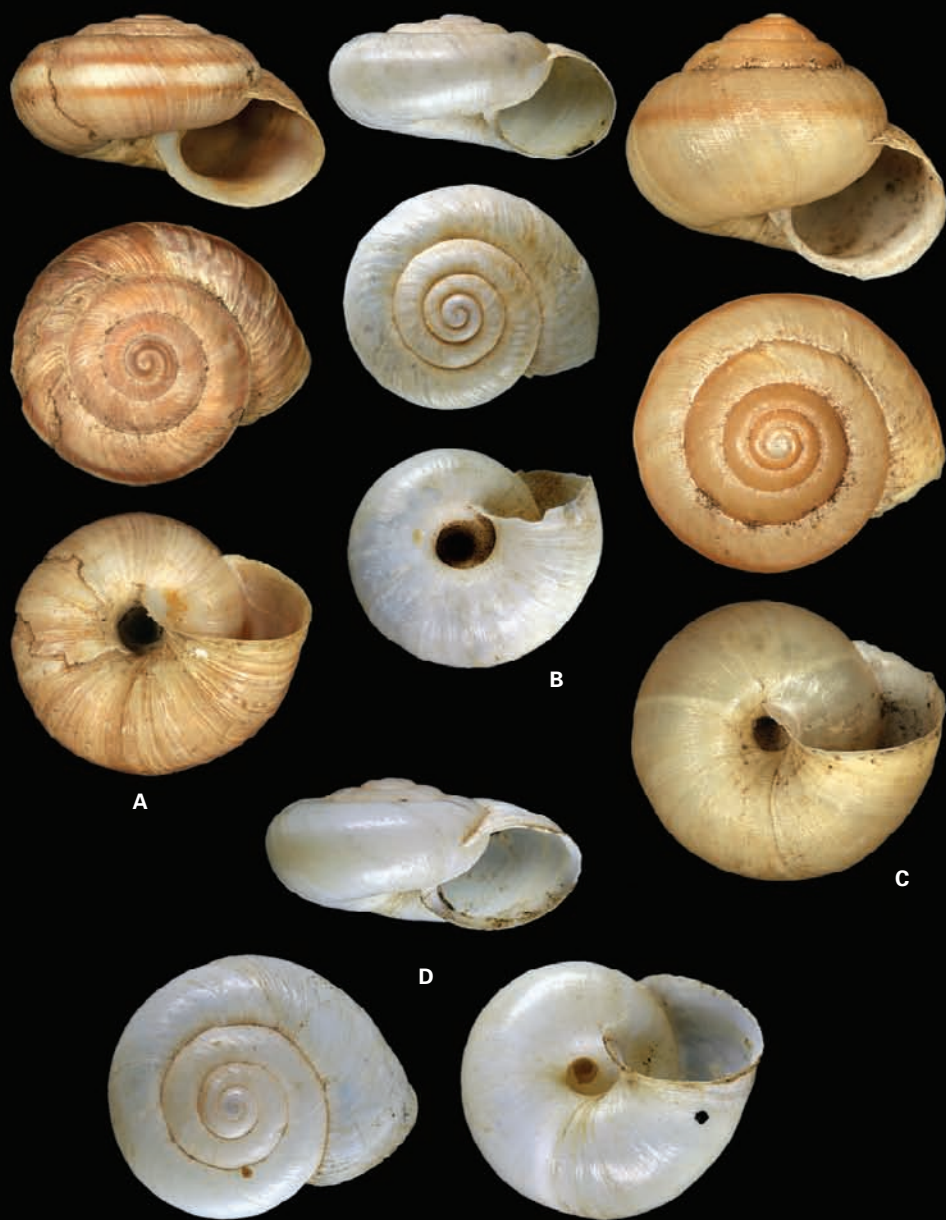


Fig. 95. A – *Fruticicola dichrozona*, D 18.5 mm; B – *Fruticicola fedtschenkoi*, lectotype, D 13.5 mm; C – *Fruticicola fruticum*, D 19.6 mm; D – *Fruticicola perlucens*, lectotype, D 19.3 mm.



Fig. 96. A – *Fruticicola helvola helvola*, D 19.0 mm; B – *Fruticicola phaeozona pseudarianta*, lectotype, D 18.7 mm; C – *Fruticicola helvola anachoretica*, D 16.7 mm; D – *Fruticicola phaeozona phaeozona*, lectotype, D 14.7 mm; E – *Fruticicola necopinata*, lectotype, D 14.7 mm.





Fig. 97. A-G – *Fruticicola lantzi*: A – syntype, D 19.5 mm; B – syntype, D 19.6 mm; C – lectotype of m. *steppensis* Tzvetkov, D 18.8 mm; D – lectotype of m. *silvestris* Tzvetkov, D 20.4 mm; E – lectotype of m. *montana* Tzvetkov, D 22.5 mm; F – lectotype of f. *albina* Tzvetkov, D 22.5 mm; G – lectotype of ssp. *sinistrorsa* Tzvetkov, D 21.0 mm; H – *Fruticicola scythica*, lectotype, D 21.0 mm.



Fig. 98. **A** – *Fruticicola plectotropis plectotropis*, syntype of *Helix plectotropis* var. *uniformis* Ancy, D 17.5 mm; **B** – *Fruticicola plectotropis mesophila*, lectotype, D 21.6 mm; **C** – *Fruticicola plectotropis scopulosa*, D 21.0 mm; **D** – *Fruticicola plectotropis saxatilis*, lectotype, D 15.0 mm; **E** – *Fruticicola plectotropis scalaris*, lectotype, D 16.0 mm.



Fig. 99. A – *Fruticicola schrenckii*, syntype, D 15.5 mm; B – *Fruticicola skwortzowi*, syntype, D 18.3 mm; C – *Fruticicola tomyris*; holotype, 22.0 mm; D – *Fruticicola plectotropis stschukini*, syntype, D 16.3 mm; E – *Fruticicola squamulosa*, paratype, D 6.7 mm.



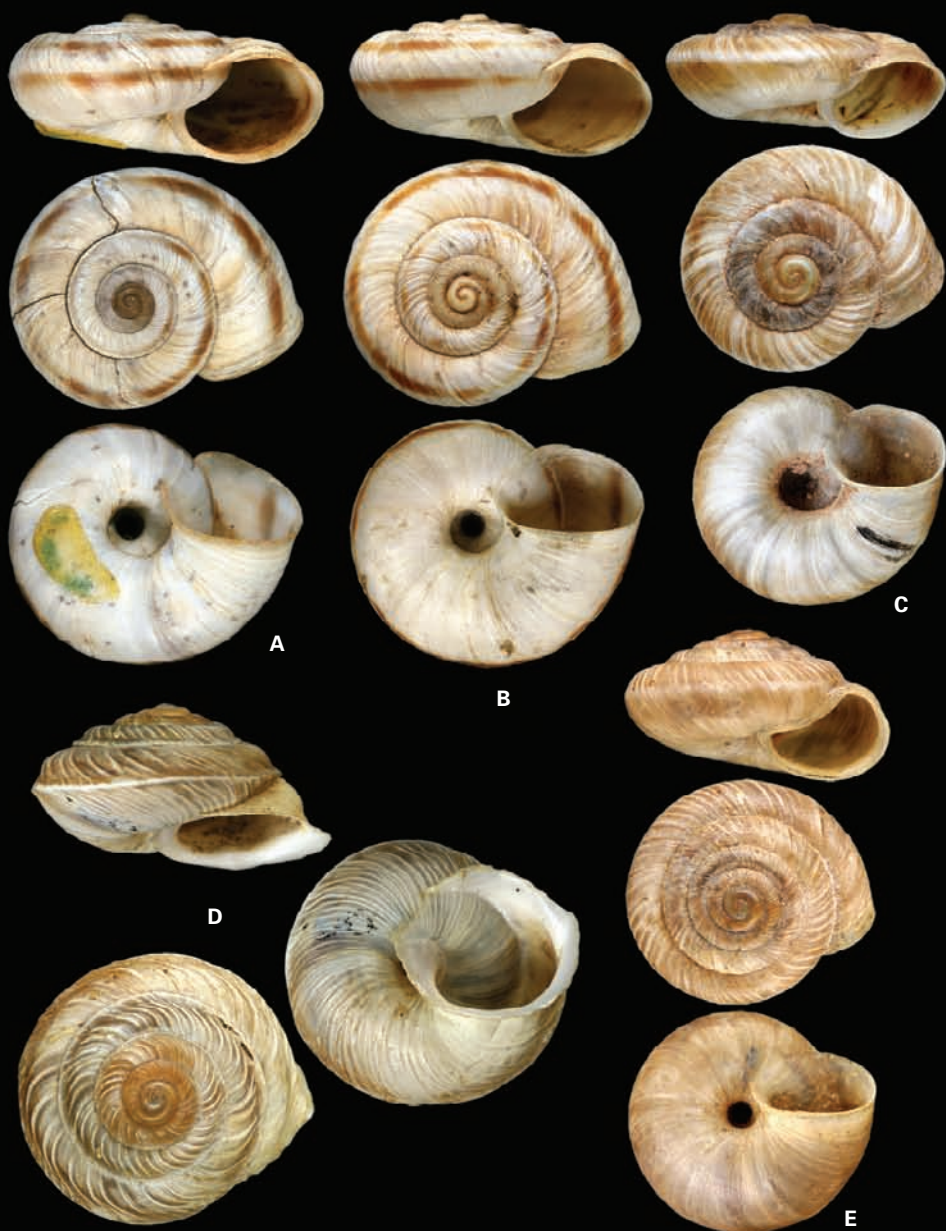


Fig. 100. A – *Fruticicola stoliczkana stoliczkana*, D 15.6 mm; B – *Fruticicola stoliczkana pavlovskii*, holotype, D 14.6 mm; C – *Fruticicola stoliczkana chuika*, holotype, D 10.1 mm; D – *Fruticicola plectotropis transiliensis*, lectotype, D 14.6 mm; E – *Fruticicola zhecseni*, holotype, D 10.0 mm.

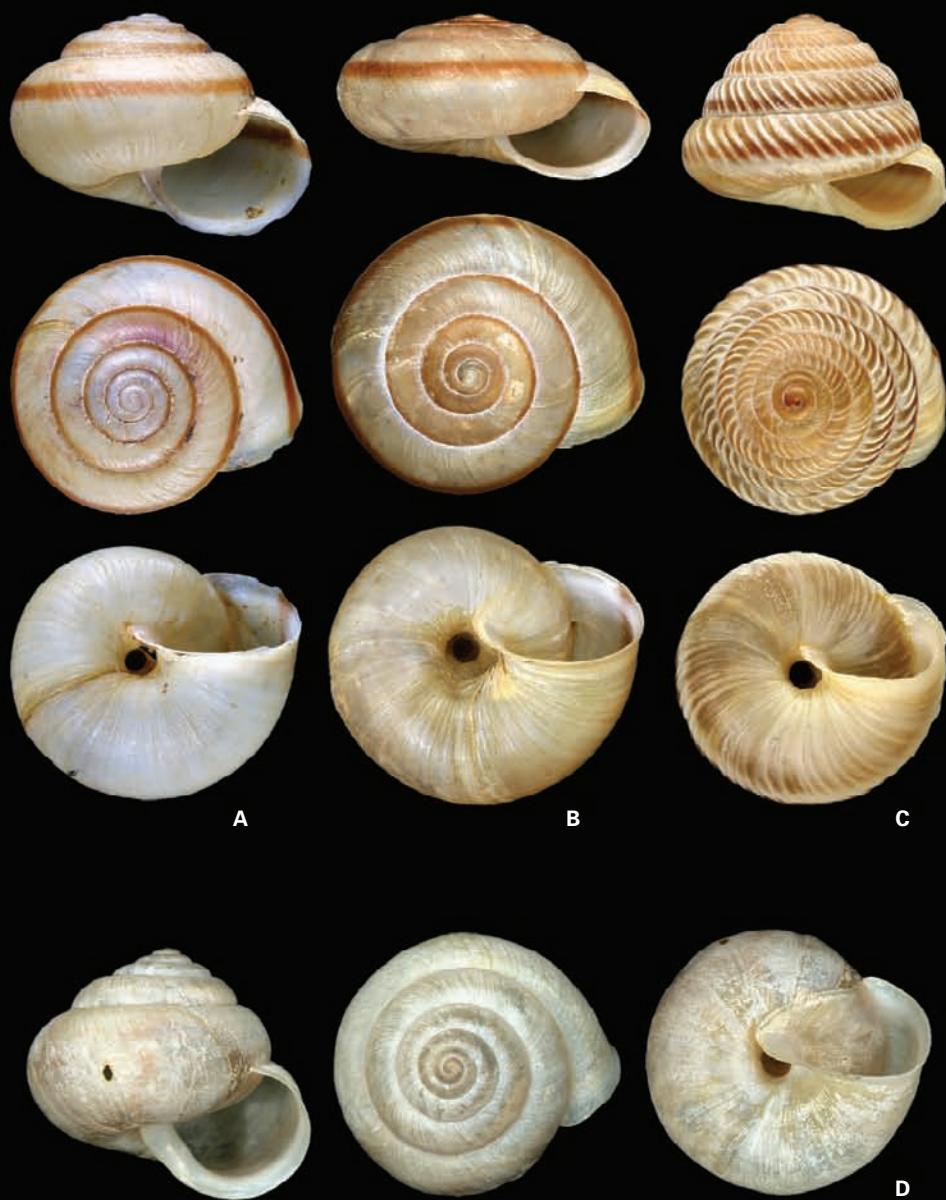


Fig. 101. A – *Fruticicola transbaicalia transbaicalia*, holotype, D 20.5 mm; B – *Fruticicola transbaicalia sayanica*, holotype, D 22.8 mm; C – *Fruticicola tzwetkovi*, D 10.0 mm; D – *Karaftohelix arcasiana*, D 15.3 mm.



Fig. 102. A – *Karaftohelix bocageana bocageana*, D 23.6 mm; B – *Karaftohelix bocageana chishimana*, D 26.4 mm; C – *Karaftohelix bocageana weyrichii*, D 31.3 mm; D – *Karaftohelix bocageana weyrichii*, probable syntype, D 29.8 mm; E – *Karaftohelix dieckmanni*, D 9.2 mm.





Fig. 103. A – *Karaftohelix capillata*, paratype, D 8.5 mm; B – *Karaftohelix capillata*, paratype, D 8.2 mm; C – *Karaftohelix diversita*, holotype, D 12.5 mm; D – *Karaftohelix duiensis*, D 20.1 mm.



Fig. 104. A – *Karaftohelix fragilis*, lectotype, D 21.3 mm; B – *Karaftohelix incognita*, holotype, D 9.5 mm; C – *Karaftohelix intermedia*, holotype, D 12.1 mm; D – *Karaftohelix kurodana*, lectotype, D 29.6 mm.

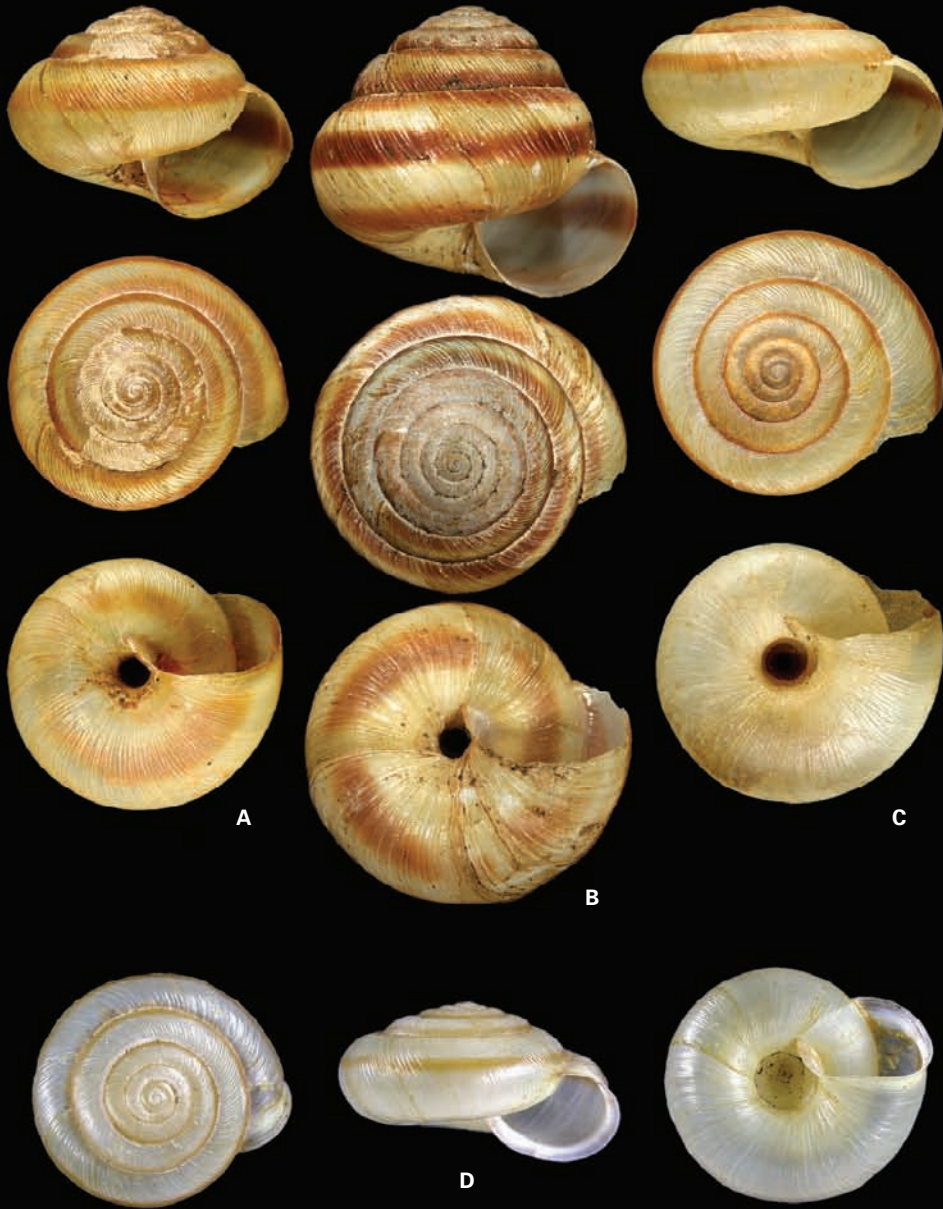


Fig. 105. **A** – *Karaftohelix maacki*, syntype, D 17.1 mm (immature shell); **B** – *Karaftohelix maacki*, D 28.8 mm; **C** – *Karaftohelix middendorffi*, syntype, D 18.7 mm; **D** – *Karaftohelix middendorffi*, syntype of *Helix graeseri* Mousson, D 15.9 mm.





Fig. 106. A – *Karaftohelix kudiensis*, D 13.7 mm; B – *Karaftohelix strelkovi*, holotype, 25.5 mm; C – *Karaftohelix strelkovi*, D 19.7 mm; D – *Karaftohelix vulcanica*, holotype, D 20.7 mm.



Fig. 107. A – *Karaftohelix plana*, holotype, D 21.1 mm; B – *Karaftohelix ussuriensis*, lectotype; C – *Ponsadenia dentata*, paratype, D 6.2 mm; D – *Ponsadenia hirsuta*, syntype, D 9.8 mm (not fully mature shell); E – *Ponsadenia pseudoferghanica*, holotype, D 19.7 mm.



Fig. 108. A – *Ponsadenia duplocincta*, syntype, D 20.0 mm; B – *Ponsadenia semenowi*, D 10.5 mm; C – *Lindholmiola corcyrensis*, D 9.3 mm; D – *Caucasigena abchasica*, holotype, D 17.7 mm; E – *Caucasigena armeniaca*, D 7.7 mm.





Fig. 109. A – *Caucasisigena eichwaldi*, D 19.4 mm; B – *Caucasisigena schaposchnikovi*, paralectotype, D 10.4 mm; C – *Caucasisigena schaposchnikovi*, D 15.0 mm; D – *Caucasisigena rengarteni*, syntype, D 13.8 mm; E – *Caucasisigena schileykoi*, paratype, D 15.7 mm.



Fig. 110. A – *Caucasigena thalestris*, D 19.2 mm; B – *Caucasigena tshetschenica*, D 9.5 mm; C – *Diodontella nubigena*, lectotype, D 6.7 mm; D – *Diodontella stschukini*, lectotype, D 9.4 mm.



Fig. 111. A – *Edentiella bakowskii*, D 6.5 mm; B – *Helicella candicans*, D 14.4 mm; C – *Helicopsis dejecta*, D 15.1 mm; D – *Helicopsis filimargo*, syntype, D 14.5 mm; E – *Helicopsis filimargo*, syntype, D 13.7 mm.





Fig. 112. A – *Helicopsis instabilis*, syntype, D 15.1 mm; B – *Helicopsis paulhessei*, lectotype, D 14.1 mm; C – *Helicopsis paulhessei*, D 12.6 mm; D – *Helicopsis likharevi*, holotype, D 8.4 mm; E – *Helicopsis likharevi*, paratype, D 8.1 mm; F – *Helicopsis retowskii*, syntype of *Helicella gireiorum* Lindholm, D 9.3 mm.



Fig. 113. **A** – *Helicopsis striata*, syntype of *Helicogena lunulata* Krynicki, D 9.7 mm; **B** – *Hygrohelicopsis darevskii*, holotype, D (broken) 10.1 mm; **C** – *Kokotschashvilia caucasicola*, syntype, D 10.7 mm; **D** – *Kokotschashvilia caucasicola*, holotype of *Caucasigena ossetica* Tavasieva, D 12.5 mm; **E** – *Kokotschashvilia eberhardi*, paratype, D 14.7 mm.





Fig. 114. **A** – *Kokotschashvilia holotricha*, syntype, D 15.7 mm; **B** – *Kokotschashvilia makvalae*, holotype, D 19.25 mm; **C** – *Kokotschashvilia makvalae*, D 19.6 mm; **D** – *Kokotschashvilia phaeolaema*, D 13.0 mm.



Fig. 115. **A** – *Kokotschashvilia tanta*, holotype, D 25.6 mm; **B** – *Kokotschashvilia tanta*, paratype, D 26.0 mm; **C** – *Leucarchaica rudimentifera*, holotype, D 12.0 mm; **D** – *Leucozonella angulata*, lectotype, D 13.8 mm; **E** – *Leucozonella angulata*, paralectotype, D 13.5 mm; **F** – *Leucozonella angulata*, D 15.2 mm.

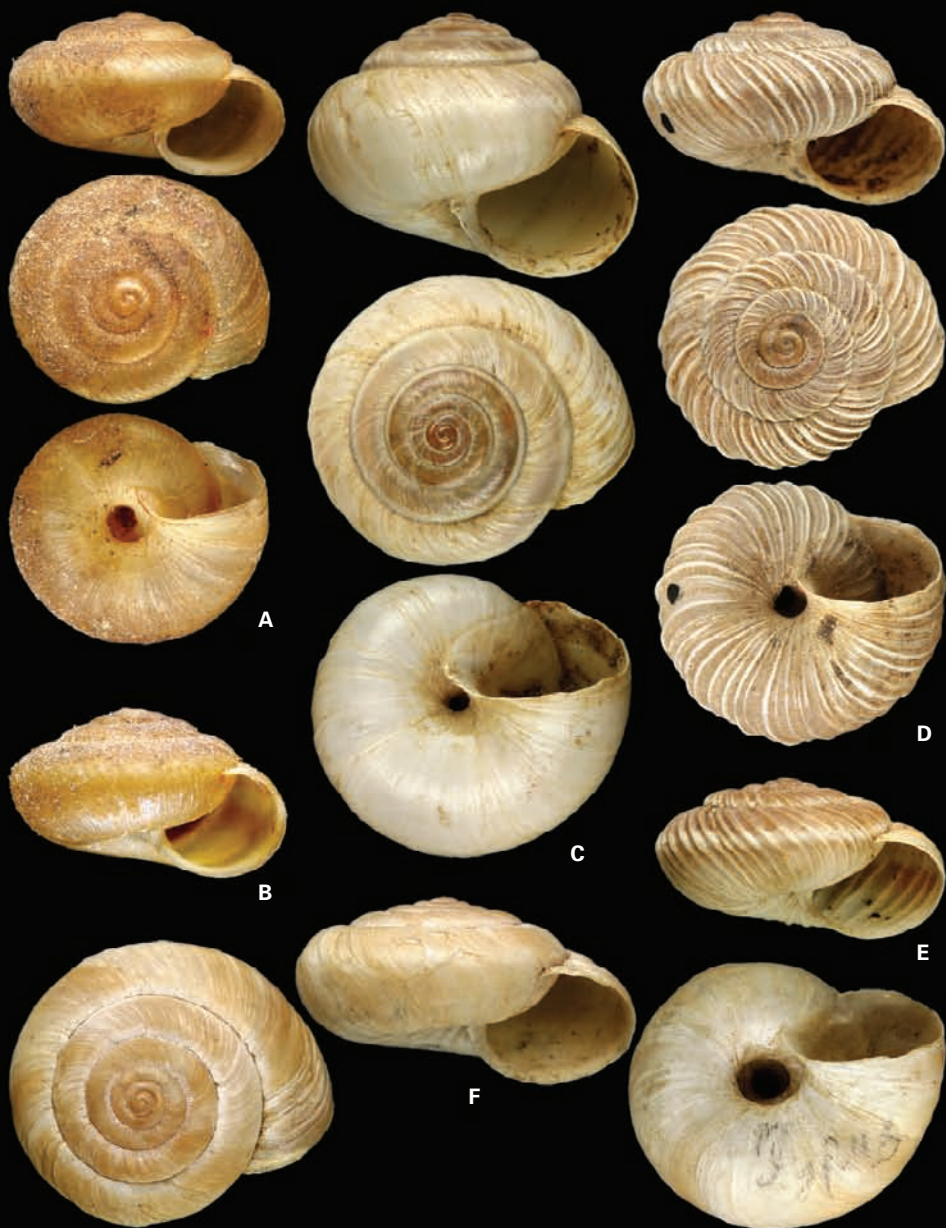


Fig. 116. **A** – *Leucozonella caria*, holotype, D 7.8 mm; **B** – *Leucozonella caria*, paratype, D 7.3 mm; **C** – *Leucozonella caryodes*, syntype, D 14.5 mm; **D** – *Leucozonella crassicosta*, holotype, D 12.0 mm; **E** – *Leucozonella crassicosta*, paratype, D 11.5 mm; **F** – *Leucozonella ferghanica*, syntype, D 19.0 mm.





Fig. 117. A – *Leucozonella globuliformis*, D 12.4 mm; B – *Leucozonella hypophaea*, syntype, D 14.4 mm; C – *Leucozonella intermedia*, holotype, D 12.0 mm; D – *Leucozonella mesoleuca*, D 10.0 mm; E – *Leucozonella mesoleuca*, D 14.5 mm.



Fig. 118. **A** – *Leucozonella mica*, holotype, D 7.5 mm; **B** – *Leucozonella planulata*, holotype, D 14.3 mm; **C** – *Leucozonella retteri*, paralectotype, D 16.3 mm; **D** – *Leucozonella rubens*, syntype, D 15.2 mm; **E** – *Leucozonella rubens*, D 13.8 mm.





Fig. 119. **A** – *Leucozonella rufispira*, syntype, D 13.5 mm; **B** – *Leucozonella translucens*, holotype, D 10.0 mm; **C** – *Nanaja chatkalica*, holotype, D 7.1 mm; **D** – *Nanaja cumulata*, holotype, D 16.5 mm; **E** – *Nanaja illuminata*, holotype, D 10.9 mm.



Fig. 120. A – *Odontotrema diplodon*, D 8.3 mm; B – *Odontotrema monodon*, holotype, D 7.3 mm; C – *Plicuteria lubomirskii*, D 8.7 mm; D – *Teberdinia flavolimbata*, syntype, D 13.7 mm.

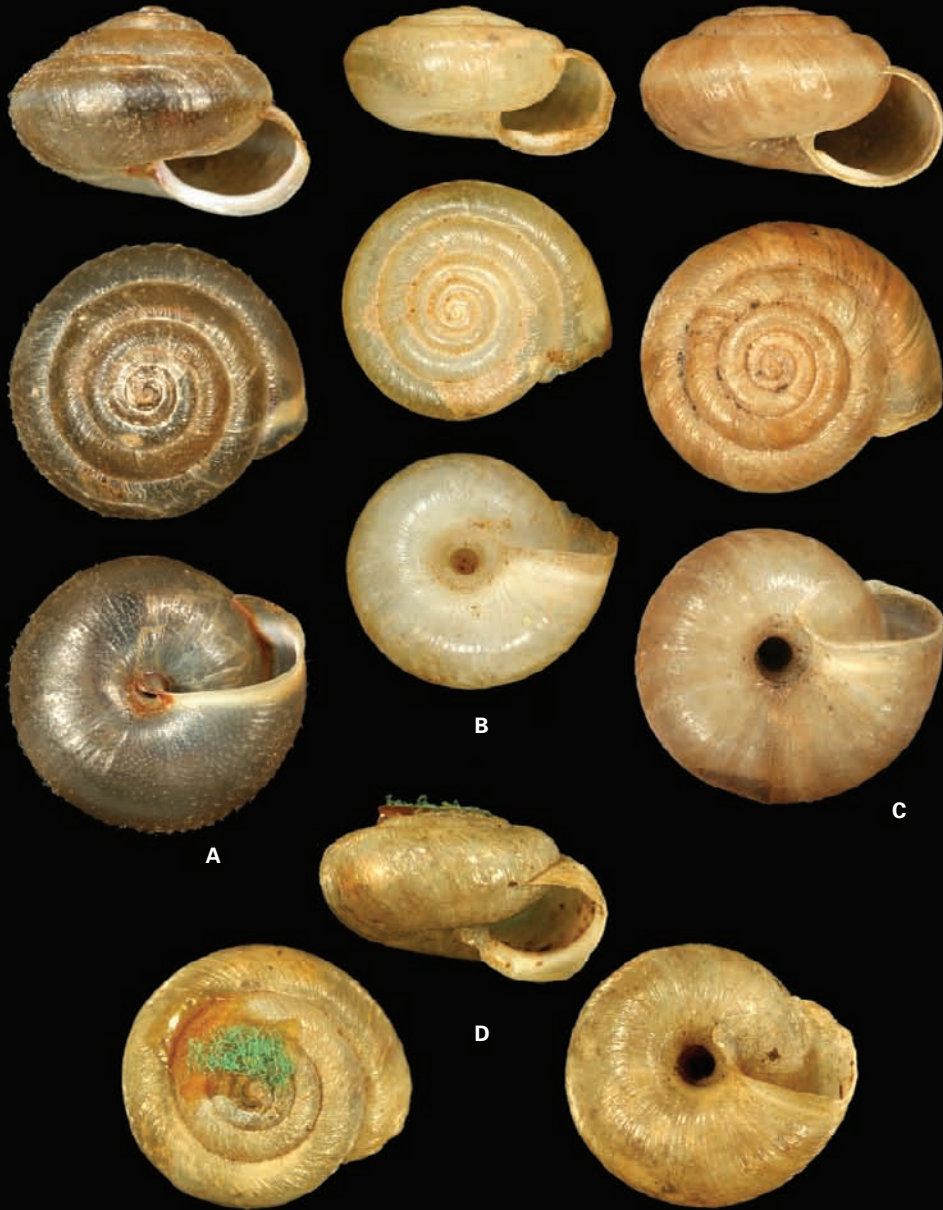


Fig. 121. A – *Trochulus bielzi*, D 9.4 mm; B – *Trochulus concinnus*, holotype of *Helix nothra* Westerlund, D 6.7 mm; C – *Trochulus hispidus*, D 9.5 mm; D – *Trochulus villosulus*, holotype, D 8.4 mm.





Fig. 122. A – *Xeropicta candaharica*, D 15.0 mm; B – *Xeropicta derbentina*, D 14.4 mm; C – *Xeropicta krynickii*, syntype, D 17.2 mm; D – *Xeropicta parableta*, D 5.8 mm.



Fig. 123. A – *Cernuella virgata*, D 14.7 mm; B – *Chilanodon bicallosa*, D 8.5 mm; C – *Chilanodon gerstfeldti*, syntype, D 6.4 mm; D – *Circassina christophori*, D 12.9 mm.





Fig. 124. A – *Circassina frutis circassica*, holotype of *C. bojanae* Hudec et Lezhawa, D 22.3 mm; B – *Circassina frutis veselyi*, holotype of *C. circassica simpla* Schileyko, D 18.2 mm; C – *Circassina pachnodes*, lectotype, D 13.6 mm; D – *Circassina pergranulata*, paratype, D 13.6 mm.



Fig. 125. A – *Circassina septentrionalis*, holotype, D 14.2 mm; B – *Circassina stephaniae*, D 20.7 mm; C – *Fruticocampylaea kobiensis*, syntype, D 17.4 mm; D – *Fruticocampylaea narzanensis*, syntype, D 17.9 mm.

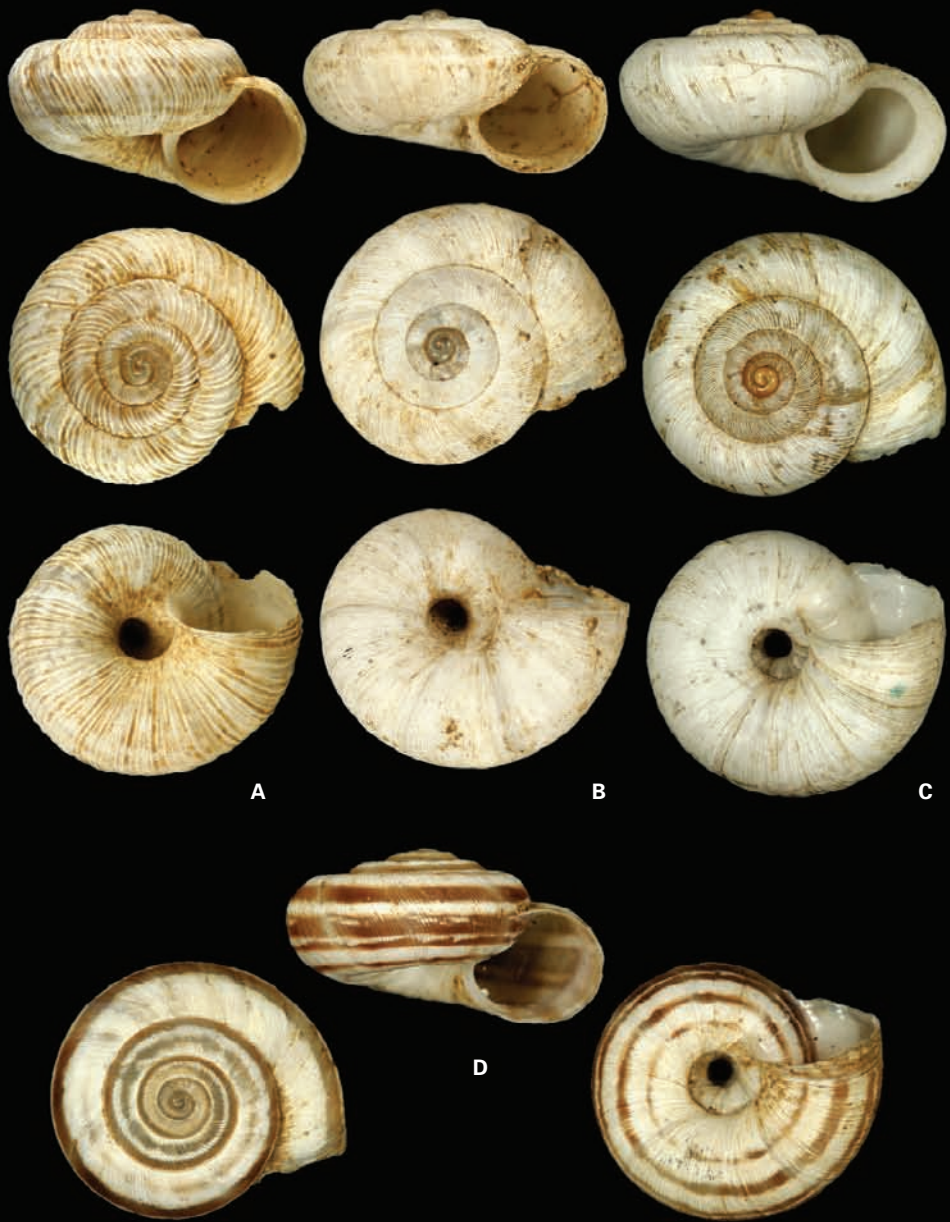


Fig. 126. A – *Kalitinaia arcadiana*, holotype, D 9.5 mm; B – *Kalitinaia crenimargo*, D 9.8 mm; C – *Kalitinaia orientalis*, holotype, D 11.7 mm; D – *Kalitinaia tiflisiana*, syntype, D 11.1 mm.





Fig. 127. A – *Kalitinaia perspectiva*, possible syntype, D 14.7 mm; B – *Kalitinaia perspectiva*, D 14.1 mm; C – *Lindholmomneme altaica*, D 13.3 mm; D – *Lindholmomneme nordenskioldi*, D 13.0 mm; E – *Lindholmomneme notophila*, D 9.8 mm (immature shell).



Fig. 128. A – *Lindholmomneme rhyota*, D 12.4 mm; B – *Lindholmomneme turbinatum*, holotype, D 12.2 mm; C – *Lindholmomneme westerlundi*, holotype, D 12.8 mm; D – ?*Lindholmomneme boevi*, holotype, D 17.3 mm.





Fig. 129. A – *Monachoides incarnata*, D 15.1 mm; B – *Monachoides vicina*, holotype, D 12.35 mm; C – *Monachoides vicina*, D 13.6 mm; D – *Noneulota khakassica*, holotype, D 7.5 mm; E – *Noneulota surprisa*, holotype, D 9.4 mm.



Fig. 130. A – *Perforatella bidentata*, D 7.2 mm; B – *Perforatella dibothrion*, D 11.1 mm; C – *Pseudotrichia rubiginosa*, holotype of *Tricheulota shadini* Likharev, D 8.0 mm; D – *Urticicola umbrosa*, D 12.7 mm.



Fig. 131. A – *Shileykoia daghestana*, probable syntype, D 14.8 mm; B – *Shileykoia daghestana*, D 17.0 mm; C – *Shileykoia daghestana*, holotype of *Helix aliostoma* Westerlund, D 16.7 mm; D – *Stygius aculeatus*, holotype, D 7.9 mm; E – *Stygius aculeatus*, D 7.7 mm.





Fig. 132. A – *Stygius stuxbergi*, paralectotype, D (broken) 8.7 mm; B – *Stygius stuxbergi*, D 7.3 mm; C – *Archaica apollinis*, D 17.0 mm; D – *Archaica heptapotamica*, syntype, D 16.7 mm; E – *Archaica heptapotamica*, syntype of *Cathaica tianschanica* Lindholm, D 14.4 mm.

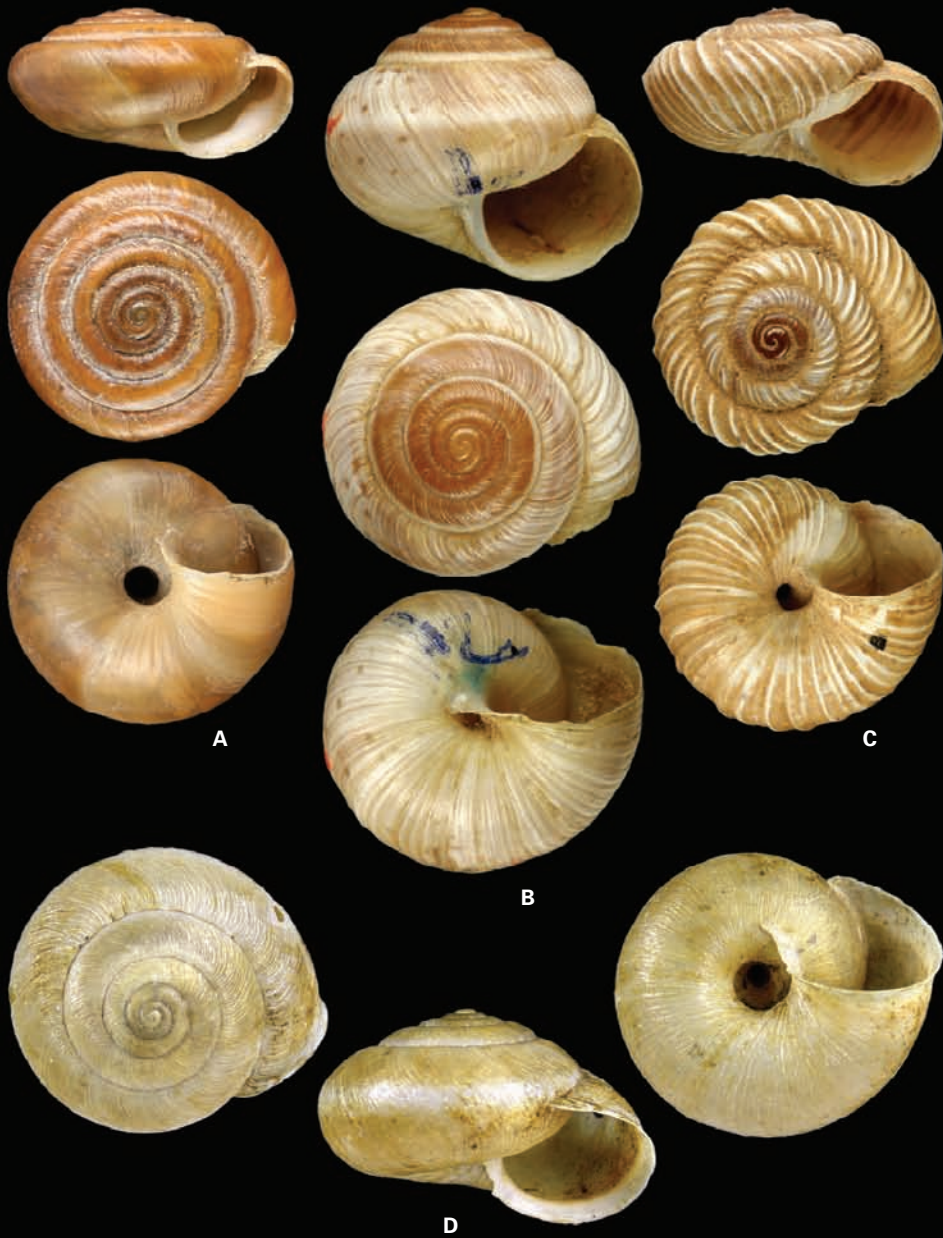


Fig. 133. A – *Archaica labianix*, holotype, D 10.0 mm; B – *Archaica papanica*, holotype, D 11.7 mm; C – *Archaica suspecta*, holotype, D 11.0 mm; D – *Euomphalia appeliana*, syntype, D 19.2 mm.





Fig. 134. A – *Euomphalia aristata*, syntype, D 14.3 mm (immature shell); B – *Euomphalia strigella*, D 16.4 mm; C – *Karabaghia bituberosa*, D 6.3 mm; D – *Monacha cartusiana*, D 14.3 mm.



Fig. 135. A – *Monacha ciscaucasica*, D 10.8 mm; B – *Monacha clausi*, paratype, D 17.2 mm; C – *Monacha fruticola*, syntype, D 18.3 mm; D – *Monacha perfrequens*, lectotype, D 15.0 mm.



Fig. 136. **A** – *Monacha roseni*, lectotype, D 14.0 mm; **B** – *Monacha samsunensis*, syntype of *Theba scrobiculosa* Lindholm, D 13.1 mm; **C** – *Monacha subcarthusiana*, lectotype, 13.3 mm; **D** – *Monacha talischana*, holotype of *Theba maxima* Schileyko, D 15.5 mm; **E** – *Monacha talischana*, holotype of *Theba longiflagellata* Schileyko, D 10.8 mm.



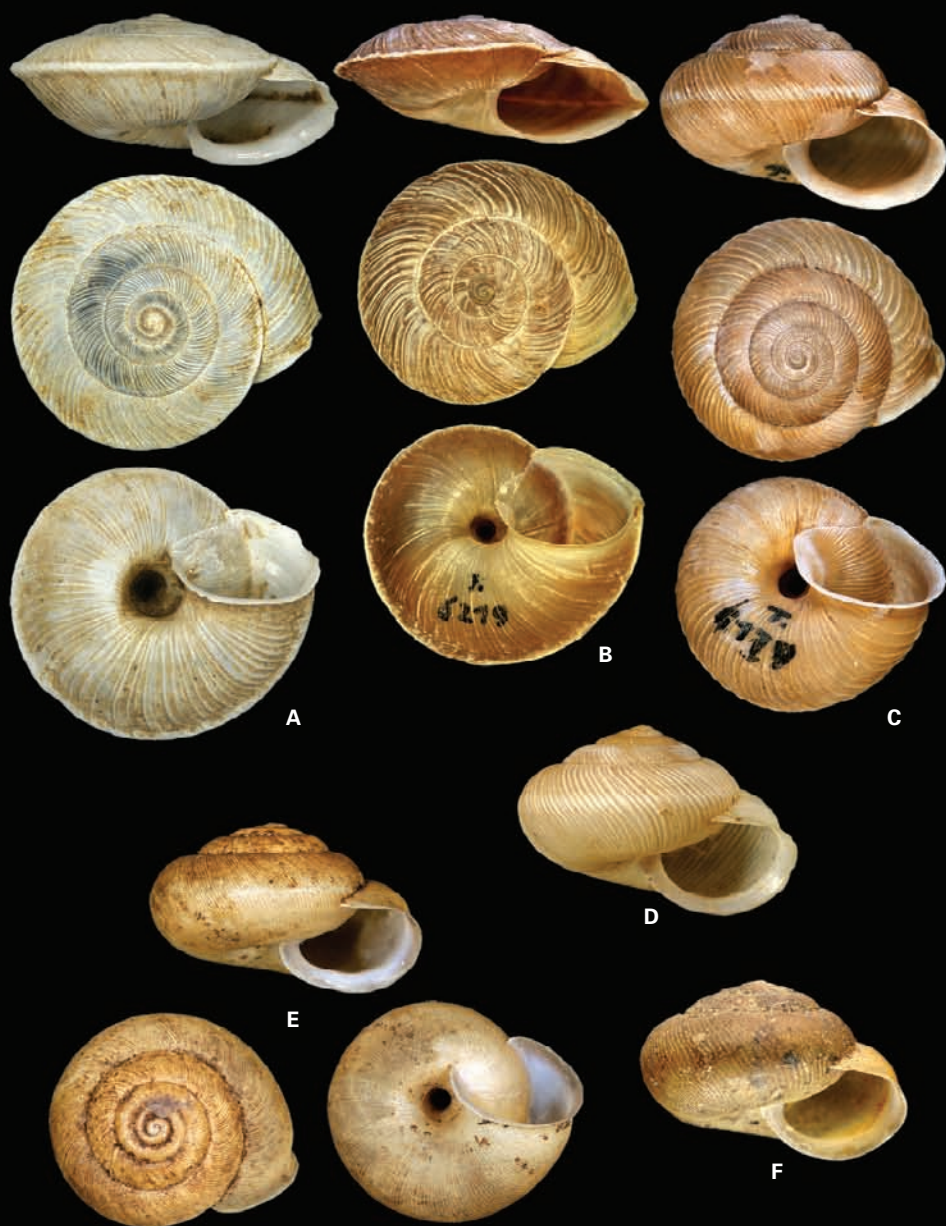


Fig. 137. **A** – *Platytheba mingrelica*, D 21.6 mm; **B** – *Platytheba prometheus*, syntype, D 20.1 mm; **C** – *Oscarboettgeria euages*, syntype, D 18.2 mm; **D** – *Oscarboettgeria euages*, D 18.1 mm; **E** – *Prostenomphalia carpathica*, holotype, D 13.1 mm; **F** – *Prostenomphalia carpathica*, paratype, D 11.2 mm.



Fig. 138. **A** – *Stenomphalia maiae*, holotype, D 15.2 mm; **B** – *Stenomphalia pisiformis*, syntype of *Euomphalia assadovi* Likharev et Rammelmeyer, D13.3 mm; **C** – *Stenomphalia ravergiensis*, syntype, D 16.2 mm; **D** – *Stenomphalia ravergiensis*, D 15.3 mm; **E** – *Stenomphalia selecta*, D 6.8 mm; **F** – *Stenomphalia selecta*, holotype of *Theba chrysomallis* Lindholm, D 10.9 mm.





Fig. 139. A – *Angiomphalia almalensis*, holotype, D 16.8 mm; B – *Angiomphalia caelestimontana*, syntype, D 15.8 mm; C – *Angiomphalia copiosa*, holotype, D 18.6 mm; D – *Angiomphalia copiosa*, paratype, D 21.2 mm; E – *Angiomphalia exasperata*, holotype, D 8.7 mm; F – *Angiomphalia exasperata*, paratype, D 10.5 mm.



Fig. 140. A – *Angiomphalia regeliana*, D 20.0 mm; B – *Angiomphalia seductilis*, syntype; C – *Paedhoplita buamica*, syntype, D 9.3 mm; D – *Paedhoplita kirgisensis*, holotype, D 7.8 mm.



Fig. 141. A – *Paedhoplita lentina*, D 12.3 mm; B – *Paedhoplita lindholmi*, syntype, D 8.0 mm; C – *Paedhoplita laminata*, lectotype, D 8.7 mm; D – *Paedhoplita laminata*, paralectotype, D 6.8 mm; E – *Hesseola bactriana*, D 14.0 mm; F – *Hesseola bactriana*, D 10.7 mm.



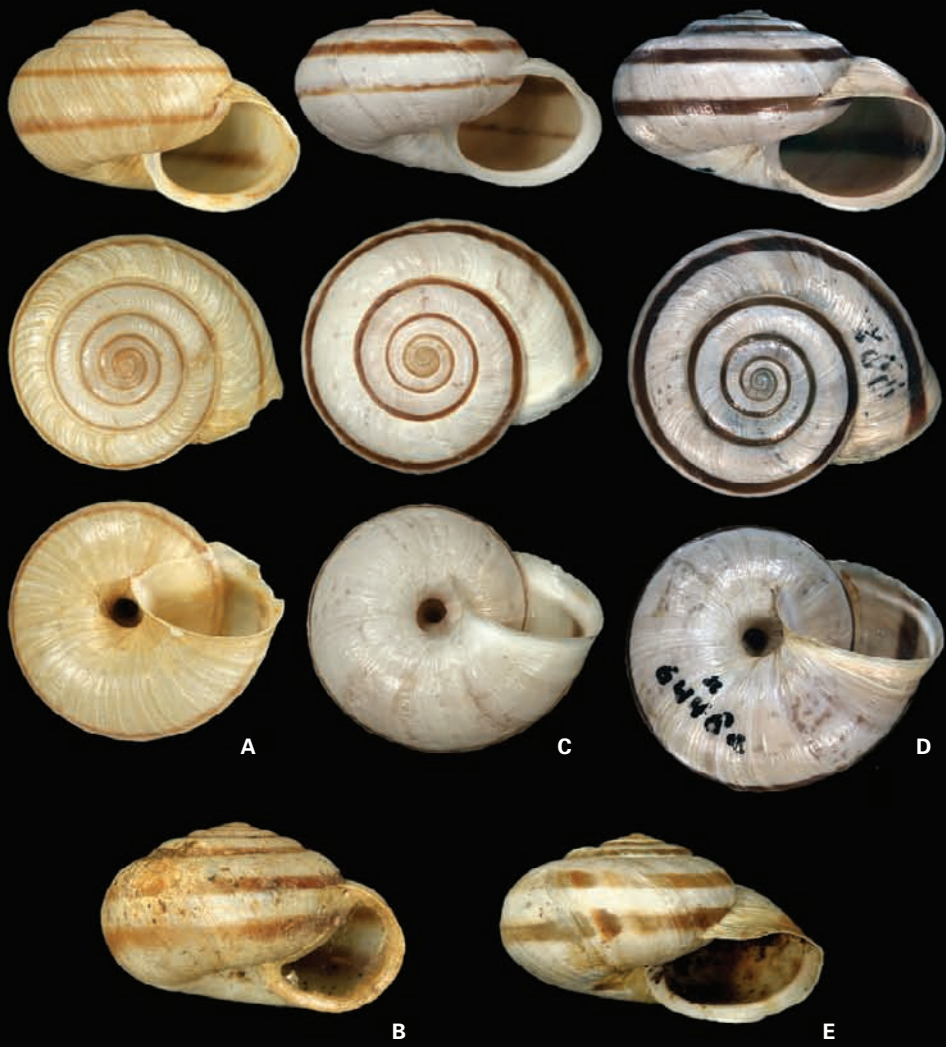


Fig. 142. A – *Hesseola solidior*, D 13.6 mm; B – *Hesseola solidior*, syntype of *Helix adshariensis* Lindholm, 15.6 mm; C – *Caucasocressa ibera*, D 17.8 mm; D – *Caucasocressa joannis*, possible syntype, D 25.0 mm; E – *Caucasocressa joannis*, syntype of *Helix joannis* var. *andronakii* Lindholm, D 22.6 mm.



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**This is the first (since 1952), original and fully colorful account of the entire fauna of terrestrial molluscs of most of the Palearctic. It covers 46 families, 225 genera and 781 species and subspecies. Information on each species-level taxon includes a reference to the original description, complete synonymy, data on the type locality and type material, size, distribution, and, when appropriate, taxonomic and nomenclatural notes. Virtually all of the species are illustrated in color, both the photos and drawings usually being based on the type material from various repositories. The photographs of most of the types are being published for the first time. This is an indispensable tool to anyone interested in land snails and slugs.**

Pensoft *Series Faunistica* No 87

ISSN 1312-0174

First published 2009

ISBN: 978-954-642-474-7 (HB)

ISBN: 978-954-642-475-4 (e-book)

