



THE COLLECTION OF TERRESTRIAL SLUGS (GASTROPODA: PULMONATA) AT THE MUSEUM OF NATURAL HISTORY, WROCŁAW UNIVERSITY (POLAND)

ANDRZEJ WIKTOR¹ & JOLANTA JURKOWSKA²

Museum of Natural History, Wrocław University, Sienkiewicza 21, 50-335 Wrocław, Poland
 (e-mail: ¹awiktor@biol.uni.wroc.pl, ²jurko@biol.uni.wroc.pl)

ABSTRACT: The collection of terrestrial slugs of the Museum of Natural History, Wrocław University, comprises 69 descriptive types as well as material representing 172 species mainly from the Northern Hemisphere.

KEY WORDS: Gastropoda, Pulmonata, terrestrial slugs, type material, Museum of Natural History, Wrocław, Poland

INTRODUCTION

The Museum of Natural History was established in 1814 along with the University of Wrocław then coming into existence. Its original name was Zoological Museum, and precisely "Zoologisches Museum" as it was German. By the mid-20th century the Museum had housed shells both of land and marine snails, but slug specimens had been lacking. In 1962, with the employment of ANDRZEJ WIKTOR, the Museum's malacological collection got enriched with his private collection of gastropods, including slugs, which had been being built for 10 years then. These specimens are labelled as "The collection of Andrzej Wiktor", and their considerable part is composed of slugs from the Polish territory. Since A. WIKTOR started to specialise in slugs (until recently named *Gastropoda terrestria nuda*), the collection of these invertebrates has been incessantly expanding; the material was mostly collected personally by the senior author during his field research in Poland, Bulgaria, Croatia, Bosnia and Herzegovina, Macedonia, Serbia, Greece, Spain, the Caucasus, Turkey, the Canary Isl., Tadzhikistan, China, Tibet and Papua-New Guinea. Also other malacologists, particularly Prof. Dr. habil. ADOLF RIEDEL from Warsaw, contributed to the enlargement of the collection, acquiring slugs specially for this purpose in different parts of the globe. Some

of the Bulgarian materials come from the collection of the late Prof. Dr. habil. JAROSŁAW URBAŃSKI, Poznań, and were offered as a gift by the family of this researcher after his death. In the last half a century, the Museum's malacological section gained abundant materials left by Master's and doctor's students, and also specimens collected occasionally by the employees of this institution. Donations of colleagues, especially A. WIKTOR's co-authors, as well as of private collectors or museums that the author of the present paper identified slugs for, constitute an important part of the Polish collection. These gifts include a series of specimens from the territory of the former USSR which were presented by Prof. I. M. LIKHAREV from Sankt Petersburg.

At present the whole collection of slugs is ordered and nearly all specimens determined. There are, however, rather few specimens, mainly from Poland, without identification labels, which could be used in further research.

The majority of the material is kept in jars, the specimens preserved in 70–75% ethyl alcohol. They are arranged according to families and genera, and within them – alphabetically according to specific names. Types of all categories are excluded from this section of the collection and kept separately in an in-

dividual cabinet (along with the type specimens of other animals). A list of types has already partly been published (JADWICA WIKTOR 1992). At present the collection holds 66 types of slugs.

The whole slug collection comprises 520 jars. The total number of specimens is only roughly estimated, and it is about 43,500.

The specification below provides detailed data on the locality only for the types. In the case of other material, exclusively for better orientation, the country or geographical region of origin of the particular samples are mentioned.

The list of references includes only the papers that are the sources of descriptions of new species, revi-

sions, monographs and larger publications for which the collection concerned constituted voucher material.

ACKNOWLEDGEMENTS

On behalf of the Museum of Natural History and their own, the authors wish to express their sincere thanks to all people who have contributed to the enrichment of the Wrocław slug collection, and whose names, as collectors, are to be found on the labels.

Wrocław, 30th December, 2006

LIST OF SLUGS AT THE COLLECTION OF THE MUSEUM OF NATURAL HISTORY, WROCŁAW UNIVERSITY (STATE AT THE END OF 2006)

Familia ONCHIDIIDAE Rafinesque, 1815

Onchidiidae (unidentified species)

Bahrain, New Guinea

Familia VERONICELLIDAE Gray, 1840

Laevicaulis alte (Férussac, 1821)

Bahrain (including laboratory-bred specimens),
Oahu (Hawaii)

Phylocaulus sp.

Peru

Veronicella sp.

China

Veronicellus sp.

Fiji-Lau Island

Familia RATHOUSIDAE Heude, 1885

Atopus sp.

Papua-New Guinea, Thailand

Familia RYTHIDIDAE Pilsbry, 1893

Schizoglossa sp.

(Unidentified)

Familia ATHORACOPHORIDAE P. Fischer,
1883

Athoracophorus bitentaculus (Quoy et Gaimard, 1832)
New Zealand

Athoracophorus sp.

New Zealand

Familia PHILOMYCIDAE Gray, 1847

Meghimatium bilineatum (Benson, 1842)
Russia, Korea, India, Taiwan, China

Meghimatium pictum (Stoliczka, 1873)

Korea

Meghimatium rugosum (Chen et Gao, 1982) (juv.)

Taiwan

?*Meghimatium striatum* Hesselt, 1823 (juv.)

India

Pallifera hemphilli (Binney, 1885)

U.S.A.

Philomycus carolinianus (Bose, 1802)

U.S.A.

Philomycidae (unidentified species)

Mexico

Familia ARIOPHANTIDAE Godwin-Austen,
1888 (= PARMARIONIDAE Godwin-Austen,
1908)

Ariophantidae (unidentified species)
India

Familia ARIONIDAE Gray, 1840

Arion alpinus Pollonera, 1887
Italy, Slovenia

Arion anguloi Martin et Gomez, 1988

Paratypes! No. MP 609
Berantevilla, Spain

Arion anthracius Bourguignat, 1866
Spain

Arion ater (Linnaeus, 1758)
Spain

Arion baeticus Garrido, Castillejo et Iglesias, 1994

Paratypes! No. MP 639
Puerto del Madrono, Spain



- Arion circumscriptus*** Johnston, 1892
Poland, Hungary, Roumania, Russia, Bulgaria,
Germany, South Africa
- Arion distinctus*** Mabille, 1868
Poland, Latvia, England, Bulgaria, Hungary, New
Zealand, Croatia, Serbia
- Arion fagophilus*** De Winter, 1986
Spain
- Arion fasciatus*** (Nilsson, 1823)
Poland, Bosnia, Croatia, Hungary, Germany
- Arion hessei*** (Simroth, 1894)
Spain
- Arion hispanicus*** Simroth, 1889
Topotypes!
Portugal
- Arion hortensis*** Ferussac, 1819
The Netherlands, England, New Zealand
- Arion intermedius*** (Normand, 1852) (= *minimus*)
Poland, Germany, New Zealand
- Arion iratii*** Garrido, Castillejo et Iglesias, 1995
Paratypes! No. MP 650
Selva de Irati, Spain
- Arion isseli*** (Lessona et Pollonera, 1882)
Sardinia
- Arion lizarrustii*** Garrido, Castillejo et Iglesias, 1995
Paratypes! No. MP 651
Alto de Lizarrustii, Novara, Spain
- Arion lusitanicus*** Mabille, 1848
Poland, Slovenia, Bulgaria, England, The
Netherlands, Germany, France, Spain, Portugal
- Arion molinae*** Garrido, Castillejo, Iglesias, 1995
Paratypes! No. MP 652
La Molina, Catalonia, Spain
- Arion molleri*** Pollonera, 1889
Spain
- Arion ovenii*** Davies, 1979
Great Britain, Ireland (Buncrana)
- Arion paularensis*** Wiktor et Parejo, 1989
Holotype! No. MP 592
Catas al Paular, Sierra de Guadarama Mts., Spain
- Arion rufus*** (Linnaeus, 1758)
Poland, Spain, the Netherlands, Italy
- Arion silvaticus*** Lohmander, 1937
Poland, Bulgaria, Slovenia, Macedonia, Bosnia,
Croatia, Serbia, Montenegro, Herzegovina
- Arion subfuscus*** (Draparnaud, 1805)
Neotype! Lectotype! No. MP 649 (design. Garrido,
Castillejo et Iglesias, 1995)
Montagne Noir, France
Other material: Poland, Latvia, Greece, Slovenia,
Macedonia, Herzegovina, Croatia, Montenegro,
Bulgaria, Hungary, Italy, Spain
- Arion urbiae*** De Winter, 1986
Paratypes! No. MP 590
Urbia, Sierra de Aitzgorri, Spain
- ?***Arion vejvodskyi*** Babor et Kostal, 1894
Germany
- Arion wiktori*** Parejo et Martin, 1990
Paratypes! No. MP 622
Valvanera, Spain
- Geomalacus anguiformis*** (Morelet, 1845)
Spain
- Geomalacus maculosus*** Allmann, 1843
Spain
- Geomalacus malagensis*** Wiktor et Norris, 1991
Holotype and paratypes! No. MP 613
Colmenar, Prov. Malaga, Spain
- Letourneuxia numidica*** Bourguignat, 1866
Morocco
- Familia OOPELTIDAE Cockerell, 1891
- Oopelta nigripunctata*** Mich, 1865
South Africa
- Familia ANADENIDAE Pilsbry, 1948
- Anadenus altivagus*** (Theobald, 1862)
Nepal, Pakistan
- Anadenus (Neoanadenus) gonggashensis*** Wiktor, Chen
et Wu, 2000
- Paratypes!** No. MP 704
Sichuan Prov., China
- Anadenus (Anadenus) nepalensis*** Wiktor, 2001
Holotype and paratypes! No. MP 817
Nepal
- Anadenus (Anadenus) yangtzeensis*** Wiktor, Chen et
Wu, 2000
- Paratypes!** No. MP 705
Sichuan and Yunnan Prov., China
- Familia MILACIDAE Ellis, 1926
- Milax aegaeicus*** Wiktor et Mylonas, 1986
Holotype and paratypes! No. MP 573
Leukes, Amorgos Isl., Greece
Other material: Greece
- Milax altenai*** Forcart, 1972
Greece, Turkey

- Milax ater*** (Collinge, 1895)
Algeria
- Milax barypus*** Bourguignat, 1866 ?
Israel
- Milax caucasicus obscurus*** (Simroth, 1912)
Azerbaijan (Talysh)
- Milax gagates*** (Draparnaud, 1801)
Canary Islands, Spain, Corsica, Italy, Morocco,
Algeria, South Africa
- Milax monstruosus*** Wiktor, 1986
Holotype! No. MP 571
Latakia, Syria
- Milax nigricans*** (Schulz, 1836) (= *insularis*)
Algeria, Spain, Majorca, Corsica, Canary Islands,
Croatia, Malta, Italy, The Netherlands, Turkey
- Milax (Milax) parvulus*** Wiktor, 1968
Holotype and paratypes! No. MP 457
Stara Planina, Iskrec, Bulgaria
- Milax (Tandonia) pinteri*** Wiktor, 1975
(at present = *Tandonia pinteri* (Wiktor, 1975))
Holotype and paratypes! No. MP 468
Rodopi Mts: Čudni Mostove, Bulgaria
- Milax riedeli*** Wiktor, 1968
Holotype! No. MP 572
Iskenderun (=Alexandreta), Turkey
- Milax (Subamalia) totevi*** Wiktor, 1975
(at present = *Tandonia totevi* (Wiktor, 1975))
Holotype and paratypes! No. MP 459
Rodopi Mts, Bulgaria, Kriti
Other material: Bulgaria
- Milax verrucosus*** Wiktor, 1969
Holotype and paratypes! No. MP 460
Stara Planina Mts, Gabrovo, Bulgaria
Other material: Bulgaria
- Tandonia albanica*** (Soós, 1924)
Albania, Macedonia
- Tandonia budapestensis*** (Hazay, 1881)
Poland, Bulgaria, Italy, Macedonia, Serbia, Hungary,
Turkey, Germany, The Czech Republic,
Roumania, New Zealand
- Tandonia bosnensis*** Wiktor, 1986
Holotype and paratypes! No. MP 570
Trebevic Mt., Bosnia and Herzegovina
- Tandonia cavigola*** (Simroth, 1916)
Croatia, Herzegovina, Montenegro
- Tandonia cretica*** (Simroth, 1885)
Greece, Turkey
- Tandonia cristata*** (Kaleniczenko, 1851)
Bulgaria, Crimea, Roumania
- Tandonia fejervaryi*** (Wagner, 1929)
Croatia
- Tandonia kaleniczenkoi*** (Clessin, 1883)
Crimea
- Tandonia kusceri*** (Wagner, 1931)
Bulgaria, Croatia, Macedonia, Serbia
- Tandonia macedonica*** (Rähle, 1974)
Macedonia
- Tandonia melanica*** Wiktor, 1986
Holotype and paratypes! No. MP 569
S of Joanina, Therakison, Greece
- Tandonia pageti*** (Forcart, 1972)
Turkey
- Tandonia piriniana*** (Wiktor, 1975)
Holotype and paratypes! No. MP 468
Pirin, Koprivlen, Bulgaria
- Tandonia rara*** Wiktor, 1996
Holotype and paratype! No. MP 647
Knin, Croatia
- Tandonia reuleauxi*** (Clessin, 1887)
Croatia, Montenegro, Bosnia, Herzegovina
- Tandonia robici*** (Simroth, 1885)
Italy, Slovenia, Croatia
- Tandonia rustica*** (Millet, 1843)
Poland, Italy
- Tandonia serbica*** (Wagner, 1931)
Bulgaria
- Tandonia simrothi*** (Hesse, 1923)
Italy
- Tandonia sowerbyi*** (Férussac, 1823)
Greece, Croatia, Serbia, The Netherlands, Spain,
Italy, Great Britain, Albania, Turkey
- Familia PARMACELLIDAE P. Fischer, 1856
- Candaharia (Levanderia) levanderi*** (Simroth, 1901)
(= *koznakovi*)
Kirghizia, Tadzhikistan
- Candacharia rutelum*** (Hutton, 1849)
Afghanistan, Russia (environs of St. Petersburg),
Pakistan, Kirghizia, Tadzhikistan
- Parmacella (Cryptella) canariensis***, Webb et Berthold,
1833
Canary Islands (Lanzarote Isl.)
- Parmacella deshayesi*** Moquin-Tandon, 1848
Morocco, South Africa
- Parmacella festae*** Gambetta, 1925
Libya
- Parmacella ibera*** Eichwald, 1841
Russia (Caucasus), Azerbaijan



Parmacella tenerifensis Alonso, Ibanez et Diaz, 1985

Paratypes! No. MP 564

La Laguna (Tenerife Isl.), Spain

Parmacella valencienni Web et Vanbenenden, 1836

Spain, Canary Islands

Parmacella sp. – a subfossil shell

Greece

Familia TESTACELLIDAE Gray, 1840

Testacella haliotidea Draparnaud, 1801

Canary Islands

Testacella sp.

Spain, Italy

Familia VITRINIDAE Fitzinger, 1833

(= PLUTONIINAE Cockerell, 1893)

Plutonia atlantica (Morelet, 1860)

Azores

Familia LIMACIDAE Lamark, 1801

Subfamilia LIMACINAE Rafinesque, 1815

Caspilimax keyserlingi (Martens, 1880) (= *kollyi*)
Azerbaijan (Lenkoran – Talysh)

Gigantomilax (Gigantomilax) lederi (Boettger, 1883)
(= *kollyi* – forma)

Georgia, Azerbaijan, Turkey, Adzhariya

Gigantomilax (Monochroma) brunneus (Simroth, 1901)
Armenia

Gigantomilax (Monochroma) lenkoranus Simroth, 1912
Azerbaijan

Gigantomilax (Vitrinoides) ceconii Simroth, 1906
Israel

Gigantomilax (Vitrinoides) dagestanus (Simroth, 1886)
(= *florenskii*)

Turkey

Gigantomilax (Vitrinoides) eustictus Heynemann, 1882
Israel

Gigantomilax (Vitrinoides) majoricensis (Heynemann, 1863)

Neotype! No. MP 999

Barranc d'Algendar (Ferreries, Minorca)

Gigantomilax (Vitrinoides) monticola armeniacus
(Simroth, 1886)

Georgia, Azerbaijan, Turkey

Lehmannia brunneri (Wagner, 1931) (= *Gigantomilax occidentalis*)

Bulgaria, Croatia, Serbia, Montenegro, Macedonia,
Greece

Lehmannia horezia Grossu et Lupu, 1967

Paratypes! No. MP 1003

Vaideeni – Horezu, Roumania

Other material: Bulgaria

Lehmannia janetscheki Forcart, 1966

Italy

Lehmannia jaroslaviae Grossu, 1967

Paratypes! No. MP 664

Jaroslavae – Salutures Arges, Roumania

Other material: Roumania

Lehmannia macroflagellata Grossu et Lupu, 1967

Paratypes! No. MP 1004

Giumalau, Roumania

Other material: Poland

Lehmannia marginata (Müller, 1774)

Poland, Spain, Slovenia, Croatia, Serbia, Bosnia and Herzegovina, Italy

Lehmannia nyctelia (Bourguignat, 1861)

Bulgaria, Poland, Montenegro

Lehmannia rupicola Lessona et Pollonera, 1880

Germany, Spain

Lehmannia szigethyae Wiktor, 1975

Holotype and paratypes! No. MP 456

Galačica, Macedonia

Other material: Greece, Albania, Macedonia

Lehmannia valentiana (Férussac, 1823)

Poland, Spain, Canary Islands, Majorca, Corsica,
Greece, Morocco, The Netherlands, Israel, China

?**Limax (Limax) albipes** Dumont et Mortillet, 1852

Austria

?**Limax (Limax) bielzi** Siebert, 1873

Poland

Limax (Limax) cephalonicus Simroth, 1886

Greece, Macedonia

Limax (Limax) cinereoniger Wolf, 1803

Poland, Bulgaria, Slovenia, Croatia, Serbia, Bosnia,
Macedonia, Montenegro, Roumania, Italy,
Greece

Limax (Limax) conemenosi Boettger, 1882

Bulgaria, Greece, Macedonia, Kosovo, Italy

Limax (Limax) corsicus Moquin-Tandon, 1855

Corsica Isl., Capraia Isl., Sardinia Isl.

Limax (Limax) graecus Simroth, 1889 (= *macedonicus*)
Bulgaria, Greece, Macedonia

Limax (Limax) maximus Linnaeus, 1758

Poland, Spain, Bulgaria, Croatia, Serbia, Bosnia and
Herzegovina, Montenegro, Roumania, Albania,
Greece

- Limax (Limax) maximus altenae* Grossu et Lupu, 1960
Roumania
- Limax (Limax) polipunctatus* Pollonera, 1888
Italy
- Limax (Limax) punctulatus* Sordelli, 1870
Bulgaria
- Limax (Limax) seticus* Wiktor et Bössneck, 2004
Holotyp and paratypes! No. MP 968
Chachour, Prov. Seti, Nepal
- Limax (Limax.) subalpinus* Lessona, 1880
Bulgaria
- Limax (Limax) wohlberedti* Simroth, 1900
Croatia, Herzegovina, Albania
- Limax (Limacus) ecarinatus* (Boettger, 1881)
(= *maculatus* = *grossui*)
Bulgaria, Greece, Ireland, Turkey
- Limax (Limacus) flavus* Linnaeus, 1758
Poland, Bulgaria, Greece, Germany, Croatia,
Macedonia, Hungary, Albania, Spain, Canary
Islands, Majorca, Crimea, Turkey, Azerbaijan,
Brazil, China, New Zealand, Latvia, South Africa
- Malacolimax kostali* Babor, 1894
Herzegovina
- Malacolimax mrazeki* (Simroth, 1904)
Bosnia, Herzegovina, Croatia, Montenegro,
Macedonia, Slovenia
- Malacolimax tenellus* (Müller, 1774)
Poland
- Malacolimax wiktori* Alonso et Ibanez, 1889
Paratypes! No. MP 624
La Laguna (Tenerife Isl.), Spain
- Turcomilax (Michaelisia) natalianus* (Michaelis, 1892)
Dzungaria, Kurdistan, Kirghizia, Kazakhstan
- Turcolimax (Turcolimax) manus* (Simroth, 1901)
Kazakhstan, Kirghizia (Przewalsk), Dzungaria
- Turcomilax (Tanlimax) oli* Wiktor, Naggs et Gupta,
1999
Holotype and paratypes! No. MP 703
Naina Peak, Himalayas, India
- Turcolimax (Tanlimax) turkestanus* (Simroth, 1898)
Kirghizia (Przewalsk)
- Subfamilia BIELZINAE Likharev et Wiktor,
1980
- Bielzia coerulans* (Bielz, 1851)
Poland, Roumania
- Subfamilia EUMILACINAE Likharev et Wiktor,
1980
- Eumilax brandti* (Martens, 1880)
Georgia, Dagestan, Abkhazia, Turkey
- Eumilax brandti salamandroides* (Simroth, 1901)
Caucasus
- Eumilax intermittens* (O. Boettger, 1883) (= *reddei*)
Caucasus (Abkhazia, Karachai-Cherkessia), Iran,
Azerbaijan, Dzungaria
- Metalimax varius* (O. Boettger, 1884)
Caucasus (Abkhazia)
- Familia AGRIOLIMACIDAE H. Wagner, 1935
- Subfamilia AGRIOLIMACINAE H. Wagner, 1935
- Deroceras (Deroceras) adolphi* Wiktor, 1998
Holotype and paratypes! No. MP 668
Moulis near St. Girons, France
- Deroceras (Deroceras) agreste* (Linnaeus, 1758)
Poland, Sweden, Georgia, Hungary, Spain, Bulgaria
- Deroceras (Deroceras) altaicum* Simroth, 1886
Russia (Sakhalin), Caucasus (Kabardino-Balkaria),
Altai Mts, China, Kirghizia, Kazakhstan
- Deroceras (Deroceras) altimirai* Altena, 1969
Spain
- Deroceras (Deroceras) astypalaensis* Wiktor et
Mylonas, 1992
Holotype and paratypes! No. MP 630
Dodecanesos Archipelago, Astipalaia Isl., Greece
- Deroceras (Deroceras) bakurianum* (Simroth, 1912)
Russia (Caucasus – Sochi), Ukraine (Crimea),
Azerbaijan (Baku), Turkey
- Deroceras (Deroceras) barceum* (Gambetta, 1889)
Libya (Cyrenaica)
- Deroceras (Deroceras) berytensis* (Bourguignat, 1852)
Israel, Turkey
- Deroceras (Deroceras) bistimulatum* Wiktor, 2000
Holotype and paratypes! No. MP 629
Pilio Mts., Crete, Greece
- Deroceras (Agrolimax) boeoticum* Wiktor, 1984
(at present = *Deroceras (Deroceras)*)
Holotype and paratypes! No. MP 478
Levadchia, Prov. Voicia, Greece
- Deroceras (Deroceras) callatis* Grossu et Lupu, 1963
Paratypes! No. MP 665
Mangalia, Comarova Wald, Roumania
- Deroceras (Deroceras) cazioti* (Pollonera, 1894)
Corsica



Deroceras (Plathystimulus) cycladicum Wiktor et Mylonas, 1981

(at present = *Deroceras (Deroceras)*)

Holotype and paratypes! No. MP 466
Cyclades, Sikinos, Greece

Deroceras (Deroceras) chrysorrovatensis Rähle, 1984
Cyprus

Deroceras (Deroceras) dallai Giusti, 1970
Italy (Elba Isl.)

Deroceras (Deroceras) damascensis (Germai, 1911)
(? = *berytensis*)
Israel

Deroceras (Deroceras) dewinteri Maassen, 2000
Paratype! No. MP 839
Crete, Greece

Deroceras (Deroceras) ercinae De Winter, 1985
Spain

Deroceras (Deroceras) gavdosensis Wiktor, Vardinoyannis et Mylonas, 1994
Holotype and paratypes! No. MP 632
Gavdos Gavdos Isl., Greece

Derocers (Deroceras) gerasensis Rodriguez, Castillejo et Outeiro, 1989
(at present = *Furcopenis gerasensis*)
Paratypes! No. MP 623
Serra de Geres, Portugal, Spain

Deroceras (Deroceras) giustianum Wiktor, 1998
Holotype and paratypes! No. MP 669
Sicily, Italy

Deroceras (Deroceras) golcheri Altena, 1962
Malta, Corsica

Deroceras (Deroceras) gorgonium Wiktor, Vardinoyannis et Mylonas, 1994
Holotype and paratypes! No. MP 633
Nomos Rethymnis, Crete, Greece

Deroceras (Plathystimulus) hispaniensis Castillejo et Wiktor, 1983
(at present = *Deroceras (Deroceras)*)
Holotype and paratypes! No. MP 473
Galizia, Vidan, Santiago, Spain
Other material: Spain

Deroceras (Deroceras) johanae De Winter et Butot, 1985
Greece

Deroceras (Deroceras) juranum Wütrich, 1993
(= *rodnae*)

Topotypes!
Switzerland

Deroceras (Plathystimulus) karnaniensis Wiktor, 1984
(at present = *Deroceras (Deroceras)*)
Holotype and paratypes! No. MP 477
Karnania, Greece

Deroceras (Deroceras) kasium Rähle, 1993
Greece

Deroceras (Deroceras) keaensis Altena, 1973
Greece

Deroceras (Deroceras) korthionensis Winter et Butot, 1985
Greece

Deroceras (Deroceras) kythirensis Wiktor, Vardinoyannis et Mylonas, 1994

Holotype and paratypes! No. MP 634
Kythira Isl., Greece

Deroceras (Agriolimax) laconicum Wiktor, 1984
(at present = *Deroceras (Deroceras)*)

Holotype and paratypes! No. MP 476
Peloponnesus, Greece

Deroceras (Deroceras) laeve (Müller, 1774)
Poland, Spain, Bulgaria, Sweden, Labrador, Israel, Turkey, Tadzhikistan, China, Taiwan, India, Yakutia, Pakistan, Greece, Macedonia, Croatia, Slovenia, New Guinea, Costa Rica

Deroceras (Deroceras) lasithionensis lasithionensis Wiktor, Vardinoyannis et Mylonas, 1994

Holotype and paratypes! No. MP 635
Crete, Nomos Lasithiou, Greece
Other material: Greece

Deroceras (Deroceras) lasithionensis polylobatum Wiktor, Vardinoyannis et Mylonas, 1994

Holotype and paratypes! No. MP 636
Crete, Nomos Lasithiou, Greece
Other material: Greece

Deroceras (Deroceras) libanoticum (Pollonera, 1909)
Israel

Deroceras (Deroceras) lombricoides (Morelet, 1845)
Spain

Deroceras (Deroceras) lothari Giusti, 1971
Bulgaria, Italy, Hungary, Croatia, Slovenia, Austria

Deroceras (Deroceras) malkini Wiktor, 1984
Holotype and paratypes! No. MP 475
Hios, Thymiana, Greece
Other material: Greece

Deroceras (Deroceras) maasseni Wiktor, 1996

Paratype! No. MP 648
Valley of the Tara River, Montenegro
Other material: Serbia

Deroceras (Plathystimulus) melinum Wiktor et Mylonas, 1981

(at present = *Deroceras (Deroceras)*)
Holotype and paratypes! No. MP 464
Milos Isl., Greece

Deroceras (Deroceras) minicum Wiktor,
Vardinoyannis et Mylonas, 1994

Holotype and paratypes! No. MP 637
Crete, Nomos Rethymnis, Greece
Other material: Greece (Crete)

Deroceras (Deroceras) neutoboomi Forcart, 1972
Greece

Deroceras (Deroceras) nitidum (Morelet, 1845)
Spain

Deroceras (Deroceras) nyphoni De Winter et Butot,
1986

Paratypes! No. MP 607
Sporades, Skiantos, Greece
Other material: Greece

Deroceras (Deroceras) oertzeni (Simroth, 1889)
Greece

Deroceras (Deroceras) osseticum (Simroth, 1901)
Batumi, Turkey

Deroceras (Deroceras) pageti Grossu, 1972
Bulgaria, Greece

Deroceras (Deroceras) panormitanum (Lessona et
Pollonera, 1882) (= *caruanae*)
Spain, The Netherlands, Greece, Bulgaria, Slovakia,
South Africa, Austria, Poland, Germany, Italy,
Juan Fernandez, New Zealand

Deroceras (Plathystimulus) parium Wiktor et Mylonas,
1981

(at present = *Deroceras (Deroceras)*)

Holotype and paratypes! No. MP 465
Paros Isl., Greece

Deroceras (Agrolimax) parnassium Wiktor, 1984
(at present = *Deroceras (Deroceras)*)

Holotype and paratypes! No. MP 474
Parnas, Arakora, Greece
Other material: Greece

Deroceras (Deroceras) planarioides Simroth, 1910
(= *rivanus*)
Italy

Deroceras (Deroceras) praecox Wiktor, 1966

Holotype and paratypes! No. MP 461
Biskupia Kopa Massif, Opawskie Mts., Poland
Other material: Poland

Deroceras (Plathystimulus) pseudopanormitanum
Wiktor, 1984

(at present = *Deroceras (Deroceras)*)

Holotype and paratypes! No. MP 521
Tymfi, N of Joannina, Greece
Other material: Greece

Deroceras (Deroceras) rethimnonensis De Winter et
Butot, 1986
Greece, Turkey

Deroceras (Deroceras) reticulatum (Müller, 1774)
Poland, Bulgaria, Germany, Spain, Canary Islands,
Slovenia, Croatia, Montenegro, Macedonia,
Karachai-Cherkessia (Caucasus), Italy, New
Zealand, South Africa

Deroceras (Deroceras) ridelianum Wiktor, 1983

Holotype and paratypes! No. MP 470
Skikda, Algeria

Deroceras (Deroceras) rodnae Grossu et Lupu, 1965
Poland, Slovakia (Mala Fatra), Roumania
(Dobrudja), Croatia, Germany, Spain, Hungary,
Austria, Italy

Deroceras (Deroceras) romanicum Grossu et Lupu,
1959 (= *sturanyi*)

Hungary

Deroceras (Deroceras) samium Rähle, 1983
Greece

Deroceras (Deroceras) schleschi Grossu et Lupu, 1961
Specimen sent by Grossu as paratype, the label does
not agree with the list of paratypes – see Arch.
Mol. 1961, 90: 24

Deroceras (Plathystimulus) seriphium Wiktor et
Mylonas, 1981

(at present = *Deroceras (Deroceras)*)

Holotype and paratypes! No. MP 467
Serifos, Kentarchos, Greece
Other material: Greece

?***Deroceras (Deroceras) steindachneri*** Wagner, 1931
(= *berytensis*)

Turkey

Deroceras (Deroceras) sturanyi (Simroth, 1894)
Poland, Gotland, Bulgaria, Macedonia, Croatia,
Bosnia, Montenegro, Serbia, Slovenia, Hungary,
Austria

Deroceras (Deroceras) subagreste (Simroth, 1892)
Abkhazia

Deroceras (Deroceras) thersites (Simroth, 1886)
Bulgaria

Deroceras (Deroceras) turicum (Simroth, 1901)
(= *wiktori* = *forcarti*)

Poland, Greece, Turkey, Crimea, Bulgaria, Croatia,
Montenegro, Bosnia, Macedonia, Serbia,
Herzegovina, Slovenia, The Czech Republic,
Albania, Turkey

Deroceras (Krynickillus) urbanskii Wiktor, 1971

(at present = *Krynickillus urbański*)

Holotype and paratypes! No. MP 455
Stara Planina, Bulgaria
Other material: Bulgaria

Deroceras (Deroceras) vascoana De Winter, 1986

Paratypes! No. MP 608

Navarra, Alto de Lizzarusti, Spain



- Deroceras (Deroceras) zilchi* Grossu, 1969
Bulgaria
- Deroceras (Liolytopelte) bureschi* (Wagner, 1934)
Bulgaria
- Deroceras (Liolytopelte) caspium* (Simroth, 1901)
Armenia
- Deroceras (Liolytopelte) caucasicum* (Simroth, 1901)
Armenia, Georgia, Kabardino-Balkaria (Caucasus),
Tadzhikistan
- Deroceras (Liolytopelte) moldavicum* (Grossu et Lupu,
1961)
Poland
- Deroceras (Liolytopelte) trabzonensis* Wiktor, 1994
Holotype and paratypes! No. MP 612
Trabzon, Turkey
- Furcopenis circularis* Castillejo et Moscato, 1987
Paratype! No. MP 610
Montefurado, Lugo, Spain
- Furcopenis darioi* Castillejo et Wiktor, 1983
Holotype and paratypes! No. MP 471
Bosque los Cabaninos los Ancares, Spain
Other material: Spain
- Furcopenis gallaeciensis* Castillejo et Wiktor, 1983
Holotype and paratypes! No. MP 472
Galicia, Spain
Other material: Spain
- Lytopelte maculata* (Koch et Heynemann, 1874)
Tadzhikistan, Ferganski Hrebiet
- Krynickillus melanocephalus* Kaleniczenko, 1851
Georgia, Latvia, Germany, Karachai-Cherkessia
(Caucasus), Kabardino-Balkaria (Caucasus)
- Krynickillus urbanskii* (Wiktor, 1971)
See: *Deroceras (Krynickillus) urbanskii*
- Megalopelte simrothi* Lindholm, 1914
Turkey, Adzharia
- Toxolimax hoplites* Simroth, 1899
Turkey
- Subfamilia MESOLIMACINAE Hausdorf, 1998
- Mesolimax brauni* Pollonera, 1888
Greece, Turkey
- Mesolimax escherichi* Simroth, 1899
Turkey
- Familia BOETTGERILLIDAE Wiktor et
Likharev, 1980
- Boettgerilla pallens* Simroth, 1912
Poland, Turkey
- Boettgerilla vermiformis* Wiktor, 1959
Lectotype and paralectotypes! No. MP 462
Międzygórze, Poland
See: WIKTOR 1960
- Familia PAPILLODERMATIDAE Wiktor, Martin
et Castillejo, 1999 (= PAPILLODERMIDAE)
- Papilloderma altonagai* Wiktor, Martin et Castillejo,
1990
Holotype and paratypes! No. MP 599
Asturias, Covadonga, Spain
- Familia TRIGONOCHLAMYDIDAE Hesse, 1882
- Hyrcanolestes velitaris* (Martens, 1880) (= *bicolor*)
Azerbaijan
- Selenochlamys pallida* Boettger, 1883
Turkey
- Trigonochlamys imitatrix* (Martens, 1880)
Turkey

REFERENCES

- ALONSO R., IBANEZ M., DIAZ J. A. 1985. A new slug from Canary Islands (Pulmonata: Parmacellidae). Arch. Moll. 116: 57–65.
- CASTILLEJO J., MASCATO R. 1987. Morphology and anatomy of new species of *Furcopenis* (Gastropoda, Pulmonata, Agriolimacidae). Monitore zool. ital. (N.S.) 21: 33–40.
- CASTILLEJO J., WIKTOR A. 1983. *Furcopenis* gen. n. with its two new species and a new *Deroceras* species from Spain (Gastropoda, Pulmonata, Agrolimacidae). Malak. Abh. 9: 1–16.
- DRAPARNAUD J. P. R. 1805. Histoire naturelle des mollusques terrestres et fluviatiles de la France. Paris.
- GARRIDO C., CASTILLEJO J., IGLESIAS J. 1994. Description of *Arion baeticus* spec. nov. from Iberian Peninsula (Gastropoda: Pulmonata: Arionidae). Malak. Abh. 17: 37–45.
- GARRIDO C., CASTILLEJO J., IGLESIAS J. 1995. The *Arion subfuscus* complex in the eastern part of the Iberian Peninsula, with redescription of *Arion subfuscus* (Draparnaud, 1805) (Gastropoda, Pulmonata, Agrolimacidae). Arch. Moll. 124: 103–118.
- GROSSU A. 1969. Beschreibung einiger neuer *Deroceras* Arten (Gastropoda, Limacidae). Arch. Moll. 99: 157–170.
- GROSSU A., LUPU D. 1961a. Revizuirea speciilor genului *Milax* Gray, 1855 existente in România. An. Univ. C. I. Parhon, Ser. Științ. Nat. (Biol.), 28: 127–148.
- GROSSU A., LUPU D. 1961b. Zwei neue Arten der Gattung *Deroceras* Rafinesque, 1820. Arch. Moll. 90: 21–25.

- GROSSU A., LUPU D. 1962a. Contributions a la connaissance du Genre *Lehmannia* Heynemann (Gastropoda, Limacidae). *Journ. Conchyl.* CVI, fasc. 4: 119–128.
- GROSSU A., LUPU D. 1962b. Zur Kenntnis der Gattung *Lehmannia* Heynemann (Limacidae) und deren grosse Variabilität, nebst Beschreibung neuer Arten. *Arch. Moll.* 91: 191–201.
- GROSSU A., LUPU D. 1963. Varibilité du genre *Deroceras* (fam. Limacidae, Gasteropodes terrestres) et description d'une nouvelle espèce. *Travaux du Museum d'Histoire Naturelle "Grigoei Antipa"* 4: 193–200.
- LESSONA M., POLLONERA C. 1882. Monografia dei Limacidi Italiani. Torino.
- MAASEN W. J. M. 2000. *Deroceras dewinteri* spec. nov. from island of Crete, Greece (Gastropoda, Pulmonata, Agriolimacidae). *Basteria* 64: 125–126.
- MARTIN R., GOMEZ B. J. 1988. A new slug from the Iberian peninsula: *Arion anguloi* n. sp. (Pulmonata: Arionidae). *Arch. Moll.* 118: 167–174.
- PARJO C., MARTIN R. 1990. *Arion wiktori* sp. n. from Iberian Peninsula (Gastropoda, Pulmonata: Arionidae). *Malak. Abh.* 15: 25–35.
- RODRIGUEZ T., CASTILLEJO J., OUTEIRO A. 1989. Morphology and anatomy of new Iberian species: *Deroceras gerasensis* (Gastropoda: Pulmonata: Agriolimacidae). *The Veliger* 32: 95–100.
- SIMROTH H. 1886. Weitere Mitteilungen über palaearktische Nacktschnecken. *Malak. Jahrb.* 13: 16–34.
- URBAŃSKI J., WIKTOR A. 1968. Beiträge zur Kenntnis Bulgarischer Nacktschnecken (Moll., P. pulm.) (Systematische, Zoogeographische und Ökologische studien über die Mollusken der Balkan-Halbinsel. VIII). *Bull. Soc. Amis Sci. Lett. Poznań Ser. D* 8: 47–95.
- WIKTOR A. 1960. Description of *Boettgerilla vermiciformis* Wiktor (Mollusca, Pulmonata). *Bull. Soc. Amis Sci. Lett. Poznań Ser. D* 1: 151–156.
- WIKTOR A. 1961. Materialien zur Kenntnis der Gattung *Boettgerilla* Simroth, 1910 (Gastropoda, Limacidae). *Ann. Zool.* 19: 125–145.
- WIKTOR A. 1966. Eine neue Nacktschnecken-Art (Gastropoda, Limacidae) aus Polen. *Ann. Zool.* 23: 449–457.
- WIKTOR A. 1968. Eine Nacktschnecke *Milax (Milax) parvulus* Wiktor, 1968 aus Bulgarien (Mollusca, Pulmonata) Neubeschreibung. *Bull. Acad. Pol. Sci., Sér. sci. biol.* 16: 419–422.
- WIKTOR A. 1969. *Milax verrucosus* sp. n., eine neue Nacktschnecke aus Bulgarien (Mollusca, Pulmonata). *Bull. Acad. Pol. Sci., Sér. sci. biol.* 17: 47–49.
- WIKTOR A. 1971. Die von der Niederländischen Biologischen Expedition in die Türkei in 1959 gesammelten Nacktschnecken (Milacidae und Limacidae, Pulmonata) mit Beschreibung einer neuen *Deroceras*-Art aus dem Balkan-Gebiet und Türkei. *Zool. Meded.* 45: 261–280.
- WIKTOR A. 1973. Die Nacktschnecken Polens, Arionidae, Milacidae, Limacidae (Gastropoda, Stylommatophora). *Monogr. Fauny Polski* 1. PWN, Warszawa–Kraków.
- WIKTOR A. 1975. New slug species (Pulmonata: Milacidae and Limacidae) from the Balkan Peninsula. *Ann. Zool.* 33: 77–91.
- WIKTOR A. 1982. Contributions to the knowledge of the slugs of Yugoslavia (Arionidae, Milacidae, Limacidae, Agriolimacidae – Gastropoda, Pulmonata). *Ann. Zool.* 36: 465–489.
- WIKTOR A. 1983a. The slugs of Bulgaria (Arionidae, Milacidae, Limacidae, Agriolimacidae – Gastropoda, Stylommatophora). *Ann. Zool.* 37: 71–206.
- WIKTOR A. 1983b. Some data on slugs of Morocco and Algeria with description of new *Deroceras* species (Gastropoda, Pulmonata). *Malak. Abh.* 8: 155–166.
- WIKTOR A. 1983c. Parmacellidae of the Mediterranean Area and Canary Islands (Gastropoda, Pulmonata). *Malak. Abh.* 9: 81–96.
- WIKTOR A. 1984. Six *Deroceras* species from Greece, new for science (Gastropoda, Pulmonata: Agriolimacidae). *Malak. Abh.* 9: 151–164.
- WIKTOR A. 1986. New for science Milacidae (Mollusca, Pulmonata). *Malak. Abh.* 11: 155–165.
- WIKTOR A. 1987a. Spermatophores in Milacidae and their significance for classification (Gastropoda, Pulmonata). *Malak. Abh.* 12: 85–100.
- WIKTOR A. 1987b. Milacidae (Gastropoda, Pulmonata) – systematic monograph. *Ann. Zool.* 41: 153–319.
- WIKTOR A. 1994. Contribution to the knowledge of the slugs of Turkey (Gastropoda terrestria nuda). *Arch. Moll.* 123: 1–47.
- WIKTOR A. 1996. The slugs of the former Yugoslavia (Gastropoda terrestria nuda – Arionidae, Milacidae, Limacidae, Agriolimacidae). *Ann. Zool.* 46: 1–110.
- WIKTOR A. 1998. Two new for science *Deroceras* species from France and the Italian island of Sicily (Gastropoda: Pulmonata: Agriolimacidae). *Malak. Abh.* 19: 13–19.
- WIKTOR A. 2000. Agriolimacidae (Gastropoda: Pulmonata) – a systematic monograph. *Ann. Zool.* 49: 347–590.
- WIKTOR A. 2001. A review of Anadenidae (Gastropoda: Pulmonata) with a description of a new species. *Folia Malacol.* 9: 3–26.
- WIKTOR A., BÖSSNECK U. 2004. *Limax (Limax) seticus* n. sp. from high mountains in Nepal (Gastropoda: Pulmonata: Limacidae). *Folia Malacol.* 12: 183–187.
- WIKTOR A., CASTILLEJO J. 1987. *Deroceras lombricoides* (Morelet, 1845) and *Deroceras malzani* (Simroth, 1885) with their synonymy (Gastropoda, Pulmonata, Agriolimacidae). *Malak. Abh.* 12: 13–19.
- WIKTOR A., CHEN DE-NIU, WU MING. 2000. Stylommatophoran slugs of China (Gastropoda: Pulmonata) – Prodromus. *Folia Malacol.* 8: 3–35.
- WIKTOR A., MARTIN R., CASTILLEJO J. 1990. A new slug family Papillodermidae with description of a new genus and species from Spain. *Malak. Abh.* 15: 1–18.
- WIKTOR A., MIENIS H. K. 2006. Redescription of *Deroceras libanoticum* (Pollonera, 1909) (Mollusca: Pulmonata: Agriolimacidae). *Folia Malacol.* 14: 31–34.
- WIKTOR A., MILANI N. 1995. Contribution to the knowledge of two scarcely known Alpine slugs, *Tandonia simrothi* (Hesse, 1923) and *Deroceras planarioides* (Simroth, 1910) (Gastropoda: Pulmonata: Milacidae et Agriolimacidae). *Malak. Abh.* 17: 151–160.



- WIKTOR A., MYLONAS M. 1981. New *Deroceras* species from Cyclades Islands (Greece) (Gastropoda, Pulmonata, Agriolimacidae). *Malak. Abh.* 7: 183–193.
- WIKTOR A., MYLONAS M. 1986. *Milax aegaeicus* n. sp. from Cyclades (Gastropoda, Pulmonata, Milacidae). *Malak. Abh.* 11: 147–153.
- WIKTOR A., MYLONAS M. 1992. *Deroceras astypalaenensis* n. sp. from the Greek island Astypalaia (Dodecanesos) (Gastropoda, Pulmonata: Agriolimacidae). *Malak. Abh.* 16: 1–6.
- WIKTOR A., NAGGS F., GUPTA P. K. 1999. *Turcomilax (Taulimax) oli* sp. n. from the Kumaun Himalaya, India (Gastropoda: Pulmonata: Limacidae). *Malak. Abh.* 19: 225–231.
- WIKTOR A., NORRIS A. 1991. *Geomalacus malagensis* sp. n. and some remarks concerning generic level systematics of Arionidae (Gastropoda: Pulmonata). *J. Conch.* 34: 19–29.
- WIKTOR A., PAREJO C. 1989a. *Geomalacus (Arrudia) anguiformis* (Morelet, 1845) its morphology and distribution (Gastropoda, Pulmonata: Arionidae). *Malak. Abh.* 14: 17–25.
- WIKTOR A., PAREJO C. 1989b. *Arion (Kobeltia) paulariensis* sp. n. from Central Spain (Gastropoda, Pulmonata: Arionidae). *Malak. Abh.* 14: 27–33.
- WIKTOR A., QUINTANA J., BECKMANN K. H. 2007. Redescription of *Limax majoricensis* (Heynemann 1863) (Gastropoda: Pulmonata: Limacidae) from Balearic Islands. In: *Die Land- und Süßwassermollusken der Baleareninseln* (BECKMANN K. H. ed.), pp. 187–197, ConchBooks, Hackenheim.
- WIKTOR A., VARDINOYANNIS K., MYLONAS M. 1994. Slugs of the Greek Southern Aegean Islands (Gastropoda terrestria nuda: Milacidae, Agriolimacidae et Limacidae). *Malak. Abh.* 17: 1–36.
- WIKTOR J. 1992. Type specimens of invertebrates (excluding insects) in the Władysław Rydzewski Museum of Natural History Wroclaw University. *Acta Univ. Wratislaviensis* 23 (Prace zoologiczne) 1124: 137–155.
- WINTER A. J. DE 1986. Little known and new south-west European slugs (Pulmonata: Agriolimacidae, Arionidae). *Zool. Meded.* 60: 135–158.
- WINTER A. J. DE, BUTOT L. J. M. 1986. Three new *Deroceras* species from Greece (Gastropoda, Pulmonata, Agriolimacidae). *Basteria* 50: 35–44.
- WÜTRICH M. 1993. *Deroceras (Plathystimulus) juranum* n. sp. eine endemische Nacktschnecke aus dem Schweizer-Jura. *Arch. Moll.* 122: 123–131.

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