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Palaeontologica**

Distribution of Land Snails *Pomatias elegans* (O. F. Müller, 1774) and *Pomatias rivulare* (Eichwald, 1829) (Mollusca: Gastropoda) in Yugoslavia

Museologica

Razširjenost kopenskih polžev *Pomatias elegans* (O. F. Müller, 1774) in *Pomatias rivulare* (Eichwald, 1829) (Mollusca: Gastropoda) v Jugoslaviji

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1. Introduction

In many European countries the UTM distribution maps of land Mollusca have already been completed, representing a basis for the preparation of UTM maps for Europe. Few authors indicate localities of land snails with reference to their UTM co-ordinates in the territory of Yugoslavia (MAASSEN 1984, 1985, 1985a, 1985b, 1985c, 1985d, 1987, 1988, 1989; ŠTAMOL 1986, 1989) so this paper is one of the first attempts at UTM mapping based on a 10×10 kilometre square grid for the territory of Yugoslavia.

Two systematically related species but different by their range were investigated: the Mediterranean-west-European *Pomatias elegans* and Pontus-northeast-Balkanite *Pomatias rivulare*. As far as the range is concerned, it was interesting to determine whether the two species have any common distribution areas in Yugoslavia.

The distribution of the species *Pomatias elegans* in the territory of Yugoslavia was included during the UTM mapping for Europe, using a 50×50 kilometre square grid (KERNEY 1976:246). It is interesting to compare the results of both maps.

2. Materials and Methods

In an endeavor to gather as many data as possible, the malacological collections of the Natural History Museum of Slovenia in Ljubljana (Lj), Croatian Natural History Museum in Zagreb (Z), Regional Museum of Bosnia and Herzegovina in Sarajevo (Sa), Natural History Museum in Belgrade (B), Natural History Museum of Macedonia in Skopje (Sk), Biological Institute »Jovan Hadži« ZRC SAZU (JB – collection of J. Bole), and the private collections of Ivica Lajtner (IL), W. J. M. Maassen (WM) and France Velkovrh (FV), as well as the literature available were examined. For the data obtained (localities) allocation to corresponding 10×10 kilometre UTM square was determined by using the UTM-gridded maps of the world on a scale of 1:500000 (GSGS, IGMI, series 1404, 1959-1973), UTM-gridded maps of the S.R. Slovenija on a scale of 1:400000 (1981), the topographic maps of the SFRY on a scale of 1:50000, Jugoslavija-autoatlas, (s.a.) on a scale of 1:500000, Jadran-atlas, (1964), ĐORĐEVIĆ et al. 1956, KORENČIĆ 1979, MILOŠEVIĆ 1976.

3. Acknowledgements

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4. Results

4.1. Lists of UTM squares and localities

The list of UTM squares is given for each species separately. For each square the localities (in alphabetical order) and the date of the find (if known) are given. The data

source, stated in parentheses, consists of an inventory number² and an abbreviation showing the malacological collection such as indicated in the paragraph »Materials and Methods«. Minor localities are identified through larger, generally those to be found in the Autoatlas of SFRY (Jugoslavija-autoatlas, s.a.). The data from Maassen's collection are original.

A list of data from the literature is given for each UTM square separately in the same alphabetical order of localities. The locality is indicated by quoting and in parentheses the explanation of the respective locality is given. An interrogation mark in front of a locality designation means that the respective UTM allocation could not be determined with certainty.

4.1.1. *Pomatias elegans* – List of localities

UK89

Materials: Golopon Is.³ (=Galopun), Rovinj, 1956, (825-JB).

UK98

Materials: Gustinja Is., Rovinj, 1956, (765, 783, 784-JB); -Kolone Is., Rovinj, 04.1959, (1508-JB), 04.1967, (3927-JB); -Rivera Is., (=Revera), Rovinj, 1956, (812-JB); -Sestrica Mala Is., Rovinj, 1956, (802-JB); -Sestrica Velika Is., Rovinj, 08.04.1959, (1512-JB).

UK99

Materials: Asino Is., Rovinj, 1956, (764-JB); -Banjol Is., Rovinj, (50-FV), 1952, (157-JB), 1956, (796-JB); -Figarola Is., Rovinj, (46-FV), 1956, (761-JB); -Kuvrsada Is., Rovinj, 1956, (763-JB); -Pirozo Vel. (=Piruzi) Is., Rovinj, 08.04.1959, (1511-JB); -Rovinj, (16-FV), 04.1967, (3916-JB); -Sv. Katarina Is., Rovinj, 20.05.1979, (GC4894-Z).

References: Insel Bagnole (=Banjol Is., Rovinj) (WAGNER, 1939:98); -Insel Figarole (=Figarola Is., Rovinj) (WAGNER 1939:98); -Rovigno (=Rovinj) (WAGNER 1939:98; JAECKEL, MEISE 1956:28).

UL80

Materials: Altež Is. (=Altijež), Rovinj, 1956, (794-JB); -Barbar Is., Rovinj, 17.04.1967, (4584-JB); -Bili Školj Is., Rovinj, 13.04.1967, (3894-JB); -Čavata Is., Rovinj, 1956, (833-JB); -Fržital Is., Rovinj, 1956, (817-JB); -Goliner Is. (=Galiner), Rovinj, 1956, (790-JB); -Orada Is., Rovinj, 04.1967, (3904-JB); -Sv. Nikola Is., Poreč, 17.04.1967, (4588-JB); -Školj Is., Vrsar, 04.1959, (1500-JB); -Školjić Is., Rovinj, 04.1967, (3949-JB); -Tovarež Is. (=Tovarjež), Rovinj, 1956, (766-JB); -Tuf Is., 04.1959, (1507-JB).

UL81

Materials: Novigrad, Istra, 04.1975, (15314-FV).

UL83

Materials: Soline, Sečovlje, Piran, 09.1966, (4071-FV).

UL84

Materials: Beli Križ, Piran, 09.1969, (9038-FV), 29.08.1977, (12292-JB); -Portorož, (3149-FV), 09.1956, (915-JB), 1965, (11360-FV), 09.1969, (9115-FV).

² Letters that make part of the inventory numbers of the collections from the Croatian Natural History Museum in Zagreb are abbreviations of single collections: RC Rossi's collections; BC Brusina's collection; GC general collection. ³ Is. = island

UL89

Materials: Dobrovo, Šmartno, Nova Gorica, 04.1972, (19747-FV); -Gonjače, Šmartno, Nova Gorica, 04.1972, (19772-FV).

UL90

Materials: Figera Is., Rovinj, 1956, (805-JB); -Vrsar, 1971, (18791-FV).

UL91

Materials: Veli Maj, Poreč, 14.04.1967, (4618-JB).

UL92

Materials: Sv. Dionizij, Novigrad, Istra, 23.08.1970, (5240-JB).

UL93

Materials: Kaštel, river Dragonja, Buje, 06.03.1978, (13260-JB); -Marušići, Buje, 25.03.1967, (4576-JB); -Sečovlje, Piran, 08.1970, (13036-FV), 09.1971, (18196-FV), 08.1973, (24248, 25082-FV).

UL94

Materials: Fijesa, Piran, 08.1974, (26689-FV); -Šalara (=Salara), Koper, 06.1974, (26328, 35295-FV); -Strunjan, Piran, 08.1971, (16675-FV), 08.1972, (20195-FV).

UL97

Materials: Klariči, Brestovica, 1977, (38112-FV).

UL98

Materials: Stream Vogršček (=Vogeršček), Vogrsko, Nova Gorica, 09.03.1982, (19856-JB); -Vogrsko, 2 km N, Nova Gorica, 09.03.1982, (19834-JB).

UL99

Materials: Skalnica Mt.⁴, Solkan, 1962, (2006-JB); -Solkan, (186-FV), 04.1977, (36301-FV), 07.1980, (44573-FV).

UM72

Materials: Breginj, Kobarid, 1985, (B).

UM80

Materials: Vrhovlje, Brda region, 04.1972, (19676, 19741-FV).

UM82

Materials: Borjana, Kobarid, 04.1971, (FV); -Podbela, Breginj, (20273-JB), 19.04.1982, (20255-JB); -Potoki, Kobarid, 04.04.1970, (5208-JB), 04.1971, (15077, 15298-FV); -Robič, Kobarid, 04.08.1968, (4662-JB), 04.1971, (15352-FV), 05.1971, (15432-FV), 05.1975, (17245-FV), 21.07.1982, (20300-JB); -Robič, 1 km t. z., 09.1982, (WM).

References: 1 km. ten zuiden van Robic (=Robič) (MAASSEN 1984:161, 1985:133).

UM83

Materials: Učja (=Učje or Učja)-Bovec, 21.09.1969, (4764-JB).

UM90

Materials: Doblar, Kanal, 04.1972, (19710-FV).

UM91

Materials: Čiginj, Tolmin, 04.1977, (44884-FV).

⁴ Mt. = mountain

⁵ Iss. = islands

References: Čunski, Lošinj Is. (RUCNER D. & R. 1971:140); -Lošinj (=Mali Lošinj, Lošinj Is.?) (ILJANIĆ, STOŠIĆ 1972:19).

VK54

Materials: Grmozaj (=Garmozaj), Cres Is., 09.1971, (16659-FV); -Kampa, Osor, Cres Is., 20.07.1983, (GC4959-Z); -Osor, Cres Is., 09.1971, (16760-FV), 20.07.1983, (GC4930, GC4960-Z); -Slatina, Osor, Cres Is., 20.07.1983, (GC4929-Z); -Sv. Štefan, opposite of Osor, Lošinj Is., 09.1971, (18151-FV), 10.1980, (18153-JB).

References: Osor-Garmozaj, Cres Is. (RUCNER D. & R. 1971:137).

VK55

Materials: Konjič Mt., Štivan, Cres Is., 20.07.1983, (GC4957-Z); -Osor, 3 km N, Cres Is., 08.04.1980, (37056-JB).

VK56

Materials: Hrib, Vransko jezero, Cres Is., 21.07.1983, (GC4931-Z); -Cape Okladi, Orlec, Cres Is., 08.05.1987, (GC4942-Z); -Orlec, 2,5 km SSE, Cres Is., 08.05.1987, (GC4943-Z); -Strašna draga, Vransko jezero, Cres Is., 06.05.1987, (GC4962-Z); -Vransko jezero-SE part, Cres Is., 21.07.1983, (GC4961-Z).

VK57

Materials: Cres, Cres Is., 05.05.1987, (GC4940-Z); -Sv. Bartolomeo, Cres, Cres Is., 23.07.1983, (GC4941-Z); -Vela Draga, Cres Is., 21.07.1983, (GC4932-Z).

References: Merag, Cres Is. (RUCNER, D. & R., 1971:137).

VK58

Materials: Cresnjavica Mt., Cres, Cres Is., 23.07.1983, (GC4958-Z); -Predošćica, Cres Is., 09.1971, (16759-FV); -Vodice, Cres Is., 05.1974, (26097-FV).

VK59

Materials: Sv. Petar, Cres Is., 19.06.1984, (GC4935-Z), 07.05.1987, (GC4938-Z); -Živa bay, Sv. Petar, Cres Is., 25.04.1983, (GC4933-Z), 19.06.1984, (GC4953-Z), 07.05.1987, (GC4952-Z).

VK62

Materials: Veli Lošinj, Lošinj Is., 09.1971, (18025-FV), 05.1974, (25459-FV).

VK64

Materials: Punta Križa, Cres Is., 09.1971, (17016-FV); -Sv. Andrija, Punta Križa, Cres Is., 19.07.1983, (GC4963-Z).

VK67

Materials: Plavnik, Plavnik Is., 24.03.1983, (GC4927-Z).

VK68

References: Veglia (=Krk, Krk Is.) (HIRC 1886:385).

VK69

Materials: Malinska, Krk Is., 05.1969, (8171-FV); -Ponikve, Krk Is., 10.1972, (21403-FV); -Porat, Krk Is., 09.1972, (20807-FV).

VK76

Materials: Lopar, Rab Is., 1967, (4062-FV), 06.1968, (7167-FV), 08.1969, (8789, 8976-FV); -Makučina, Rab Is., 06.1967, (4067-FV); -Cape Sorinj, Rab Is., 07.1977, (37129-FV); -Supetarska Draga, Rab Is., 06.1967, (4075-FV).

VK77

Materials: Stara Baška, Krk Is., 10.1972, (21282, 21316, 21545-FV); -Stara Baška, E, spring, Krk Is., 10.1972, (21321-FV).

VK78

Materials: Baška Draga, Krk Is., 13.09.1970, (5472-JB), 10.1972, (21396-FV), 13.12.1980, (GC4903-Z); -Jurni dvor (=Jurandvor), Krk Is., 05.1971, (15378-FV); -Punat, Krk Is., 10.1972, (21272-FV); -Punat, 2 km in the direction of Stara Baška, Krk Is., 10.1972, (21304-FV); -Suha Ričina, Baška, Krk Is., 10.1972, (21380-FV).

VK79

Materials: Šilo, Krk Is., 1952, (339, 348-JB), 07.1956, (959-JB), 10.1956, (912-JB); -Vrbnik, Krk Is., 10.1972, (21331-FV); -Vrbnik, 3 km t. w., Krk (Is.), 05.1983, (WM); -Vrbnik, 6 km t. w., Krk (Is.), 05.1983, (WM).

References: Silo (=Šilo), Krk Is. (KORMOS 1906:152).

VK85

Materials: Banjol, Rab Is., (1985-FV), 06.1967, (4064-FV); -Barbat, Rab Is., 18.01.1984, (GC4973-Z); -Kamenjak Mt., summit, Rab Is., 17.01.1984, (GC4969-GC4971-Z); -Kaštel, Rab Is., 06.1968, (7160-FV); -Mundanije, Rab Is., 08.1976, (33361-FV); -Rab, Rab Is., 06.1967, (4066-FV), 18.01.1984, (GC4972-Z); -Rab (=Rab, Rab Is.?), 17.04.1910, (BC762-Z); -Ščerba, Rab Is., 17.01.1984, (GC4967, GC4968-Z); -Tingarosa (=Tinjarosa), Rab Is., (1987-FV).

References: Rab (=Rab, Rab Is.?) (ILIJANIĆ, STOŠIĆ 1972:19).

VK86

Materials: Grgur Is., 08.1974, (26690-FV).

VK87

Materials: Baška, Krk Is., 1956, (586-JB), 10.1972, (21446-FV).

References: Nova Baška (=Baška, Krk Is.) (HIRC 1886:385).

VK89

Materials: Klenovica, Novi Vinodolski, 09.1972, (20989-FV); -Novi Vinodolski, (BC746, BC768, BC784-Z), 26.09.1901, (BC739-Z), 1924, (4074-FV); -S. Marino (=Sv. Marin Is.), Novi Vinodolski, (BC786-Z).

References: Novi (=Novi Vinodolski) (KORMOS 1906:152), Novi Vinodolski (ILIJANIĆ, STOŠIĆ 1972:18, 19), Novi (=Novi Vinodolski) (MAASSEN 1984:161); -S. Marino (=Sv. Marin Is.), Novi Vinodolski (ILIJANIĆ, STOŠIĆ 1972:19).

VK93

Materials: Prizna, 3 km t. o., 05.1984, (WM).

VK94

Materials: Zavrtnica bay, Jablanac, 26.09.1982, (20585-JB).

VK95

Materials: Jablanac, (RC-Z), 20.06.1909, (BC751-Z), 05.1967, (4069-FV); -Stinica, Jablanac, 04.1971, (15461-FV), 10.1982, (WM); -(Mt.) Velebit, 4 km richting Stirovica (=Štirovača?), 10.1982, (WM).

References: Jablanac (ILIJANIĆ, STOŠIĆ 1972:18; GRAACK 1989:10).

VK96

Materials: Ažič Lokva (=Lokva), Jablanac, 09.1976, (21007-FV); -Donja Klada,

25.06.1981, (GC4906-Z); -Gornja Klada, 25.06.1981, (GC4907-Z); -Pit Jama na Kuželjevcu, Kuželjevac, Gornja Klada, 05.11.1978, (GC4900-Z); -Rogič lokva, Starigrad, 25.06.1981, (GC4905-Z); -Vukušiča glavica, Gornja Klada, 20.04.1983, (GC4966-Z).

VK97

Materials: Jurjevo, (Mt.) Velebit, omg. camping t. z. Senj, 09.1982, (WM); -Senjska draga, Senj, 19.01.1984, (GC4974-Z); -Sv. Križ, Vratnik, (Sa); -Žrnovnica, Jurjevo, 09.1972, (20901-FV), 22.06.1981, (GC4904-Z).

VK98

Materials: Senj, (Sa), (BZ757-Z), 1886, (BZ790-Z), 19.01.1984, (GC4975-Z); -Vratnik pas, (Mt.) Velebit, 2 km t. n. Senj, 09.1982, (WM).

References: Senj (BRUSINA 1870:31), Zengg (=Senj) (HIRC 1880:521), Segna (=Senj) (STOSSICH 1883:138), Senj (KORMOS 1906:152; ILIJANIĆ, STOŠIĆ 1972:18, 19).

VL00

Materials: Lovreč, Poreč, 05.1971, (15148-FV).

VL01

Materials: Žudetići, Vižinada, 02.1972, (14534-FV).

VL02

Materials: Buzet, 10 km t. nw., 10.1982, (WM); -Kaldir, Motovun, 09.1977, (36730-FV); -Kostanjevica, Motovun, 11.02.1976, (10219-JB); -Livade, 5 km t.z., Motovun, 10.1982, (WM); -Motovun, 17.08.1980, (GC4901-Z); -Motovun, 2,5 km t. w., Livade, 10.1982, (WM); -Šterna, Mt. Čičarija, 03.1967, (4070-FV).

VL03

Materials: Hrvoji, Koštabona, Šmarje, Koper, 05.1983, (42870-FV); -Marezige, Koper, 04.1974, (25374-FV), 05.1974, (25454-FV), 11.1980, (41651-FV).

VL04

Materials: Koper, 06.1975, (32054-FV), 06.1976, (35284-FV); -Preko bay, Koper, (GC2764-Z).

VL06

Materials: Cave Blaževa pečina, Orlek, Sežana, 01.1977, (35168-FV).

VL07

Materials: Cave Jama pri studencu, Brje, Sežana, 11.1979, (39793-FV); -Mali Dol, Komen, 19.03.1981, (18717-JB); -Škrbina, Komen, 19.03.1981, (18301-JB); -Štanjel-Branik, 28.05.1981, (18325-JB).

VL08

Materials: Branik, Ajdovščina, 04.1971, (15229-FV); -Stream Lijak, spring, Ozeljan, Nova Gorica, 06.1970, (12566-FV); -Železna vrata, Dornberk, Renče, 19.03.1981, (18271-JB).

VL12

Materials: Gradaški Bulaž, Istarske Toplice, 11.02.1976, (10918-JB); -Istarske Toplice, 03.1967, (4072-FV), 11.02.1976, (10233-JB), 01.11.1980, (GC4892-Z), 02.11.1980, (GC4893-Z).

VL13

Materials: Gračišče-Sočerga, 23.11.1978, (15064-JB); -Griža, Gračišče, Koper,

05.04.1979, (15998-JB); -Krog, Sočerga, 04.1971, (15216-FV), 06.03.1979, (15846-JB); -Oprtalj, 2,5 km t. n., 10.1982, (WM); -Ročko polje, Mt. Čičarija, 03.1967, (4065-FV); -Sočerga, 2 km N, 11.02.1976, (10249-JB), 05.04.1979, (15973-JB); -Vela Griža, Sočerga, 23.11.1978, (15092-JB); -Zazid, Gračišče, Koper, 06.03.1979, (15888-JB), 05.04.1979, (15937-JB).

VL14

Materials: Črni Kal, Kozina, 05.1971, (15332-FV), 07.11.1975, (8568-JB); -Gračišče, Koper, 04.1971, (15297-FV); -Hrastovlje, 28.03.1978, (13738-JB), 25.04.1978, (13644-JB); -Stream Hrastovski potok, spring, Hrastovlje, 25.04.1978, (13641-JB); -Kubed, 1 km in the direction of Črni kal, 06.03.1978, (13745-JB); -Osp, Koper, 09.1973, (28793-FV), 07.11.1975, (8592-JB), 11.1984, (46315-FV); -Podgorje-Prešnica, Mt. Slavnik, 16.04.1976, (10732-JB); -Pogorišče, S, Podgorje, Mt. Slavnik, 25.08.1976, (10703-JB).

VL15

Materials: Pit Brezno pri Lipiški jami, Lipica, 01.1977, (35181-FV); -Cave Jama pod Gavgami, Divača, 12.1970, (13660-FV); -Kozina, 02.1971, (14301-FV); -Cave Mala Triglavca, Divača, 11.09.1980, (18186-JB); -Cave Trhlovca, Divača, 06.03.1978, (13242-JB).

VL16

Materials: Pit Golokračina, Sežana, 03.1971, (14746-FV); -Sežana, (165-FV), 06.1972, (19927-FV); -Cave Škamperlova jama, Sežana, 07.1976, (35031-FV); -Cave Tomaževa jama, Sežana, 01.1977, (35186-FV).

VL17

Materials: River Branica, Štanjel, 19.03.1981, (18745-JB); -River Močilnik, Podnanos, 27.08.1985, (21919-JB); -Štanjel, (GC2752-Z), 19.09.1972, (7075-JB); -Štanjel, 2 km in the direction of Vipava, 06.03.1978, (13222-JB); -Vipava, 17.07.1913, (Lj); -Vipava spring, Vipava, 24.11.1981, (19679-JB).

References: Wippach (=Vipava) (SCHMIDT 1847:21), Vipava (SAJOVIC 1908:6).

VL18

Materials: Ajdovščina, (Lj); -Budanje, Vipava, (Lj), 21.06.1972, (5628-FV); -Hubelj, Ajdovščina, 13.07.1976, (9985-JB).

VL20

Materials: Gračišče, Pazin, 09.1971, (16745-FV).

VL22

Materials: Lupoglav-Brest, Buzet, 04.1975, (29880-FV); -Cave Pečina pri Humu, Hum, Mt. Čičarija, 03.1967, (4068-FV).

VL25

Materials: Cave Brimščica, Kozina, 02.1971, (14388-FV), 05.1977, (35992-FV); -Motovun, Divača, 1953, (295-JB); -Škocjan, Divača, (169-FV).

References: Doline, S. Canzian (=caves Škocjanske jame, Škocjan, Divača) (CLESSIN 1885:152), Doline, St. Canzian (=caves Škocjanske jame, Škocjan, Divača) (KOBELT 1897:315).

VL26

Materials: Berg Plesa in Nanos Planina, Razdrto, 09.1979, (WM); -Razdrto, Mt. Nanos, 11.05.1977, (11561-JB); -Senožeče, 15.11.1978, (15131-JB); -Vremščica Mt., (909-FV), 04.1973, (23148, 23168-FV).

VL27

Materials: Nanos Mt., (132-FV), 1953, (253-JB), 03.1968, (5468-FV), 06.1970, (12223-FV); -Podnanos, Mt. Nanos, 11.05.1977, (11536-JB).

VL28

Materials: Bela, Vipava, 11.05.1977, (11600-JB).

VL30

Materials: Voziliči, Plomin, 20.07.1976, (GC4902-Z), 09.1982, (GC4921-Z).

VL31

Materials: Poklon, (Mt.) Učka, 09.1982, (WM); -?Učka Mt., 11.07.1985, (GC4922-Z); -Veprinac, westzijde, (Mt.) Učka, 09.1982, (WM); -Veprinac, 5 km voorbij, (Mt.) Učka, 09.1982, (WM).

References: Učka (= ?Učka Mt.) (HIRC 1886:385).

VL32

Materials: Lupoglav, Buzet, (GC2765-Z).

VL35

Materials: Košana (=Gor. Košana or Dol. Košana?), Pivka, (Lj); -Šempeter na Krasu (=Pivka), (GC2756-Z); -Podstenjšek, Knežak, 09.1973, (24089-FV); -Podtabor, Ilirska Bistrica, 25.04.1978, (13302-JB); -Zagorje t. z. Pivka, 09.1982, (WM).

References: Zagorje ten zuiden van Pivka (MAASSEN 1985:133).

VL40

Materials: Mošćenička Draga, 09.1971, (16732-FV).

VL41

References: Medvea (=Medveja) (WAGNER 1932:735).

VL42

Materials: Ičići, Opatija, 09.1982, (WM); -Opatija (156-FV).

References: Abbazia (=Opatija) (BLUM 1888:140; WAGNER 1931:50, 1932:732); -Poljane, Opatija (WAGNER 1932:735); -Apriano (=Veprinac) (WAGNER 1932:732); -Volosca (=Volosko) (WAGNER 1931:50, 1932:732).

VL45

Materials: Koritnice, Knežak, 16.09.1977, (11355-JB); -Stašca, Koritnice, Knežak, 15.03.1977, (11331-JB).

VL49

Materials: River Zornica, spring, Ligojna, Vrhnika, (692-FV).

VL51

Materials: Martinščica, Rijeka, 09.1972, (21141-FV); -Sušak (part of Rijeka), (Lj).

VL52

Materials: ?Rijeka, 19.06.1880, (BC767-Z), 1886, (BC740-Z).

References: Grobnik (KORMOS 1907:196); -Jelenje am Grobniker Felde (HIRC 1880:520); -Lubarska (KORMOS 1907:196); -?Fiume (=Rijeka) (MARTENS 1870:158; STOSSICH 1878:506; KORMOS 1906:152), ?Rijeka (ILIJANIĆ, STOŠIĆ 1972:18, 19).

VL57

References: Cerknica (BOLE 1978:221).

VL60

Materials: Glavica, Omišalj, Krk Is., 10.1972, (21415-FV); -Njivice, Krk Is., 10.1972, (21333-FV), 03.1973, (23130-FV), 07.1975, (30328-FV); -Njivice, t. o. afslag r., Krk (Is.), 05.1983, (WM); -Njivice, 3 km voorbij afslag r., Krk (Is.), 05.1983, (WM); -Omišalj, 1 km t. z., Krk (Is.), 05.1983, (WM); -Prčanj, Omišalj, Krk Is., 10.1972, (21274-FV); -Voz, Krk Is., 09.1972, (20824-FV), 10.1972, (21354-FV).

References: Soline, Krk Is. (RUCNER D. & R. 1971:144).

VL61

Materials: Bakar, (BC723, BC766, BC795-Z); -Bakarac, 09.1972, (21150-FV), 09.1981, (WM).

References: Buccari (=Bakar) (HIRC 1880:521), Bakar (KORMOS 1907:196; ILIJANIĆ, STOŠIĆ 1972:18).

VL62

References: Kamenjak Mt., (Rijeka) (RUCNER D. & R. 1971:151).

VL64

Materials: Belica, Čabar, 01.06.1978, (13914-JB).

VL70

Materials: Crikvenica, (RC, BC738-Z); -Grižane, Novi Vinodolski, 10.1982, (WM); -Selce, Crikvenica, 22.04.1964, (5043-JB), 10.1982, (WM).

References: Crikvenica (KORMOS 1906:152; ILIJANIĆ, STOŠIĆ 1972:18; MAASSEN 1984:161); -Crikvenica-Selce (RUCNER D. & R. 1971:144); -Grizane (=Grižane) (KORMOS 1906:152); -Klimno (KORMOS 1906:152); -Selce, (Crikvenica) (KORMOS 1906:152).

VL71

References: Fužine (HIRC 1880:520); -Lič (HIRC 1880:520); -Plase (KORMOS 1906:152).

VL73

Materials: Mali Južni Risnjak, summit, Mt. Risnjak, 02.05.1979, (GC4912-Z).

References: Kulpa-Ursprung (=river Kupa, spring) (HIRC 1880:520).

VL74

Materials: Čabar (RC-Z); -Mirtoviči, Osilnica, 07.1979, (41313-FV); -Osilnica, 05.1975, (29894-FV).

VL75

Materials: Belca, Čabar, 19.05.1980, (17599-JB), 17.09.1980, (17939, 17946-JB); -River Čabranka, spring, Čabar, 11.05.1971, (6078-JB).

VL80

Materials: Ugrini t. o. Bribir, Novi Vinodolski, 10.1982, (WM).

VL83

Materials: Brod na Kupi-Lešnica, spring, 20.08.1979, (7001-JB); -River Kupica, spring, Delnice, 02.11.1969, (4767-JB); -Kuželj, (BC748-Z); -Kuželj, spring, 20.08.1972, (7084-JB).

References: Kuželj, Gorski kotar (ILIJANIĆ, STOŠIĆ 1972:18).

VL92

References: Lokve, (Delnice) (STOSSICH 1880:335).

VL93

Materials: Cave Jelovička jama, Kostel, river Kolpa, 11.07.1981, (18811-JB); -Cave Kotnička jama, Kostel, river Kolpa, 11.07.1981, (18788-JB).

VL94

Materials: Spodnja Bilpa, river Kolpa, 22.06.1979, (16606-JB).

VM00

Materials: Hval, spring, Dolenja Trebuša, 10.10.1970, (5614-JB); -Slap ob Idrijci, 09.1982, (WM).

References: Slap ob Idrijci (MAASSEN 1985:133).

VM01

Materials: Bača pri Modreju, (1507-FV); -Kneža, Baška grapa, 23.08.1978, (14915-JB); -Cave Dantejeva jama, Tolmin, 05.1971, (15646-FV); -Hudičev most, Tolmin, 05.1971, (15440-FV), 22.08.1980, (18077-JB); -Ljubinj, Tolmin, 13.04.1983, (20622-JB); -Modrej-Tolmin, (1384-FV); -Most na Soči, (192-FV), 1953, (419-JB); -Most na Soči-Tolmin, 04.1977, (36298-FV); -Narin, Most na Soči, 1955, (392-JB); -Podljubinj, Tolmin, 20.04.1982, (20471-JB); -Selo, Most na Soči, 04.1979, (45111-FV); -Tolmin, 04.1977, (36229, 36801-FV); -Volče, Tolmin, (Lj, GC2758-Z); -Zadlaz, Tolmin, 22.08.1980, (18060-JB); -Zatolmin, Tolmin, 23.08.1978, (14844-JB).

References: 2-2,5 km nordlich Tolmin (WOLF, RÄHLE 1987:34).

VM02

Materials: Korita, Tolmin, (1508-FV), 05.1971, (15674-FV); -Mt. Osojnica, Polog, Tolmin, 23.08.1978, (14758-JB); -Cave Pološka jama, Polog, Tolmin, 11.09.1970, (5560-JB); -Školj, Polog, Tolmin, 23.08.1978, (14818-JB); -River Tolminka, spring, Tolmin, 23.08.1978, (14735-JB); -Zastena, Polog, Tolmin, 23.08.1978, (14791-JB).

VM03

Materials: Trenta, Trenta region, (1509-FV).

VM10

Materials: Dolenja Trebuša, Idrija, 04.1972, (21745-FV), 06.1979, (39023-FV); -Stopnik, t. no. Idrija, 09.1979, (WM).

References: Stopnik ten noordoosten van Idrija (MAASSEN 1985:133).

VM11

Materials: Grahovo, Baška grapa, 23.08.1978, (14875-JB).

VM30

Materials: Stranje, Mt. Bohor, 07.1976, (10210-JB).

VM51

Materials: Grmada Mt., Medno, Ljubljana, (678-FV); -Šmarna gora Mt., Ljubljana, (Lj, 494-FV), 1953, (442-JB), 10.1963, (5212-FV), 05.1967, (4063-FV), 13.09.1976, (10424-JB), 16.02.1977, (11028, 11043-JB), 25.03.1977, (12849-JB); -Vikrče, springs, Mt. Šmarna gora, Ljubljana, 06.04.1977, (12826-JB).

References: Grmada Mt., Ljubljana (BOLE 1977:60); -Grosskahlenberg (=Šmarna gora Mt., Ljubljana) (SCHMIDT 1847:20), Grossgallenberge (=Šmarna gora Mt., Ljubljana) (HAUFFEN 1858:32), Grosskahlenberge (=Šmarna gora Mt., Ljubljana) (KREGLINGER 1870:4), Grosskahlenberg (MARTENS 1871:195), Šmarna gora Mt., Ljubljana (BOLE 1977:60).

VM61

Materials: Stari grad, Kamnik, 04.11.1973, (7588-JB).

VM94

Materials: Uršlja gora Mt., Velenje, (Lj).

WH66

References: I. Sant'Andrea (=Svetac Is.) (STURANY 1915:402, 404).

WH85

References: Busi (=Biševo Is.) (STURANY 1915:402, 404).

WH86

Materials: Komiža, Vis Is., 1953, (412-JB).

References: Comisa (=Komiža, Vis Is.) (BRAUN 1887:110), Comisa auf Lissa (=Komiža, Vis Is.) (STURANY 1915:404); -Veli Barjak, (Vis Is.) (STURANY 1915:402, 404).

WJ06

Materials: Žman, Dugi otok Is., 20.05.1925, (2458-JB).

WJ08

Materials: Ugljan, Ugljan Is., (Lj).

WJ15

Materials: Mala Aba Is., Kornati Iss., 09.1976, (32194-FV); -Mali Obručan Is., Kornati Iss., 08.1976, (40363-FV); -Pri Miru (=Jezero), Dugi otok Is., 25.05.1925, (3438-JB); -Slano jezero (=Jezero), Dugi otok Is., 08.1976, (33075-FV); -Veliki Obručan Is., Kornati Iss., 08.1976, (32889-FV).

References: Blizu "Ježera" pri Miru (=Jezero, Dugi otok Is.) (KUŠČER 1930:33/34); -Trbuh Is., (Kornati Iss.) (KUŠČER 1930:34).

WJ16

Materials: Tukošćak Is., Dugi otok Is., 21.06.1925, (2434-JB).

References: Lavdara Is. (KUŠČER 1930:33); -Sali, Dugi otok Is. (KUŠČER 1930:33, 34); -Tukoščak Is., Dugi otok Is. (KUŠČER 1930:33); -Žman-Sali, Dugi otok Is. (KUŠČER 1930:33).

WJ17

Materials: Rutnjak Is., Iž Is., 08.1971, (16186-FV).

WJ18

Materials: Preko, Ugljan Is., (Lj); -Zadar (BC747-Z), 07.1976, (WM).

References: Zara (=Zadar) (STROBEL 1854:147; BRANCSIK 1886:90; CLESSIN 1887:59), Zadar (ILIJANIČ, STOŠIČ 1972:18).

WJ24

Materials: Veli Rašip Is., Kornati Iss., 08.1977, (36241, 37076-FV).

WJ25

Materials: Balun Is., Kornati Iss., 07.1979, (39919-FV); -Pit below the peak of Levernaka Is., Kornati Iss., 07.1978, (38060-FV); -Šipnata bay, Kornat Is., 07.1975, (29577-FV).

WJ33

Materials: Purare Is., Dugi otok Is., (=Purara Is., Kornat Is.?), 27.05.1925, (2433-JB).

References: Purara Is., Kornat Is. (KUŠČER 1930:34).

WJ34

Materials: Ropotnica bay, cave, Kornat Is., 08.1976, (32779-FV).

WJ35

References: Mali Crnikovac Is., (Kornati Iss.) (STURANY 1915:404; KUŠČER 1930:34).

WJ36

Materials: Biograd na moru (BC772-Z).

References: Biograd na moru (RODING 1966:129, 130; ILIJANIĆ, STOŠIĆ 1972:19).

WJ45

References: Insel Visovac, westl. der N-Spitze der insel Murter (GRAACK 1989:10).

WJ49

Materials: Novigrad, Zadar, 05.1969, (8207-FV), 05.1970, (11606-FV).

References: Novigrad, Novigradsko more (GRAACK 1989:10).

WJ54

References: Insel Prinsnjak (=Prišnjak), westl. von Vodice (GRAACK 1989:10).

WJ58

Materials: Karin (=Donji Karin?) (BC761-Z), 06.1963, (3147-FV).

References: Karin (=Donji Karin?), Benkovac (ILIJANIĆ, STOŠIĆ 1972:19).

WJ59

Materials: Bilišane, Obrovac, (BC759-Z); -Moseć, Drniš, (BC775-Z); -Obrovac, (Sa), 25.04.1972, (6709-JB), 24.09.1978, (GC4908-Z), 10.1979, (40384-FV).

References: Bilišane, Obrovac (ILIJANIĆ, STOŠIĆ 1972:19); -Moseć, Drniš (ILIJANIĆ, STOŠIĆ 1972:19).

WJ66

References: Krkovići, ca. 4 km südl. von Bribirske-Mostine (=Krkovići, Bribirske Mostine, Bribir) (GRAACK 1989:10).

WJ68

Materials: Cave Kusača, Žegar, Obrovac, 26.04.1972, (6751-JB).

WJ69

Materials: Krupa, Žegar, Obrovac, 26.04.1972, (6724-JB).

WJ72

References: Svilan Is., Rogoznica (STURANY 1915:404; KUŠČER 1930:34).

WJ73

Materials: Krapanj Is., Šibenik, 01.05.1986, (IL).

WJ74

References: Sebenico (=Šibenik) (BRANCSIK 1886:89, 1906:144).

WJ75

Materials: (River) Krka, Skradin, Šibenik, 07.1976, (WM); -Skradinski buk, river Krka, Šibenik, (Sk).

WJ76

References: An der Krka bei Strassenübergang nach Drnis (=Drniš) (GRAACK 1989:10).

WJ78

References: Ervenik (BRUSINA 1874:147).

WJ79

Materials: Golubič-Babića Kuk, river Krnjeza, 09.08.1984, (GC4909-Z).

WJ87

Materials: Miljacka, river Krka, Šibenik, 10.1979, (39775-FV).

WJ90

Materials: Maslinica, Šolta Is., 20.08.1956, (937-JB).

WJ95

Materials: Caves Pečine u Brini, Knezovi, Drniš, 07.05.1981, (IL).

References: Drniš (BRUSINA 1874:169).

WJ97

Materials: Knin (Lj), 07.1981, (WM).

WJ98

Materials: Promina geb., 3 km t. n. Knin, 05.1983, (WM).

WK02

Materials: Pag, Pag Is., 04.1970, (11654-FV); -Karlobag, 2 km t. z. langs kustweg, (Mt.) Velebit, 10.1982, (WM).

WK03

Materials: Cesarica, (Mt.) Velebit, 10.1982, (WM); -Karlobag (RC-Z), 1886, (BC770-Z); -Stara vrata, (Mt.) Velebit, 10.1982, (WM).

References: Carlopago (=Karlobag) (HIRC 1886:388), Carlobag (=Karlobag) (KOR-MOS 1907:196), Karlobag (ILIJANIĆ, STOŠIĆ 1972:19; MAIER 1973:370).

WK10

Materials: Mletak, Privlaka, Zadar, 23.03.1981, (IL); -Nin, (BC776-Z); -Privlaka, Zadar, (Lj); -Ždrijac, Nin, 07.1971, (15857-FV).

References: Nin (BRUSINA 1872:177; ILIJANIĆ, STOŠIĆ 1972:19).

WK12

Materials: Lukovo Šugarje, 19.04.1886, (BC787-Z); -Šušanj-Konjsko, Baške Oštarije, 27.06.1981, (GC4926-Z).

References: Lukovo-Žugarje (=Lukovo Šugarje) (HIRC 1886:389), Lukovo Šugarje (ILIJANIĆ, STOŠIĆ 1972:19).

WK13

Materials: Šušanj, (Mt.) Velebit, 10.1982, (WM).

WK14

Materials: Krčmar Mt., Perušić, 1887, (BC733-Z).

References: Krčmar (=Krčmar Mt., Perušić) (ILIJANIĆ, STOŠIĆ 1972:18).

WK16

Materials: Otočac, river Gacka, (BC785, BC788, BC789-Z).

References: Otocac (=Otočac, river Gacka) (CLESSIN 1879:121), Otočac, (river Gacka) (ILIJANIĆ, STOŠIĆ 1972:19).

WK18

Materials: Brinje, Ogulin, 1880, (BC756-Z); -Žuta Lokva, Brinje, Ogulin, (EC749-Z), 1886, (BC750-Z).

References: Brinje, (Ogulin) (ILIJANIĆ, STOŠIĆ 1972:18); -Zutalokva (=Žuta Lokva, Brinje, Ogulin) (KORMOS 1907:196), Žuta Lokva, Brinje, (Ogulin) (ILIJANIĆ, STOŠIĆ 1972:18).

WK20

Materials: Ljubač, Zadar, 01.03.1986, (GC4924-Z).

WK23

Materials: Bužim, Gospić, (BC765, BC769-Z).

References: Bužim, (Gospić) (ILIJANIĆ, STOŠIĆ 1972:19).

WK24

Materials: Klisa Mt., Perušić, 1886, (BC791-Z); -Perušić, 1886, (RC, BC741-Z); -Tomašičeva kuća, Perušić-Ličko Lešće, 28.06.1981, (GC4899-Z).

References: Perušić (ILIJANIĆ, STOŠIĆ 1972:18); -Tabakuša (cave), Perušić (LANGHOFER 1915:10).

WK25

Materials: Lešće, t. zuiden Plitvice, 09.1975, (WM).

WK30

Materials: Manita Peč, Velika Paklenica, Mt. Velebit, 05.10.1979, (16298-JB); -Starigrad, (Mt.) Velebit, 10.1982, (WM); -Starigrad-Paklenica, nat. park, (Mt.) Velebit, 10.1982, (WM); -Velika Paklenica, Mt. Velebit, 09.1972, (21056-FV), 05.1974, (25420-FV), 05.10.1979, (16272, 16287, 16313, 16321-JB).

WK33

Materials: Gospić, (BC743-Z).

References: Gospić (ILIJANIĆ, STOŠIĆ 1972:18).

WK35

Materials: Janjče, Perušić, (BC753-Z).

References: Janjče, Perušić (ILIJANIĆ, STOŠIĆ 1972:18).

WK40

Materials: Selina, 3 km t. o., 05.1984, (WM).

WK60

Materials: Gračac, Obrovac, 1886, (BC734-Z).

References: Gračac, (Obrovac) (ILIJANIĆ, STOŠIĆ 1972:18).

WK65

Materials: Zavalje, Bihać, 28.03.1886, (BC752-Z).

References: Zavalje, Bihać (BRUSINA 1870:31; ILIJANIĆ, STOŠIĆ 1972:18).

WK66

Materials: Vedro Polje, Bihać, 03.07.1968, (4663-JB).

WK75

Materials: Gorjevac, 2,7 km voor, tussen Bihać en Petrovac, 09.1980, (WM); -Cave : Jelina pećina, Ripač, Bihać, 03.07.1968, (4082-JB).

WK81

Materials: River Una, spring, Donji Srb, 18.10.1885, (22187-JB).

WK85

Materials: Ripač, 2 km t. o., 5 km t. zo. Bihač, 09.1988, (WM).

WL03

Materials: Dol, river Kupa, Predgrad, 23.05.1979, (16633-JB); -Dol, river Kupa, 2 km W, Predgrad, 11.04.1979, (16043-JB); -Dol-Stari Trg, river Kupa, Predgrad, 01.06.1978, (13592-JB); -Prelesje, Stari Trg, river Kupa, Predgrad, 23.05.1979, (16665-JB); -Razdrto, Srpske Moravice, (BC729-Z); -Spring Šumetec, Laze, river Kupa, Predgrad, 11.04.1979, (16012-JB); -Vrt, Laze, river Kupa, Predgrad, 11.04.1979, (16106-JB).

References: Lukovdol (HIRC 1880:520); -Razdrto, (Srpske Moravice) (HIRC 1880:520); ILIJANIĆ, STOŠIĆ 1972:18).

WL08

Materials: River Zijavnica, spring, Trebnje-Mirna, 23.02.1977, (12701-JB).

WL11

References: Ogulin (JURINAC 1887:112, 1888:25).

WL13

Materials: Damelj, Vinica, river Kupa, 07.1980, (45989-FV).

References: Severin (=Severin na Kupi) (HIRC 1880:520).

WL20

Materials: Spring Okance, Kukača, Tounj, 10.1984, (44059-FV).

WL21

Materials: Stream Bistrac, spring, Tounj, 1969, (10118-FV); -Mikašinići, Gornje Dubrave, Tounj, 13.03.1983, (GC4920-Z), 07.1983, (42932, 43099-FV).

WL23

Materials: Špeharji, Vinica, river Kupa, 22.06.1979, (17015-JB).

WL29

Materials: Dobrava, Sevnica, 08.1972, (21020-FV).

WL30

Materials: Rudnica, Tounj, 07.1983, (43062-FV).

WL35

Materials: Gornji Zvečaj, Karlovac, 02.05.1982, (IL); -Ozalj, (BC728-Z).

References: Ozalj (ILIJANIĆ, STOŠIĆ 1972:18).

WL39

Materials: Blanca, Sevnica, 05.1970, (11841-FV); -Blanca-Poklek, Sevnica, 05.1970, (12076-FV).

WL46

Materials: Sv. Jana, Jastrebarsko, 13.06.1981, (GC4914-Z).

WL49

Materials: Stari grad, Krško, 24.02.1977, (12710-JB).

WL56

Materials: Prhoček, Mt. Plešivica, 10.11.1981, (GC4916-Z), 09.05.1982, (GC4917-Z).

References: Plešivica Mt. (BRUSINA 1870:31).

WL57

Materials: Anin dol, Samobor, (RC-Z).

WL67

Materials: Bizek, Zagreb, (BC793-Z); -Goljak, Zagreb, (BC745-Z); -Gornji Stenjevec, Zagreb, 25.03.1982, (IL); -Ivanec Bistran, Mt. Medvednica, 17.06.1982, (GC4870, GC4884-Z); -Kamenj Svati, Mt. Medvednica, 01.07.1978, (GC4885-Z); -Podsused, Zagreb, (Lj, RC-Z, BC794-Z); -Susedgrad, Mt. Medvednica, 04.07.1978, (GC4976-Z); -Sutinsko-Podsused, Zagreb, (BC755-Z); -Zatinice brijeg-Orjavec gora, Mt. Medvednica, 17.06.1982, (GC4864, GC4874, GC4875-Z).

References: Bezek (=Bizek), Zagreb (ILIJANIĆ, STOŠIĆ 1972:19); -Goljak, Zagreb (ILIJANIĆ, STOŠIĆ 1972:18); -Ivanec Bistran, Mt. Medvednica (ŠTAMOL 1989:11); -Kamenj Svati, Mt. Medvednica (ŠTAMOL 1989:11); -Podsused, Zagreb (KORMOS 1906:151, 152; ILIJANIĆ, STOŠIĆ 1972:19); -Susedgrad, Mt. Medvednica (ŠTAMOL 1989:11); -Sutinsko-Podsused, Zagreb (ILIJANIĆ, STOŠIĆ 1972:18); -Cave Veternica, Gornji Stenjevec, Mt. Medvednica (POJE, RAĐA 1974-1975:7); -Zatinice brijeg-Orjavec gora, Mt. Medvednica (ŠTAMOL 1989:11).

WL69

Materials: Strmec, Veliko Trgovišće, 02.03.1989, (IL).

WL77

Materials: Bliznec, Mt. Medvednica, 03.06.1982, (GC4872-Z); -Dolje, Zagreb, (BC730-Z); -Gračani, Zagreb, (BC725-Z); -Šestinski Kraljevac, Mt. Medvednica, (BC737-Z); -Varoško Rebzo, Mt. Medvednica, 03.06.1982, (GC4868, GC4873-Z).

References: Bliznec, Mt. Medvednica (ŠTAMOL 1989:11); -Dolje, Zagreb (ILIJANIĆ, STOŠIĆ 1972:18); -Gračani, Zagreb (ILIJANIĆ, STOŠIĆ 1972:18); -Šestinski Kraljevac, (Mt. Medvednica) (ILIJANIĆ, STOŠIĆ 1972:18); -Varoško Rebzo, Mt. Medvednica (ŠTAMOL 1989:11).

WL78

Materials: Bačunski brijeg, Mt. Medvednica, 05.07.1981, (GC4867-Z); -Deščevec, Mt. Medvednica, 01.07.1982, (GC4886-Z); -Gorsko zrcalo, Mt. Medvednica, 14.03.1982, (GC4915-Z); -Markuševačka Trnava, Mt. Medvednica, 28.03.1980, (GC4977, GC4978-Z); -Pečinica, Mt. Medvednica, 27.05.1982, (GC4866, GC4883-Z); -Rušovski brijeg, Mt. Medvednica, 20.09.1983, (GC4871-Z); -Tisova peč, Mt. Medvednica, 25.05.1982, (GC4876, GC4877-Z).

References: Bačunski brijeg, Mt. Medvednica (ŠTAMOL 1989:11); -Deščevec, Mt. Medvednica (ŠTAMOL 1989:11); -Markuševačka Trnava, Mt. Medvednica (ŠTAMOL 1989:11); -Pečovje, Mt. Medvednica (ŠTAMOL 1989:11); -Pečinica, Mt. Medvednica (ŠTAMOL 1989:11); -Rušovski Brijeg, Mt. Medvednica (ŠTAMOL 1989:11); -Tisova Peč, Mt. Medvednica (ŠTAMOL 1989:11); -Varoško Rebzo, Mt. Medvednica (ŠTAMOL 1989:11).

WL79

References: Mt. Bihač, Stubičke Toplice (HIRC 1918:145).

WL88

Materials: Branovec, Mt. Medvednica, 05.07.1987, (GC4890-Z); -Čučerje, Mt.

Medvednica, 03.04.1979, (GC4979-Z); -Oštrc, Mt. Medvednica, 27.05.1982, (GC4882-Z); -Pečovje, Mt. Medvednica, 27.05.1982, (GC4865, GC4879, GC4880-Z); -Pečovje-Goršči-ca, Mt. Medvednica, 02.07.1983, (GC4881-Z); -Stražnjec, Mt. Medvednica, 20.05.1982, (GC4869, GC4878-Z); -Vidovec, Mt. Medvednica, 31.05.1978, (GC4979-Z).

References: Čučerje, Mt. Medvednica (ŠTAMOL 1989:11); -Oštrc, Mt. Medvednica (ŠTAMOL 1989:11); -Pečovje, Mt. Medvednica (ŠTAMOL 1989:11); -Stražnjec, Mt. Medvednica (ŠTAMOL 1989:11); -Vidovec, Mt. Medvednica (ŠTAMOL 1989:11).

WL89

References: Pasanska gora (=Pasanska Gorica, Mt. Medvednica?) (BRUSINA 1870:31).

WM00

Materials: Kuru, Mitovšek, Trbovlje, 05.1988, (22821-JB).

WM01

Materials: Dolinškov plaz, Hrastnik, 30.10.1973, (7584-JB).

WM10

Materials: Gore, Zidani Most, 04.1968, (5892-FV); -Zidani Most (Lj).

References: Zidani Most (BRUSINA 1870a:194), Eisenbrück (=Zidani Most) (JICKELI 1874:8).

WM41

Materials: Podčetrtrek, 07.1980, (41030-FV).

WM50

References: Klanjec, Mt. Cesargradska gora (RUCNER D. & R. 1971:153, 156); -Rozga, Hrvatsko zagorje region (RUCNER D. & R. 1971:176); -Vukovo selo, Hrvatsko zagorje region (RUCNER D. & R. 1971:156).

WM51

Materials: Veliki Tabor, Desinič, 08.03.1981, (GC4913-Z).

WM56

Materials: Meljski hrib, Maribor, (3150-FV), 07.1978, (37601-FV).

WM61

References: Krapinska gradina, Krapina (HIRC 1918:145).

WM71

References: Radoboj (HIRC 1918:145).

WM73

Materials: Borl, Ptuj, 09.1967, (4073-FV), 08.1969, (8818-FV).

XH18

Materials: Hvar (=Hvar, Hvar Is.?), (BC754, BC764-Z), 1911, (Sa); -Hvar, Hvar Is., (5127-JB), 1984, (B), 1985, (B).

References: Lesina (=Hvar, Hvar Is.) (STROBEL 1854:147; BRUSINA 1866:129; BRAUN 1887:108, 110).

XH19

Materials: Milna, Brač Is., 03.08.1978, (GC4851-Z), 11.05.1980, (GC4848-Z), 20.05.1980, (GC4840, GC4843, GC4846, GC4847, GC4849-Z), 02.02.1986, (GC4850-Z),

05.02.1986, (GC4852-Z); -Mrduja Is., Brač Is., 18.08.1978, (GC4855, GC4856-Z); -Osibova bay, Brač Is., 08.08.1978, (GC4854-Z), 03.05.1980, (GC4853-Z).

References: Milna, Brač Is. (ŠTAMOL 1986:50); -Mrduja Is., Brač Is. (ŠTAMOL 1986:50); -Osibova bay, Brač Is. (ŠTAMOL 1986:50).

XH23

References: Cazza (=Sušac Is.) (STURANY 1915:402, 404).

XH27

References: Bacile piccolo (=Mali Lukavac Is.) (STURANY 1915:402, 404); -Bacile grande (=Veliki Lukavac Is.) (STURANY 1915:402, 404).

XH28

Materials: Starigrad, Hvar Is., 1986, (B).

XH29

Materials: Blaca, Brač Is., 29.07.1982, (GC4857-Z); -Grška bay, Brač Is., 21.06.1986, (GC4842-Z); -Mala Farska bay, Brač Is., 04.08.1982, (GC4859, GC4860-Z); -Smrka, Brač Is., 21.06.1986, (GC4841-Z).

References: -Blaca, Brač Is., (ŠTAMOL 1986:50); -Grška bay, Brač Is., (ŠTAMOL 1986:50); -Mala Farska bay, Brač Is. (ŠTAMOL 1986:50); -Smrka, Brač Is., (ŠTAMOL 1986:50).

XH39

Materials: Bol, Brač Is., 08.1971, (18813-FV), 06.05.1987, (GC4838-Z); -Murvica, Brač Is., 08.1986, (GC4835, GC4836-Z); -Vidova gora Mt., Brač Is., 25.10.1982, (GC4910-Z).

XH53

Materials: Lastovo, Lastovo Is., 08.1981, (GC4897-Z); -Lučica, Lastovo Is., 28.11.1964, (3094-JB); -Ubli, Lastovo Is., 1985, (B); -Zaklopatica, Lastovo Is., 30.11.1964, (3093-JB).

XH59

Materials: Sumartin, Brač Is., 07.1975, (WM), 01.05.1980, (GC4861-Z), 03.02.1986, (GC4862, GC4863-Z).

References: Sumartin, Brač Is. (ŠTAMOL 1986:50).

XH65

Materials: Pupnat, 4,3 km r. Pupnatska Luka, 08.1987, (WM).

XH69

Materials: Biokovo (Mt.), Makar bij Makarska, 07.1975, (WM); -Kotina, Makarska, 10.11.1987, (GC4888-Z); -Makarska, (Lj, BC774-Z), 10.1970, (13250-FV), 07.1975, (WM), 10.1988, (WM); -Podgora, Makarska, 28.09.1978, (15668-JB); -summit Sv. Jure, Mt. Biokovo, 12.10.1985, (22109-JB); -Veliko brdo (Mt.), Makarska, 07.1975, (WM); -cave Veprić, 3 km ten westen Makarska, 07.1975, (WM).

References: Macarska (=Makarska) (STROBEL 1854:147), Makarska (BRANCSIK 1886:83; ILIJANIĆ, STOŠIĆ 1972:19).

XH75

Materials: Korčula, Korčula (Is.), 10.1978, (WM).

References: Korčula, Korčula Is. (HAAS 1930:135), in oude stad, eiland Korcula (=Korčula, Korčula Is.) (MAASSEN 1979:92, 1979a:45).

XH76

Materials: Sv. Ilija, Orebić, 10.1978, (WM).

References: Berg Sv. Ilija, Orebic (=Sv. Ilija Mt., Orebić) (MAASSEN 1979:92, 1979a:45).

XH87

Materials: Zaoštrog, Ploče, 20.07.1970, (5393-JB).

XH88

Materials: Drvenik, Makarska, 07.1975, (WM).

XH93

Materials: Babine Kuče, Mljet Is., 08.1971, (16244-FV); -Govedari, Mljet Is., 04.1980, (42804-FV); -Melita Is., Veliko jezero, Mljet Is., 02.09.1956, (929-JB), 09.1971, (16274-FV), 09.1976, (9845-JB), 08.1987, (WM); -Veliko jezero, Mljet Is., 08.1977, (12952-JB), 25.05.1980, (GC4895, GC4896-Z).

XH94

Materials: Polače, Mljet Is., 08.1971, (16252, 16262, 16267-FV).

XH95

Materials: Trstenik, Pelješac, 08.1987, (WM).

XH97

Materials: Bačinska jezera, Ploče, 07.1982, (WM); -Gradac, 1 km t. o., 09.1985, (WM).

XJ01

References: Trau (=Trogir) (KÖHLER 1912:80).

XJ03

Materials: Vidilica, Mt. Opor, Split, 29.10.1982, (GC4965-Z).

XJ06

Materials: Promina geb., Kijevo t. n. Vrljka, 05.1983, (WM).

XJ09

Materials: Ruduša, Strmica, Knin, 06.05.1981, (IL).

XJ10

Materials: Luka Bobovišća, Brač Is., 08.08.1980, (GC4845-Z).

References: Luka Bobovišća, Brač Is. (ŠTAMOL 1986:50).

XJ11

Materials: Arboretum, Mt. Marjan, Split, 22.06.1976, (9834-JB); -Marjan Mt., Split, 1956, (585-JB), 07.1956, (913-JB), 09.1956, (946-JB), 1970, (GC4898-Z), 10.1970, (13234-FV), 07.1975, (WM).

References: Marjan, Spljet (=Marjan Mt., Split) (BRUSINA 1872:134), Monte Marino, Spalato (=Marjan Mt., Split) (BRANCSIK 1886:87); -?Spalato (=Split) (BÖTTGER 1880:232; CLESSIN 1887:59; BRANCSIK 1906:146; STURANY 1908:42).

XJ12

References: Mt. Kozjak, summit (BRUSINA 1874:152).

XJ16

Materials: Vrljka, (Lj), 05.1977, (35923-FV), 28.05.1984, (GC4923-Z), 08.1986, (WM).

XJ17

Materials: Cetina spring, Cetina, 03.05.1990, (GC-Z).

XJ20

Materials: Ložišča, Brač Is., 08.08.1980, (GC4844-Z).

References: Ložišča, Brač Is. (ŠTAMOL 1986:50).

XJ22

Materials: Salona, Spalato (=Solin, Split) (Lj); -Cave Vranjača, Dugopolje, Mt. Mosor, 07.05.1981, (IL).

References: Clissa (=Klis) (BRANCSIK 1906:148); -Salona (=Solin) (CLESSIN, S., 1887:59).

XJ30

Materials: Dol, Brač Is., 02.05.1986, (GC4839-Z); -Lovrečina bay, Brač Is., 27.07.1986, (GC4837-Z); -Škrip, Brač Is., 05.08.1982, (GC4858-Z).

References: Dol, Brač Is. (ŠTAMOL 1986:50); -Lovrečina bay, Brač Is. (ŠTAMOL 1986:50); -Škrip, Brač Is. (ŠTAMOL 1986:50).

XJ31

Materials: Omiš, 20.09.1975, (9517-JB), 05.1983, (WM), 01.05.1989, (WM); -Sitno, Mt. Mosor, 1956, (596-JB).

References: Almissa (=Omiš) (BRANCSIK 1886:85, 1906:150; WAGNER 1939:98), Omiš (MAASSEN 1978:64).

XJ32

Materials: Kotlenice, Split, (Lj).

XJ34

References: Sinj (BRUSINA 1872:141).

XJ41

Materials: Radmanove mlinice, Omiš, 07.1975, (WM), 28.09.1978, (15698-JB).

XJ51

Materials: Zadvarje, Brela, Makarska, 07.1977, (WM), 28.09.1978, (15678-JB).

XJ60

Materials: Bast, Makarska, 16.10.1985, (22081-JB); -Stapin Dub, Zagvozd, Imotski, (Lj); -Zagvozd, Imotski, (Lj), 13.10.1985, (22117-JB).

XJ71

Materials: Modro jezero, Imotski, 30.04.1989, (WM), 01.05.1990, (GC-Z).

XK13

Materials: Janjila, tussen Bihač en Jajce, 07.1980, (WM).

XK42

Materials: Ribnik, Ključ, river Sana, 07.1969, (10308-FV).

XK62

Materials: Bjelajce, 2 km von Mrkonjić Grad r. Banja Luka, 08.1987, (WM).

XK63

Materials: (River) Vrbas kloof. 15 km t. z. Krupa na Vrbasu, 05.1984, (WM).

XK71

Materials: Jajce, 08.1987, (WM), 09.1988, (WM); -Plivsko jezero, Jajce, 05.1984, (WM).

XK72

Materials: Jajce, 9 km t. n., (river Vrbas), 05.1984, (WM); -Jajce, 22,1 km von Jajce r. Banja Luka, sudl. Abzweigung n. Mrkonjić Grad, 08.1987, (WM).

XK73

Materials: Bočac, springs, river Vrbas, 07.1969, (8887-FV), 09.1988, (WM).

XK74

Materials: (River) Vrbas, Krupa na Vrbasu, 05.1984, (WM).

XK75

Materials: (River) Vrbas, 5 km t. n. Krupa na Vrbasu, 09.1985, (WM).

XK81

Materials: Jajce, 1888, (Sa), 10.1968, (7741-FV), 04.1973, (23304-FV), 07.1979, (WM), 09.1980, (WM).

References: Jajce (BRANCSIK 1888/89:63, 1890:76).

XL20

Materials: Kostajnica, river Una, 27.08.1911, (BC792-Z).

References: Kostajnica, (river Una) (ILIJANIĆ, STOŠIĆ 1972:19).

XL40

Materials: Bosanska Dubica, 07.1969, (8831-FV).

XL72

Materials: Buk, Donji Rogolji, Mt. Psunj, 24.06.1986, (GC4911-Z).

XM02

Materials: Tonimir, Varaždinske Toplice, (BC724-Z); -Varaždinske Toplice, 1882, (BC744-Z).

References: Tonimir, Varaždinske Toplice (ILIJANIĆ, STOŠIĆ 1972:18); -Varaždinske Toplice (ILIJANIĆ, STOŠIĆ 1972:18).

XM10

References: M. Kalnik (=Mali Kalnik Mt.) (HIRC 1911:51).

XM42

References: Légrad (=Legrad) (SCHLESCH 1929:15).

YH03

Materials: Babino Polje, Mljet Is., 11.1966, (3793-JB).

YH13

Materials: Sobra, 1 km t. o., Mljet (Is.), 07.1987, (WM).

YH14

Materials: Prapratna (bay), Ston, Pelješac, 05.1984, (WM); -Ston, Pelješac, 05.1984, (WM).

YH17

Materials: Metković (RC-Z).

References: Metcovich (=Metković) (STROBEL 1854:147), Metcovic (=Metković) (BÖTTGER 1880:232), Metković (BÖTTGER 1886:40; RODING 1966:129, 130).

YH27

Materials: Počitelj, Metković, 05.1984, (WM), 25.04.1989, (WM).

YH39

Materials: Buna, Blagaj, 05.1984, (WM); -River Bunica, spring, Blagaj, Mostar, 24.08.1968, (4202-JB).

YH42

Materials: Sv. Andrija Is., Dubrovnik, 05.10.1962, (2005-JB).

YH43

Materials: Trsteno, arboretum, 27.09.1975, (9424-JB).

References: Tresteno (=Trsteno) (JAECKEL, MEISE 1956:28).

YH44

Materials: Gubava peć, Zavala, Popovo polje, 23.09.1975, (9457-JB); -Zavala, Popovo polje, 09.1961, (1764-JB), 07.1982, (WM).

YJ01

Materials: Gornja Britvica, Lištica, 30.04.1990, (GC-Z); -Izbično, Lištica, 29.04.1990, (GC-Z).

YJ05

Materials: Makljen pas, 09.1980, (WM).

YJ06

Materials: Gornji Vakuf, 10 km t. z., n-zijde Makljen pas, 24.04.1989, (WM).

YJ15

Materials: Ravnica, t. z. Prozor, 24.04.1989, (WM).

YJ19

References: Travnik (MÖLLENDORF 1873:58).

YJ20

Materials: Mostar, (BC933-Z), (Lj).

References: Hum, Mostar (BRANCSIK 1886:80); -Mostar (BRANCSIK 1906:172).

YJ21

Materials: Jezero Dubrovica, 10,8 km r. Jablanica, zw. Jablanica u. Mostar, 08.1987, (WM).

YJ22

Materials: Jablanica, 10 km t. z., 09.1985, (WM); -Jablanica, 14 km r. Mostar, 24.04.1989, (WM).

YJ39

Materials: Zenica (RZ-Z).

References: Janjiči (BRANCSIK 1888/89:67, 1890:76).

YK20

Materials: Čukle, Travnik, (Lj).

YK31

References: Nemila (BÖTTGER 1885:63).

YL22

Materials: Djedina Rijeka, 07.1969, (8782-FV).

References: Ruševo (ERJAVEC 1875:72).

BN52

Materials: Lapad, omg. camping Solitude, Dubrovnik, 25.04.1989, (WM).

BN61

Materials: Mrkan Is., 02.10.1962, (2004-JB).

BN62

Materials: Dubrovnik (BC763-Z); -Komolac, Dubrovnik, 05.1984, (WM); -Kupari, Dubrovnik, 05.1984, (WM); -Lokrum Is., (BC778-Z), 26.04.1989, (WM); -Ombla (=river Rijeka dubrovačka, Dubrovnik, (BC773-Z).

References: Ragusa (=Dubrovnik) (FRAUENFELD 1856:434; BRUSINA 1866:129; BÖTTGER 1880a:111; BRANCSIK 1886:52; CLESSIN 1887:59; KÖHLER 1912:83), Dubrovnik (ILIJANIĆ, STOŠIĆ 1972:19); -Gravosa (=Gruž, Dubrovnik) (STROBEL 1854:147); -Insel Locrum (=Lokrum Is.) (JAECKEL, MEISE 1956:28), Lokrum Is. (ILIJANIĆ, STOŠIĆ 1972:19); -Ombla (=river Rijeka dubrovačka), Dubrovnik (BRANCSIK 1886:73; ILIJANIĆ, STOŠIĆ 1972:19); -Sergio (=Srd Mt.), Dubrovnik (BRUSINA 1872:148).

BN63

Materials: Nevada, Grebci, Trebinje, 09.11. 1961, (1765-JB).

BN81

Materials: Kuna, Mt. Kišnik, Mt. Sniježnica, 13.10.1984, (GC4891-Z).

References: Pridvorje (=Pridvorje) (BÖTTGER 1880a:111).

BN90

Materials: Mandiči, Herceg-Novi, 25.09.1978, (15480-JB); -Sutorina, Igalo, 01.10.1975, (9591-JB).

BP52

Materials: Boračko jezero, t. z. Konjic, 09.1985, (WM).

BP62

Materials: Boračko jezero, Konjic, 07.1969, (4763-JB).

BP77

Materials: Viosoko, Sarajevo, (RC-Z).

BP85

Materials: Bosna spring, Ilidža, Sarajevo, 07.1980, (WM), 05.1984, (WM); -Ilidža, omg. camping, Sarajevo, 05.1984, (WM).

BP86

References: Reljevo (BRANCSIK 1897:89).

BP95

Materials: ?Sarajevo, (Lj, Sa).

BQ65

References: Ussora (=river Usora), Doboj (MÖLLENDORF 1871:65); -Doboj (MÖLLENDORF 1871:70).

BR60

References: Brood (=Bosanski Brod?) (MÖLLENDORF 1871:66).

CM19

Materials: Kotor, (Sa), 06.1975, (30704-FV); -Kotor-Njeguši, 07.1975, (30567, 30913-FV); -San Giovanni, Kotor, 07.1975, (30742, 30760-FV).

References: Cattaro (=Kotor) (STROBEL 1854:147).

CM28

Materials: Budva, 02.10.1986, (GC4887-Z).

CM29

References: Cetinje (BRUSINA 1872:160, 1907:147).

CM36

References: Spitzagebiet (=Spič region, Sutomore) (BÖTTGER 1886:40), Spitz Sutomore (=Spič region, Sutomore) (KOBELT 1897:321).

CM37

Materials: Gluhi Do, Virpazar, 09.1976, (33100-FV); -Petrovačka gora Mt., Petrovac, 24.09.1978, (15465-JB).

CM47

Materials: Limska kapa, Virpazar, 09.1976, (33082-FV).

References: Vir Bazaar (=Virpazar) (WOHLBEREDT 1901:198, 208).

CM48

Materials: Vranjina, Virpazar, 24.09.1978, (15457-JB), 08.1986, (45642-FV).

References: Zabliak, Zablak (=Žabljak) (WOHLBEREDT 1901:197, 208).

CM54

Materials: Ulcinj, (3148-FV), 07.1956, (914-JB), 09.1956, (5734-FV).

CM59

References: River Cem=Zem, Cievna (=river Cijevna, Čemovsko polje?) (STURANY 1913:52).

CN00

References: Praesieka, Cattaro (=Presjeka, Kotor) (WALDERDORFF 1864:511); -Risan, 05.1984, (WM).

CN01

References: Pazua, Jelovi do (=Pazua Mt., Krivošije region) (BRANCSIK 1886:69).

CN10

References: Dobrota (=Dobrota, Boka Kotorska) (WALDERDORFF 1864:511; CLESIN 1887:59).

CN20

Materials: Njeguši, Mt. Lovćen, 1910, (B).

CN23

Materials: Orlina, am Sudufer Vrtac-See, so v. Nikšić, 08.1987, (WM).

CN29

Materials: Mratinje, 1 km na afslag, Plužine, 09.1980, (WM).

CN32

Materials: Glava Zete, river Zeta, Nikšić, 09.1976, (33433-FV).

CN33

Materials: Nikšić, (Lj).

CN47

Materials: Kamenjača, Crno jezero, Mt. Durmitor, 22.06.1982, (20038-JB).

CN60

Materials: Bioče, Titograd, 23.09.1978, (15437-JB).

CN63

Materials: (Monastery) Morača, 09.1980, (WM); -(River) Morača, 10 km t. z. (monastery) Morača, 07.1987, (WM).

CN64

Materials: Morača klisura, 10 km t. n. (monastery) Morača, 10.1988, (WM).

CN67

References: Prenčani (=Premčani) (BOLE 1984:370).

CN68

References: Durđevića Tara (BOLE 1984:370).

CN73

References: Vrujce (=Vrujice?) (TOMIĆ 1959:51).

CN76

References: Bistrica, (river Tara) (BOLE 1984:370).

CP39

Materials: Derventa, (Vlasenica), 1906, (3783-B).

References: Derwenta (=Derventa, Vlasenica?) (MÖLLENDORF 1873a:146); -Derventa, (Vlasenica) (PAVLOVIĆ 1912:117; TOMIĆ 1959:51).

CP54

Materials: Most na Drini (=Most na Limu?), Ustiprača, 30.08.1982, (20213-JB); -Orahovci, Višegrad, river Drina, 21.09.1978, (15287, 15288-JB).

CP65

Materials: Višegrad, 1 km t. w., 09.1980, (WM); -Višegrad, 4 km t. w., 07.1980, (WM).

CP68

Materials: Debelo Brdo, Valjevo, 1906, (3785-B).

CP76

Materials: Perućac, river Drina, 1909, (3786-B).

CP86

Materials: Derventa, Mt. Tara, 21.09.1978, (15352-JB).

CP88

Materials: Rogačica, Gornje Košlje, 1906, (3777-B).

CP89

References: Gornje Košlje (PAVLOVIĆ 1912:117; TOMIĆ 1959:51).

CR61

Materials: Lovka, Šarengard, 06.1977, (36558-FV), 20.05.1981, (IL).

CR70

Materials: Ilok, 1985, (B).

CR80

Materials: Susek, Beočin, 07.1969, (10396-FV), 23.05.1983, (GC4889, GC4925-Z).

CR90

References: Cerevic, Fruska Gora (=Čerevič, Mt. Fruška gora) (SCHLESCH 1929:14).

DL65

Materials: Čafasan-Struga, Ohrid (Sk).

DL67

Materials: Lukovo, Struga, Ohrid, (Sk); -Lukovo, 1,5 km t.n. langs Drim, 05.1976, (WM).

References: Crni Drim, 1,5 km. ten noorden van Lukovo (MAASSEN 1980:74).

DL68

Materials: Lukovo, 3 km t. n. langs Drim, 05.1975, (WM).

References: Crni Drim, 3 km. ten noorden van Lukovo (MAASSEN 1980:74).

DL69

Materials: Kosovrasti, river Radika, 09.1968, (7372-FV).

DL73

Materials: Monastery Sveti Naum, Ohrid, (Lj).

DL75

References: Struga-Orovnik, Ohrid (MAASSEN 1980:74).

DL83

Materials: Peštani, 1 km t. z., Ohrid, 05.1975, (WM).

References: 2,5 km ten zuiden van Pestani (=Peštani) (MAASSEN 1980:74); -Trpejca (MAASSEN 1980:74); -Trpejca-Otesevo (=Oteševo) (MAASSEN 1980:74).

DL84

Materials: Orce Nikolov, b. tunnel, t. z. Ohrid, 04.1975, (WM); -Peštani, Ohrid, (Sk); -Sveti Stefan, Ohrid, 09.1968, (7362-FV); -Sveti Stefan, 6,5 km t. z. Ohrid, 05.1975, (WM).

References: Sveti Stephan (=Sveti Stefan) am Ohrid See, etwa 5 km südlich von Ohrid (RODING 1966:129, 130), Galiciagebergte (=Mt. Galičica), Sv. Stefan (MAASSEN 1980:74); -Hotel Orce Nikolov, Ohrid (MAASSEN 1980:74); -1 km. ten zuiden van Pestani (=Peštani) (MAASSEN 1980:74).

DL85

Materials: Ohrid, (1986-FV); -Orovnik, tussen Struga en Ohrid, 05.1976, (WM).

DM60

Materials: Monastery Sveti Jovan Bigorski, river Radika, (Sk), 07.1979, (WM), 08.1979, (39202, 39351-FV).

DN42

Materials: Peč (Lj).

DP39

Materials: Vrujci, Valjevo, 1909, (3782-B).

DQ10

Materials: Valjevo, 1906, (3775-B).

References: Valjevo (TOMIĆ 1959:51).

DQ19

References: Grgeteg (ERJAVEC 1875:72).

DR10

References: Karlovci (=Sremski Karlovci) (ERJAVEC 1875:72); -Velika Remeta (ERJAVEC 1875:72).

EL68

References: Prilep-Kavadarci (RODING 1966:128, 130).

EL87

Materials: Monastery Pološki manastir, Tikveš ezero (Sk).

EM24

Materials: Matka, Skopje, (Sk), 22.06.1963, (2301-JB), 09.1968, (7387-FV).

EM34

Materials: Kozle, Skopje (Sk).

EM35

Materials: ?Skopje, 1907, (4161-B).

EM45

Materials: Makedonski Brod, Creševo, (Sk).

EM53

References: Katlanovska Banja, Katlanovo (RODING 1966:127, 130).

EP65

Materials: Krivi Vir, Zaječar, 1906, (3779-B).

References: Krivi Vir (PAVLOVIĆ 1912:117; TOMIĆ 1959:51).

EP95

References: Lubnica, (Zaječar?) (PAVLOVIĆ 1912:117).

EQ36

Materials: Kusić, river Nera, Bela Crkva, 06.1977, (36576-FV).

EQ74

Materials: Bosman, Derdap canyon, 1966, (265-B).

EQ82

Materials: Donji Milanovac, 1966, (B).

FL08

Materials: Demir Kapija, 06.1964, (3333-JB), 07.1975, (31089-FV), 19.04.1979, (16939-JB), 07.1980, (WM).

References: Demir Kapija (RODING 1966:128, 130).

FL15

Materials: Huma, Gevgelija, 07.1970, (12643-FV).

FL16

Materials: River Rečka, Konjsko (=Konsko), Mt. Kožuf, 07.1975, (29683-FV).

FL36

References: Auf dem Nordwestabhange des am Westufer des Doiran-Sees gelegenen Berges Kalaatepesi (=near summit Dub, Stari Dojran ?) (HESSE 1929:95).

FL38

References: Strumica-Kosturino (RODING 1966:128, 130).

FL45

Materials: Crni potok. Dojran, (Sk).

FL46

Materials: Dojran, W, 07.1975, (29684-FV); -Novi Dojran, 06.1973, (23557-FV), 06.1974, (26233-FV), 07.1975, (30792-FV), 19.04.1979, (16952-JB); -Stari Dojran, 06.1964, (3334-JB).

References: Novi Dojran (RODING 1966:129, 130); -Stari Dojran (RODING 1966:129, 130).

FM32

References: Novo Selo, (Vinica, Kočani) (PAVLOVIĆ 1911:101).

FP08

Materials: Velika Jasikova. 1906, (3780-B).

References: V Jasikova (=Velika Jasikova) (PAVLOVIĆ 1912:117), Velika Jasikova (TOMIĆ 1959:51).

FP28

Materials: Rajac, Negotin, 1906, (3787-B).

References: Rajac, (Negotin) (PAVLOVIĆ 1912:117; TOMIĆ 1959:51).

FP29

Materials: Bratujevac, (Bratujevačka Pivnica), Negotin, 1906, (3781-B); -Negotin, (GC2766-Z).

References: Bratujevac, (Bratujevačka Pivnica, Negotin) (PAVLOVIĆ 1912:117; TOMIĆ 1959:51).

4.1.2. *Pomatias rivulare* – List of localities

CN98

Materials: Brodarevo, river Lim, 22.09.1978, (15381-JB); -Brodarevo, 2 km t. z., t. z. Prijepolje, 07.1987, (WM); -Brodarevo-Bijelo Polje, 07.1979, (WM).

CQ52

Materials: Gučevo Mt., 1908, (3736-B).

References: Gučevo (Mt.) (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

CQ53

Materials: Banja Koviljača, Loznica, 1911, (3735-B).

References: Koviljača (=Banja Koviljača, Loznica) (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

CR90

Materials: Testera, Novi Sad, 07.1969, (8926-FV); -Čerević njive, Čerević, Novi Sad, 30.05.1910, (BC782-Z).

References: Čerević, Fruška gora (=Čerević, Mt. Fruška gora)(CSIKI 1906:40), Čerević, Fruška Gora (=Čerević, Mt. Fruška gora) (SCHLESCH 1929:14); -Čerević njive, (Čerević) (ILIJANIĆ, STOŠIĆ 1972:19).

DN06

Materials: Lim-dal t. n. Ivangrad t. n. Zaton, 09.1980, (WM).

DN22

Materials: summit Čakor, 1957, (B).

DQ10

Materials: Gradac, Valjevo, 1908, (3739-B), 1910, (B); -Valjevo, 1909, (3738-B).

References: Gradac, (Valjevo) (PAVLOVIĆ 1912:116; TOMIĆ 1959:50); -Valjevo (TOMIĆ 1959:50); -Vidračka stena, river Graca, Valjevo (PAVLOVIĆ 1912:116).

DQ19

Materials: Irig, Srijem region, 27.05.1910, (BC780-Z).

References: Irig, Srijem (region) (ILIJANIĆ, STOŠIĆ 1972:19).

DQ56

Materials: Topčider, Beograd, 1909, (B), 1911, (3723-B).

References: Topčider, (Beograd) (PAVLOVIĆ 1912:116; TOMIĆ 1959:51).

DQ64

Materials: Avala Mt., Beograd, 1984, (325-B).

DQ65

References: Kumodraž (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

DQ66

Materials: Višnjica, Beograd, 1909, (3731-B).

References: Višnjica, (Beograd) (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

DQ74

Materials: Grocka, Beograd, 1909, (3730-B).

References: Ritopek-Grocka, (Beograd) (PAVLOVIĆ 1912:116); -Grocka, (Beograd) (TOMIĆ 1959:50).

DR00

Materials: Beočin, Novi Sad, 29.05.1910, (BC781-Z); -Rakovac, Mt. Fruška gora, 07.1969, (9724-FV).

References: Beočin, Novi Sad (ILIJANIĆ, STOŠIĆ 1972:19).

EN89

Materials: Niška Banja, 1909, (3743-B).

References: Niška Banja (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

EP38

Materials: Monastery Manasija, Despotovac, 1908, (3726-B).

References: Manasija (monastery, Despotovac) (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

EP45

Materials: Grzina klisura, Čuprija, Paraćin, 1907, (3734-B).

References: Grzina klisura, (Čuprija, Paraćin) (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

EP46

Materials: Monastery Ravanica, Čuprija, Paraćin, 1906, (3723-B).

References: Ravanica (monastery, Čuprija, Paraćin) (PAVLOVIĆ 1912:116; TOMIĆ 1959:51).

EP48

Materials: Jelovac, Despotovac, 1906, (3724-B).

References: Jelovac, (Despotovac) (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

EP73

Materials: Soko Banja b. Aleksinac, 2 km r. Ozren, 05.1984, (WM).

References: Soko Banja bij Aleksinac, 2 km. richting Ozren (MAASSEN 1988:37).

EP75

Materials: Bogovina, 1960, (11346-FV); -Golemi Vrh Mt., Boljevac, Zlot, 1907, (3750-B).

EP77

Materials: Zlot, 1908, (3749-B), 1987, (B).

References: Zlot (MÖLLENDORF 1873a:146; PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

EP90

Materials: Crnoljevica, Svrlijig, 1909, (3756-B).

References: Crnoljevica, (Svrlijig) (TOMIĆ 1959:51).

EP93

Materials: Lepena, Valevac, Knjaževac, 1907, (3761-B), 1984, (B).

EP94

Materials: Gornja Bela Reka, Zaječar, 1906, (3752-B).

References: Gornja Bela Reka (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

EP95

References: Lubnica, (Zaječar?) (PAVLOVIĆ 1912:116).

EP98

Materials: Donja Bela Reka, Bor, 1907, (B).

References: Donja Bela Reka, (Bor) (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

EQ31

Materials: Petrovac, river Mlava, 1906, (3737-B).

References: Petrovac, (river Mlava) (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

EQ40

Materials: Monastery Gornjak, Krepoljin, 1908, (3727-B), 1987, (B); -Krepoljin, 1908, (B).

References: Monastery Gornjak, (Krepoljin) (PAVLOVIĆ 1912:116; TOMIĆ 1959:50);
-Krepoljin (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

EQ44

Materials: Usije, Golubac, 1985, (B).

EQ52

Materials: Potajnica (=spring Potajnica, Kučevo?), 1907, (3768-B).

References: Potajnica (=spring Potajnica, Kučevo?) (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

EQ53

Materials: Tuman (=monastery Tumane?), Golubac, 1907, (3766-B); -Turija, Kučevo, 1907, (3769-B).

References: Tuman (=monastery Tumane, Golubac?) (PAVLOVIĆ 1912:116; TOMIĆ 1959:51); -Turija, (Kučevo) (PAVLOVIĆ 1912:116; TOMIĆ 1959:51).

EQ54

Materials: Golubac, 1906, (3764-B), 1965, (B), 1967, (283-B).

References: Golubac (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

EQ74

Materials: Bosman, Derdap canyon, 1966, (266-B).

EQ82

Materials: Donji Milanovac, 1907, (3746-B), 1966, (267-B), 08.08.1967, (4574-JB).

References: Donji Milanovac (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

EQ83

Materials: Boljetin, 1966, (268-B), 1984, (B), 1985, (B); -Lepenski vir, Donji Milanovac, 27.05.1987, (46489-FV).

References: River Lepena, Donji Milanovac (PAVLOVIĆ 1912:116), Lepena, (Donji Milanovac) (TOMIĆ 1959:50).

EQ92

Materials: Cave Štrbačka pećina, Golubinje, Donji Milanovac, 10.1984, (43933-FV);
-Cave Šupljaka, Miroč, Donji Milanovac, 10.1984, (44111-FV).

FP01

Materials: Cave Gaura Ra, Štrbac, 05.06.1987, (22453-JB).

FP02

Materials: Knjaževac, 1907, (3755-B).

References: Knjaževac (TOMIĆ 1959:50).

FP05

Materials: Grlšte, Negotin, 1908, (3754-B).

References: Grlšte, (Negotin) (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

FP07

Materials: Rgotski kamen, Rgotina, Zaječar, 1907, (3747-B).

References: Rgotski kamen, (Rgotina, Zaječar) (PAVLOVIĆ 1912:116; TOMIĆ 1959:51).

FP28

Materials: Rajac, Negotin, 1907, (3757-B).

References: Rajac, (Negotin) (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

FP29

Materials: Negotinsko blato, Negotin, 02.06.1960, (1516-JB).

FQ00

Materials: Plavna, Negotin, 1985, (B).

FQ01

Materials: Vratna, 1907, (B), 1984, (B).

References: Vratna (PAVLOVIĆ 1912:116; TOMIĆ 1959:50).

FQ03

Materials: summit Veliki Štrbac, 1985, (B).

FQ04

Materials: summit Mali Štrbac, 1908, (3760-B), 1968, (272-B), 1984, (B); -Perača, Kazan canyon, 1967, (271-B); -Pešter, Kazan canyon, 1908, (3758-B).

References: M. Štrbac (=summit Mali Štrbac) (PAVLOVIĆ 1912:116); -Mali Štrbac (TOMIĆ 1959:50); -Pešter, (Kazan canyon)(PAVLOVIĆ 1912:116); -Peštar (=Pešter), Kazan (canyon) (TOMIĆ 1959:50).

FQ14

Materials: Tekija, Kladovo, Đerdap canyon, 1984, (B).

5. Conclusion

The UTM distribution maps of the species *Pomatias elegans* and *Pomatias rivulare* were made by processing 943 data from the collections and 379 data from the literature. Most data relate to the regions of Slovenia and the Adriatic coast. Due to a greater malacological attractiveness and a higher level of research of these regions in the past, as well as the rich recent collections of the Biological Institute »Jovan Hadži« ZRC SAZU, France Velkovrh and W. J. M. Maassen, the major part of these regions is covered fairly well. Future research should be directed towards the »blank« UTM squares to ascertain whether the absence of data for the relevant regions results from poor research of those parts or non-existence of *Pomatias elegans* and *Pomatias rivulare* therein.

In relation to the UTM map with 50 × 50 kilometre squares for the species *Pomatias elegans* (KERNEY 1976:246), it is evident that many UTM squares in the present map (Fig. 3) are new (almost all squares in northern, central and eastern Yugoslavia). A closer comparison of the maps shows that the following 59 squares⁶ have not been noted so far for *Pomatias elegans*: UK3, UL4, UM4, VJ3, VL3, VM2, VM4, WJ2, WJ3, WJ4, WK3, WK4, WL1, WL2, WL3, WM2, WM3, WM4, XH1, XH2, XH4, XJ1, XJ4, XK2, XK3, XK4, XL2, XL4, XM2, YJ1, YJ2, YK2, YL2, BP3, BP4, BQ3, BR4, CM4, CN1, CN2, CP1, CP3, CP4, CR4, DL4, DN2, DP1, DQ1, DQ2, DR2, EL3, EM1, EM4, EP3, EQ1, EQ4, FL1, FM2, FP1.

⁶ System of indicating 50 × 50 kilometre squares inside a 100 × 100 kilometre UTM square is by the principle shown in Figure 3.

The present UTM distribution maps of the species *Pomatias elegans* (Fig. 1) and *Pomatias rivulare* (Fig. 2) for the region of Yugoslavia correspond with the range of these species (*P. elegans* - the Mediterranean-west-European; *P. rivulare* - Pontus-northeast-Balkanite). Both appear in a small number of squares (eight), namely: CR90, DQ10, DQ19, EP95, EQ74, EQ82, FP28, FP29 (Fig. 1 and Fig. 2). So the localities indicated therein are common for both species, except those in the DQ19 and FP29 squares (pages 28–30). Closer investigations of the eastern and central parts of Yugoslavia would widen our knowledge on the distribution of these snails and their sympatricity.

However, it is indispensable to research also other regions, especially those on which the data available are either old or their respective UTM allocations could not be determined with certainty. Such cases most often involved localities indicated either too widely (i.e. over several UTM squares) or too narrowly, and without indication of any larger neighboring localities, or when a locality is a homotonym (i.e. when two or more places have the same name). Such data were taken into consideration only if their correctness could be verified with the collectors (when processing data from the recent collections) or if they could be determined with relative "certainty" from the description

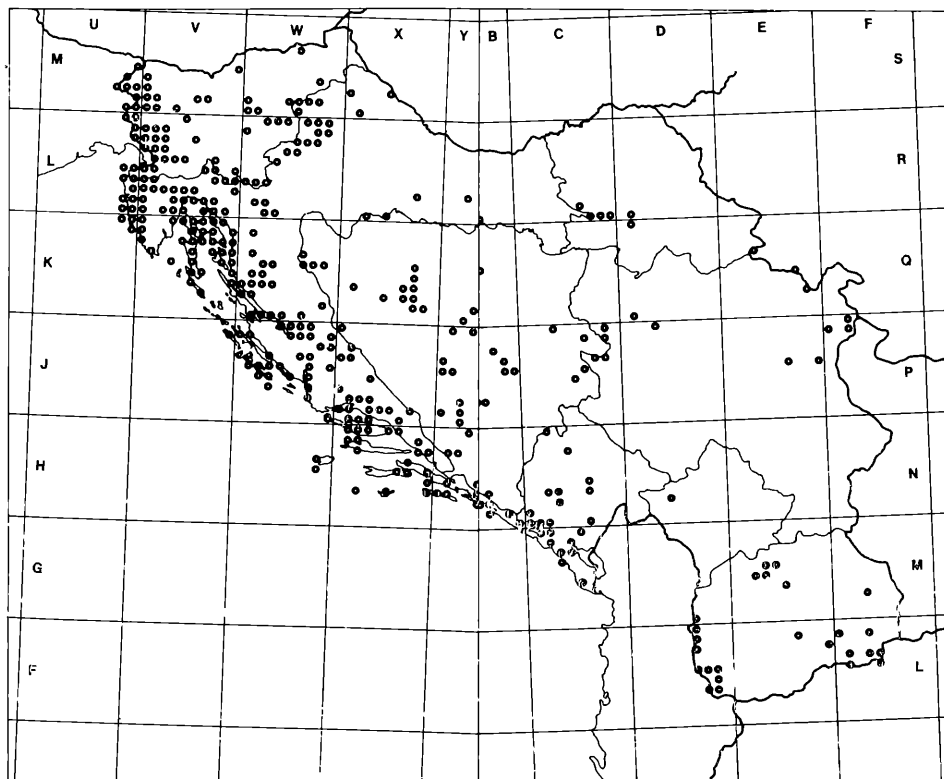


Fig. 1. Distribution of *Pomatias elegans* in the area of Yugoslavia. The presence of the species in a 10×10 kilometre square of UTM grid is shown by a circle.

Sl. 1. Razširjenost vrste *Pomatias elegans* v Jugoslaviji. Prisotnost vrste na poljih velikosti 10×10 km UTM mreže je označena s krogom.

of the exact position of the locality (when processing data from the literature). For this reason it is essential that in future collections and papers, in addition to the locality, the respective UTM square be also indicated.

Summary

The distribution of two species of land snails, *Pomatias elegans* (O. F. Müller, 1774) and *Pomatias rivulare* (Eichwald, 1829), in the region of Yugoslavia is shown by using 10 × 10 kilometre grid square UTM maps (Fig. 1 and Fig. 2) and a list of UTM squares and localities (pages 3–34). For that purpose the malacological collections of all major natural history museums of Yugoslavia (Natural History Museum of Slovenia in Ljubljana, Croatian Natural History Museum in Zagreb, Regional Museum of Bosnia and Herzegovina in Sarajevo, Natural History Museum in Belgrade, Natural History Museum of Macedonia in Skopje), the malacological collection of the Biological Institute “Jovan Hadži” ZRC SAZU in Ljubljana (made by Dr. Jože Bole), and the private collections of France Velkovrh from Ljubljana, Ivica Lajtner from Zagreb and W. J. M. Maassen from

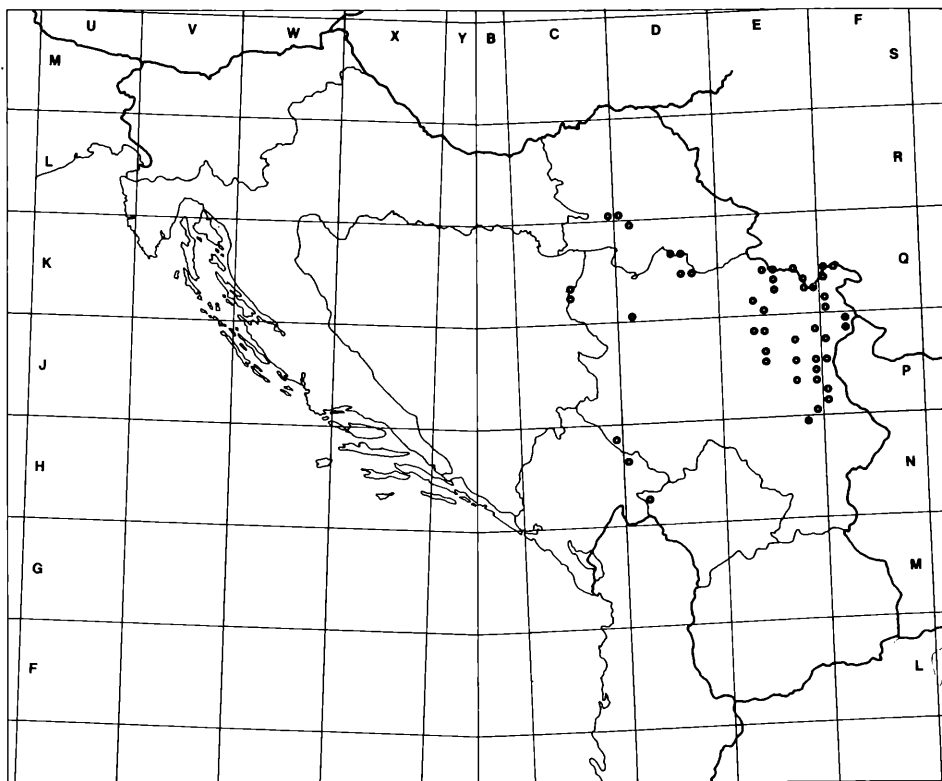


Fig. 2. Distribution of *Pomatias rivulare* in the area of Yugoslavia. The presence of the species in a 10 × 10 kilometre square of UTM grid is shown by a circle.

Sl. 2. Razširjenost vrste *Pomatias rivulare* v Jugoslaviji. Prisotnost vrste na poljih velikosti 10×10 km UTM mreže je označena s krogom.

Duivendrecht (Netherlands) were investigated. The literature available was explored, too. Thus more than 1300 data localities for which the respective UTM location was determined were processed.

The comparison between the UTM distribution map of the species *Pomatias elegans* in this paper and the UTM distribution map (50 × 50 kilometre grid squares) of the same species in the European region (KERNEY 1976:246) shows that the data for 59 UTM squares of the (mainly northern, central and eastern) Yugoslavia are new (Fig. 3).

The distribution maps of the species investigated with reference to the region of Yugoslavia correspond with their respective range (*Pomatias elegans* - the Mediterranean-west-European; *Pomatias rivulare* - Pontus-northeast-Balkanite). The two species appear together in only eight UTM squares, in 6 localities, respectively (CR90-Čerević, DQ10-Va-ljevo, DQ19, EP95-Lubnica, EQ74-Bosman, EQ82-Donji Milanovac, FP28-Rajac, FP29).

As evident from the list of the UTM squares and localities most data refer to the region of NW Yugoslavia and the Adriatic coast. Unfortunately, however, it is as yet unknown whether the squares with no data available remain "blank" because the regions involved have not been researched or else due to the absence of these snails therein. It

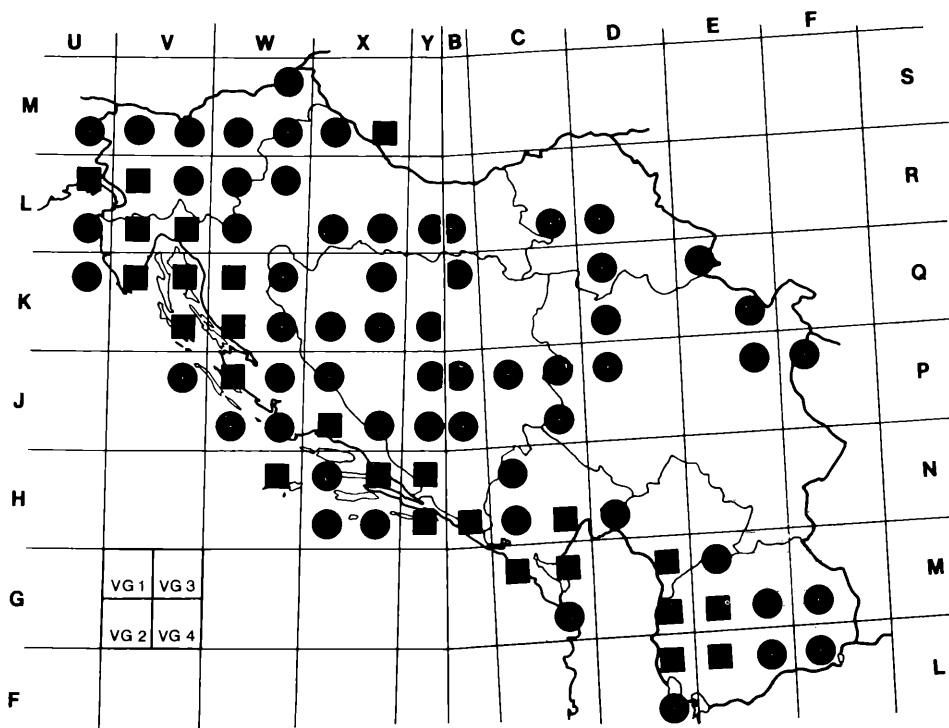


Fig. 3. Distribution of *Pomatias elegans* in the area of Yugoslavia plotted on 50 × 50 kilometre UTM squares. Black squares indicate UTM squares by KERNEY (1976:246). »New« UTM squares are indicated by circles.

Sl. 3. Razširjenost vrste *Pomatias elegans* v Jugoslaviji, vrisana na UTM polja velikosti 50 × 50 km. S črnimi kvadrati so označena UTM polja, navedena v delu Kerney-a (1976: 246). »Nova« UTM polja so označena s krogi.

suggests that further investigations of these regions of Yugoslavia are necessary, which would improve our knowledge on distribution of these species, their sympatricity, resp., and would contribute to a more accurate UTM mapping of Europe.

Povzetek

Razširjenost kopenskih polžev *Pomatias elegans* (O. F. Müller, 1774) in *Pomatias rivulare* (Eichwald, 1829) v Jugoslaviji je prikazana na UTM mreži s polji 10 × 10 km (sl. 1 in sl. 2) in s pomočjo popisa UTM kvadratov in lokalitet (str. 3–34). V ta namen so bile pregledane vse malakološke zbirke v večjih naravoslovnih muzejih Jugoslavije (Prirodoslovni muzej Slovenije v Ljubljani, Hrvatski prirodoslovni muzej v Zagrebu, Zemaljski muzej Bosne i Hercegovine v Sarajevu, Prirodnjački muzej v Beogradu, Prirodnonaučen muzej na Makedonija v Skopju), malakološka zbirka Biološkega inštituta Jovana Hadžija ZRC SAZU v Ljubljani (zbral in uredil dr. Jože Bole) ter zasebne zbirke Franceta Velkavrha v Ljubljani, Ivica Lajtnerja v Zagrebu in W. J. M. Maassena iz Duivendrecht (Nizozemska). Pregledana je bila vsa dostopna literatura. Tako je obdelano več kot 1300 podatkov oziroma lokalitet, ki jim je odrejena UTM pripadnost.

Pri primerjavi UTM mreže razširjenosti vrste *Pomatias elegans* v tem prispevku z UTM mrežo razširjenosti iste vrste (kvadrati velikosti 50 × 50 km) za območje Evrope (KERNEY 1976: 246) ugotavljamo, da so za Jugoslavijo novi podatki za 59 kvadratov (v glavnem severni, srednji in vzhodni del države) (sl. 3).

Dobljene karte razširjenosti na območju Jugoslavije so pri obeh vrstah (sl. 1 in sl. 2) v skladu z njunim tipom razširjenosti (*Pomatias elegans* – mediteransko-zahodnoevropska, *P. rivulare* – pontsko-severovzhodno balkanska). Obe vrsti se pojavljata skupaj samo na osmih UTM poljih, oziroma na šestih lokalitetah (CR90-Čerević, DQ10-Valjevo, DQ19, EP95-Lubnica, EQ74-Bosman, EQ82-Donji Milanovac, FP28-Rajac, FP29).

Iz popisa UTM polj in lokalitet je razvidno, da je največje število podatkov vezanih na območje severozahodne Jugoslavije in obale Jadrana. Na žalost ne vemo, ali so polja, za katera nimamo podatkov, »prazna« zaradi neraziskanosti teh predelov ali pa zaradi odsotnosti obravnavanih vrst polžev. Zaradi tega so potrebne podrobnejše raziskave teh območij Jugoslavije, kar bi prispevalo k boljšemu poznavanju razširjenosti obeh vrst, s tem pa njune simpatričnosti, ter k točnejši izdelavi UTM kart Evrope.

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