

## **MATERIALS FOR A FLORA OF SERBIA FROM THE HERBARIUM COLLECTION PZZP (2)**

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In this article is presented the second part of data on selected new and noteworthy taxa for a flora of Serbia resulting from the ongoing process of examination and revision of the Herbarium collection of the Institute for Nature Conservation of the Vojvodina province (PZZP). These data are including 22 species, 14 subspecies, 1 variety, 1 form, 1 infraspecific taxon with indetermined taxonomical status [stat. indet.] and one nothospecies belonging to 11 genera (*Leontodon* L., *Lepidium* L., *Leucanthemella* Tzvelev, *Leucanthemum* Mill., *Leucojum* Mill., *Limonium* Mill., *Limosella* L., *Linaria* Mill., *Lindernia* All., *Linum* L. and *Scorzoneroides* Moench). One subspecies (*Linum capitatum* subsp. *serrulatum*), one nothospecies (*Linaria* × *oligotricha*) and 3 taxa on the different infraspecific levels are new for a flora of Serbia.

**Key words:** botanical collections, flora, chorology, Serbia.

### INTRODUCTION

As a continuation of our previous work (Perić *et al.* 2018) this article is dealing with the most recent results of the ongoing process of identification, revision and publishing data on selected new and noteworthy taxa

extracted from the Herbarium collection of the Institute for Nature Conservation of the Vojvodina province in Novi Sad (PZZP) and accompanied with a review of already published data for Serbia.

In this paper are included data for the following genera: *Leontodon* L., *Lepidium* L., *Leucanthemella* Tzvelev, *Leucanthemum* Mill., *Leucojum* Mill., *Limonium* Mill., *Limosella* L., *Linaria* Mill., *Lindernia* All., *Linum* L. and *Scorzonerooides* Moench.

## MATERIAL AND METHODS

Material and methods are essentially the same as in our previous contribution (Perić *et al.* 2018): selection of vascular plant taxa (including nothotaxa) is based on the following criteria: 1) new (unpublished) taxa for a flora of Serbia, 2) otherwise known taxa documented so far with only a few published records for Serbia, 3) taxa with unclear or questionable distribution in Serbia due to recent substantial changes in their taxonomical concept, 4) revised or supplemented published data and 5) taxa protected by law in Serbia.

Unless otherwise stated, nomenclature follows the Euro+Med Plant Base (2006+). Author citations are given according to Rec. 46A, note 1 of the Code (Turland *et al.* 2018). When citing the types, the term “scan” means a HD picture available online through official herbarium websites or digital platforms (e.g. Europeana, Herbarium WU, Herbarium Catalogue of the Botanic Garden Meise, Vascular plants collection of the Muséum national d'Histoire naturelle in Paris). Distribution data are mapped on the 10 × 10 km MGRS UTM maps (Lampinen 2001) within UTM Grid Zone 34T. Geographical regionalization of Serbia is cited according to Stevanović (1999). Abbreviations for herbarium collections used in the text are given according to Thiers (2016+).

## RESULTS AND DISCUSSION

*Leontodon hispidus* subsp. *hispidus* [stat. indet.] b. *ericetorum* (Klett & Richt.) Rechb., *Icon. fl. Germ. Helv.* 19(1): 9, tab. 17, fig. 2 (1860).

NEW DATA: **Metohija: Prokletije Mts.:** DN 31 Bjelopoljski Stanovi (*Butorac*, B. 13-Sep-1994; *Panjković*, B. 19-Sep-1997), below Krš Čvrlje (*Butorac*, B. 13-Sep-1994).

NOTES: New for Serbia (Fig. 1). Dwarf alpine plant up to 10 cm high (or according to its original description “as long as a finger”). Rosette small with minute leaves, usually vividly green with reddish tinge throughout,

moderately hairy or almost glabrous. Stem, instead of being slightly thickened below the capitulum as in the typical f. *hispidus* is very often quite slender along its entire length. Involucre sparsely arachnoid or nearly glabrous (conf. Reichenbach & Reichenbach fil., 1860: tab. 17, fig. 2). Flowers appear in September and October (Klett & Richter 1830: 654).

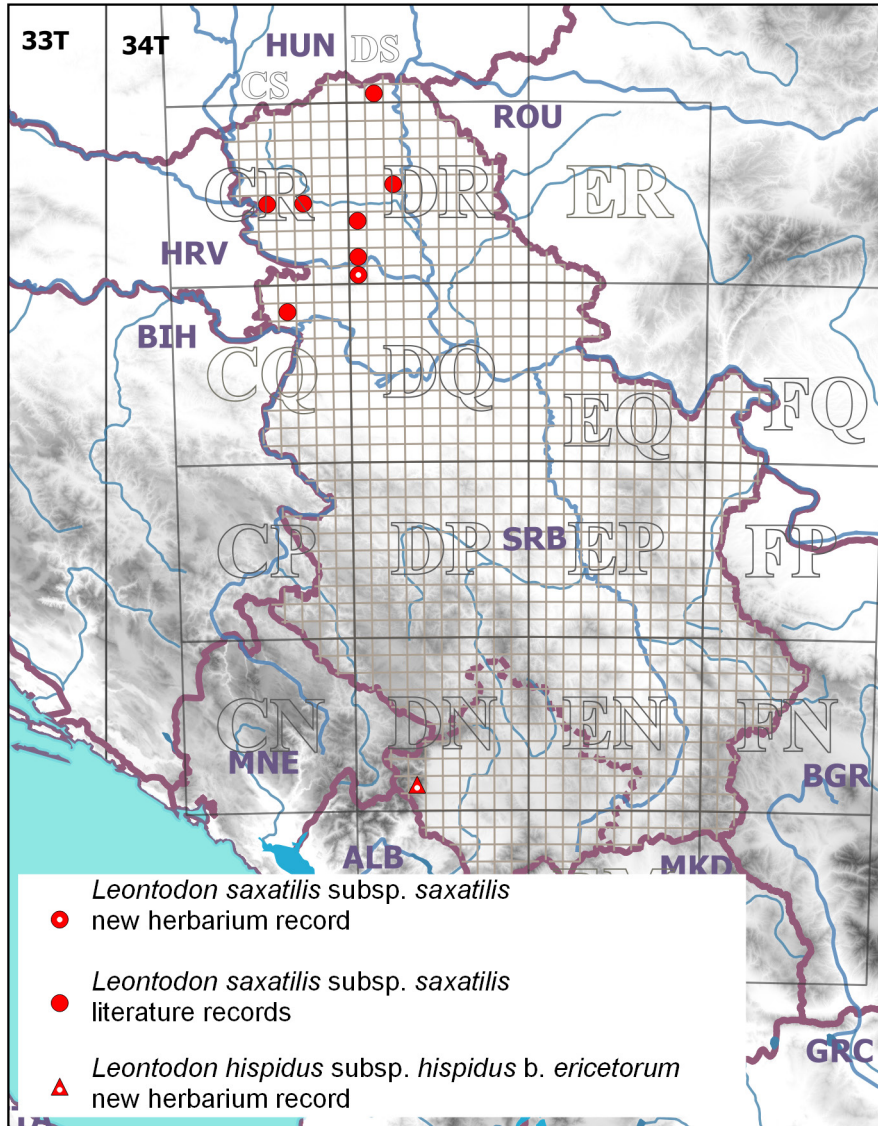


Fig. 1. – New herbarium and published data on the distribution of *Leontodon hispidus* subsp. *hispidus* [stat. indet.] b. *ericetorum* (Klett & Richt.) Rechb. and *L. saxatilis* Lam. subsp. *saxatilis* in Serbia.

***Leontodon saxatilis* subsp. *saxatilis***

NEW DATA: **Srem**: [subnom. *L. hispidus* L.] **Fruška Gora Mt.**: DR 00 **Rakovac** (*Babić*, N. 25-May-1952).

PUBLISHED DATA: **Bačka**: DS 10 **Hajdukovo** [subnom. *Leontodon taraxacoides* (Vill.) Merat. subsp. *taraxacoides*] (Budak 1998: 85); DR 25 **Stari Bečej** ["Óbecsè"] [subnom. *Thrinicia taraxacoides* (Vill.) Gaud] (*Kovács*, Kümmerle 1924: 98), [subnom. *Leontodon taraxacoides* Mér.] Arpad park ["Árpádliget"] ("importata", *Kovács* 1929: 183), vicinity [Óbecsè m.] (Jávorka 1925: 1184); CR 54 **Srpski Miletić** [subnom. *Leontodon taraxacoides* (Vill.) Merat. subsp. *taraxacoides*] (Budak 1998: 85); CR 74 **Ruski Krstur** [subnom. *Leontodon taraxacoides* (Vill.) Merat. subsp. *taraxacoides*] (Budak 1998: 85); DR 03 **Sirig** [subnom. *Leontodon taraxacoides* (Vill.) Mérat] (Boža 1986: 213); DR 01 **Novi Sad** [subnom. *Leontodon taraxacoides* (Vill.) Mérat] (Boža 1986: 213), [subnom. *Thrinicia taraxacoides* (Vill.) Gaud. f. *glabriusculus* (Peterm.) Soó], on lawn (*Janjatović et al.* 1980: 385).

**Srem: Bosut Forests: Morović-Višnjićevo**: CQ 68 **Naklo Forest** [subnom. *Thrinicia taraxacoides*] forest compartment No. 34, "ass. *Carici praecocis-Quercetum*" (29-May-1963, *Erdeši* 1971: 143).

IMPRECISE PUBLISHED DATA: **Serbia** [subnom. *Leontodon saxatilis* Rchb.] (*Pančić* 1859: 144); **Vojvodina** [subnom. *Thrinicia taraxacoides* (Vill.) Gaud.] ("partly adventive", *Obradović & Panjković-Matanović* 1986: 108).

NOTES: This weed species is a typical member of pioneer and ruderal vegetation in parts of western, southern and central Europe (*Finch & Sell* 1976: 315). In Serbia it is chiefly known from parts of the Bačka, where is on the edge of its native range in Europe (*Holub & Moravec* 1952: 83) (Fig. 1).

***Lepidium cartilagineum* subsp. *cartilagineum***

NEW DATA: **Bačka**: DR 19 **Velebit**: **Kapetanski Rit** (*Stojšić*, V. 12-May-2001); CR 76 **Sivac**, horse racecourse, 45° 41' 36.96" N, 019° 21' 43.73" E, 80 m (*Perić*, R. 13-Oct-2010).

**Banat**: DR 39 **Čoka-Crna Bara**: **Dugačka Slatina**, ≈ 45° 58' 45.35" N, 020° 11' 22.83" E, 78 m (*Perić*, R. 23-Jul-2014).

PUBLISHED DATA: **Bačka**: CS 80 **Kelebija** [subnom. *Lepidium crassifolium* W. et K.] (Budak 1998: 86); CS 90 **Subotica** [subnom. *Lepidium crassifolium* W. et K.] (Budak 1998: 86), vicinity (*Jovanović-Dunjić* 1972: 368; *Obradović & Boža* 1985: 67); DS 00 **Ludaš Lake** ["Ludastó"] [subnom. *Lepidium crassifolium*] ("ass. *Lepidio crassifolii-Puccinellietum limosae* Soó /1947/1957", *Szigetvári* 1998-1999: 30), vicinity (*Prodán* 1914: 104, 117; 1915: 223), [subnom. *Lepidium crassifolium* W. et K.] around **Krvavo Lake** (*Šajinović & Šturc* 1978: 42), around **Slano Lake** (*Šturc* 1956, 1959, 1973 *Zrnić* 1993: 259; *Šajinović & Šturc* 1978: 42), DS 00-DS 11 [subnom. *Lepidium crassifolium*] from **Palić Lake** ["Palicsi-tó"] and **Slano Lake** ["Sóstó"] to the sandy-saline areas north of **Horgoš** ["Horgos"] (*Prodán* 1914: 103), **Palić-Horgoš** (*Šturc* 1986: 411); DS 10 **Hajdukovo** (*Gajić*

1986: 119), **Bački Vinogradi** [“Bácsszőlős”]-**Horgoš** [“Horgos”], “ass. *Lepidio-Puccinellion limosae*” + “*Lepidio-Camphorosmetum annuae*” (Sturc 1973: 126), “ass. *Lepidio-Puccinellietum limosae* Soó” (Gajić 1986: 338), “**Stočni pašnjak**” (Butorac & Hulo 1992: 70), [subnom. *Lepidium crassifolium* W. et K.] **Fodorova Duž**, vineyards [“A Fodor-dűlónél”] (Sturc 1997: 115); DS 11 **Horgoš** [“Horgos”] [subnom. *Lepidium crassifolium* WK.] (Lányi 1914: 255; Tuzson 1915: 160; Slavnić 1943: 401; Godicl 1980; Budak 1998: 86), sandy-saline areas (Prodán 1914: 123, 131), in depressions along the railroad (Butorac & Hulo 1992: 70), “carbonate-sodic solonchak” (23-Aug-1970, Hadžić 1980: 116), **Kanas Bara** (Butorac & Hulo 1992: 70); DS 20 **Horgoš-Kanjiža** [subnom. *Lepidium crassifolium* W. et K.] (Godicl 1980), **Martonoš** (Slavnić 1943: 401), opposite the railroad station, saline pasture on the left side of Horgoš road (10-Jul-1939, Slavnić 1952a: 419), **Kanjiža** [subnom. *Lepidium crassifolium* W. et K.] (Budak 1998: 86); CR 59 [subnom. *Lepidium crassifolium* W. et K.] **Ridica** (Parabućski 1980: 90: Appendix 1; 01-Jun-1988, “ass. *Lepidio-Camphorosmetum annuae*”, “ass. *Lepidio-Puccinellietum limosae*”, Janjatović *et al.* 1991: 142; Budak 1998: 86); CR 59-CR 58 **Gakovo-Ridica-Kruševlje** [“Gádor, Őrszállás és Regőcze között”], “en masse” (Prodán 1910: 154; 1915: 223); CR 58 **Gakovo** [subnom. *Lepidium crassifolium* W. et K.] (Budak 1998: 86), **Kruševlje** [“Körtés”] [subnom. *Lepidium crassifolium* W. et K.] (Budak 1998: 86), vicinity (Tuzson 1915: 154), northeast of the village [“UTM CR 59”] (Vajgand *et al.* 2003: 86), **Gakovo-Kruševlje** [“Gádor és Körtés közötti”] [subnom. *Lepidium crassifolium*] (Prodán 1914: 101), **Gakovo-Stanišić** [“Gádor és Őrszállás közötti rész”] [subnom. *Lepidium crassifolium* WK.] (24-Oct-1909, Prodán 1914: 116), saltmarsh (26-Sep-1909, Prodán 1910: 153), vicinity of “Nagysósbara” (Prodán 1914: 123), **Rančevo** [subnom. *Lepidium crassifolium* W. et K.] (Budak 1998: 86); CR 57 **Bilić** [subnom. *Lepidium crassifolium* W. et K.] (Budak 1998: 86), **Sombor** (Jovanović-Dunjić 1972: 368), [“Zombor”] [subnom. *Lepidium crassifolium*] vicinity of “Szondy-szállás” (Prodán 1915: 164); CR 67 **Čonoplja - Svetozar Miletić** [subnom. *Lepidium crassifolium* W. et K.], “ass. *Lepidio crassifolio-Festucetum pseudovinae* Knežević *et al.* 2000 subass. *phragmitetosum communis* + subass. *camphorosmetum annuae*” (Knežević *et al.* 2000a: 46), “subass. *Lepidio crassifolio-Puccinellietum limosae phragmitetosum communis stoloniferae*” (Knežević *et al.* 2000b: 27); CR 74 **Lalić** (Parabućski 1980: 90: Appendix 1), **Ruski Krstur** [subnom. *Lepidium crassifolium* W. et K.] (Budak 1998: 86); DR 29 **Senčanski Trešnjevac** [subnom. *Lepidium crassifolium* W. et K.] (Budak 1998: 86); DR 28 **Senta** [“Zenta”] (Slavnić 1943: 401; Guelmino 1968: 76, 135), **Kerekszek Pond**, inlet near the estate of Jovan Vujić (Slavnić 1939: 80), **Duga Slanjača Pond**, 8 km west from Senta, northwestern tip of Duga Slanjača (20-Jul-1939, Slavnić 1952a: 419), vicinity (Jovanović-Dunjić 1972: 368); DR 24 **Stari Bečej** [“Óbecse”] [subnom. *Lepidium crassifolium* W. K.], vicinity [“Irizset”] (Kovács 1929: 88); DR20 **Kovilj** [“Alsókabol”]: [subnom. *Lepidium crassifolium*] **Kovilj Monastery**, forest clearings (Zorkóczy 1896: 45; Prodán 1915: 223).

**Banat**: DR 38 **Čoka - Crna Bara**: near **Arenda Lake** (Butorac *et al.* 1998: 518); ER 10 **Margita** [“Margitta”], “in salsis” (Heuffel 1858a: 26; 1858b: 62).

DUBIOUS PUBLISHED DATA: **Srem**: **Bosut Forests**: CQ 58 **Morović**: **Đepuš Forest**, forest edge (Erdeši 1991: 385).

IMPRECISE PUBLISHED DATA: **Serbia** (Gajić 1980a: 127); **Vojvodina** [subnom. *Lepidium crassifolium* W. et K.] (Slavnić 1948: 93, 95; 1950: 141; Obradović 1971: 25; Boža & Igić 2002: 38); **Bačka** [subnom. *Lepidium cartilagineum* subsp. *crassifolium* (Waldst. et Kit.) Thell.] (Slavnić 1948: 108-109; Slavnić 1953: 41, 52; Obradović 1987: 106); **Banat** [subnom. *Lepidium cartilagineum* subsp. *crassifolium* (Waldst. et Kit.) Thell.] (Slavnić 1948: 108-109; Slavnić 1953: 41, 52; Obradović 1987: 106); **Northwestern Bačka**, “ass. *Lepidio-Puccinellietum limosae*”, “ass. *Lepidio-Camphorosmetum annuae*” (Kabić 1988: 80); **North Banat**, “ass. *Staticeto-Artemisietum monoginae*” (Adamović 1959: 39); **Subotica-Horgoš Sands** [“Szabadka-Horgosi-homokpuszta”] (Gajić 1986: 6; Sturc 1997: 115); **Subotica Sands** (Obradović & Boža 1986: 130); **Lalić-Ridica area**, saltmarshes (“ass. *Lepidio-Puccinellietum limosae* subass. *asteretosum pannonica*” + “subass. *camphorosmetosum*” + “subass. *Puccinellietosum*” + “subass. *artemisietosum*” As. “*Lepidio-Camphorosmetum annuae*” “subass. *puccinellietosum limosae*”, Parabućski 1980: 90: Appendix 1, 94-95); **Selevenjske Pustare** (Butorac 1999: 34); **Novi Sad**, vicinity (Jovanović-Dunjić 1972: 368).

NOTES: This rare plant is justifiably reminiscing dessert-steppic realms of the Central Asia not only by its singularly striking appearance in the Serbian flora with its thickened, in upper part almost tuberous roots and glaucous, fleshy, imposing leaf rosettes, but also by specific habitats on which it can be exclusively found in Serbia: on barren, desert-like ravines and depressions carved by incessant force of rains and winds in deeply salinized clay and sandy soils enriched with chloridic and soddic salts. These complex habitat conditions rendered for its survival in Serbia are primarily met in transient, interspersing border zone between the geologically contrasting deposits of Subotica-Horgoš Sands, Bačka loess plateau and alluvial river clays in the northwestern and northern corners of Bačka, especially in the vicinity of Kruševlje and Ridica, where this species is covering a large areas (which becomes especially distinct during the flowering time in May) (Fig. 2). Specific pedological requirements of this species are the main factor restricting its distribution in Serbia. Therefore, its record from pedologically and phytocoenologically absolutely unsuitable areas in Bosut Forests is highly improbable (Erdeši 1991: 385). Strictly protected by law in Serbia (Anonymous, 2010-2016).

***Lepidium graminifolium* L., Syst. Nat., ed. 10,2: 1127 (1759).**

NEW DATA: **Bačka**: DR 01 **Novi Sad**, along the former Sombor railroad, near stakehold, railroad embankment (*Šajinović, B.* 03-Sep-1968).

PUBLISHED DATA: **Bačka**: CR 75 **Crvenka** [“Cservenka”], vicinity (*Kovács Ferenc Jávorka* 1925: 1284), **Veliki Bački Kanal** [“Ferencsatorna”] on the left bank, near bridge (Aug-1916, *Kovács* 1929: 88); DR 14 **Stari Bečej** [“Óbecse”] - **Radičević**: between the Kapás Péter and the Kiss farm (*Kovács* 1929: 88); DR 25 **Stari Bečej** [“Óbecse”], humid, sandy places (*Prodán* 1915: 223), “it occurs in all cemeteries, but sometimes also in plantations” (*Kovács* 1915: 73), on the embankment of Subotica-Stari Bečej railway (*Kovács* 1929: 88).

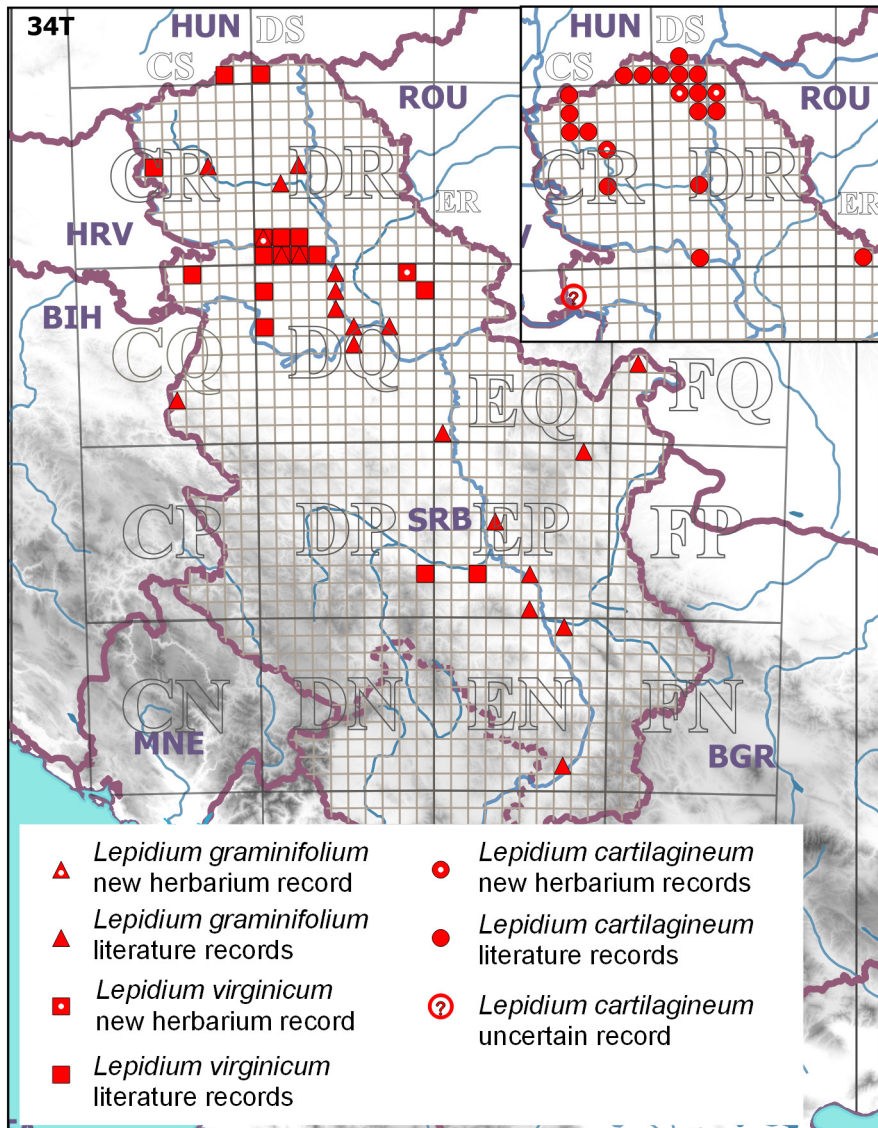


Fig. 2. – New herbarium and published data on the distribution of *Lepidium cartilagineum* (J. C. Mayer) Thell. subsp. *cartilagineum*, *L. graminifolium* L. and *L. virginicum* L. in Serbia.

**Srem:** DR 10 **Sremski Karlovci** [“Karlovci”, “Karlócza”]: Rovine, along vineyards (Hirc 1919: 384), vicinity, on the railway embankment (Kupcsok 1914: 85); DR 20 **Čortanovci** (Jul-1959, Obradović 1961: 150; 1966: 97; 1978: 51); DQ 49 **Slankamen** (Jávorka 1925: 402; May-1960 Obradović 1961: 150; 1978: 51), beside the saline bath (Jul-1909, Kovács 1929: 88); DQ 48 **Stari Banovci** [“Veterum-Banofci”] (“ad contubernium militare”! Kanitz 1863: 115); DQ 47

**Novi Banovci** [“Neu Banofce”] (*Kitaibel*, P. 13-Jun-1800, Gombocz 1945: 517); DQ 56 **Zemun** [“Zimony”, “Semlin”] [“*Lepidium gramimfolium* L.”] (*Pančić Schulzer et al.* 1866: 146; *Pančić Neilreich* 1866: 266; *Kanitz Schloser & Vukotinović* 1869: 264; *Jávorka* 1925: 402; *Obradović* 1978: 51).

**Banat**: DQ 76 **Pančevo**: the Institute for Medicinal Plants Research “Dr. Josif Pančić”, in the fields (*Vrbničanin et al.* 1998: 85).

**NW Serbia**: CQ 52 **Gučevo Mt.** (*Stojanović & Stevanović* 2008: 97).

**Šumadija**: DQ 55 **Belgrade**: Topčidersko Brdo (16-Jun-1944, *Lindtner* 1957: 34).

**Pomoravlje**: EQ 00 **Velika Plana** [“Plana”] (*Formánek* 1891: 75); EP 35 **Paraćin** (*Formánek* 1891: 75).

**NE Serbia**: **Iron Gate**: FQ 14 **Tekija** (*Formánek* 1891: 75).

**E Serbia**: EP 52 **Aleksinac**: Logorište (*Formánek* 1895: 329), Gradište (*Formánek* 1893: 177); EP 50 **Vrćenovica** [“Vrćenovac”] (*Formánek* 1895: 329); EN 79 **Niš** (*Vandas* 1909: 42), on the fields and along the roads (*Petrović* 1882: 96); EP 89 **Jelašnica** (*Ilić Fritsch* 1911: 147).

**S Serbia**: EN 71 **Vranje** [“Vranja”] (*Ničić* 1893: 21).

IMPRECISE PUBLISHED DATA: **Serbia** (*Pančić* 1874: 153; *Jovanović-Dunjić* 1972: 369; *Gajić* 1980a: 127; 1983a: 18; *Kojić & Vrbničanin* 1998: 14; *Nestorović* 2005: 67; *Nestorović & Konstantinović* 2011: 218); **Srem** [“Szerémség”] (*Zorkóczy* 1896: 45); **Southeastern Serbia** (*Randelović et al.* 2005: 50); **Belgrade** (*Pančić* 1856: 512; *Jovanović* 1985: 19), vicinity (*Pančić* 1888: 201); **Kraljevo area** (*Vrbničanin* 1997: 16).

UNCERTAIN LOCALITY: “**Glavićin**” (*Formánek* 1891: 75).

NOTES: Native to the Mediterranean and adventive in parts of Central & Western Europe (*Jalas et al.* 1996: 218) with some of its earliest records in Serbia originating from localities along the river Danube in Srem, which was one of the main travel corridors connecting Central and Southern Europe since ancient times (“*Via Istrum*”), maybe suggesting possible early introduction of this species here (Fig. 2).

*Lepidium virginicum* L., *Sp. Pl.* 645 (1753).

NEW DATA: **Srem**: DQ 28 **Indija**, railroad station (*Šajinović, B.* 18-May-1977).

PUBLISHED DATA: **Bačka**: CS 80 **Kelebija**, near a road (*Gajić* 1986: 119); DS 00 **Palić Lake**, dried lakebed (*Czekus* 1982: C27); CR 45 **Apatin**: near the Danube, on sand (*Diklić & Nikolić* 1980: 18); DR 01 **Novi Sad**: near stokehold, railroad embankment (03-Sep-1968, *Šajinović* 1980-1981: 23), Limani 1 (Sep-1977, *Čapaković & Ivković* 1978: 76), Veternik (*Đurčanski* 1980, *Budak* 1998: 87); DR 00 **Novi Sad**: Ribarsko Ostrvo, near shipyard (1976, *Ivković* 1978: 78); DR 11 **Novi Sad**: along the quay, at the former Varadinski bridge [“Most Maršala Tita”], ruderal places (1972-1973, 1976-1977, *Ivković* 1977: 99; 1978: 78); DR 21



**Durdevo** (Budak 1998: 87); **Titel Hill**: DR 30 near **Lok** (Stanojev & Obradović 1986: 601), **Lok** (Budak 1998: 87).

**Banat**: DQ 98 **Vladimirovac**, near a railroad (1977, Ivković 1978: 78).

**Srem**: DR 10 **Sremski Karlovci**: Danubian island in front of the city (Aug-1977, Boža *et al.* 1980: 39), near railroad station, about 1 km from the Danube, “ass. *Bidenteto-Potentilletum anserinae* Babić 1971” (Čapaković 1979: 222, Tab. 1); DR 20 **Čortanovci**, railroad station (Ivković 1978: 78); DQ 08 **Ruma**, near a railroad (24-Jun-1979, Ivković 1979: 151-152); DQ 06 **Platičevo**, near a railroad (24-Jun-1979, Ivković 1979: 151-152); CQ 69 **Šid** (Aug-1977, Boža *et al.* 1980: 39).

**C Serbia**: DP 92 **Vrnjci** [“Vrnjačka banja”], near a railroad (03-Jul-1979, Ivković 1979: 151-152); EP 22 **Kruševac**, near a railroad (04-Jul-1979, Ivković 1979: 151-152).

IMPRECISE PUBLISHED DATA: **Serbia** (“widely distributed” Vasić 1986: 66; Vrbničanin *et al.* 2004: 6); **Vojvodina** (Slavnić 1960: 127; Ivković & Čapaković 1980: 49; Obradović & Panjković-Matanović 1986: 106); **Subotica-Horgoš Sands** (Gajić 1986: 6); **Titel Hill** (Butorac 1998: 296); **Special Nature Reserve “Gornje Podunavlje”** (Panjković & Stojšić 2001: 23-24); **Fruška Gora Mt.** (Glumac 1959: 43, 45, 56, 73); **Deliblato Sands** (Obradović & Panjković 1980: 329); **Subotica Sands** (Obradović & Boža 1986: 130).

NOTES: According to Slavnić (1960: 127) it has been present in parts of Vojvodina since the 1930ies (Fig. 2).

***Leucanthemella serotina*** (L.) Tzvelev in Komarov, *Fl. SSSR* 26: 139 (1961).

NEW DATA: **Banat**: DQ 75 **Ivanovo**, “Forland III”, near a field road (Šajinović, *B.* 13-Sep-1974).

**Srem**: CQ 67 **Sremska Rača** (Butorac, *B.* Sep-1976), meadow next to the stream (Butorac, *B.* 12-Sep-1976).

PUBLISHED DATA: **Bačka**: DR 29 **Senta** [“Zenta”]-**Sanad** [“Szanád”], [subnom. *Chrysanthemum uliginosum*] along the river Tisa, opposite the Sanad [“Szanád”] (Guelmino 1968: 52); DR 29 **Senta** [subnom.]: Veliki Rit, “ass. *Convolvuleto-Chrysanthemetum uliginosa*” (Jul-1949, Slavnić 1958: 167); DR 28 **Senta** [subnom. *Chrysanthemum serotinum*; *Chrysanthemum serotinum* L.]: **Narodna Bašta** [“Népkert”] (Guelmino 1968: 138; 1980-1981: 67); DR 25 **Stari Bečej** [“Óbecse”] [subnom. *Chrysanthemum uliginosum* W.K.]: **Mrtva Tisa** [“Holt Tisza”], “particularly in willow groves and on the edge of reed beds” (Kovács 1929: 176); DR 04 **Srbobran** [subnom. *Chrysanthemum uliginosum* (W. et K.) Pers.], **Veliki Bački Kanal**, “ass. *Scirpeto-Phragmitetum* Koch 1926 Subass. *Chrysanthemum uliginosa*” [“Sombor-Bečej channel”] (mid-Aug-1955, Slavnić 1956: 41); CR 62 **Bač** [subnom. *Chrysanthemum uliginosum* (W. et K.) Pers.]: the river Mostonga, about 6 km downstream from the village, “ass. *Scirpeto-Phragmitetum* Koch 1926 Subass. *Chrysanthemum uliginosa*” (mid-Aug-1954, Slavnić 1956: 41); CR 91 **Futog** [“Futak”] [subnom. *Chrysanthemum uliginosum* WK.]: Danubian

island (Schneller 1858: 12); DR 11 **Novi Sad - Kać** [subnom. *Chrysanthemum uliginosum* (W. et K.) Pers.], almost dried pond, a remnant of an old oxbow, “ass. *Scirpeto-Phragmitetum* Koch 1926 Subass. *Chrysanthemum uliginosa*” (mid-Aug-1954, Slavnić 1956: 41); **Kać** [“Káty”] [subnom. *Tanacetum serotinum* Schultz Bip.; *Chrysanthemum uliginosum* (W. et K.) Pers.], meadows + **Ratno Ostrvo** [“Hadsiziget”], reed beds (Zorkóczy 1896: 79), the canal bank, “ass. *Convolvuleto-Chrysanthemetum uliginosa*” (Aug-1955, Slavnić 1958: 167); DR 20 **Kovilj** [“Kovil”], [subnom. *Tanacetum serotinum* Schultz Bip.], meadows (Zorkóczy 1896: 79), **Koviljski Rit**: [subnom. *Chrysanthemum uliginosum*; *Chrysanthemum serotinum*; *Chrysanthemum serrotinum*] **Jamina-Nizine**, “ass. *Caricetum elatae*” (Babić 1971: 37), **Jamina**, “Ass. *Crataego-Populetum albae* subass. *quercetosum*” (Parabućski 1972: 55), bank of the Danube, “ass. *Oenothera-Reseda luteola*” (Babić 1972: 119), **Hrastova Greda**, “Ass. *Crataego-Populetum albae* subass. *quercetosum*” (Parabućski 1972: 55), **Varoška Ada**, “community with *Rubus caesius* and *Phragmites communis*” (Babić 1972: 119); DR 31 **Vilovo** [“Tündéres”] [subnom. *Ch. uliginosum* (W.K.) Pers.], marshes (Prodán 1915: 263); DR 40 **Titel** [subnom. *Ch. uliginosum* (W.K.) Pers.], marshes (Prodán 1915: 263).

**Banat**: DR 52 **Zrenjanin** [subnom. *Chrysanthemum uliginosum* (W. et K.) Pers.]: between the Mali most and the Železnički most, on the left bank of the river Begej, “ass. *Convolvuleto-Chrysanthemetum uliginosa*” (Aug-1955, Slavnić 1958: 167); DR 35 **Novo Miloševo** [“Miloševo”] - **Novi Bečej** [subnom. *Chrysanthemum uliginosum* (W. et K.) Pers.]: **Bela Bara**, “ass. *Scirpeto-Phragmitetum* Koch 1926 Subass. *Chrysanthemum uliginosa*” (mid-Jul-1952, Slavnić 1956: 41); **Belgrade**: DQ 66 **Ovča** [“Ovcsa”] [subnom. *Tanacetum serotinum* (L.)], floodplain (Simkovic 1882: 50); DQ 56-DQ 66 **Borča-Ovča**: **Veliko Blato** [subnom. *Chrysanthemum uliginosum*] “swampy meadows with *Carex gracilis*” (Janković 1953: 91, Tab. 6); DQ 76 **Pančevo: Vojlovica**: [subnom. *Tanacetum serotinum* (L.)] former **Vojlovica Forest** (Simkovic 1882: 50).

**Srem**: CR 90 **Čerević** [subnom. *Ch. serotinum* L.] (Obradović 1966: 113); DR 00 **Ledinci** [subnom. *Ch. serotinum* L.] (Obradović 1966: 113); DR 11 **Petrovaradin** [subnom. *Ch. serotinum* L.] (Obradović 1966: 113); DR 10 **Sremski Karlovci** [“Karlovic”] [subnom. *Tanacetum serotinum* (Willd.) Sz. Bip.]: Danubian island opposite the city (Schulzer *et al.* 1866: 105), **Tekije - Karlovački Dunavac**, reed beds with *Amorpha fruticosa* (23-Sep-1972, Butorac 2018: 163), **Tenger - Veliki Šveb** (Sep-1976, Butorac 2018: 282); DR 20 **Čortanovci** [subnom. *Ch. serotinum* L.] (Obradović 1966: 113); DQ 25 **Obedska Bara-Kupinovo** [subnom. *Chrysanthemum uliginosum*] poplar forest (1950, Slavnić 1954: 74); **Bosut Forests**: CQ 57 [subnom. *Tanacetum serotinum* (L.) Schulth-Bip.; *Chrysanthemum serrotinum*] **Žeravinska Bara**, “ass. *Glycerietum maximae* Graebn. et Hueck 1931”, “ass. *Caricetum ripariae* Soó 1928” (Rauš *et al.* 1980: 35, 37); **Puk**, “ass. *Calamagrosti-Salicetum cinereae* Soó et Zólyomi 1955” (Erdeši 1971: 318); DQ 25 **Obedska Bara: Obrež** [subnom. *Chrysanthemum uliginosum* (W. et K.) Pers.]: on the edge of **Veliko Okno**, “ass. *Convolvuleto-Chrysanthemetum uliginosa*” (Jul-1948, Slavnić 1958: 167); DQ 56 **Zemun** [“Semlin”] [subnom. *Tanacetum serotinum* Schultz Bip.] (Pančić Neilreich 1866: 111).

**NW Serbia:** DQ 34 **Obrenovac** [subnom. *Chrysanthemum uliginosum* (W. et K.) Pers.]: at the mouth of the river Kolubara, “ass. *Convolvuleto-Chrysanthemum uliginosa*” (Aug-1956, Slavnić 1958: 167).

**Šumadija:** DQ 45 **Belgrade** [subnom. *Pyrethrum uliginosum* W. K.]: Makiš, willow scrub (Pančić 1856: 551); DQ 55 **Belgrade** [subnom. *Pyrethrum uliginosum* W. K.]: the Sava river island (Pančić 1856: 551); DQ 74 [subnom. *Tanacetum serotinum* (L.) Schultz Bip.] **Grocka** (Jovanović & Bartula 1997: 126).

DUBIOUS PUBLISHED DATA: **E Serbia:** **Pirot:** FN 38 Basarski kamen [subnom. *Leucanthemum serotonina*] (Blagojević *et al.* 2010: 46).

IMPRECISE PUBLISHED DATA: **Serbia** [subnom. *Chrysanthemum uliginosum* W. K.; *Tanacetum serotinum* (L.) Schultz-Bip.] (Pančić 1874: 418; Hayek 1931: 651; Gajić 1975: 117; 1980b: 87; 1980a: 136); **Vojvodina** [subnom. *Chrysanthemum uliginosum*] “ass. *Populetum nigro-albae*” (Slavnić 1952b: 25); **Along the Sava river to Belgrade and the Danube up to Pančevački Rit** [subnom. *Chrysanthemum uliginosum*] (Adamović 1966: 91; 1967: 143); **Belgrade** [*Chrysanthemum serotinum* Jaq.], vicinity (Pančić 1888: 308); **Srem: Bosut Forests:** [subnom. *Chrysanthemum uliginosum*] along the rivers Bosut [“Boszut”] and Studva [“Sztudva”] (Tuzson 1917: 115); **Deliblato Sands** [subnom. *Chrysanthemum uliginosum*; *Tanacetum serotinum* (L.) Schultz-Bip.] (Španović 1936: 152; Obradović & Panjković 1980: 333; Gajić 1983b: 314); **Vršac Mts.** [subnom. *Tanacetum serotinum* (L.) Schultz-Bip.] (Panjković-Matanović 1989: 100); **Obedska Bara** [subnom. *Chrysanthemum uliginosum*] “ass. *Scirpeto-Phragmitetum* Koch 1926 subass. *Chrysanthemetosum uliginosa*” (Acević 1983: 10); **Kopaonik Mt.** [subnom. *Tanacetum serotinum* (L.) Schr.-Bip.] (Gajić *et al.* 1991: 654; Lakušić 1996: 26); **Iron Gate** [“Đerdap Gorge”] [subnom. *Chrysanthemum uliginosum*] (Adamović 1969a: 83; Petrić *et al.* 2010: 41).

NOTES: Our recent field insights in Vojvodina suggest that populations of this typically lowland wetland plant appear to be increasingly declining due to river regulation and spread of invasive species with only two remaining locally disjunct areas along the Sava river with preserved vital and rich populations of this species (Bosut Forests and Obedska Bara), which strongly recommends its legal protection in Serbia (Fig. 3).

*Leucanthemum heterophyllum* (Willd.) DC., *Prodr.* 6: 47 (1838).

NEW DATA: **NE Serbia: Beljanica Mt.:** EP 68 Beljanička Reka (Stojić, V. 29-Jun-1994).

**E Serbia: Stara Planina Mts.:** FP 21 Orlov Kamen (*s. leg.* 14-Jul-1998); FN 35 Greben Mt. (Stojić, V. 14-Jul-1994).

PUBLISHED DATA: **Srem: Fruška Gora Mt.:** **Sremski Karlovci:** DR 10 Belješevo (Boža & Budak 1991: 52).

**W Serbia: Zlatibor Mt.:** CP 93 Ribnica [subnom. *Leucanthemum montanum* D.C. var. *heterophyllum* (Willd.) Briq. et Cav.] (Sigunov 1979: 84); **Čemerno Mt.:** DP 53 Lopatnica Valley [subnom. *Leucanthemum montanum* D. C. var. *heterophyllum* (Willd.) Briq. et Cav.] (Sigunov 1979: 84).

**C Serbia: Kopaonik Mt.:** DN 89 Gobelja [subnom. *Leucanthemum montanum* D. C. var. *heterophyllum* (Willd.) Briq. et Cav.], “community *Juniperetum nanae*” (Sigunov 1979: 84).

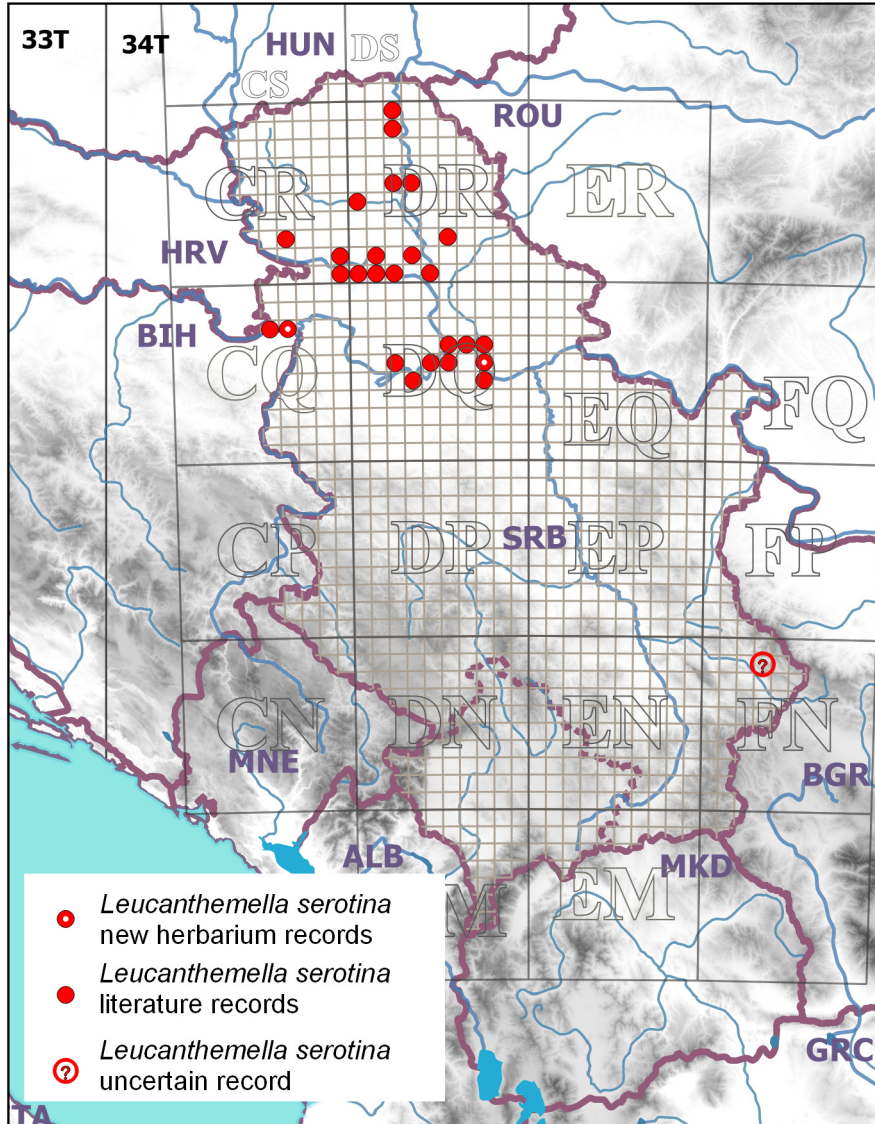


Fig. 3. – New herbarium and published data on the distribution of *Leucanthemella serotina* (L.) Tzvelev in Serbia.

**SW Serbia: DR 29 Ozren Mt.** [subnom. *Leucanthemum vulgare* Lam. ssp. *montanum* (All.) Brique. var. *heterophyllum* (All.) Brique.] (Pavlović 1953: 14), Tičje Polje [“Tičije Polje”] + Srednjevica, “on meadows with *Festuca fallax*” (Pavlović 1953: 14).

**Metohija: Prokletije Mts.:** DN 23-DN 22 **Košutane** [“Košutani”] - **Drelje** [subnom. *Leucanthemum vulgare* Lam. ssp. *montanum* (Gaud.) Briqu. et Cav. var. *heterophyllum* (Willd.) Briqu. et Cav.] (Horvatić 1935: 81).

**Kosovo: Šar-planina Mts.:** EM 07-EM 17 **Ljuboten** [subnom. *Leucanthemum vulgare* Lam. ssp. *montanum* (Gaud.) Briqu. et Cav. var. *heterophyllum* (Willd.) Briqu. et Cav.] (Horvatić 1935: 81).

IMPRECISE PUBLISHED DATA: **Serbia** [subnom. *Leucanthemum vulgare* Lam. subsp. *montanum* (All.) Briqu. var. *heterophyllum* (Willd.) Briqu.] (Hayek 1931: 648); **Kopaonik Mt.** [subnom. *Leucanthemum montanum* DC. 1837 var. *heterophyllum* (Willd.) Briqu. et Cav. 1916] (Lakušić 1996: 26); **Goč Mt.** [subnom. *Leucanthemum montanum* DC var. *heterophyllum* (Willd.) Briqu. et Cav.] (Gajić 1977: 188); **Suva Planina Mt.** [subnom. *Chrysanthemum heterophyllum* Willd.] (Jovanović Horvatić 1928: 114).

NOTES: Probably more widespread in Serbia (Fig. 4).

*Leucanthemum ircutianum* subsp. *leucolepis* (Briq. & Cavill.) Vogt & Greuter, *Willdenowia* 33: 41 (2003) (Fig. 4).

NEW DATA: **Srem:** DR 11 **Petrovaradin**, meadows (Babić, N. 08-Apr-1952).

**NE Serbia: Beljanica Mt.:** EP 58 **Čemernica Valley** (Stojšić, V. 17-Jul-1993); **Resava:** EP 58 towards **Vita Bukva** (Stojšić, V. Jun-1994); **Despotovac:** EP 38 next to **Manasija Monastery** (Stojšić, V. 15-Jul-1993); EP 57 **Ravna Reka: Divljakovac** [“Divljakovačka uvala”] (Stojšić, V. 27-Jun-1994).

PUBLISHED DATA: **Banat:** DQ 58 **Sefkerin** [subnom. *Leucanthemum leucolepis*] (23-Sep-1977 Marinković et al. 1980: 187); **Deliblato Sands:** [subnom. *Leucanthemum leucolepis* (Br. et Cav.) Horvatić] EQ 07 **Kravan**, “*Querceto-Tilietum*” (19-Jun-1955, Sigunov 1970: 105); EQ 16 **Kremenjak**, “old pine plantations” (14-Oct-1969, Sigunov 1970: 105).

**NW Serbia: Lajkovac:** [subnom. *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić.] DQ 31 **Čelije**, periodically flooded meadow (Gajić 1965: 49).

**Šumadija:** [subnom. *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić.] DQ 65 **Boleč**, ploughland (Gajić 1964: 59); [subnom. *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić.] DQ 64 **Avala Mt.**, meadow (Gajić 1964: 59); **Klenje**, meadow on serpentinite (Gajić 1964: 59); [subnom. *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić.] DQ 70 **Arandelovac: Krčevac** [“Krčevac”], humid meadow next to the river **Kubrštica** (Gajić 1965: 49); DP 58 **Rudnik**, slope near a road + *Chrysopogon* meadow (Gajić 1965: 49); [subnom. *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić.] DP 57 **Gornji Milanovac**, near a road, “below the forest nursery” (Gajić 1965: 49); [subnom. *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić.] DP 67 **Gornji Milanovac: Svračkovci**, *Chrysopogon* meadow (Gajić 1965: 49); [subnom. *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić.] DP 77 **Kragujevac: Kikojevac:** Hungarian and Turkey oak forest edge (Gajić 1965: 49).

**NE Serbia: Majdanpek:** [subnom. *Leucanthemum leucolepis* (Briqu. et Cav.) Horvatić] EQ 72 **Veliki Zaton** + **Crvena Zemlja** (Sigunov 1965: 73, 98); **Majdanpek:** [subnom. *Leucanthemum leucolepis* (Briqu. et Cav.) Horvatić] EQ 71

Švajc, meadow + Kapetanska + Nikina livada (Sigunov 1965: 78, 85, 98);  
**Despotovac**: [subnom. *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić.] EP 47  
**Ravna Reka**, meadow (Gajić 1965: 49).

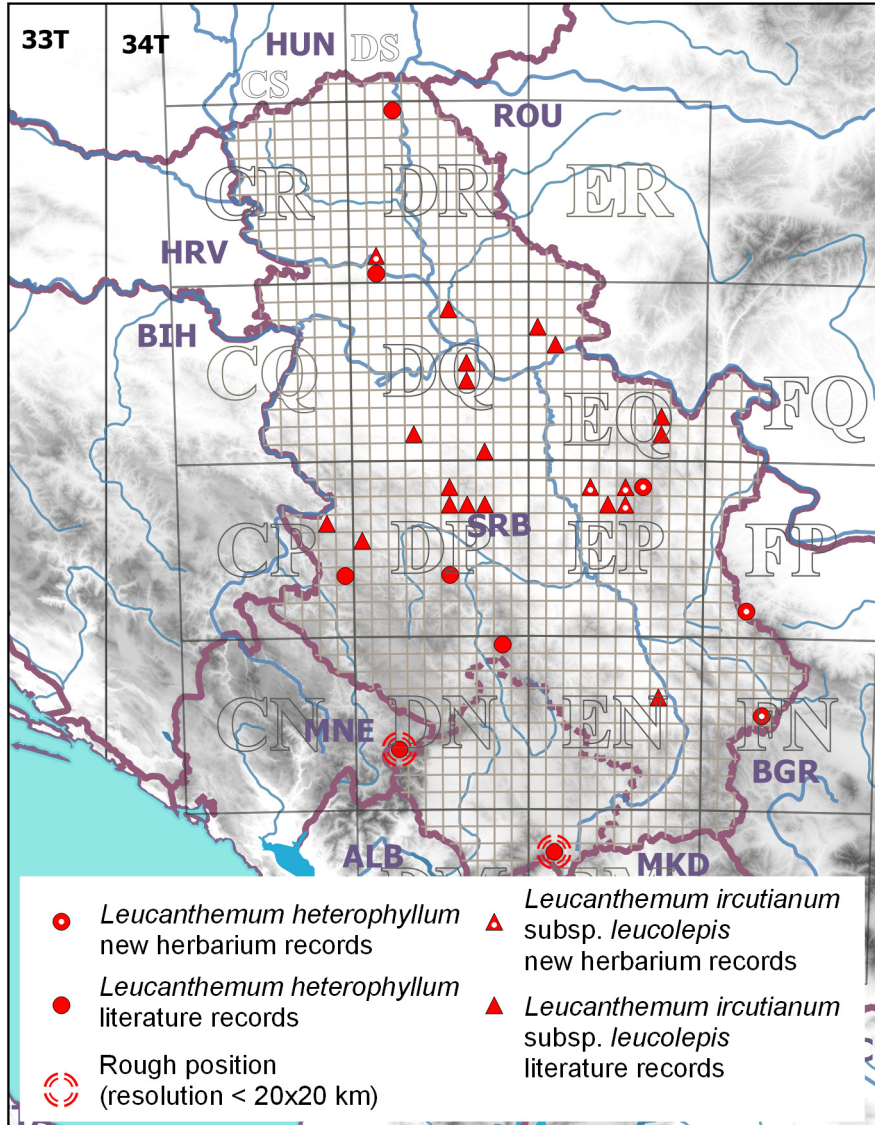


Fig. 4. – New herbarium and published data on the distribution of *Leucanthemum heterophyllum* (Willd.) DC. and *L. ircutianum* subsp. *leucolepis* (Briq. & Cavill.) Vogt & Greuter in Serbia.

**W Serbia: Tara Mt.** [subnom. *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić]: CP 86 Kaluđerske Bare (Gajić 1988: 400); DP 05 Užice [subnom. *Chrysanthemum Leucanthemum* L. ε. [stat. indet.] *pallidum* Fiori] (Horvatić 1928: 127).

**S Serbia:** EN 76 **Leskovac** [subnom. *Chrysanthemum Leucanthemum* L. *ε.* [stat. indet.] *pallidum* Fiori] (Horvatić 1928: 127).

IMPRECISE PUBLISHED DATA: **Serbia** [subnom. *Leucanthemum leucolepis*; *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić var. *leucolepis* + var. *pallidum* Fiori] (Horvatić 1963: 214; Gajić 1977: 186; Čanak *et al.* 1979: 26; Gajić 1980a: 127); **Deliblato Sands** [subnom. *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić] (Gajić 1983b: 314); **Kotlenik Mt.** [subnom. *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić.], meadow (Gajić 1965: 49); **Golija Mt.** [subnom. *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić] (Gajić 1989: 336), “*Nardetum strictae*” (Kojić *et al.* 1995: 125); **Javor Mt.** [subnom. *Leucanthemum leucolepis* (Briq. et Cav.) Horvatić] (Gajić 1989: 336).

CORRECTIONS: Specimens from PZZP originating from various localities on Fruška Gora Mt. (Testera, Sremski Karlovci, Stražilovski Breg) labelled under the name “*Chrysanthemum leucanthemum* L.” and subsequently published by Obradović (1966: 113) are in fact referring to the *Leucanthemum ircutianum* subsp. *ircutianum*, which appears to be the most frequent member of this genus in Vojvodina, while *L. vulgare* subsp. *vulgare* is, according to our herbarium data, confirmed only at one locality in Vojvodina (Titel Hill) (Čolović, S. 26-May-1956).

### *Leucojum aestivum* subsp. *aestivum*

Largely comprehensive overview of herbarium and literature data concerning the distribution of this species in Serbia has been published earlier by Jovanović *et al.* (2009: 46-47). On this instance we will supplement it with additional data:

NEW DATA: **Banat:** DR 51 **Ečka:** fishpond (*Grozđanić, S.* 17-Jun-1956); DQ 59 **Čenta-Sakule**, ≈ 45°08'02.02", 020°25'48.48" E, 69 m (Perić, R., 24-Apr-2012, *pers. comm.*).

**Srem: Bosut Forests:** CQ 58 along the river Smogva, 44°58'11.07", 019°08'51.33" E, 80 m (Perić, R., 15-May-2013, *pers. comm.*); CQ 57 Žeravinac, forest compartment no. 53, embankment base (Perić, R., 16-May-2013, *pers. comm.*); Ribna Bara, ≈ 44°55'28.89", 019°12'45.62" E, 87 m (Perić, R., 23-Apr-2013, *pers. comm.*).

ADDITIONAL PUBLISHED DATA: **Bačka:** CR 38 **Bezdan-Kolut:** Kendija, “ass. *Brachypodio silvaticae-palustris-Quercetum* Erdeši 1955” (Erdeši 1971: 331); CR 37 **Bezdan**, humid and swampy meadows (Prodán 1910: 152); **Stari Bečej** [“Óbecse”]: DR 24 Gornji Rit [“Felsóré”] (Kovács 1915: 70), Donji Rit [“Alsóré”] (Kovács 1929: 59); CR 90 **Futog** [“Futak”]: former Futog wetlands [“Futaker Ried”] (Schneller 1858: 20).

**Banat: Kuštilj:** EQ 38 Moara Mike (*Seležan* 1975 Panjković-Matanović 1989: 66).

**Srem: Bosut Forests:** CQ 67 **Sremska Rača:** Cret, “ass. *Genisto elatae-Quercetum* subass. *tardifloraetosum*” (04-Jun-1963, Erdeši 1971: 101).

**NW Serbia: Šabac:** DQ 14 **Provo:** Orlača, “ass. *Querceto-genistetum elatae* Horv.” (Ilić-Vukićević 1956: 225); **Obrenovac:** DQ 34 Zabran, flood plain of the river Sava (Adamović 1969b: 177).

**Pomoravlje:** DQ 94 Smederevo [“Semendria”] (Degen 1905: 133).

**C Serbia: Prokuplje:** EN 48 Suva Česma (15-Jun-2004, Zlatković *et al.* 2005a: 16).

**E Serbia: Pirot:** FN 27 **Barje Čiflik** [“Barje”] “ponds, wetlands, ditches and trenches” (Adamović 1908: 203); FN 36 **Sukovo**, “ponds, wetlands, ditches and trenches” (Adamović 1908: 203).

**SE Serbia: Babušnica:** FN 06 **Lužnica**, “ponds, wetlands, ditches and trenches” (Adamović 1908: 203); EN 95 **Vlasotince**, “ponds, wetlands, ditches and trenches” (Adamović 1908: 203).

NOTES: Protected by law in Serbia (Anonymous, 2010-2016).

*Limonium gmelinii* (Willd.) Kuntze, *Revis. Gen. Pl.* 2: 395 (1891).

NEW DATA: **Banat:** DR 48 **Banatski Monoštor**, 45°57'20.07", 020°16'16.05" E, 74 m (Perić, R. 17-Aug-2013, *pers. comm.*), **Crna Bara:** Životnji, 45°57'21.10", 020°18'12.62" E, 74 m + ≈ 45°56'52.79", 020°18'19.45" E, 73 m (Perić, R. 10-Sep-2013, *pers. comm.*); DR 36 **Bočar - Novo Miloševo:** Prečka (Perić, R. 17-May-2016, *pers. comm.*); DR 55 **Bašaid:** Veliki Bikač, ≈ 45°39'40.92", 020°22'41.50" E (Perić, R. 25-Apr-2017, *pers. comm.*); DR 53 **Jankov Most - Banatski Dvor:** Mali rit, 45°30'17.76", 020°28'06.82" E (Perić, R. 06-Jul-2017, *pers. comm.*); DR 61 **Tomaševac-Orlovat** (Perić, R. 01-Jul-2011, *pers. comm.*); DR 71 **Botoš:** Talač + Kaluđerica, ≈ 45°19'07.71", 020°39'33.05" E, 69 m + Velika Oranica, 45°17'50.85", 020°39'35.99" E, 72 m (Perić, R. 07-Jun-2013, *pers. comm.*); DR 92 **Šurjan**, ≈ 45°24'18.33", 020°53'02.45" E, 74 m (Perić, R. 05-Aug-2011, *pers. comm.*), Gajove medice, 45°23'42.77", 020°54'53.44" E, 75 m + Lanka, 45°22'55.77", 020°54'50.90" E, 73 m + Šibovo, 45°22'26.54", 020°54'04.25" E, 73 m (Perić, R. 26-Jul-2013, *pers. comm.*); DR 41 **Belo Blato:** Fidrička (Perić, R. 16-Sep-2009).

PUBLISHED DATA: **Bačka:** CS 80 **Tavankut** [subnom. *Statice gmelini*] (Vajdić 1972: 91); **Kelebija** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó] (Budak 1998: 141); CS 90 **Subotica** [“Szabadká”] [subnom. *Statice Gmelini*], sandy-saline places north of the city (Prodán 1914: 123); CS 90-DS 11 **Subotica** [“Szabadká”] - **Horgoš** [“Horgos”] [subnom. *Statice Gmelini* Willd.; *Limonium gmelini* (Willd.) Ktze. subsp. *hungaricum* (Klokov) Soó] (Prodán 1910: 156; Godícl 1980; Igić 1991 Budak 1998: 141); DS 00 **Slano Lake** [subnom. *Limonium gmelini* subsp. *hungaricum* Soó] (Šajinović & Šturc 1978: 42), **Krvavo Lake** [subnom. *Limonium gmelini* subsp. *hungaricum* Soó] (Šajinović & Šturc 1978: 42), **Šupljak** [“Ludas”] [subnom. *Limonium Gmelini* [Willd.] O. Ktze ssp. *hungaricum* [Klokov] Soó]: cemetery (Šturc 1973: 126); DS 10 **Hajdukovo** [subnom. *Statice Gmelini*], carbonatic-sodic solonchak on sand (Milojković 1976: 13), **Hajdukovo** [“Ludas-pusztá”]-**Bački Vinogradi** [“Királyhalom”] [subnom. *Statice Gmelini* Willd.], saltmarshes (Prodán 1915: 246), **Bački Vinogradi-Horgoš** [subnom. *Limonium gmelini* + subsp. *hungaricum*; *Statice gmelini* Willd.]



(Sturc 1973: 126; Gajić 1986: 104, 339), “ass. *Seseli hipomarathro-Chrysopogonum grylli* ass. nova subass. *stachyetosum officinale*”, “ass. *Verbasco-Festucetum rupicola* Gajić 1986 subass. *achilleetosum asplenifoliae*”, “ass. *Koelerio gracilis-Festucetum valesiaca* subass. *andropogonetosum ischaemi + poetosum angustifoliae*” (Parabućki & Butorac 1993: 58, 65, 72), Fodorova Duž, vineyards [“A Fodor-dülónél”] (Sturc, J. 1958, 1973, Sturc 1997: 115); DS 11 **Horgoš** [“Horgos”] [subnom. *Statice Gmelini*; *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó; *Limonium gmelinii* (Willd.) Ktze. + f. *obtusum* (Schur) Soó] (Prodán 1914: 123, 131; Boža *et al.* 1987: 62; Budak 1998: 140-141), vicinity (Tuzson 1915: 160), Šor Kenderes, former pond [“Kenderes-tó”] (Tuzson 1915: 164), “ass. *Seseli hipomarathro-Chrysopogonum grylli* subass. *festucetosum sulcatae*”, “ass. *Koelerio gracilis-Festucetum valesiaca* subass. *andropogonetosum ischaemi*” (Parabućki & Butorac 1993: 58, 72), Horgoš Čarda, vicinity, “ass. *Seseli hipomarathro-Chrysopogonum grylli* subass. *festucetosum sulcatae*”, “ass. *Koelerio gracilis-Festucetum valesiaca* subass. *poetosum angustifoliae*” (Parabućki & Butorac 1993: 58, 72), west from Horgoš (Sturc 1997: 115); DS 21 **Horgoš**: [subnom. *Statice Gmelini* Willd.] Kamaras [“Kamarás”] (Lányi 1914: 264); DS 20 **Kanjiza** subnom. *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó] (Budak 1998: 141); DR 19 **Velebit** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó] (Andrejević 1976 Budak 1998: 140); DR 29 **Senčanski Trešnjevac** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó] (Budak 1998: 141); DR 28 **Senta** [“Zentá”] [subnom. *Statice Gmelini*; *Limonium gmelinii*] (Guelmino 1968: 77; 1973: 51), Serbian cemetery (Guelmino 1968: 118), Veliki Rit [“Nagyrért”]; Vrbica [“Verbica”] (Guelmino 1968: 142; 13-Sep-1962, Rácz 1970: 58); CR 47 **Bezdan-Bački Monoštor** [subnom. *Statice Gmelini*]; Štrbac - Kozara Forest [“bezdáni erdő”], saline meadows (Prodán 1914: 98); CR 55 **Doroslovo** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó] (Purger 1993 Budak 1998: 141); CR 54 **Srpski Miletić** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó; *Limonium gmelinii* (Willd.) Ktze.+ f. *acuminatum* (Schur) Soó] (Boža *et al.* 1987: 62; Budak 1998: 141), **Karavukovo** [“Bácsordas”] - **Bogojevo** [“Gombos”] [subnom. *Statice Gmelini*] (08-Sep-1910, Prodán 1914: 113), **Karavukovo** [“Bácsordas”] [subnom. *Statice Gmelini* Willd.], salt meadows, pastures (Prodán 1910: 156; 1914: 131; 1915: 246); CR 63 **Deronje** [“Dernye”] [subnom. *Statice Gmelini* Willd.] (Prodán 1915: 246); DR 25 **Stari Bečej** [“Óbecse”] [subnom. *Statice Gmelini* Willd.], “vicinity of Deutsch and Boromissza farms” (Kovács 1929: 137); DR 24 **Stari Bečej** [“Óbecse”] [subnom. *Statice Gmelini* Willd.], vicinity [“Irizset”] (Kovács 1929: 137); CR 91 **Futog** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó] (1978 Budak 1998: 140); DR 22 **Žabalj** [“Zsablya”] [subnom. *Statice Gmelini* Willd.; *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó + f. *obtusum* (Schur) Soó, f. *hungaricum*; *Limonium gmelinii* ssp. *hungaricum* (Klokov) Soó] (Parabućki 1978: 34; Crnčević 1979: 196; Janjatović & Merkulov 1981: 60; 1982: D7; 1984: 14; Boža *et al.* 1987: 62; Đurčanski 1980 Budak 1998: 140-141), saline pastures (09-Jun-1912, Prodán 1914: 99), on solonetz with solonchak (Crnčević 1986: 483); DR 11 **Budisava-Kač** [subnom. *Statice gmelini* Willd.], “ass. *Trifolietum subterranei* Slav. 42.” “subass. with *Statice gmelinii*” (Parabućki 1978: 34-35); DR 21 **Durdevo** [subnom. *Statice gmelini* Willd.], “ass. *Trifolietum subterranei* Slav. 42.”

“subass. with *Statice gmelinii*” (Parabučki 1978: 34); DR 20 **Kovilj** [“Kovily” “Alsókabol”] [subnom. *Statice Gmelini* Willd.; *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó; *Limonium gmelinii* (Willd.) Ktze. + f. *acuminatum* (Schur) Soó] (Prodán 1914: 133; 1915: 246; Boža *et al.* 1987: 62; Đurčanski 1980 Budak 1998: 140-141), saline fields (Zorkóczy 1896: 87), saline pastures near Kovilj Monastery (15-May-1910, Prodán 1914: 125), saline pastures in monasterial forest (Prodán 1910: 156; 1914: 131).

**Banat**: DS 30 **Srpski Krstur** [“Krstur”] [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (*Andrejević* 1976 Knežević 1994: 97), **Banatsko Arandelovo - Srpski Krstur** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó]: Veliki Siget (Knežević 1994: 98); DS 30-DR 39 **Novi Kneževac** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó] (*Andrejević* 1976 Knežević 1994: 97-98; Knežević *et al.* 2011: 25); DR 39 **Novi Kneževac**: Filić [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó f. *acuminatum* /Schur/ Soó] (Knežević 1994: 98); DR 39 **Sanad** [*Limonium gmelinii* (Willd.) Ktze. f. *acuminatum* (Schur 1866) Soó 1968 + f. *obtusum* (Schur 1866) Soó 1968] (Boža *et al.* 1987: 62); DS 40 **Rabe** *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó f. *obtusum* /Schur/ Soó] (Knežević 1994: 98), **Banatsko Arandelovo** [subnom. *Limonium gmelinii* ssp. *hungaricum* f. *hungaricum* + f. *obtusum*; *Limonium gmelinii* (Willd.) Ktze. f. *acuminatum* (Schur 1866) Soó 1968; *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó + f. *obtusum* /Schur/ Soó] (Janjatović & Merkulov 1981: 60; 1982: D7; 1984: 14; Boža *et al.* 1987: 62; Knežević 1994: 98), Siget [“Mali Siget”] (Knežević 1994: 98); DR 49 **Podlokanj** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Knežević 1994: 98); DR 38 **Ostojićevo** subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Knežević 1994: 98), **Jazovo** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó f. *obtusum* (Schur 1866) Soó 1968] (Knežević 1994: 98), Kurta [subnom. *Statice Gmelini*], “ass. *Alopecurus-Roripa Kernerii* Slavnić 1941. sub-ass. with *Statice Gmelini*” (19-Jul-1954, Adamović 1959: 99); DR 38-DR 37 **Jazovo-Padej** [subnom. *Statice gmelini*] (16-Aug-1981, Rajačić Čapaković 1986: 595), **Ostojićevo-Padej** [subnom. *Statice Gmelini*]: Višnjevača, “ass. *Alopecurus-Roripa Kernerii* Slavnić 1941. sub-ass. with *Statice Gmelini*” (23-Jul-1956, Adamović 1959: 118); DR 37 **Padej** [subnom. *Limonium vulgare* ssp. *serotinum* (Rechb.) Gams., *Statice Gmelini*; *Limonium gmelinii* (Willd.) Ktze. f. *obtusum* (Schur 1866) Soó 1968; *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (05-May-1955, Lindtner 1956: 129; Boža *et al.* 1987: 62; Knežević 1994: 98), towards Kikinda (27-Aug-1978, Bogojević 1979: 7), Sakmar, “ass. *Alopecurus-Roripa Kernerii* Slavnić 1941. sub-ass. with *Statice Gmelini*” (18-Jul-1954, 23-Jul-1956, Adamović 1959: 99); DR 37-DR 47 **Padej-Sajan** [subnom. *Statice gmelini*] (Slavnić 1939: 82), Budišine Livade, “ass. *Alopecurus-Roripa Kernerii* Slavnić 1941. sub-ass. with *Statice Gmelini*” (22-Jul-1956, Adamović 1959: 118); DR 47 **Sajan** [subnom. subnom. *Statice Gmelini*; *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó; *Limonium gmelinii* ssp. *hungaricum* f. *hungaricum* + f. *obtusum* (Schur 1866) Soó 1968] (Obradović & Andrejević 1969: 142; Janjatović 1971: 22; 27-Aug-1977 Bogojević 1979: 9; Janjatović & Merkulov 1981: 60; 1982: D7; 1984: 14; Boža *et al.* 1987: 62; *Andrejević* 1976 Knežević 1994: 97-98), Livade, “ass. *Alopecurus-Roripa Kernerii* Slavnić 1941. sub-ass. with

*Statice Gmelini*" (24/25-Sep-1953, Adamović 1959: 99), **Sajan-Idoš** [subnom. *Statice Gmelini*]: **Bordoš** ["Konter"], "ass. *Alopecurus-Roripa Kernerii* Slavnić 1941. sub-ass. with *Statice Gmelini*" (24-Sep-1953, Adamović 1959: 99), **Irmeš**, "ass. *Alopecurus-Roripa Kernerii* Slavnić 1941. sub-ass. with *Statice Gmelini*" (20-Jul-1956, Adamović 1959: 99), **Jaroš** "ass. *Alopecurus-Roripa Kernerii* Slavnić 1941. sub-ass. with *Statice Gmelini*" (17-Jul-1955, Adamović 1959: 118), **Idoš** [subnom. *Statice Gmelini*; *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó] (Knežević *et al.* 2014: 49), **Greda**, "ass. *Alopecurus-Roripa Kernerii* Slavnić 1941. sub-ass. with *Statice Gmelini*" (20-Sep-1953, Adamović 1959: 118); DR 46 **Bočar** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó] (Ljevnaic-Masic *et al.* 2014: 800), **Novo Miloševo** ["Miloševo"] [subnom. *Statice Gmelini*], saline pasture at the southern side of the village, "ass. *Staticeto Artemisietum monogyneae*, variant with *Camphorosma annua*" (15-Aug-1937, Slavnić 1952a: 422-423); DR 45 **Novo Miloševo** [subnom. *Limonium gmelinii*; *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó], saline meadow southeast from the village (Guelmino 1972: 106; Knežević 1994: 98); DR 35 **Novi Bečej** [*Limonium gmelinii* (Willd.) Ktze. f. *acuminatum* (Schur 1866) Soó 1968 + f. *obtusum* (Schur 1866) Soó 1968; *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Boža *et al.* 1987: 62; Knežević 1994: 98), **Slano Kopovo** [subnom. *Statice gmelini* Willd.; *Limonium gmelini* (Willd.) O. Kuntze; *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (17-Aug-1980, Rajačić-Čapaković 1984: 40; Knežević 1994: 98; Vestek *et al.* 2013: 18), 45° 36' 35.34" N, 020° 13' 01.26" E (Vestek *et al.* 2016: 5); DR 34 **Kumane** [subnom. *Limonium gmelinii* (Willd.) Ktze. f. *acuminatum* (Schur 1866) Soó 1968; *Statice gmelini* Willd. subsp. *hungaricum* (Klokov) Soó + f. *obtusum* (Schur) Soó] (Boža *et al.* 1987: 62; Knežević 1994: 98; Knežević *et al.* 2009a: 32); DR 44 **Melenci** [subnom. *Limonium gmelinii* (Willd.) Ktze. f. *acuminatum* (Schur 1866) Soó 1968 + f. *obtusum* (Schur 1866) Soó 1968; *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Boža *et al.* 1987: 62), **Ostrovo** ["Ostrov"] (Knežević 1994: 98), **Rusanda** (Knežević 1994: 98); DR 64 **Banatski Dvor** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó f. *obtusum* (Schur 1866) Soó 1968] (Knežević 1994: 98); DR 43 **Elemir-Melenci**: [subnom. *Statice gmelini* Willd. subsp. *Hungaricum* (Klokov) Soó; *Limonium gmelini* (Willd.) O. Kuntze] **Okanj Bara** (Knežević *et al.* 2009b: 191; Panjković *et al.* 2010a: 67; Vestek *et al.* 2013: 18), 45° 29' 11.71" N, 020° 18' 19.08" E (Vestek *et al.* 2016: 5); **Elemir** [subnom. *Statice Gmelini*], chloridic solonchak-solonetz (Milojković 1976: 14), non-carbonatic chloridic solonchak-solonetz (28-Aug-1970, Hadžić 1980: 120); DR 42 **Zrenjanin-Aradac** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Knežević 1994: 98), **Aradac** ["Arda"] [subnom. *Limonium gmelini*; *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó f. *obtusum* /Schur/ Soó] (Knežević 1994: 98), "ass. *Achilleo-Festucetum pseudovinae limonietosum* (Stavnić 48), Bodrogk. 59" "ass. *Artemisio-Festucetum pseudovinae achilleetosum*" "ass. *Agrosti-Alopecuretum*" (Bodrogközy & Györfly 1970: 26-28); DR 52 **Zrenjanin** [subnom. *Limonium gmelinii* (Willd.) Ktze. f. *acuminatum* (Schur 1866) Soó 1968 + f. *obtusum* (Schur 1866) Soó 1968; *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Boža *et al.* 1987: 62; Knežević 1994: 98), **Mužlja** ["Muzslya"] [subnom. *Limonium gmelini*], "ass. *Achilleo-Festucetum artemisietosum* Bodrogk. 65" (Bodrogközy & Györfly 1970: 34); DR 51 **Ečka**

[subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Knežević 1994: 98), **Lukino Selo** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó f. *obtusum* /Schur/ Soó] (Knežević 1994: 98), **Belo Blato** (Knežević 1994: 98); DR 50-DR 60 **Farkaždin-Idvor** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó f. *obtusum* /Schur/ Soó] (Knežević 1994: 98); DR 82 **Sečanj** [subnom. *Statice gmelini* Willd.; *Limonium gmelinii* subsp. *hungaricum*; *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Knežević 1994: 98) “ass. *Poeto-Alopecuretum pratensis halophyticum* subass. *trifolietosum patensi* + subass. *agrostetum albae*” (Vučković 1982a: 18), vicinity, “ass. *Festucetum pseudovinae halophyticum*” (Vučković 1982b: C42), saltmarsh (Zorić *et al.* 2013: 45), **Boka** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó + f. *obtusum* /Schur/ Soó] (Knežević 1994: 98), **Konak-Boka**, near crossroads (11-Oct-1978, Bogojević 1979: 13); DR 72 **Banatski Despotovac** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Knežević 1994: 98), **Banatski Despotovac - Botoš** [subnom. *Statice gmelini* Willd.]: Deračka Bara, “*Suaedetum maritimae*, *Crypsidetum aculeatae*, *Chenopodium-Atriplex salina*, subass. *Puccinellietum limosae plantaginetosum schwarzenbergiana*” (Vučković 1986: 475); DR 81 **Jarkovac** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Knežević 1994: 98); DR 91 **Konak** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Knežević 1994: 98); DR 90 **Ilandža** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Knežević 1994: 98); ER 10 **Margita** [subnom. *Statice gmelini*; *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (11-Oct-1978, Bogojević 1979: 12; Knežević 1994: 98), **Vršac-Margita** [subnom. *Statice Gmelini*]: Vršački Rit (Živković 1957: 59), **Vatin** [subnom. *Statice gmelini* Willd.; *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Knežević 1994: 98), “ass. *Puccinellietum limosae* subass. *astereetosum pannonicum*” (Knežević 1984: 51); EQ 19 **Pavliš** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Knežević 1994: 98); EQ 29 **Vršac** [“Versecz”] [subnom. *Statice Gmelini*; *Statice gmelini* Willd.; *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó f. *acuminatum* /Schur/ Soó] (Knežević 1994: 98), ditches (Bernátsky 1905: 166), vicinity, “ass. *Puccinellietum limosae* subass. *puccinellietosum*” (Knežević 1984: 51); EQ 18 **Uljma** [“Ulmá”] [subnom. *Statice Gmelini*] (11-Sep-1901, Bernátsky 1905: 164); DQ 77 **Jabuka** [“Jábuka”] [subnom. *Statice Gmelini*]: former Jabuka forest [“Jábuka Wald”] (*Kitaibel, P.* 17-Jun-1800, Gombocz 1945: 522); DQ 99 **Alibunar** [subnom. *Statice gmelini* Willd. subsp. *hungaricum* /Klokov/ Soó] (Knežević 1994: 98).

**C Serbia: Prokuplje:** EN 38 **Bresničić** [subnom. *Limonium gmelinii* (Willd.) O. Kuntze] (30-Jul-2003, 15-Jun-2004, Zlatković *et al.* 2005: 11); EN 59 **Oblačina** [subnom. *Statice gmelini* Willd.; *Limonium gmelinii* (Willd.) O. Kuntze]: Oblačina Lake [“vicinity of Prokuplje”] (Pančić 1874: 210; Gajić 1972: 94; Adamović 1979: 207; Uotila *et al.* 2010: 113); **Niš:** EN 69 **Mali Lalinac** [“Lalince” “Lalinac”]: Lalinački Đeram [“Lalinačka slatina”] [subnom. *Statice Gmelini* Willd.; *Limonium gmelini* (Willd.) O. Kuntze] (Fritsch 1916: 310; Niketić 1995: 34; 21-Jun-2000, 26-May-2001, 20-Jun-2003, 08-Sep-2005, Zlatković *et al.* 2005a: 11; Randelović *et al.* 2008: 75; Vestek *et al.* 2013: 18), “ass. *Limonio-Puccinellietum distantis*” (Milosavljević *et al.* 2002: 47), 43° 20' 20.64" N, 021° 44' 30.25" E (Vstek *et al.* 2016: 5).

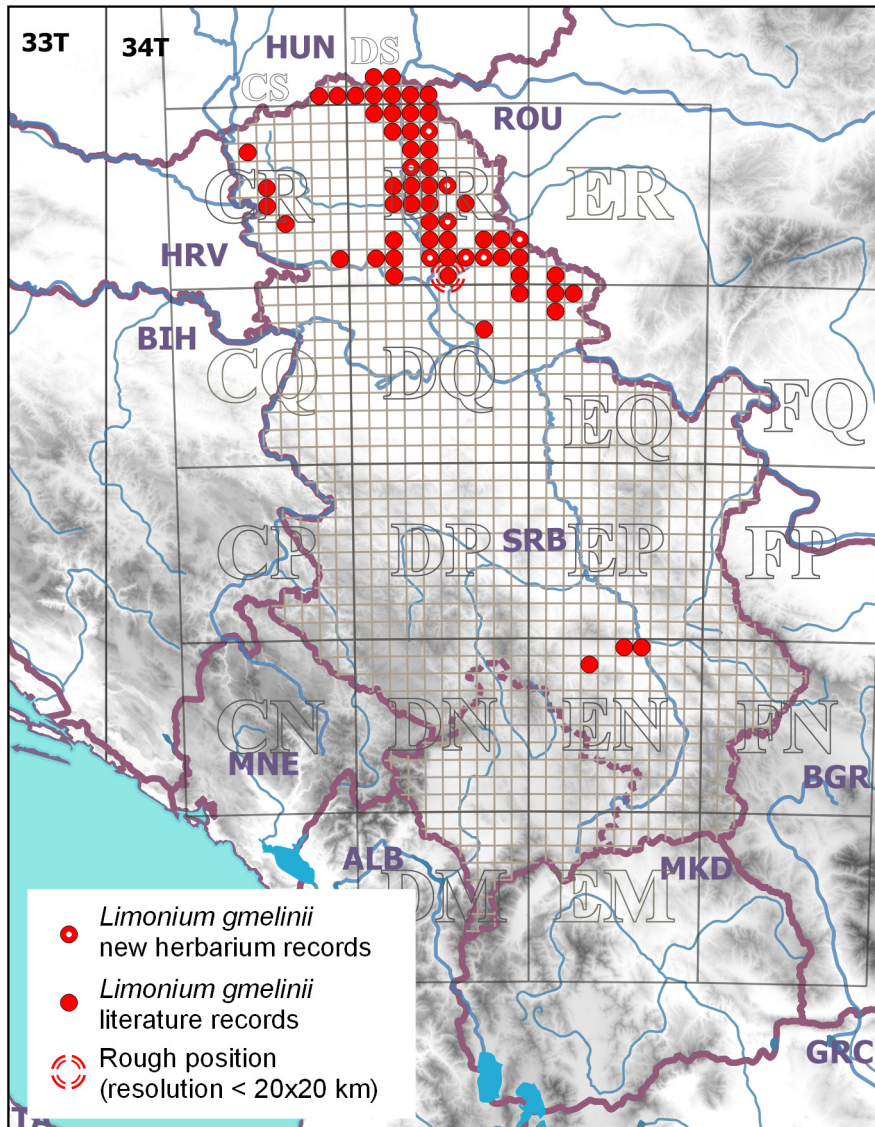


Fig. 5. – New herbarium and published data on the distribution of *Limonium gmelinii* (Willd.) Kuntze in Serbia.

IMPRECISE PUBLISHED DATA: **Serbia** [subnom. *Statice Gmelini* Willd.; *Limonium gmelinii* Willd.] (Hayek 1928: 5; Gajić 1980b: 86; 1980a: 136; Trinajstić 1981: 910); **Vojvodina** [subnom. *Statice gmellini*] (Slavnić 1950: 141; 1953: 44; Obradović 1971: 25); **Bačka** [subnom. *Statice Gmelini*; *Limonium gmelini*; *Limonium hungaricum* Klokov] (Slavnić 1948: 108-109, 113, 127, 131; 1953: 41, 52; Parabučki & Vukoje 1977: 87; Parabučki *et al.* 1977: 87; Obradović 1987: 106); **Banat** [subnom. *Statice Gmelini*; *Limonium gmelini*;

*Limonium hungaricum* Klokov] (Slavnić 1948: 108-109, 113, 127, 131; 1953: 41, 52; Obradović 1987: 106); **Northern Banat** [subnom. *Statice gmelini*] (Slavnić 1939: 82; Adamović 1959: 25, 27, 34, 39, 43); **Potisje** [subnom. *Statice Gmelini*] (Slavnić 1948: 124, 127); **Subotica-Horgoš Sands** ["Szabadka-Horgosi-homokpuszta"] [subnom. *Limonium gmelini* subsp. *hungaricum*] (Gajić 1986: 5; Sturc 1997: 115); **Subotica Sands** [subnom. *Statice gmelini* Willd. subsp. *hungarica* (Klokov) Soó] (Obradović & Boža 1986: 136); **Selevenjske Pustare** [subnom. *Statice gmelini*] (Butorac & Hulo 1992: 71); **Podunavlje in Bačka** [subnom. *Statice gmelinii* Willd.] (Džigurski & Nikolić 2014: 40); **Srem** [subnom. *Limonium gmelinii* (Wild.) O. Ktze + subsp. *hungaricum* (Klokov) Soó] (Gajić & Karadžić 1991: 5; Erdeši & Gajić 1991: 384); **Central and Southern Serbia**, saltmarshes [subnom. *Limonium gmelini*] (Zlatković *et al.* 2005b: 37); **Mali Pesak - Velebit** (Parabučki & Butorac 1993: 72); **Vršac**, vicinity (Gajić 1972: 94).

NOTES: Taxonomical treatment follows The Plant List [www.theplantlist.org]. Our herbarium and field observations suggest that all specimens from Bačka and Banat are attributable to the former subsp. *hungaricum* (Klokov) Soó. Protected by law in Serbia (Anonymous, 2010-2016) (Fig. 5).

***Limosella aquatica* L., Sp. Pl. 631 (1753).**

NEW DATA: **Bačka**: CR 34 **Apatin**: along the Danube river, between 1392<sup>nd</sup> to 1393<sup>rd</sup> km of the river length, muddy bank (Perić, R. 25-Feb-2007), Srebrnički Dunavac, mud bank, ≈ 45° 34' 30.98" N, 018° 54' 25.60" E, 83 m (Perić, R. 02-Feb-2007), Srebrnička Bara, muddy bottom (habitat of *Hippuris vulgaris* L.) (Perić, R. 27-Dec-2006); CR 44 **Apatin**: Staklarski Dunavac: Hagla, 45° 33' 22.29" N, 018° 59' 59.22" E, 82 m (Perić, R., Škondrić, S., Anačkov, G. 20-Apr-2007); CR 54 **Karavukovo - Srpski Miletić**: Peščani Brežuljak, vicinity, 45° 31' 53.69" N, 019° 11' 14.50" E, 81 m (Perić, R. 25-May-2017); CR 90 **Begeč**: along the Mali Dunav river arm, bank, 45°13'30.63", 019°37'52.57" E, 82 m (Perić, R., Petrović, S. 26-Oct-2019).

PUBLISHED DATA: **Bačka**: CR 47 **Bezdan** ["Bezdan"] (Prodán 1915: 255), Štrbac - Kozara Forest ["Bezđani erdő"], swamps (Prodán 1911: 328); DR 25 **Stari Bečej** ["Óbecse"], Tisa ["Tisza"] floodplain (Kovács 1929: 159); **Stari Bečej** ["Óbecse"]: DR 24 Donji rit ["Alsórét"] (Kovács 1929: 159); DR 22 **Žabalj** ["Zsablya"], saline pastures, saline puddles (09-Jun-1912, Prodán 1914: 99, 130), slightly saline and swampy habitats (Prodán 1915: 255); CR 91 **Futog** ["Futtak"], forests in the vicinity ["futtaki- és Felbererdő"] (Zorkóczy 1896: 61); DR 11 **Novi Sad-Kač**: Ratno Ostrvo ["Hadisziget"], along the watercourses in shady places (Zorkóczy 1896: 61); DR 10 **Kač-Kovilj**: Kurjačka Greda: Velika Hagla, "ass. *Dichostyleto-Gnaphalietum uliginosi*" (Babić 1971: 39); DR 20 **Kovilj**: Golić: Dunavac, "ass. *Dichostyleto-Gnaphalietum uliginosi*", "ass. *Heleocharetum acicularis*" + Krndija, "ass. *Heleocharetum acicularis*" + Kozjak: Stari Dunav, "ass. *Dichostyleto-Gnaphalietum uliginosi*", + Šveb, "ass. *Heleocharetum acicularis*"

(Babić 1971: 39, 53); DR 30 **Gardinovci**: Krčedinska Ada (Panjković *et al.* 2010b: 64); DR 40 **Titel**: next to the river Tisa [“Tisza”] inundation (Feichtinger 1870: 27).

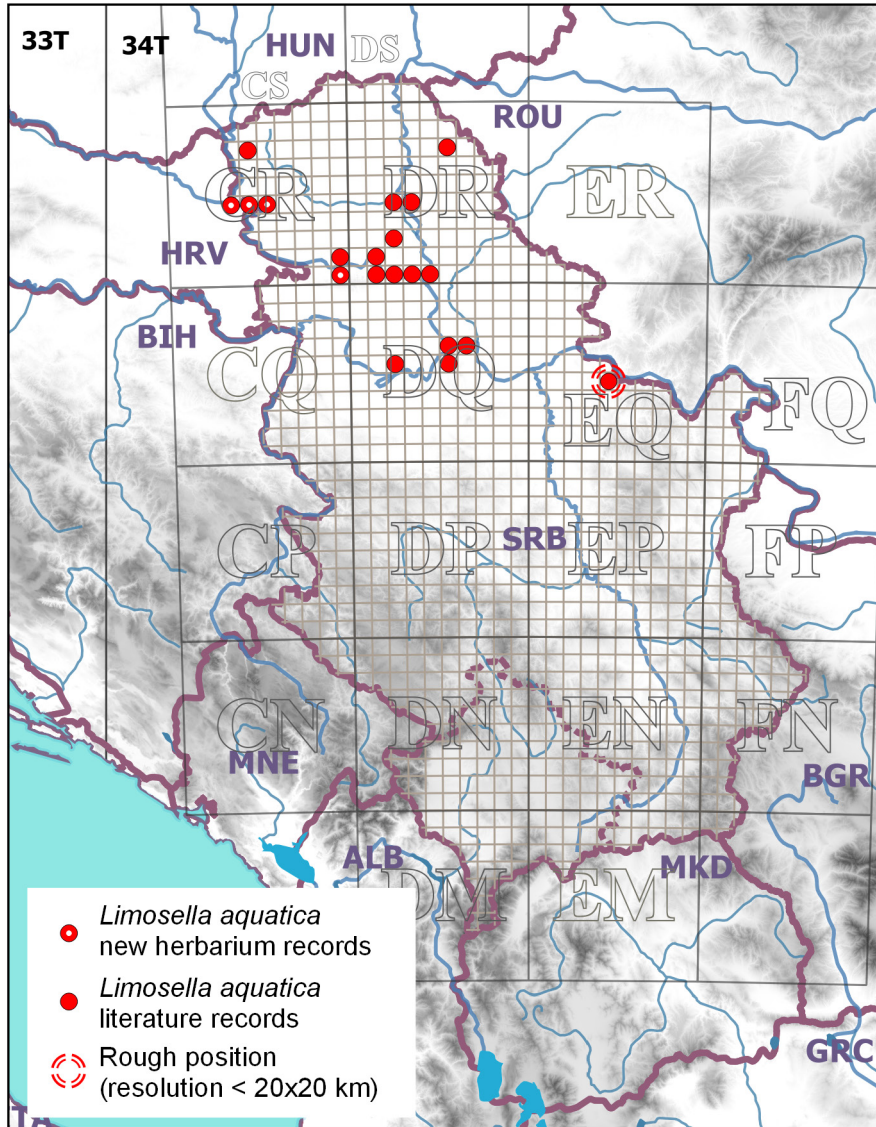


Fig. 6. – New herbarium and published data on the distribution of *Limosella aquatica* L. in Serbia.

**Banat**: DR 57 **Kikinda**, vicinity (Jovanović-Dunjić 1974: 174); DR 34 **Novi Bečej** [“Török Becse”], the Tisa [“Tisza”] floodplain, muddy areas (Kovács 1929: 159); **Belgrade**: DQ 66 **Ovča** [“Ovcsa”], bank of the Danube opposite to Ovča river island (Simkovic 1882: 51).

**Srem:** DQ 25 **Obrež-Ašanja-Kupinovo:** Matijeveca Forest [“Matijeveca I” “Matijeveca III”], forest clearings (Slavnić 1950-1952: 168); DQ 56 **Zemun** [“Semlin”] (*Pančić Schulzer et al.* 1866: 128).



Fig. 7. – *Limosella aquatica* L. and its habitat along the Mali Dunav river arm near Begeč (photo S. Petrović).

**Šumadija: Belgrade:** DQ 55 Ada Ciganlija (Pančić 1874: 535).

**NE Serbia:** EQ 44-EQ 54 **Golubac**, the Danube riverbank (Pančić 1856: 532).

IMPRECISE PUBLISHED DATA: **Serbia** (Hayek 1929: 154; Domac 1950: 308; Gajić 1980a: 127; Janković 1985: 154; Kojić & Vrbničanin 1998: 31; Nestorović & Konstantinović 2011: 227); **Vojvodina** (Slavnić 1951: 156); **Fruška gora Mt.** (Jovanović-Dunjić 1974a: 174); **Along the Danube** (Jovanović-Dunjić 1974a: 174); **Bačka along the Danube and the Tisa** (Budak 1998: 87); **Northern Banat** (Slavnić 1951: 154); **Koviljski Rit** (Budak *et al.* 1992: 49); **Belgrade** (Pančić 1888: 355; Černjavski 1950: 117 “disappeared”; Janković 1972: 163).



NOTES: The remaining habitats of this delicate amphibious plant in Serbia today are as a rule confined to rare preserved freely inundating wetland areas along the river Danube, where it finds optimal life conditions almost entirely on periodically drying river deposits composed of particularly fine silt grains admixed with high sand content (Fig. 6). The richest populations are found in numerous places across Apatinski Rit and along the Danube close to Begeč (Fig. 7). Species is protected by law in Serbia (Anonymous, 2010-2016). Old record of oceanic Boreo-temperate species *Limosella australis* R. Br. [subnom. *Limosella tenuifolia* Nutt., non Wolff ex Hoffm.] published along *L. aquatica* for the vicinity of Stari Bečej (Kovács 1929: 159) was never confirmed on the field nor substantiated with attested herbarium specimens and should be treated as erroneous.

CORRECTIONS: Herbarium data published by Obradović (1966: 88) for Sremska Kamenica under the name "*Limosella aquatica* L." are based on an erroneously identified specimen of *Gratiola officinalis* L. (Babić, N. 28-Jun-1950, PZZP).

***Linaria angustissima* (Loisel.) Borbás subsp. *angustissima***

BASIONYM: *Antirrhinum angustissimum* Loisel., *Not. Fl. France* 167 (1810).

Syn. *Antirrhinum genistifolium* Vill., *Hist. Pl. Dauphiné* 2: 440 (1787); *Antirrhinum polygalifolium* Poir., *Encyc. [J. Lamarck & al.]*, *Suppl.* 4: 21 (1816); *Linaria italica* Trev., *Index Sem.* [Wrocław/Breslau/ Vratislava], *App.* 2: 2 (1820); *Linaria linifolia* Rochel, *Pl. Ban. Rar.* 47, tab. 22 (1828); *Linaria angustifolia* DC. ex Reichenb., *Fl. Germ. excurs.* 1(3): 375 (1831-1832); *Linaria linifolia* sensu Wierzb., *Flora (Regensb.)* 23(1): 366 (1840); *Antirrhinum genistifolium* Vill. ex Benth., *Prodr. Syst. Nat. Reg. Veg.* [A. P. De Candolle] 10: 272 (1846); *Linaria linifolia* sensu Romy ex Zipser, *Versamm. ung. Ärzt. Naturforsch.* 52 [1842] (1846) (conf. Schultzer, Kanitz & Knapp, *Pflanz. Slav.* 127 (1866)).

NEW DATA: **E Serbia: Stara planina Mts.:** FP 30 Babin zub - Midžor (Perić, R., Škondrić, S. 02-Aug-2010).

PUBLISHED DATA: **Bačka:** CR 87 **Gornja Rogatica** ["Rogatica"], "ass. *Coronillo-Festucetum sulcatae* subass. *typicum*" (Parabučki 1982: Phyt. tab.), **Bajša**, "ass. *Coronillo-Festucetum sulcatae* subass. *typicum*" (Parabučki 1982: Phyt. tab.); CR 86 **Lipar**, "ass. *Coronillo-Festucetum sulcatae* subass. *typicum*" (Parabučki 1982: Phyt. tab.); CR 96 **Mali Idoš**, "ass. *Coronillo-Festucetum sulcatae* subass. *typicum*" (Parabučki 1982: Phyt. tab.); DR 25 **Stari Bečej** ["Óbecse"] [subnom. *Linaria italica* Trev.], Serbian cemetery (Kovács 1929: 160).

**Banat:** DQ 76 **Pančevo: Vojlovica:** [subnom. *Linaria Italica* Trev.] former Vojlovica Forest (Simkovic 1882: 51); **Deliblato Sands:** EQ 08 Mala Tilva, edge of *Querceto-Tilietum* stand (23-Sep-1971, Sigunov 1976: 69); **Vršac Mt.:** EQ 29 **Vršac** ["Verschetz" "Verčecz"] [subnom. *Linaria linifolia* W.; *Linaria italica* Trev.] (09-Jun-1815, Rochel 1828: 2; Heuffel 1858a: 132; 1858b: 168), Kalvarija [subnom. *Linaria linifolia*] ["Kalvarienberg"] (15-Jun-1839, Wierzbicki 1840:

366), Vršačka Kula [“non procul a ruinis arcis quondam Verčecz nuncupata”] (Rochel 1828: 60), Lisičija Glava (Panjković-Matanović 1989: 66); EQ 39 Malo Središte (Panjković-Matanović 1989: 66).

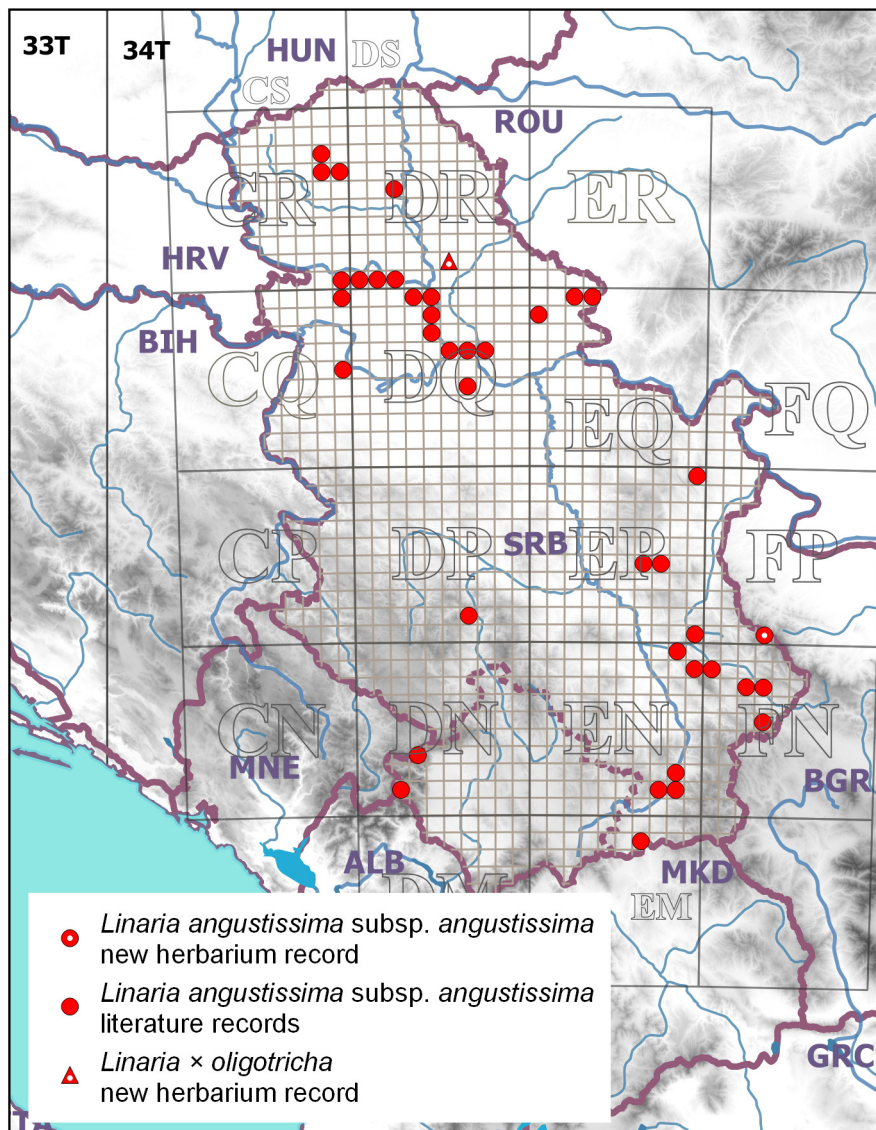


Fig. 8. – New herbarium data on the distribution of *Linaria angustissima* (Loisel.) Borbás, subsp. *angustissima* and *L. × oligotricha* Borbás in Serbia.

**Srem: Fruška Gora Mt.: DR 00 Sremska Kamenica** [“Kamenitz”] - **Iriški Venac** [“Vénáčz”] [subnom. *Linaria italica* Trev.], dry, barren places (Zorkóczy 1896: 60), **Crni čot** (Obradović 1966: 87); DR 10 **Sremski Karlovci** [“Karlowitz”] [subnom. *Linaria linifolia*], vicinity (Rumy 1846: 52); DR 20 **Čortanovci**, hilly

meadows (*Obradović, M.* 1959 *Obradović* 1961: 154); CR 90 **Ravne** (*Obradović, M.* 1974 *Obradović* 1978: 47); CQ 99 **Šuljam**, “ass. *Trifolio campestre-Chrysopogonetum grylli* subass. *euphorbietosum seguieranae*” (Butorac 1992: Phyt. tab. no. 12); DQ 39 **Krčedin** [subnom. ] (*Obradović* 1966: 87; 1978: 47); DQ 49 **Slankamen**, hilly meadows (*Obradović, M.* 1959 *Obradović* 1961: 154), **Surduk** [subnom. *Linaria italica* Trev.], grassy places and threshing floors (Hirc 1919: 401); DQ 48 **Belegiš** [subnom. *Linaria italica* Trev.], grassy places and threshing floors (Hirc 1919: 401), **Novi Banovci** [subnom. *Linaria italica* Trev.], grassy places and threshing floors (Hirc 1919: 401); DQ 47 **Stari Banovci** [subnom. *Linaria italica* Trev.], grassy places and threshing floors (Hirc 1919: 401), **Batajnica** [subnom. *Linaria italica* Trev.], grassy places and threshing floors (Hirc 1919: 401); DQ 56 **Zemun** [subnom. *Linaria italica* Trev.], grassy places and threshing floors (Hirc 1919: 401).

**Šumadija: Belgrade:** DQ 66 **Višnjica:** Višnjička Kosa (*Jakovljević et al.* 2008: 708); DQ 64 **Avala Mt.** (*Obratov* 1986: 84).

**NE Serbia:** EP 99 **Stol Mt.** [subnom. *Linaria angustifolia* DC.; *Linaria italica* Trev.] (Pančić 1874: 526; Derganc 1931-1932: 78), at the mountain peak (Pančić 1856: 530); **Rtanj Mt.** [subnom. *Linaria italica* Trev.] (Pančić 1874: 526): EP 64 **Lukovo**, above the village, “ass. *Fagetum montanum serbicum* Rud. subass. *silicicolum*”, 700 m, N exposure, paleozoic shales (Jul-1953, Jovanović 1955a: 112), EP 74 **Mirovo**, above the village, “ass. *Fagetum montanum colurnetosum* Jov.”, 850 m, NW exposure, limestone (Jul-1953, Jovanović 1955a: 118), **Rtanj:** above the mine “Rtanj”, “ass. *Carpinetum orientalis serbicum colurnetosum* Jov.”, 800 m, NE exposure, limestone (May-1952, Jovanović 1955a: 108), **Zabrđe**, “ass. *Artemisiето-Amygdaletum nanae*”, 980-1000 m, limestone (Jovanović 1954: 342).

**NW Serbia:** CQ 95 **Šabac** [subnom. *Linaria angustifolia*] (*Jelesijević et al.* 1975: 45).

**C Serbia: Ibar Valley:** DP 61 **Ušće:** Dolina Jorgovana, “ass. *Syringetum vulgaris silicicolum*”, 450 m, N/E exposure, granite (*Jovanović et al.* 1982: 10).

**E Serbia:** EN 89 **Jelašnica:** Radovanski Kamen, “ass. *Ceterachi-Ramondetum serbicae* R. Jov. Dunj. *ramondetosum nathaliae*”, E/NE exposure, limestone (*Stevanović et al.* 1987: 21); **Suva planina Mt.** [subnom. *Linaria italica*]: EN 98 Točila, ass. *Abieto-Fagetum serbicum* Jov. subass. *luzuletosum silvaticaе* facies *myrtillosum*” (Aug-1949, Jovanović 1955b: Phyt. tab. no. 17; 1980: Phyt. tab. no. 39); FN 08 **Bela Palanka** [subnom. *Linaria italica* Trev.], ass. *Carpinetum orientalis serbicum* Rud. p.p. em. Jov.” “degradation phases” (Jul-1950, Jovanović 1955b: 34; 1980: Phyt. tab. no. 26), **Mokra** (Petrović 1882: 618), “ass. *Carpinetum orientalis serbicum* Rud. p.p. em. Jov. subass. *pireto-amygdaliformetosum* Jov. facies div.”, 450 m, N/SE exposure, limestone (Jun-1948, Jovanović 1955b: 34; 1956: 101; 1980: Phyt. tab. no. 26), **Oreovac**, ass. *Carpinetum orientalis serbicum* Rud. p.p. em. Jov. subass. *pireto-amygdaliformetosum* Jov. facies div.”, 410 m, N exposure, limestone (Jul-1951, Jovanović 1955b: 34; 1956: 101; 1980: Phyt. tab. no. 26), **Divljana** [“Divljane”], “ass. *Carpinetum orientalis serbicum* Rud. p.p. em. Jov. subass. *cotoneastretosum* Jov. facies div.”, 700 m, SE exposure, limestone (Jun-1948, Jovanović 1955b: 34; 1956: 101; 1980: Phyt. tab. no. 26); **Svrlijske planine Mt.** [subnom. *Linaria Italica* Trev.]: EP 90 Pleš (Pančić 1874: 526); EN

89 **Sićevo** [subnom. *Linaria Italica* Trev.], vineyards and crags (Petrović 1882: 618); FN 27 **Pirot** [subnom. *Linaria Italica* Trev.] (*Ilić* Fritsch 1918: 271); FN 37 **Pirot: Krupac: Vučje hill** (*Jotić et al.* 2011: 101).



Fig. 9. – *Linaria angustissima* (Loisel.) Borbás, subsp. *angustissima*, comparative specimen from Vršac Mts. (PZZP).

**SE Serbia:** FN 35 **Jerma** [subnom. *Linaria italica*], ass. *Colurneto-pinnetum nigrae*” (Jovanović 1951: 52), “ass. *Humileto-Pinnetum nigrae* Jov.”, 540-600 m, SE, N/NW exposure, limestone (Jul-1950, Jovanović 1955b: 40; 1956: 120; 1980:

Phyt. tab. no. 28); **S Serbia: Vladičin Han - Vranje** [subnom. *Linaria Italica* Frev.]: EN 82 **Kacapun: Sveti Ilija Monastery** [“Hanovi Sv. Ilije”] (Ničić 1893: 55); EN 71 **Vranje** [“Vranja”] [subnom. *Linaria Italica* Frev.], vineyards (Ničić 1893: 55); EN 81 **Vranjska Banja** [subnom. *Linaria Italica* Frev.] (Ničić 1893: 55).

**S Serbia: Rujan Mt.**: EM 68 [subnom. *Linaria angustifolia*] northern (siliceous) part, “ass. *Koelerio-Silenetum frivaldskyanae*” (Stamenković & Randlelović 1986: 515).

**Metohija: Mokra Gora Mt.** [subnom. *Linaria italica*]: DN 33 **Kula**, 1796 m (Stevanović & Demajo 1985: 185); **Prokletije Mts.** [subnom. *Linaria italica* Trev.]: DN 21 **Kožnjari** (Jul-1958, Broz & Popović 1959: 26).

IMPRECISE PUBLISHED DATA: **Serbia** [subnom. *Linaria italica* Trev.] (Hayek 1929: 143; Domac 1950: 306; Nikolić 1974: 153; Gajić 1980a: 127; 1983a: 18); **Vojvodina** (Slavnić 1951: 135); **Northern part of the lowland Srem** (Gajić & Karadžić 1991: 243); **Fruška gora Mt.** [subnom. *Linaria angustifolia*] (Janković 1992: 60; Butorac 2004: 108); **Deliblato Sands** [subnom. *Linaria angustissima* (Lois.) Borb.] (Obradović 1983: 262); **Belgrade** [subnom. *Linaria italica*] (Černjavski 1950: 118); **Kopaonik Mt.** (Lakušić 1996: 23); **Niš** [subnom. *Linaria italica* Trev.], hills in its vicinity (Petrović 1882: 618).

NOTES: Its distribution in Serbia is mostly confined to the open, dry steppic habitats developed on loess, sand and limestone i.e. on Bačka loess plateau, Fruška Gora Mt., Deliblato Sands, Vršac Mt., and most of eastern and southeastern Serbia (Fig. 8). Plants from Vršac Mts. are morphologically quite comparable to its counterparts from the French Alps and Piedmont described under the name “*Linaria italica*” [*locus classicus*: “Elle a été trouvée sur les bords de la Stura et à Superga, en Piémont”] and deposited at the Muséum national d'Histoire naturelle in Paris [scan!] [<https://www.mnhn.fr/>] (Fig. 9). Protected by law in Serbia (Anonymous, 2010-2016).

*Linaria biebersteinii* subsp. *strictissima* (Schur) Soó, *Acta Bot. Acad. Sci. Hung.* 16(3-4): 372 (1970).

BASIONYM: *Linaria italica* Trev. [stat. indet.] a. *strictissima* Schur, *Enum. Pl. Trans.* 489 (1866).

**Syn.** *Linaria* ×*kocianovichii* Aschers., *Oesterr. Bot. Zeit.* 15: 325 (1865) [“*genistifolia* × *vulgaris*”]; *Linaria angustissima* subsp. *strictissima* Jáv., *Fl. Hung.* 991 (1925); *Linaria angustissima* subsp. *kocianovichii* Soó, *Mátra fl.* 65 (1937).

NEW DATA: **Bačka: Bačka Topola**: CR 87 **Tomislavci**: valley of the river Krivaja (Stojšić, V., Sabadoš, K. 15-Aug-2006); **Novi Sad**: DR 12 **Pejićevi salaši: Rimski šanac**, ≈ 45° 19' 44.91" N, 019° 52' 39.67" E, 79 m, (Perić, R., V. Stojšić, B. Panjković 11-Jul-2014).

**Banat**: DR 58 **Mokrin** (Sabadoš, K. 12-Sep-2006).

PUBLISHED DATA: **Bačka**: DR 25 **Stari Bečej** [“Óbecse”] [subnom. *Linaria angustissima* (Lois.) Borb. f. *strictissima* Schur] (Kovács Kümmerle 1920: 57).

**Banat**: DS 31 **Đala** [subnom. *Linaria Kocianovichii* Aschers.] (Obradović *et al.* 1981: 106); DR 57 **Kikinda** [“Nagy-Kikindá”] [subnom. *Linaria Kocianovichii* Asch.] (Feichtinger 1870: 33).

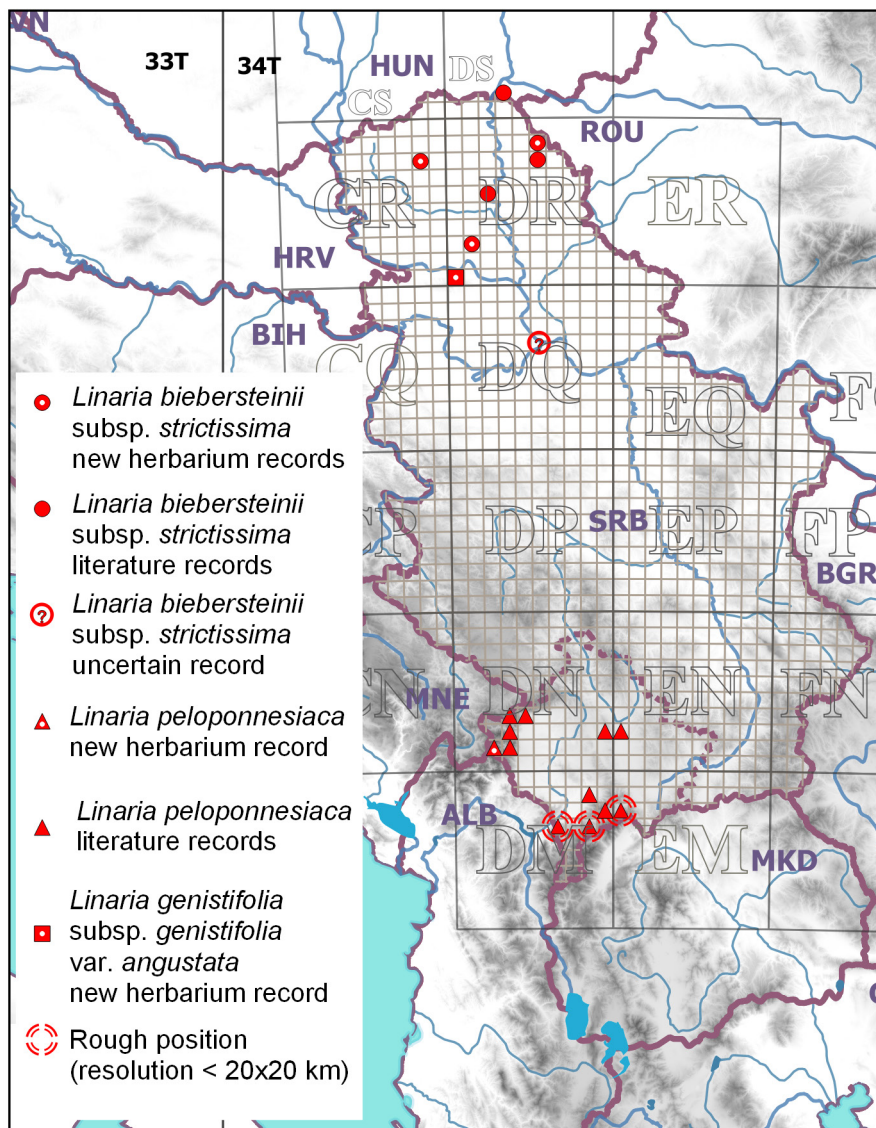


Fig. 10. – New herbarium and published data on the distribution of *Linaria biebersteinii* subsp. *strictissima* (Schur) Soó, *L. genistifolia* subsp. *genistifolia* var. *angustata* Wierzb. ex Heuffel and *L. peloponnesiaca* Boiss. & Heldr. in Serbia.

QUESTIONABLE PUBLISHED DATA: **Srem: DQ 56 Zemun** ["Semlin"] [subnom. *Linaria vulgaris* Mill.  $\beta$ ) *Biebersteinii* Panč. *L. genitoides* Panč. Herb. soc. zool. bot.] (Pančić, J. Schulzer *et al.* 1866: 127).



Fig. 11. – *Linaria biebersteinii* subsp. *strictissima* (Schur) Soó (Pejičevići salaši: Rimski šanac).

IMPRECISE PUBLISHED DATA: **Subotica Sands** [subnom. *Linaria kocianovichii* Asch.] (Obradović & Boža 1986: 130); **Deliblato Sands** [subnom. *Linaria*

*angustissima* (Lois.) Borb. subsp. *strictissima* Schur] (Obradović & Panjković 1980: 329; Obradović 1983: 264); **Rimski Šanac** [subnom. *Linaria angustissima* (subsp. *strictissima* sensu Niketić)] (Perić *et al.* 2015: 73).

NOTES: At first sight this plant intensely resembles to exuberantly developed form of *L. angustissima* with stout stem, stiff branches and wider leaves, which induced some authors to treat it within *L. angustissima* or even as a fertile cross between *L. angustissima* and *L. genistifolia* complex (see synonymy). However, its habit, type of branching, shape of leaves, inflorescence and flower morphology suggest its relation with Pontic species *L. biebersteinii* Besser (BR, no. 542 344 [scan!] [<http://www.br.fgov.be/index.php>], type material), which was recognized firstly by Soó (1970) and recently accepted as taxonomically correct (Marhold 2011+). Typical *L. biebersteinii* is more or less densely pubescent plant with 1,5-6 mm wide leaves and it is known from southwestern Ukraine (historic area of Podolia and Odessa area), while subsp. *strictissima* is entirely glabrous with leaves 3-10 mm wide (Soó 1970: 372) and distributed in the Transylvania and eastern-southeastern parts of the Pannonian plain (Ghişa 1960: 472; Soó 1968: 176; Chater *et al.* 1972: 232; Király 2009: 370). The following key for delimitation between *L. angustissima* subsp. *angustissima* and *L. biebersteinii* subsp. *strictissima* is based on Jávorka (*Flora Hungarica exsiccata, Centuria V, no. 286*, Chinese Virtual Herbarium, no. 1383450 [scan!] [<http://www.cvh.ac.cn/en/>]), Obradović *et al.* (1981: 106), Király (2009: 370) and on our observations:

- Usually robust plant with strong stem up to 40-100 cm high, stem usually much branched from the middle or above the middle, branches approximated, long and erect. Leaves thick, lanceolate to linear-lanceolate, 3-10 mm wide, long, usually with almost parallel sides and gradually tapering to a long, almost acicular and (in uppermost leaves) slightly recurved point. Lower leaves sometimes become decurrent. Calyx lobes long acute to acuminate, usually recurved at the apex. Spur shorter than lower lip of corolla, corolla pale yellow. *L. biebersteinii* subsp. *strictissima*
- More slender plant (20-)35-50(-60) cm high, stem often simple or ± sparingly branched from the base, branches more patent. Leaves somewhat softer, usually lanceolate-elliptic, 1-3 mm wide and ± abruptly tapering to a shortly acute or subobtuse point. Calyx lobes abruptly acute, obtuse or almost rounded at the apex, usually entirely appressed to corolla. Spur as long as lower lip of corolla, corolla usually vividly yellow. Plants often darken upon drying.

*L. angustissima* subsp. *angustissima*



Distribution of this species in Serbia is poorly known and substantiated with only two field records in recent years (Fig. 10). Its typical habitats are loess steppic meadows or steppic-forest grasslands in central and southern Bačka. Population from Rimski šanac is developed on one of the oldest secondary steppic habitat stands in Serbia i. e. on the earth embankment made in 3<sup>rd</sup> century A. D. by the Sarmatian tribes (loose reference to this population has been published before by Perić *et al.* 2015) (Fig. 11).

***Linaria genistifolia*** subsp. ***genistifolia*** var. ***angustata*** Wierzb. ex Heuffel, *Enum. Pl. Banat.* 132 (1858) [*Verh. Bot. Zool. Ges. Wien* 8: 168 (1858)].

**Syn.** *Linaria linifolia* sensu Griseb. ex Schenk, *It. Hung.* 322 (1852) ap. Heuffel, *loc. cit.*

NEW DATA: **Srem: Fruška Gora mt.:** DR 00 **Rakovac:** Rakovac quarry ["Kišnjeva glava"] (*Stojić, V.* 23-Aug-2006).

NOTES: New for Serbia (Fig. 10). Taxonomical treatment follows Niketić & Tomović (2008: 626). From typical *genistifolia* differs by the following traits (*cf.* Heuffel 1858a: 132; 1858b: 168; Soó 1968: 174; Májovský & Hegedúšová 1997: 114; Marhold 1997: 589):

- Slender plant up to 60 cm high, stem and leaves usually thin (not fleshy), green or greyish-green. Leaves distinctly narrowly lanceolate, or linear-lanceolate in outline, often 1-3 mm wide, 1-3 veined. Flowers as a rule small ( $\pm$  15 mm long). var. ***angustata***
- Robust greyish-green plant up to 100 cm high with thick, fleshy, almost leathery stem and leaves. Leaves wider, usually ovate-lanceolate, most commonly 5-10 mm wide, 5-7 veined. Flowers larger (15-20 mm long). var. ***genistifolia***

From subsp. *sophiana* it differs in having stronger stem which is usually more branched already from the base or bellow the middle (subsp. *sophiana* has more gracile stem branched only above the middle) and with comparatively wider median leaves (2-8 times longer than wide while in subsp. *sophiana* are more than 8 times longer than wide) (Niketić & Tomović 2008). Also, while subsp. *sofiana* has Balkan-Euxine distribution (Niketić & Tomović 2008), var. *angustata* is considered to be more affiliated with xerothermic habitats of Central Europe and the Pannonian plain (Májovský & Hegedúšová 1997: 114-115).

HABITAT IN SERBIA: Loess steppic cliffs and slopes on Fruška gora Mt. Probably more widespread in Pannonian and peri-Pannonian parts of Serbia.

***Linaria genistifolia*** subsp. ***sofiana*** (Velen.) Chater & D. A. Webb, *Bot. J. Linn. Soc.* 65(2): 264 (1972).

Substantial degree of nomenclatural misinterpretations and intricate relationships within *Linaria genistifolia* complex in the Balkans resulted in almost universal confusion in literature data for Serbia, so we will confine ourselves here only to disposition of our herbarium data based on the most recent taxonomical treatment by Niketić & Tomović (2008: 624-625).

NEW DATA: **E Serbia: Stara Planina Mts.:** FP 21 Orlov Kamen (*s. leg.* 14-Jul-1998); FN 35 **Greben Mt.** (*Stojšić, V.* 14-Jul-1994).

***Linaria ×oligotricha*** Borbás, *Oesterr. Bot. Z.* 28: 393 (1878) [*angustissima* × *vulgaris*].

NEW DATA: **Banat: Belo Blato - Perlez:** DR 51 Carska Bara (*Stojšić, V.* 06-Aug-1990).

NOTES: New for Serbia (Fig. 8). Flower size and spur length similar to *L. angustissima* subsp. *angustissima* but racemes and pedicels glandulose-pubescent like *L. vulgaris* (*L. angustissima* is always glabrous) (Borbás 1878: 393). Described earlier under the name *Linaria vulgaris* [stat. indet.] β *macrocentra* by Petermann (1838: 463) [“Axis, racemi pedicellulique glanduloso-pubescentes; calcar corollam superans”]. Probably more widespread in Serbia.

***Linaria peloponnesiaca*** Boiss. & Heldr. in Boiss., *Diagn. Pl. Orient., ser.* 2,3: 163 (1856).

NEW DATA: **Metohija: Prokletije Mts.:** DN 21 Maja Rops (*Panjković, B.* Jun-1996).

PUBLISHED DATA: **Metohija:** DN 33 **Žljeb Mt.** [“Žlep (Šljep)”] (Hayek 1917: 74); **Prokletije Mts.:** DN 43 Čakor Pass, eastern slopes, about 1300 m (Rechinger 1935: 361); DN 32 **Prokletije Mts.:** Rugovo Gorge [“Schlucht bei Peć” “klisura Bistrice (Peć)”] (Rechinger 1935: 361; Nikolić 1974: 149); DN 31-DN 32 **Prokletije Mts.:** Koprivnik Mt. (*Černjavski* 1934, Diklić & Nikolić 1961: 226; Nikolić 1974: 149; Amidžić & Panjković 2003: 159); DN 31 **Prokletije Mts.:** Dečanska Planina Mt. (*Černjavski, Rudski, Lindtner* 1933, Diklić & Nikolić 1961: 226), Kurvala: Ločanska Planina (Nikolić 1974: 149), Ločanska Bistrica [“Ločanska-Tal”] (Rechinger 1935: 361); Dečanska Bistrica (Nikolić 1974: 149); DM 66-DM 65 **Koritnik Mt.**, alpine and subalpine rocky places (Nikolić 1974: 149; Rexhepi 1982a: 216).

**Kosovo:** DN 92 **Glogovac** [“Drenas”], waste dump of a “Ferronikeli” smelter, 42° 38' 22" N, 020° 54' 49" E (Mustafa *et al.* 2012: 828); EN 02 **Obilić** [“Obiliq”], “Kosova A” power plant, ash dump, 42° 39' 44" N, 021° 05' 57" E (Mustafa *et al.* 2012: 828); **Šar Planina Mts.:** Mušutište DM 88 Rusenica Gorge (Nikolić *et al.* 1986: 305), near Svete Trojice monastery, “ass. *Musco-Saxifraga rotundifolio-porophyllae-Ramondaetum serbicae*”, 880-950 m, NE exposure, limestone (05-Jul-1979, Janković & Stevanović 1981: 12); **Šar Planina Mts.:** DM 97

Ošljak (Krivošej *et al.* 1997: 27), Popovo Prase, between 1800 to 1900 m in the zone of Bosnian Pine forest (*Sesleria autumnalis-Pinetum heldreichii* Janković et Bogojević 1962), “ass. *Sesleria wettsteinii-Onobrychis montana* Rajevski 1990”, S exposure, limestone (Niketić *et al.* 2015: 64); **Šar Planina Mts.**: DM 86-DM 96 Kobilica (Duraki *et al.* 2017: 19); **Šar Planina Mts.** [“Malet e Sharrit”]: EM 07-EM 17 Ljuboten [“Ljubitrn” “Lubotenit”] (Wettstein 1892: 77; Rexhepi 1984: 44).

IMPRECISE PUBLISHED DATA: **Serbia** (Gajić 1979: 10; 1980a: 127; Tomić 1998: 61); **Prokletije Mts.** [“Bjeshket e Nemuna”] (Rexhepi 1982: 216; Amidžić & Panjković 2003: 159); **Šar Planina Mts.** (Janković 1982a: 104).

NOTES: Distribution of this Balkan endemic species in Serbia is chiefly restricted to dry stony grounds, grasslands and screes in upper forest zone and alpine zone of Prokletije Mts. and Šar Planina Mts. (Fig. 10). Protected by law in Serbia (Anonymous, 2010-2016).

*Linaria rubioides* subsp. *nissana* (Petrović) Niketić & Tomović, *Taxon* 57(2): 624 (2008).

The exact nature of basic nomenclatural and chorological information about this Balkan endemic subspecies confined only to limestone areas of eastern Serbia has been unresolved for decades due to prevailing and rather conflicting views regarding its taxonomical position in relation to *Linaria genistifolia* complex (Niketić & Tomović 2008: 620, 628), which resulted in confusing literature data. Consequently, here are included only our herbarium data:

NEW DATA: **SE Serbia**: [subnom. *Linaria concolor* Gris.] FN 35 **Jerma** (Savić, D. 09/11-May-1995), [subnom. *Linaria halepensis*] Jerma Canyon, screes (Stojišić, V. 12-Jul-1994); Zvonačka Banja [subnom. *Linaria concolor* ssp. *sophiana*] (*Butorac*, B. 05-Jun-1993).

*Lindernia dubia* (L.) Pennell, *Scroph. E. N. Amer.* 141 (1935).

NEW DATA: **Bačka**: CR 44 **Apatin**: Staklara, 45° 33' 29.14" N, 019° 00' 30.01" E, 79 m (Perić, R. Aug-2018, *pers. comm.*); **Gardinovci**: DR 30 Krčedinska Ada (Perić, R. 04-Sep-2009; 22-Sep-2009), **Slankamenački Vinogradi**: Danubian island, ≈ 45° 10' 47.91" N, 020° 10' 56.25" E, 69 m (Perić, R. 15-Jul-2014).

**Banat: Deliblato Sands**: EQ 26 Đurica Bara, on the Danube bank, (Perić, R. 25-Sep-2009).

**Srem**: CR 90 **Beočin**: along the Danube, 45°13'24.00", 019°42'13.21" E, 73 m (Perić, R. 07-Aug-2018).

**NW Serbia**: CQ 77 **Ravnje: Otok**: along the river Sava (Perić, R., Stojišić, V. 05-Aug-2009); Bostanište, forest glade (Stanković, M. 08-Aug-2010), **Crna Bara: mouth of the river Drina: Adica** (Perić, R., Stojišić, V. 05-Aug-2009); CQ 87 **Glušci**: along the river Bitva, dried depression, ≈ 44° 54' 49.29" N, 019° 31' 43.67" E, 79 m (Stanković, M. 08-Aug-2008).

PUBLISHED DATA: **S Serbia**: EN 78 **Pukovac**: along the river Južna Morava, sandy riverbanks (*Ranđelović, V., Zlatković, B., Jušković, M.* 18-Sep-2005, *Ranđelović et al.* 2006: 123).

IMPRECISE PUBLISHED DATA: **Serbia** (*Stojanović et al.* 2015: 83); **Special Nature Reserve “Zasavica”** (*Dobretić et al.* 2012: 32; *Perić et al.* 2017: 79).

NOTES: Northern American adventive plant discovered relatively recently in southern Serbia. However, over the past decade or so, we found it at numerous localities in Vojvodina and Mačva (Fig. 12). Its typical habitats are mudflats, dried riverbanks, lakebeds and similar amphibious places where it is usually accompanied with other species belonging to vegetation of the *Nanocyperion flavescens* W. Koch or *Bidention tripartiti* alliance. Also, it appears that this species in Serbia is significantly more frequent compared with autochthonous *L. procumbens* (see below). In all observed cases it is found that they never grow together and that *L. dubia* is more frequent in anthropogenically disturbed habitats (e. g. open riverbanks near settlements) while *L. procumbens* is more typical for preserved, more or less isolated wetland habitats (e. g. permanent forest ponds).

***Lindernia procumbens*** (Krock.) Philcox, *Taxon* 14: 30 (1965)

NEW DATA: **Bačka**: CR 53 **Deronje**: Osnovna Bara, forest road, 45° 26' 54.13" N, 019° 12' 11.45", 80 m (*Perić, R.* 10-Jul-2019) (Fig. 13).

**Srem**: **Bosut Forests**: CQ 58 Deševača Bara, dried ditch along the forest road, ≈ 44° 59' 05.61" N, 019° 09' 55.08" E, 81 m (*Perić, R.* 17-Sep-2013), Crnogorica Bara, 44° 58' 21.23" N, 019° 11' 44.76" E, 82 m (*Perić, R.* 09-Nov-2017); CQ 68 Obodnjača Bara, 44° 58' 15.45" N, 019° 15' 02.75" E, 86 m (*Perić, R.* 09-Nov-2017).

PUBLISHED DATA: **Bačka**: CR 72 **Obrovac-Gajdobra** [subnom. *Lindernia pyxidaria* All.] (*Atanacković* 1958: 147).

**Banat**: DR 71-DR 61 **Tomaševac-Orlovat** [subnom. *Lindernia palustris* Hartm.] (*Savić, D.* 1997 *Tomović et al.* 2007: 66; *Stojanović et al.* 2015: 82).

**Srem**: CQ 67 **Višnjićevo**: Vinična, on the road between forest compartments No. 37 and 38, clearing 2, 44°57'01.85", 019°13'42.63" E, 81 m (*Perić, R.* 02-Jul-2013, *Perić et al.* 2016: 85), **Sremska Rača**: Vratična, puddles on the road between forest compartments No. 20 and 21, 44°56'06.04" N, 019°15'05.63" E, 90 m (*Perić, R.* 09-Jul-2014, *Perić et al.* 2016: 85); DQ 07 [subnom. *Lindernia gratioloides* (L.) Poir. ex Steud.] **Buđanovci-Hrtkovci**: Galovača, common oak alkali forest (*Gajić & Karadžić* 1991: 245); DQ 25 **Obrež-Ašanja-Kupinovo** [subnom. *Lindernia pyxidaria* All.]: Matijevica Forest ["Matijevica I" "Matijevica II"], forest clearings (*Slavnić* 1950-1952: 168); DQ 56 **Zemun** ["Semlin"] [subnom. *Lindernia pyxidaria* All.] (*Pančić* *Schulzer et al.* 1866: 127; *Pančić* *Neilreich* 1866: 186; *Schlosser & Vukotinović* 1869: 678).

NW Serbia: CQ 77 **Banovo Polje**: Duge Njive, left bank of the river Batar, fallow (27-Aug-2005, *Perić, R., Stanković, M. Perić & Stanković 2007: 27*; “lower course of the Batar river” *Dobretić et al. 2012: 32; Perić et al. 2017: 79*).

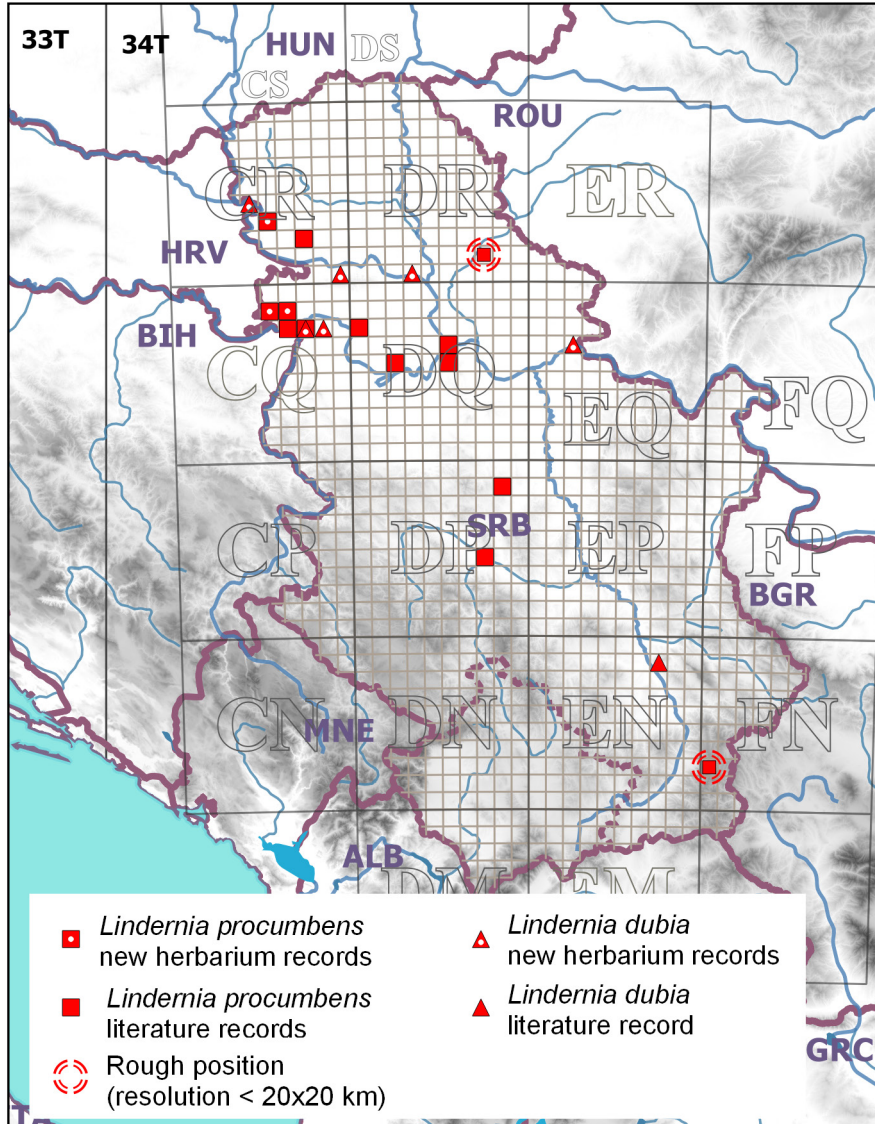


Fig. 12. – New herbarium and published data on the distribution of *Lindernia dubia* (L.) Pennell and *L. procumbens* (Krock.) Philcox in Serbia.

**Šumadija: Belgrade:** DQ 56 [subnom. *Lindernia palustris* Hartm.] Veliko Ratno Ostrvo (*Petrović 1996 Tomović et al. 2007: 66*); DQ 55 **Belgrade: Rakovica** (*Pančić 1892*); **Kragujevac: DP 88 Sobovica:** [subnom. *Lindernia pixidaria* All.;

*Lindernia palustris* Hartm.], “forest swamp” (Pančić 1856: 532), Bele Bare (Pančić, J. 1851 Tomović *et al.* 2007: 66; Stojanović *et al.* 2015: 82).



Fig. 13. – *Lindernia procumbens* (Krock.) Philcox, vicinity of Deronje, 10. 07. 2019. (photo R. Perić).

**C Serbia:** DP 74 [subnom. *Lindernia palustris* Hartm.] **Kraljevo** (Pančić, J. 1869 Tomović *et al.* 2007: 66; Stojanović *et al.* 2015: 82).

**SE Serbia:** FN 02-FN 12 [subnom. *Lindernia palustris* Hartm.] **Vlasina** (Pančić, J. 1880 Tomović *et al.* 2007: 66; Stojanović *et al.* 2015: 82).

IMPRECISE PUBLISHED DATA: **Serbia** [subnom. *Lindernia pyxidaria* All.; *Lindernia gratioloides* (L.) Poir.] (Pančić 1874: 535; Hayek 1929: 155; Domac 1950: 308; Jovanović-Dunjić 1974b: 175; Gajić 1980b: 127; Tomović *et al.* 2005: 63); **Vojvodina** [subnom. *Lindernia pyxidaria* All.] (Slavnić 1951: 154); **Nothern Banat** [subnom. *Lindernia pyxidaria* All.] (Slavnić 1951: 154); **Koviljsko-Petrovaradinski Rit** (Stojanović *et al.* 2015: 82); **Bosut Forests** (Stojanović *et al.* 2015: 82); **Special Nature Reserve “Zasavica”** [subnom. *Lindernia palustris* Hartm.] (Simić 2007: 208; Stanković 2010: 66; 2011: 79; Dobretić *et al.* 2012: 21, 29; Stanković 2012a: 76; 2012b: 122; Stojanović *et al.* 2015: 82); **Belgrade** [subnom. *Lindernia pyxidaria* All.; *Lindernia gratioloides*] (Pančić 1888: 354; Černjavski 1950: 117 “disappeared”).

NOTES: The richest populations were recorded in forest ponds in lowland oak forests along the rivers Bosut and Studva influenced by regular domestic pig grazing (Fig. 12). Protected by law in Serbia (Anonymous, 2010-2016).

***Linum austriacum* subsp. *austriacum* f. *pseudoaustriacum*** Nyárády, *Kv. fl.* 654 (1941–1944).

NEW DATA: **Bačka: Subotica:** CS 91 Jasenovačka šuma (Butorac, B. 09-Jul-1998); **Bački Vinogradi - Horgoš:** DS 11 Lofej, 46° 08' 46.72" N, 019° 52' 11.91" E, 94 m (Perić, R. 06-Jun-2012); [subn. *Linum austriacum*] Selevenjska Forest (Šajinović, B. 29-Jun-1977), Bogarzo, steppe (Butorac, B. 22-Jul-1993), [subn. *Linum perenne* L.] Degelica (Butorac, B. 04-Jun-1994); **Horgoš:** DS 11 Madaras channel, eastern side (Perić, R. 03-Aug-2007), Madaras channel, western side (Perić, R. 03-Aug-2007).

**Banat: Deliblato Sands:** EQ 07 Rošijana (Butorac, B. 30-Sep-1997).

NOTES: New for Serbia (Fig. 14). *Majority* of the fruiting pedicels erecto-patent, sometimes the only 1-2 uppermost or lowermost capsules with flexuous or recurved pedicells (Nyárády, 1941-1944: 342, 654). At first glance similar to *L. perenne* but sepals equal, often acute (in *perenne* the inner sepals are usually 0.5-1 mm longer than the outer and rounded at the apex), capsules 3-5 mm long (in *perenne* they are 5-7 mm long), spherical-globose before opening (spherical-ovate in *perenne*), petals usually 10-18 mm long (vs. 15-20 mm in *perenne*), inflorescence usually secund (vs. not secund in *perenne*) (Ockendon & Walters 1968: 208-209; Ockendon, 1971: 210-212; Pifkó 2009: 267). Ockendon described plants from eastern Europe that “have the erect pedicels of subsp. *perenne* but the small capsules of subsp. *austriacum* (Ockendon, 1971: 213, 217)” while according to Soó this form can be maybe considered as *perenne* × *austriacum* hybrid (1966: 576). In Serbia these characteristics show some topodemes of *L. austriacum* from sandy and saline habitats in Subotica-Horgoš Sands and its vicinity and, rarely, in Deliblato Sands.

CORRECTIONS: Herbarium specimens collected by B. Butorac in the vicinity of Horgoš and published under the name “*Linum perenne*” (Butorac & Hulo 1992: 71) are in fact referring to *L. austriacum* f. *pseudoaustriacum*.

OTHER INFRASPECIFIC TAXA REPORTED FROM SERBIA:

1. ***albiflorum*** (Borb.) Soó, *Syn. syst.-geobot. fl. veg. Hung.* 2: 573 (1966) [“var. *albiflorum* Borb.”] (Hirc 1919: 390; Boža & Obradović 1980: 364; Boža & Vasić 1986: 147).

***Linum capitatum* subsp. *serrulatum*** (Bertol.) Hartvig, *Mount. Fl. Gr.* 1: 556 (1986).

NEW DATA: **Metohija: Prokletije Mts.:** DN 22 Žuti Kamen ([s. leg.]14-Jul-1996).

NOTES: New for Serbia and its northernmost known record (the closest next record is in SW Northern Macedonia) (Fig. 14). Compared with subsp. *capitatum*, it is more slender plant with flowering stems usually 8-20 cm

high (vs. 15-35 cm high in subsp. *capitatum*) and 1-2 mm thick (vs. 2-5 mm in subsp. *capitatum*), the uppermost cauline leaves are usually with ciliate-lacerate margins (vs. often all leaves with entire margins in subsp. *capitatum*) and 2-4(-6) mm wide (vs. (3-)5-12 mm wide in subsp. *capitatum*) (Hartvig 1986: 556) (Fig. 15).

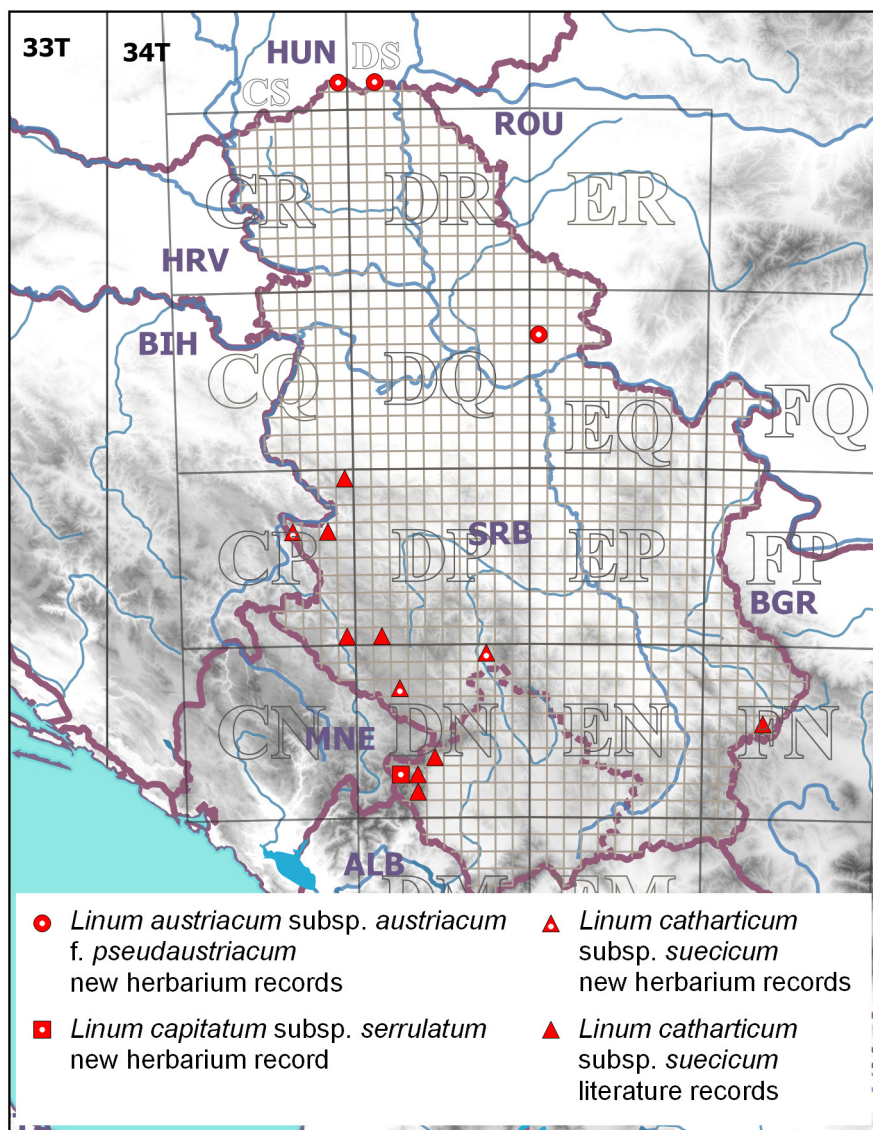


Fig. 14. – New herbarium and published data on the distribution of *Linum austriacum* subsp. *austriacum* f. *pseudoaustriacum* Nyárády, *L. capitatum* subsp. *serrulatum* (Bertol.) Hartvig and *L. catharticum* subsp. *suecicum* (Hayek) Hayek in Serbia.





Fig. 15. – *L. capitatum* subsp. *serrulatum* (Bertol.) Hartvig (Prokletije Mts.: Žuti kamen).

*Linum catharticum* subsp. *suecicum* (Hayek) Hayek, *Fl. Steiermark* 1: 621 (1909).

NEW DATA: **C Serbia**: [subnom. *Linum catharticum* L.] **Kopaonik Mt.**: DN 79 Kozje Stene, road above the river Samokovka (*Savić, D.* 02-Jun-1994).

**W Serbia**: **Tara Mt.** [subnom. *Linum catharticum* L. var. *subalpinum* Hausskn.]: CP 66 Derventa Canyon (*Butorac, B.* 08-Sep-1994).

**SW Serbia**: DN 27 **Budevo**: between the losing river Raklja and Malo Lašće [“Malo Lešće”] (*Butorac, B.* 23-Jul-1994).

PUBLISHED DATA: **W Serbia**: CP 99 **Medvednik Mt.** [subnom. *Linum catharticum* L. ssp. *suecicum* Hay.], sparse beech forest (Nikolić & Diklić 1958: 81; Nikolić 1973: 125), **Jablanik Mt.** [subnom. *Linum catharticum* L. ssp. *suecicum* Hay.], meadows, on the edge of beech forest (Nikolić & Diklić 1958: 81; Nikolić 1973: 125); **Tara Mt.** [subnom. *Linum catharticum* L. var. *subalpinum* Hausskn.]: CP 86 **Kaluđerske Bare** (Gajić 1988: 273); DP 10 **Uvac Canyon** [subnom. *L. suecicum* Hay.] (Veljić *et al.* 2006: 131).

**SW Serbia**: CP 90 **Prijepolje** [subnom. *Linum suecicum* Murb.], vicinity (Zahlbruckner P., 1904, Hayek 1906: 278).

**SE Serbia**: [subnom. *Linum catharticum* L. subsp. *suecicum* Hay.] FN 35 **Jerma**: **Zvonačka banja** (Diklić 1977: 209).

**Metohija: Prokletije Mts.** [subnom. *Linum catharticum* L. ssp. *suecicum* Hay.] DN 43 **Čakor Pass**, eastern slopes (Rechinger 1935: 320); DN 32 **Sušica Canyon** [“Schlucht der Sušica”] (Rechinger 1935: 320; Nikolić 1973: 125); DN 31 **Dečanska Planina Mt.** (Nikolić 1973: 125), “beech forest” (Rechinger 1935: 320); DN 31-DN 32 **Koprivnik Mt.** (Nikolić 1973: 125).

IMPRECISE PUBLISHED DATA: **Serbia** [subnom. *Linum catharticum* L. subsp. *suecicum* Hay.] (Hayek 1925: 567).

NOTES: In Serbia this subspecies is distributed mostly in mountain areas (Fig. 14). It was published firstly on the species level as nomen nudum “*L. suecicum* Murb.” based on the original material collected by P. Zahlbruckner in the vicinity of Prijepolje (SW Serbia) in the spring of 1904 (Hayek, 1906: 278).

Described earlier as *Linum catharticum* [stat. indet.] β. *subalpinum* Hausskn., *Mitt. Thür. Bot. Ver., N. F.*, 6: 22 (1894) [“a typo differt inflorescentia squarroso-divaricata, foliis inferioribus dense confertis, sepalis angustioribus magis acuminatis, petalis obtusis rotundatis, 5-6<sup>1/2</sup>, nec 4-5 mm longis, floribus fauce intensius luteo tinctis”] (Haussknecht, 1894: 22).

**Scorzoneroides montana** subsp. **breviscapa** (DC.) Greuter, *Willdenowia* 36: 691 (2006).

NEW DATA: **Metohija: Prokletije Mts.**: DN 22 **Žuti Kamen** (Panjković, B. 14-Jul-1996).

PUBLISHED DATA: **Metohija: Prokletije Mts.** [subnom. *Leontodon pyrenaicus* Gou.] DN 21 **Bogićevica Mt.** (Gajić 1975: 277), **Pločica - Derviš Kom** (Gajić 1975: 277); DN 21-DN 31 **Pločica** (Černjavski, Rudski, Lindtner 1933, Diklić & Nikolić 1961: 230; Gajić 1975: 277); **Šar Planina Mts.** [subnom. *Leontodon pyrenaicus* Gou.]: DM 73 **Mramor**, on limestone layers (Amidžić *et al.* 1999: 64), DM 74 **Čelepino**, on limestone layers (Amidžić *et al.* 1999: 64); DM 84 **Trpeznica**, on limestone layers (Amidžić *et al.* 1999: 64).

**Kosovo: Šar Planina Mts.** [subnom. *Leontodon pyrenaicus* Gou.; *Leontodon pyrenaicus* Gou. subsp. *helveticus* (Merat) Finch, P. D. Sell.]: DM 97 **Jažince: Beli**

Rid, on limestone layers (Amidžić *et al.* 1999: 64); DM 86-DM 96 Kobilica (Duraki *et al.* 2017: 19); DM 96 Bistra Peak (Nikolić *et al.* 1986: 321), pastures and rocks, 2000-2200 m (Nikolić, Diklić, Mladenović Nikolić & Diklić 1979: 35), Jažinačko Lake (Nikolić *et al.* 1986: 321), vicinity, pastures and rocks, 2100 m (Nikolić, Diklić, Mladenović Nikolić & Diklić 1979: 35), Jažinac Cirque (Amidžić & Krivošej 1998: 393).



Fig. 16. – New herbarium and published data on the distribution of *Scorzonerooides montana* subsp. *breviscapa* (DC.) Greuter in Serbia.

IMPRECISE PUBLISHED DATA: **Serbia**: [subnom. *Leontodon pyrenaicus*] (Gajić 1980a: 127); **Metohija: Prokletije Mts.** (Amidžić & Panjković 2003: 161).

NOTES: Its distribution in Serbia appears to be confined only to high-alpine areas of the Prokletije Mts. and Šar Planina Mts. (Fig. 16). In PZZP exists additional record from new locality within previously known UTM square: DN 21 Maja Rops (*Janković, M.* 12-Jul-1996). Protected by law in Serbia (Anonymous, 2010-2016).

## CONCLUSIONS

This article presents the second part of data resulting from the continuing process of identification and revision of vascular plant material deposited in the Herbarium collection of the Institute for Nature Conservation of Vojvodina province in Novi Sad (PZZP). Presented plant taxa are distributed within 52 UTM squares and include 11 genera (*Leontodon* L., *Lepidium* L., *Leucanthemella* Tzvelev, *Leucanthemum* Mill., *Leucojum* Mill., *Limonium* Mill., *Limosella* L., *Linaria* Mill., *Lindernia* All., *Linum* L. and *Scorzoneroides* Moench), 22 species, 14 subspecies, 1 variety, 1 form, 1 infraspecific taxon with indetermined taxonomical status [stat. indet.] and one nothospecies.

New taxa for Serbia are: 1 subspecies (*Linum capitatum* subsp. *serrulatum*), 1 nothospecies (*Linaria* ×*oligotricha*), 1 variety (*Linaria genistifolia* subsp. *genistifolia* var. *angustata*), 1 form (*Linum austriacum* subsp. *austriacum* f. *pseudoaustriacum*) and 1 “stat. indet.” taxa (*Leontodon hispidus* subsp. *hispidus* [stat. indet.] b. *ericetorum*).

New and critical chorological data on already known taxa in Serbia are given for 9 species (*Lepidium graminifolium*, *L. virginicum*, *Leucanthemella serotina*, *Leucanthemum heterophyllum*, *Limonium gmelinii*, *Limosella aquatica*, *Linaria peloponnesiaca*, *Lindernia dubia*, *Lindernia procumbens*) and 10 subspecies (*Leontodon saxatilis* subsp. *saxatilis*, *Lepidium cartilagineum* subsp. *cartilagineum*, *Leucanthemum ircutianum* subsp. *leucolepis*, *Leucojum aestivum* subsp. *aestivum*, *Linaria angustissima* subsp. *angustissima*, *L. biebersteinii* subsp. *strictissima*, *L. genistifolia* subsp. *sofiana*, *L. rubioides* subsp. *nissana*, *Linum catharticum* subsp. *suecicum*, *Scorzoneroides montana* subsp. *breviscapa*).

Taxa protected by national legislation in Serbia include one in the category of strictly protected (*Lepidium cartilagineum* subsp. *cartilagineum*) and 6 in the category of protected (*Leucojum aestivum* subsp. *aestivum*, *Limonium gmelinii*, *Limosella aquatica*, *Linaria angustissima* subsp. *angustissima*, *Linaria peloponnesiaca*, *Lindernia procumbens*).

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**МАТЕРИЈАЛИ ЗА ФЛОРУ СРБИЈЕ ИЗ ХЕРБАРИЈУМСКЕ  
КОЛЕКЦИЈЕ PZZP (2)**

РАНКО ПЕРИЋ, ЈЕЛЕНА КНЕЖЕВИЋ

РЕЗИМЕ

У овом чланку је представљен други део података о одређеним, новим и у флори Србије вреднијим таксонима васкуларних биљака добијених током текућег рада на проучавању и ревизији Хербаријумске колекције Покрајинског завода за заштиту природе (PZZP). Наведени подаци укључују 22 врсте, 14 подврста, један варијетет, једну форму, један таксон са неодређеним инфраспецијским статусом [stat. indet.] и једну нотоврсту сврстане у 11 родова (*Leontodon* L., *Lepidium* L., *Leucanthemella* Tzvelev, *Leucanthemum* Mill., *Leucojum* Mill., *Limonium* Mill., *Limosella* L., *Linaria* Mill., *Lindernia* All., *Linum* L. and *Scorzoneroides* Moench). Једна подврста (*Linum capitatum* subsp. *serrulatum*), једна нотоврста (*Linaria* ×*oligotricha*) и 3 таксона на различитим инфраспецијским нивоима су нови за флору Србије.