

THE CHOROLOGY OF *STIPA DASYPHYLLA* IN ROMANIA

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Based on the existing data, in this paper was designed the chorological map of *Stipa dasypylla* (Czern. ex Lindem.) Trautv. for Romania. The paper reports the presence of *S. dasypylla* in three new sites in Romania. The species is newly reported for Moldavia Province (Romania).

Key words: *Stipa dasypylla*, Poaceae, Dobrudja, Moldavia Province, Romania.

INTRODUCTION

The first records of *Stipa dasypylla* (Czern. ex Lindem.) Trautv. (syn.: *S. pennata* L. γ *dasyphylla* Lindem., *S. pulcherrima* K. Koch var. *hirsuta* (Velen.) Hand.-Mazz., *S. villifolia* Simonk., *S. villicaulis* Borb., *S. joannis* Čelak. subsp. *villifolia* Simonk., *S. dasypylla* Trautv. var. *villifolia* (Simonk.) Dom. & Podp.) in Romania was published in 1939, being quoted by Prodan I. from Mehadia under *S. villicaulis* Borb. Since then, the species has been quoted in several other places from Transylvania, Banat, Oltenia and Dobrudja Provinces, being included in *Flora României* and *Flora Europaea* (Morariu 1972; Martinovský 1980; Ciocârlan 2000).

The species is present in *Stipo ucranicae-Festucetum valesiacae* Dihoru (1969) 1970 ass. from Babadag Plateau (Dihoru & Doniță 1970), in *Stipetum pulcherrimae* Soó 1942 and *Danthonio alpinae – Stipetum stenophyllae* Ghișa 1941 ass. from Transylvania (Frink, Pușcaș & Cristea 2005).

MATERIAL AND METHODS

Until recently *Stipa dasypylla* was known only in a few places in Romania (Herculan Spa-Mehadia, Deva, Vălenii de Sus, Radovan, Murfatlar, Babadag, Dadovar Hill, Caugadia Valley, Camena and Atmagea). Recently, the species has been identified and published in two villages in Transylvania (Frink, Pușcaș & Cristea 2005) and one locality in Dobrudja (Oprea 2005).

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The presence of the species in Fântânița Murfatlar Reserve from Constanța county is doubtful as the materials determined by Prodan I. under *S. dasypylla* var. *dobrogensis* Prodan were proved to be *S. ucranica* P. Smirnov, rev. Dihoru G., confirmed by Prokudin J. (Prodan 1939; Borza 1947-1949; Dihoru 1968; Dihoru 1970; Morariu 1972). Also, the presence of the species at Vălenii de Sus, Dolj county, is questionable, the locality being cited by Beldie A. (1979), but missing herbarium materials and it is a toponymic discordance between *Vălenii de Sus* from Dolj county and Vălenii de Sus from Gorj county.

Following the processing of material from the Șerbănescu I. Collection, BUCA Herbarium, some vouchers with *Stipa dasypylla* have been identified. The plant material was collected and determined by Șerbănescu I. from the regions of Moldavia and Dobrudja, Tulcea and Galați Counties. Also, plant materials collected by Șerbănescu I. from Forest Bădeana, Vaslui County, determined under *Stipa ucranica* P. Smirnov, proved to be *S. dasypylla* (rev. Ștefanuț M.).

The chorological map of *Stipa dasypylla* for Romania was designed in GEOCODE system on literature, herbaria, field data and through existent database processing (Fig. 1).

Abbreviations used for the consulted herbaria:

BUCA – Institute of Biology Bucharest Herbarium; CL – Botanical Gardens Cluj-Napoca Herbarium; IAGB – Herbarium of Al.I. Cuza University, Iași, HDHM – Herbarium of Hunedoara County Museum.

! – confirmed by Ștefanuț M.

? – doubtful data.

* – new records.

RESULTS AND DISCUSSION

The distribution of *Stipa dasypylla* in Romania

In Romania *S. dasypylla* was reported for 14 localities. To these records are added three new sites from Moldavia and Dobrudja Provinces. Two localities are considered uncertain such as Murfatlar and Vălenii de Sus.

Caraș-Severin County

! – Herculane Spa, leg. & det. Prodan I., sub *S. villicaulis* Borb., rev. Dihoru G. 1967, conf. Ștefanuț M. 2001 [BUCA 35310];

Mehadia, leg. & det. Prodan I., sub *S. villicaulis* Borb., incl. *S. dasypylla* var. *villicaulis* (Borb.) Borza (Prodan 1939; Borza 1947-1949).

Cluj County

! – Cheia, 11.07.2004, leg. & det. Frink J.P. [CL 656790], Sardău Hill, on southern slopes, near Cheia Village, 20.06.2005, leg. & det. Frink J.P., conf. Ștefănuț M. 2007 [CL 657229, 658817] (Frink, Pușcaș & Cristea 2005);

? – Cheia Turzii, above chalet, on left slope at exit of the canyon, on the left side of the Hășdate rivulet, 14.08.2005, leg. & det. Frink J.P., conf. Ștefănuț M. 2007 [CL 657230] (Frink, Pușcaș & Cristea 2005).

Constanța County

? – Murfatlar (Morariu 1972; Beldie 1979);

Hagieni Forest, 1981, leg. Sârbu I. [IAGB] (Oprea 2005).

Dolj County

Radovan (Cârțu 1970; Popescu & al. 2003);

? – Vălenii de Sus (Beldie 1979:324; Ciocârlan 2000:1062);

**Galați County*

! – *Tudor Vladimirescu, Balăreanca Forest, 28.05.1969, leg. & det. Șerbănescu I., conf. Ștefănuț M. [BUCA 208967, 209049];

Hunedoara County

Deva – Colțu Hill (Borza 1947-1949; Morariu 1972; Beldie 1979); Deva – Colțu Hill (Ciuntu 1983); Deva – Colțu Hill, 9.07.1918, leg. Péterfi M., sub *S. viliifolia* Simk., rev. Frink J.P. 24.11.2005 [CL 79539, 119802]; ! – Deva, leg. Knapp A.I., sub *S. pennata*, rev. Ștefănuț S. 2007, conf. Ștefănuț M. 2007 [CL 11516];

Tulcea County

Babadag, Dadovar Hill, Caugadia Valley, Camena, Atmagea (Dihoru & Doniță 1970; Beldie 1979; Ciocârlan 2000);

? – *Slavelor Forest, 7.06.1966, leg. & det. Șerbănescu I., conf. Ștefănuț M. 2007 [BUCA 208968];

**Vaslui County*

? – *Bădeana Forest, 14.06.1969, leg. & det. Șerbănescu I., sub. *S. ucrainica*, rev. Ștefănuț M. 2007 [BUCA 208969-208971].

CONCLUSIONS

The presence of *Stipa dasypylla* species in Dobrudja has been reassessed as there is no herbarium material to confirm this, and existing materials have been shown to be *S. ucrainica*.

The herbarium materials of *S. dasypylla* from Șerbănescu I. Collection of BUCA Herbarium and from IAGB Herbarium confirm the presence of this species in Dobrudja region and at the same time this is the first record to Moldavia Province, Romania.

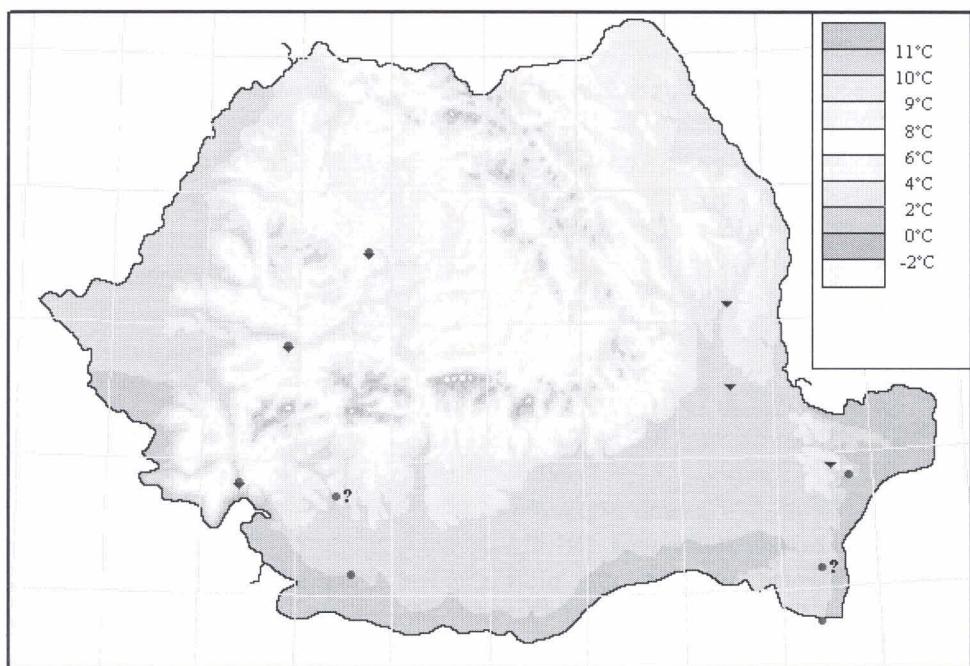


Fig. 1. The distribution of *Stipa dasypylla* in Romania on the mean temperatures map (circle – literature and herbaria data; triangle – confirmed or rev. by Ştefanuţ M.; ? – doubtful data).

REFERENCES

1. A. Beldie, 1979, *Flora României. Determinator ilustrat al plantelor vasculare*. II. Editura Academiei R.S.R., Bucureşti, 406 p.
2. A. Borza, 1947-1949, *Conspectus Florae Romaniae regionumque affinum*, Cluj, 360 p.
3. M. Ciuntu, 1983, Flora dealurilor Zănoaga şi Colţu – Deva, *Sargetia, Acta Musei Devensis, Ser. Scientia Naturae*, **13**, pp. 75-110.
4. D. Cîrțu, 1970, Contribuţii noi la flora Olteniei, *Analele Univ. Craiova, Ser. III, Biologie – Știinţe Agricole*, **2(12)**, pp. 71-76.
5. V. Ciocârlan, 2000, *Flora ilustrată a României. Pteridophyta et Spermatophyta*. Edit. Ceres, Bucureşti, 1138 p.
6. G. Dihoru, 1968, Frecvenţa speciilor ierboase în pajiştile de la Babadag, *Studii şi cercetări de biologie. Seria botanică*, **20**, 2, pp. 95-106.
7. G. Dihoru, 1970, Analiza florei şi vegetaţiei ierboase din Dobrogea, *Comunicări de botanică. A VI-a Conferinţă naţională de Geobotanică (Dobrogea, Delta Dunării, 17-26. VII. 1968)*, pp. 81-84.
8. G. Dihoru and Doniţă N., 1970, *Flora şi vegetaţia Podisului Babadag*, Edit. Academiei, Bucureşti, 438 p.

9. J.P. Frink, M. Pușcaș and V. Cristea, 2005, New sites for *Stipa dasypylla* (Lindem.) Trauv. In Transylvania with emphasis on the species distribution in Romania, *Contribuții Botanice*, **40**, pp. 15-24.
10. J.O. Martinovský, 1980, *Stipa* L. în *Flora Europaea*, **5**, pp. 247-252.
11. I. Morariu, 1972, Genul *Stipa*, In: T. Săvulescu, Editor, *Flora Republicii Socialiste România*, Edit. Academiei Republicii Socialiste România, București, vol. XII, pp. 190-207.
12. A. Oprea, 2005, *Lista critică a plantelor vasculare din România*, Editura Universității „Al. I. Cuza”, Iași, 668 p.
13. G. Popescu, I. Costache, D. Răduțoiu and V. Boruz, 2003, Valea Rea-Radovan, Dolj District, floristic and vegetation point of great scientific importance, *Acta Horti Botanica Bucurestiensis*, **30**, pp. 83-94.
14. I. Prodan, 1939, *Flora pentru determinarea și descrierea plantelor ce cresc în România*, ed. a II-a, vol. I, Cluj, 1278 p.