

New chorological records of vascular plants for Bulgaria

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Abstract. New locations of 17 taxa for the Bulgarian flora are reported. Of these, six taxa are new for Mt. Sredna Gora: *Achillea depressa*, *Astragalus glycyphylloides*, *Dianthus sribrnyi*, *Nardus stricta*, *Ranunculus sartorianus*, and *Rumex patientia* subsp. *recurvatus*. Five species are new for the Valley of Strouma River: *Carduus thracicus*, *Genista carinalis*, *Onosma arenaria*, *Silene densiflora*, and *Stipa tirsia*. Six taxa are new for the flora of the Western Rhodopes: *Malva alcea*, *Queria hispanica*, *Sedum rubens*, *Stachys cretica* subsp. *bulgarica*, *Trachynia distachya*, and *Verbascum niveum* subsp. *pannosiforme*. The distribution of *Hypericum rumeliacum* in the Western Rhodopes is confirmed.

Key words: chorology, Mt. Sredna Gora, Valley of Strouma River, vascular plants, Western Rhodopes.

In 2002 field investigations were carried out with the aim of mapping out herbaceous communities in the regions of Blagoevgrad and Pazardzhik. Consequently, new locations of 17 vascular plant taxa were established. Of these, six are new for the flora of Mt. Sredna Gora, 5 are new for the Valley of Strouma River, and six are new for the Western Rhodopes. The distribution of one species was confirmed.

List of the taxa

Achillea depressa Janka

Mt Sredna Gora (*Western*): to the north of Panagyurishte town, Ravnaka locality, 832 m, with flowers, 30.06.2002, KH-60, 42° 34' 05" N; 24° 15' 24" E, SC (SB & MD), SOM 157907.

Astragalus glycyphylloides DC.

Mt Sredna Gora (*Western*): to the east of Panagyur-ski Kolonii locality, 1052 m, with fruits, 29.06.2002,

KH-60, 42° 35' 15" N; 24° 13' 35" E, SC (SB & MD), SOM 157901.

Carduus thracicus (Velen.) Hayek

Valley of Strouma River (*Southern*): 2 km to the north of Polenitsa village, Chouipetel locality, 467 m, with flowers, 14.06.2002, FM-90, 41° 35' 01" N; 23° 18' 23" E, SC (SB & MD), SOM 157908.

Dianthus sribrnyi Velen.

Mt Sredna Gora (*Western*): 5 km off Panagyurishte town along the road to Panagyur-ski Kolonii locality, 982 m, with flowers, 04.07.2002, KH-60, 42° 34' 27" N; 24° 12' 16" E, SC (SB & MD), SOM 157895.

Genista carinalis Griseb.

Valley of Strouma River (*Southern*): to the north-east of Dzhigourovo village, 430 m, with flowers, 15.06.2002, FM-90, 41° 34' 03" N; 23° 19' 41" E, SC (SB & MD), SOM 157902.

There is a herbarium specimen from the Valley of Strouma River (*Southern*) deposited in SOA 39463

(Kresna town, 25.05.1981, leg. & det. D. Delipavlov & I. Cheshmedzhiev).

***Hypericum rumeliacum* Boiss.**

Rhodopi Mts (*Western*): 2 km off Furgovo village along the road to Vulkosel village, 977 m, with fruits, 08.07.2002, GM-40, 41°33'43" N; 24°00'10" E, SC (SB & MD), SOM 157898.

This species was reported for the Western Rhodopes by Toshev (1901), Urumov (1917), Stranski (1921), but the information was not included by Jordanov & Kozhuharov (1970) and Petrova (1992). It was also collected earlier by D. Jordanov (eastern of Dospatska river, 19.07.1938, SO 51440) and by D. Delipavlov & I. Cheshmedzhiev (Varvara village, 02.06.1980, SOA 42433) but the information was not included in the botanical literature.

***Malva alcea* L.**

Rhodopi Mts (*Western*): Kemerov Bridge, 1190 m, with flowers, 16.08.2001, KG-72, 41°43' N; 24°15' E, SC (RN & PS), SOM 157903.

***Nardus stricta* L.**

Mt Sredna Gora (*Western*): to the north of Panagyurishte town, Ravnaka locality, 832 m, with flowers, 30.06.2002, KH-60, 42°34'05" N; 24°15'24" E, SC (SB & MD), SOM 157909.

***Onosma arenaria* Waldst. & Kit.**

Valley of Strouma River (*Southern*): on the hills between Novo Delchevo and Levounovo villages, 207 m, with flowers, 18.06.2002, FL-99, 41°28'24" N; 23°17'48" E, SC (SB & MD), SOM 157904.

The species was collected from this region earlier (Simitli town, 23.08.1931, leg. & det. A. Yourkovski, SOM 60033) but the information was not included in the botanical literature.

***Queria hispanica* L. (*Minuartia hamata* (Hauskn.) Mattf.)**

Rhodopi Mts (*Western*): 2 km off Furgovo village along the road to Vulkosel village, 977 m, with fruits, 8.07.2002, GM-40, 41°33'43" N; 24°00'10" E, SC (SB & MD), SOM 157896.

***Ranunculus sartorianus* Boiss. & Heldr.**

Mt Sredna Gora (*Western*): to the northeast of Panagyurski Kolonii, Konskata Polyana locality, 1390 m, with flowers, 30.06.2002, KH-60, 42°37'06" N; 24°14'01" E, SC (SB & MD), SOM 157899.

***Rumex patientia* L. subsp. *recurvatus* (Rech.) Rech. fil.**
Mt Sredna Gora (*Western*): to the east of Panagyurski Kolonii locality, 1052 m, with fruits, 29.06.2002, KH-60, 42°35'15" N; 24°13'35" E, SC (SB & MD), SOM 157894.

***Sedum rubens* L.**

Rhodopi Mts (*Western*): above Kriboul village, 926 m, with fruits, 9.07.2002, GM-40, 41°34'04" N; 23°57'12" E, SC (SB & MD), SOM 157900.

***Silene densiflora* d'Urv.**

Valley of Strouma River (*Southern*): on the hills between Novo Delchevo and Levounovo villages, 207 m, with flowers, 18.06.2002, FL-99, 41°28'24" N; 23°17'48" E, SC (SB & MD), SOM 157897.

Urumov (1906) reported this species for the Valley of Strouma River (*Northern*). This information, however, subsequently was not included in the botanical literature (Jordanov & Panov 1966; Petrova 1992).

***Stachys cretica* L. subsp. *bulgarica* Rech. fil.**

Rhodopi Mts (*Western*): 2 km off Furgovo village on the road to Vulkosel village, 977 m, with flowers, 08.07.2002, GM-40, 41°33'43" N; 24°00'10" E, SC (SB & MD), SOM 157905.

***Stipa tirsia* Steven**

Valley of Strouma River (*Southern*): 2 km to the north of Polenitsa village, Chouipetel locality, 467 m, with fruits, 14.06.2002, FM-90, 41°35'01" N; 23°18'23" E, SC (SB & MD), SOM 157910.

***Trachynia distachya* (L.) Link (*Brachypodium distachyon* (L.) P. Beauv.)**

Rhodopi Mts (*Western*): 2 km off Furgovo village on the road to Vulkosel village, 977 m, with fruits, 08.07.2002, GM-40, 41°33'43" N; 24°00'10" E, SC (SB & MD), SOM 157911.

There is a herbarium specimen from Western Rhodopes (Slashten village, 27.05.1959, leg. & det. I. Bondev) deposited in SOM 109626.

***Verbascum niveum* Ten. subsp. *pannosiforme* (Stoj.) Murb.**

Rhodopi Mts (*Western*): 2 km off Furgovo village on the road to Vulkosel village, 977 m, with flowers, 08.07.2002, GM-40, 41°33'43" N; 24°00'10" E, SC (SB & MD), SOM 157906.

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