

New floristic records from Central Europe 2 (reports 2–12)

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Abstract: The 2nd part of the newly established series includes ten new chorological records of vascular plants from Slovakia and one from Hungary. The recorded plants belong to the families Asteraceae (*Ligularia glauca*, *Sonchus palustris*, *Xanthium spinosum*), Lycopodiaceae (*Lycopodium clavatum*), Orchidaceae (*Cephalanthera rubra*, *Epipactis microphylla*, *Ophrys holubiana*), Poaceae (*Tragus racemosus*), Ranunculaceae (*Adonis vernalis*, *Pulsatilla grandis*) and Rosaceae (*Duchesnea indica*). *Tragus racemosus* is reported for the first time from Východoslovenská nížina lowland as well as the first record of *Sonchus palustris* for the flora of the Slanské vrchy Mts. The altitudinal minimum of the endangered species *Ligularia glauca* was recorded in 797 m a.s.l. in Slovakia. A new site of orchids *Ophrys holubiana* was found in the Považský Inovec Mts. as well as new record of *Cephalanthera rubra* in the Slanské vrchy Mts.

Keywords: chorology, vascular plants, Slovakia, Hungary, new reports, Red list species.

The publication includes contributions by M. Dudáš (2-6), V. Fráková & L. Koprivý (7), M. Malovcová-Staníková (8-10) and M. Marcincinová (11-12) arranged alphabetically.

MATEJ DUDÁŠ (reports 2–6)

SK

2. *Duchesnea indica* (Andrews) Focke: Strážovské vrchy Mts., Omšenie, field road between fruit gardens, naturalised on area ca. 1 m², 379 m, 48°54'17.7"N 18°13'56.6"E, 7075c, 2. 9. 2018, M. Dudáš, KO: 34665.

This is the third naturalised occurrence known in the Strážovské vrchy Mts. representing a garden escape or spreading by Common blackbirds. The species was recorded as naturalised in the ornamental gardens in the towns of Trenčianska Teplá and Trenčianske Teplice (ELIÁŠ 2016).

3. *Epipactis microphylla* (Ehrh.) Sw.: Slovenské rudohorie Mts., Brdárka, Malý Radzim hill, along the forest road under Veľká lúka meadow, ca. ten flowering plants, ca. 900 m, 48°46'31.8"N 20°19'51.9"E, 7287b, 16. 6. 2018, M. Dudáš, V. Fráková & L. Koprivý, photo. – Veľký Radzim hill, beech forest, along the yellow tourist path on the southern hillside, 6 flowering plants, ca. 880 m, 48°46'27.5"N 20°20'26.3"E, 7288a, 16. 6. 2018, M. Dudáš, V. Fráková & L. Koprivý, photo (revised by P. Meredá).

HAJDÚK (1960) did not mention this species from Mt. Radzim. Category of threats in Slovakia (ELIÁŠ et al. 2015): LC (least concern).

4. *Sonchus palustris* L.: Slanské vrchy Mts., Nižná Hutka, large *Carex* beds terrain depression on the edge of the field northern from Hill 273, 246 m, 48°39'46.3"N 21°21'59.6"E, 7394a, 30. 6. 2017, M. Dudáš, KO: 34268.

This is the first record for the area of the Slanské vrchy Mts. The species is frequent in wet biotopes (mainly along canals and wet roadsides) in the southern parts of the adjacent phytogeographical district of Košická kotlina Basin in the altitude between 180 – 205 m a.s.l. (VIRÓK et al. 2016; DUDÁŠ *unpublished*). Category of threats in Slovakia (ELIÁŠ et al. 2015): NT (near threatened).

5. *Tragus racemosus* (L.) All.: Východoslovenská nížina Lowland, between the villages of Čerhov and Luhyňa, along the road no. 79, very frequent at the length ca. 500 m in gravel roadsides, 130-140 m, 48°28'40.4"N 21°38'34.5"E, 7595b, 14. 7. 2018, M. Dudáš, KO: 34390.

The species is not known from southeastern Slovakia yet (DOSTÁL & ČERVENKA 1992; MÁRTONFI 2014). This is the first record from Východoslovenská nížina Lowland. Category of threats in Slovakia (ELIÁŠ et al. 2015): NT (near threatened).

HU

6. *Xanthium spinosum* L.: Borsod-Abaúj-Zemplén county, Sárospatak, Labásház, boat harbour, only one plant on sandy bank of the Bodrog river, 101 m, 48°19'05.1"N 21°34'21.1"E, 7695c, 9. 9. 2017, M. Dudáš, KO 33839.

VIERA FRÁKOVÁ & LUKÁŠ KOPRIVÝ (report 7)

SK

7. *Ligularia glauca* (L.) A. Hoffm. (= syn. *Ligularia carpatica* (Schott) Pojark.): Slovenské rudohorie Mts., Brdárka, Malý Radzim Mt., two flowering plants and

two leaf rosettes on the southern hillside under the crest, the edge of beech forest next to the forest road, 797 m a. s. l., 48°46'16"N 20°19'33"E, 7287b, 16. 6. 2018, V. Fráková (photo), L. Koprivý & M. Dudáš.

The species was firstly reported from the southern limestone reefs on the top of Malý Radzim hill at the altitude 940-980 m a.s.l. (HAJDÚK 1957). Its distribution on Mt. Radzim was mentioned also by HAJDÚK (1960). In June 2018 we confirmed numerous vital population there (over hundred plants). The new finding represents the distribution of seeds from a population on the top of the hill into the lower parts. Category of threats in Slovakia (ELIÁŠ et al. 2015): EN (endangered).

MIROSLAVA MALOVCOVÁ-STANÍKOVÁ (reports 8–10)

SK

8. *Adonis vernalis* L.: Považský Inovec Mts., Hlohovec, Krátke Ivarnoky Land area, ca. 180 m north of the road to Tepličky village, 180 m, 48°27'47.2"N, 17°49'23.0"E, 7572b, 14. 4. 2018, M. Malovcová, not.

9. *Ophrys holubiana* András.: Považský Inovec Mts., Hlohovec, Krátke Ivarnoky Land area, ca. 170 m north of the road to Tepličky village, 180 m, 48°27'46.8"N, 17°49'19.3"E, 7572b, 7. 5. 2018, M. Malovcová, photo by B. Varga.

10. *Pulsatilla grandis* Wender.: Považský Inovec Mts., Hlohovec, Krátke Ivarnoky Land area, ca. 180 m north of the road to Tepličky village, 180 m, 48°27'47.1"N, 17°49'24.1"E, 7572b, 14. 4. 2018, M. Malovcová, photo by B. Varga.

MARGARÉTA MARCINČINOVÁ (reports 11–12)

SK

11. *Cephalanthera rubra* (L.) L. C. Richard: Slanské vrchy Mts., Herlianske sedlo pass, Hill 641, only one flowering plant on the northern slope, in *Fagus sylvatica* forest, 642 m, 48°48'55.0"N 21°31'05.2"E, 7195c, June 2018, M. Marcinčinová, observation (revised by M. Dudáš).

Note of editor: This species rarely occurs in the Slanské vrchy Mts. and actual distribution data are missing (cf. DOSTÁL 1981; ZDRAVECKÝ & SITÁŠOVÁ 2003 and others).

12. *Lycopodium clavatum* L.: Slovenské rudohorie Mts., Kojšovská hoľa hill, along the tourist paths on the southern slope under the top, frequent, 1086 m, 48°46'45.8"N 20°58'47.5"E, 7291b, 4. 11. 2018, M. Marcinčinová, photo. – Volovské vrchy Mts., Spišská Nová Ves, Pieskovec hill, *Pinus sylvestris* forest, 546 m, 48°55'10.2"N 20°33'31.8"E, 7089c, May 2016, M. Marcinčinová, photo.

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