

A new locality of *Typha shuttleworthii* in Slovakia

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In the Red Book of Higher Plants in Slovak and Czech Republic published in 1999 (ČEŘOVSKÝ et al., 1999) *Typha shuttleworthii* W. D. J. KOCH et SOND was qualified as a missing species. In Red list of ferns and flowering plants of Slovakia from the year 2001 (FERÁKOVÁ et al., 2001) it is qualified as a critically endangered species. In this article, we are dealing with new data on its occurrence in Slovakia.

General distribution: West Europe, Central and Eastern Europe (Dubina et al., 1993).

Slovakia: East Carpathians: Ublá (DOSTÁL & ČERVENKA, 1983), Western Slovakia: Bratislava, arm Chorvátske rameno (ONDRÁŠEK, 2002). The new localities of occurrence were found in the Poloniny National Park (Eastern Slovakia). The first record is from the vicinity of Runina village (in the year 1999), but at present the locality needs to be confirmed. In 2000, we found other locality – a very vital population above Ruský Potok village. The habitat consists of a wet meadow situated SW above the village. The population comprised 30 mature individuals in the year 2004 (80 individuals in the year 2000), and the area of occupancy is 60 m² large. The locality houses a very rich plant community on fen soil. The population is vital and regularly fertile. A negative phenomenon in the locality is the successio overgrowing by shrubs. Meadows with extensive management (mowing) create the surroundings of the area.

Phytocenological relevé: Slovakia; Bukovské vrchy Mts.; Ruský Potok; 49°02' north lat., 22°24' east long; altitude 498 m; area 25 m²; total cover 95%; E₁ 95%; E₂ 30%; S. UHRIN; 3. 6. 2004

E₁: *Carex flava* 2a, *Carex nigra* 1, *Carex panicea* 2a, *Carex hirta* 1, *Antoxanthum odoratum*, *Scirpus sylvaticus* 2a, *Juncus conglomeratus* 1, *Equisetum palustre* 3, *Typha shuttleworthii* 2b, *Eriophorum latifolium* 2b, *Potentilla erecta* 2b, *Lychnis flos-cuculi* 1, *Dactylorhiza majalis* 1, *Dactylorhiza maculata* 1, *Eriopactis palustris* 2a, *Platanthera chlorantha* r, *Caltha laeta* 2b, *Ranunculus acris* 2b, *Succisa pratensis* 2a, *Lysimachia nemorum* 1, *Lysimachia vulgaris* 2a, *Valeriana dioica* 2a, *Filipendula ulmaria* 1, *Lathyrus pratense* 2a, *Veronica chamaedrys* 2a, *Cru-ciata glabra* 2a, *Cirsium palustre* 1, *Cirsium rivulare* 2a, *Cirsium pannonicum* 1, *Lythrum salicaria* 1, *Epilobium hirsutum* 1, *Mentha longifolium* 2a, *Lycopus europaeus* 1, *Galium palustre* 1, *Knautia dipsacifolia* 1, *Myosotis arvensis* 2a. E₂: *Frangula alnus* 2a, *Alnus incana* 2a, *Salix caprea* 3.

Note: All nomenclature taxa in according to MARHOLD & HINDÁK (1998)

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Fig. 1. A – *Typha shuttleworthii*, B – *T. latifolia*, C – *T. laxmanii*, D – *T. angustifolia*

Table 1. Comparison of morphological characters of the genus *Typha* occurring in Slovakia.

Name	Height (cm)	Width of leaves (mm)	Spikes ratio ♀:♂	Spikes distance (cm)
T. S.	80–160	5–15	2.5:1	0
T. L.	140–300	8–25	1:1	0–3
T. A.	140–250	4–6	1:1	4–8
T. X.	60–130	2–7	1:3	1–6
T. × G.	120–250	6–12	1:1	0–4

T. S. – *Typha shuttleworthii*, T. L. – *Typha latifolia*, T. A. – *Typha angustifolia*, T. X. – *Typha laxmanii*, T. × G. – *Typha × glauca* = *T. latifolia* × *T. angustifolia*.

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