

Hájek M., Hájková P., Goia I., Dítě D. & Plášek V. (2021) Variability and classification of Carpathian calcium-rich fens: breaking the state borders. – Preslia 93: 203–235.

Electronic appendices 6 and 7:

Electronic Appendix 6. – Matching the original Soó’s vegetation-plot records to our final classification scheme (see synoptic table). The original Soó’s vegetation-plot records (Soó 1944, 1949) were not included in the initial classification step because they largely lack bryophytes, are species-poor and tended to create separate clusters. We tested the interpretation of these vegetation-plot records by their matching to the ten final clusters, using the Frequency-Positive Fidelity Index (FPFI; Tichý 2005), Positive Fidelity Index (PFDI; Tichý 2005), Normalised Weirdness (the Associa method, van Tongeren et al. 2008) and supervised k-means with 20 cycles. The percentages indicate the proportion of vegetation-plot records that showed the highest similarity to a cluster. A sum index has been calculated for each association (cluster) as a sum of decimal proportions yielded by individual methods. Abbreviations: *Cfl-Cr*: *Carici flavae-Cratoneuretum filicini*, *V-Cfl*: *Valeriano simplicifoliae-Caricetum flavae*, *Sph-E*: *Sphagno warnstorffii-Eriophoretum latifolii*, *C-Clas*: *Campylio-Caricetum lasiocarpae*, *Dre-L*: *Drepanoclado adunci-Ligularietum sibiricae*.

Soó 1944; 5 vegetation-plot records

	<i>Cfl-Cr</i>	<i>V-Cfl</i>	<i>Sph-E</i>	<i>C-Clas</i>	<i>Dre-L</i>
FPFI (Tichý 2005)	0%	60%	20%	0%	20%
PFDI (Tichý 2005)	0%	60%	20%	0%	20%
normalised weirdness	0%	40%	60%	0%	0%
supervised k-means	40%	0%	60%	0%	0%
sum (index)	0.4	1.6	1.6	0	0.4

Soó 1949, the suspiciously species-poor vegetation-plot records not considered; 13 vegetation-plot records

	<i>Cfl-Cr</i>	<i>V-Cfl</i>	<i>Sph-E</i>	<i>C-Clas</i>	<i>Dre-L</i>
FPFI (Tichý 2005)	7.7%	69.2%	0%	15.4%	7.7%
PFDI (Tichý 2005)	7.7%	69.2%	0%	0%	23.1%
normalised weirdness	46.2%	7.7%	30.8%	0%	15.4%
supervised k-means	100%	0%	0%	0%	0%
sum (index)	1.62	1.46	0.31	0.15	0.46

Electronic Appendix 7: Matching of the nomenclature type of *Carici flavae-Blysmetum compressi* Coldea 1991 to our final classification scheme. The tested vegetation plot record was not included in the numerical classification. We calculated its matching to the ten final clusters, using the Frequency-Positive Fidelity Index (FPFI; Tichý 2005), Positive Fidelity Index (PFDI; Tichý 2005), and normalised weirdness (the Associa method, van Tongeren et al. 2008). The exact values of individual indexes are presented in the table. The results of matching the association's formal definition (Table 2) and supervised k-means with 20 cycles are indicated binary (YES/NO). Only the three most relevant associations are shown; the similarity indexes for other associations were low.

	<i>Carici flavae-Cratoneuretum</i>	<i>Valeriano-Caricetum flavae</i>	<i>Caricetum davallianae</i>
FPFI (Tichý 2005)	15.99	22.63	24.24
PFDI (Tichý 2005)	6.95	17.91	18.16
normalised weirdness	-0.42	-0.48	-0.27
formal definition	NO	YES	NO
supervised k-means	NO	NO	YES