

Prančl J., Koutecký P., Trávníček P., Jarolímová V., Lučanová M., Koutecká E. & Kaplan Z. (2018): Cytotype variation, cryptic diversity and hybridization in *Ranunculus* sect. *Batrachium* revealed by flow cytometry and chromosome numbers. – *Preslia* 90: 195–223.

Electronic Appendix 2. – Niche differentiation: input data (A); results of canonical discriminant analyses demonstrating the most informative parameters (B)

A – Input environmental parameters:

Elev = Elevation (m)

BIO1 = Annual Mean Temperature

BIO2 = Mean Diurnal Range (Mean of monthly (max temp - min temp))

BIO3 = Isothermality (BIO2/BIO7) (* 100)

BIO4 = Temperature Seasonality (standard deviation *100)

BIO5 = Max Temperature of Warmest Month

BIO6 = Min Temperature of Coldest Month

BIO7 = Temperature Annual Range (BIO5-BIO6)

BIO8 = Mean Temperature of Wettest Quarter

BIO9 = Mean Temperature of Driest Quarter

BIO10 = Mean Temperature of Warmest Quarter

BIO11 = Mean Temperature of Coldest Quarter

BIO12 = Annual Precipitation

BIO13 = Precipitation of Wettest Month

BIO14 = Precipitation of Driest Month

BIO15 = Precipitation Seasonality (Coefficient of Variation)

BIO16 = Precipitation of Wettest Quarter

BIO17 = Precipitation of Driest Quarter

BIO18 = Precipitation of Warmest Quarter

BIO19 = Precipitation of Coldest Quarter

B – Contributions of individual environmental parameters to the canonical axis in the canonical discriminant analyses for taxa couples *R. aquatilis* – *R. peltatus* and *R. trichophyllus* A – *R. trichophyllus* B; characters with the highest absolute loadings are presented in bold. Variable ‘BIO7’, a simple linear combination of ‘BIO5’ and ‘BIO6’, was excluded prior the analysis.

R. aquatilis + *R. peltatus*:

| Variable | Loadings on CCA axis |
|--------------|----------------------|
| Elev | -0.5589 |
| BIO1 | 0.6032 |
| BIO2 | 0.3210 |
| BIO3 | -0.2063 |
| BIO4 | 0.5587 |
| BIO5 | 0.6546 |
| BIO6 | -0.0290 |
| BIO8 | 0.4558 |
| BIO9 | -0.0835 |
| BIO10 | 0.6827 |
| BIO11 | 0.1499 |
| BIO12 | -0.4261 |
| BIO13 | -0.3264 |
| BIO14 | -0.4533 |
| BIO15 | 0.4146 |
| BIO16 | -0.3431 |
| BIO17 | -0.4676 |
| BIO18 | -0.2815 |
| BIO19 | -0.4245 |

R. trichophyllus – cytotypes A + B:

| Variable | Loadings on CCA axis |
|--------------|----------------------|
| Elev | -0.4814 |
| BIO1 | 0.6840 |
| BIO2 | 0.3559 |
| BIO3 | 0.1856 |
| BIO4 | 0.2618 |
| BIO5 | 0.6339 |
| BIO6 | 0.5076 |
| BIO8 | 0.3161 |
| BIO9 | 0.4166 |
| BIO10 | 0.6532 |
| BIO11 | 0.6861 |
| BIO12 | 0.0979 |
| BIO13 | 0.0379 |
| BIO14 | 0.1301 |
| BIO15 | -0.2362 |
| BIO16 | 0.0333 |
| BIO17 | 0.1118 |
| BIO18 | -0.0099 |
| BIO19 | 0.1169 |