

Carpathian Research Network:

presentation of the consortium & the 3rd interdisciplinary

Symposium Biogeography of the Carpathians

Patrik Mráz

HERBARIUM &
DEPARTMENT OF BOTANY



CHARLES
UNIVERSITY



BIOGEOGRAPHY OF THE CARPATHIANS

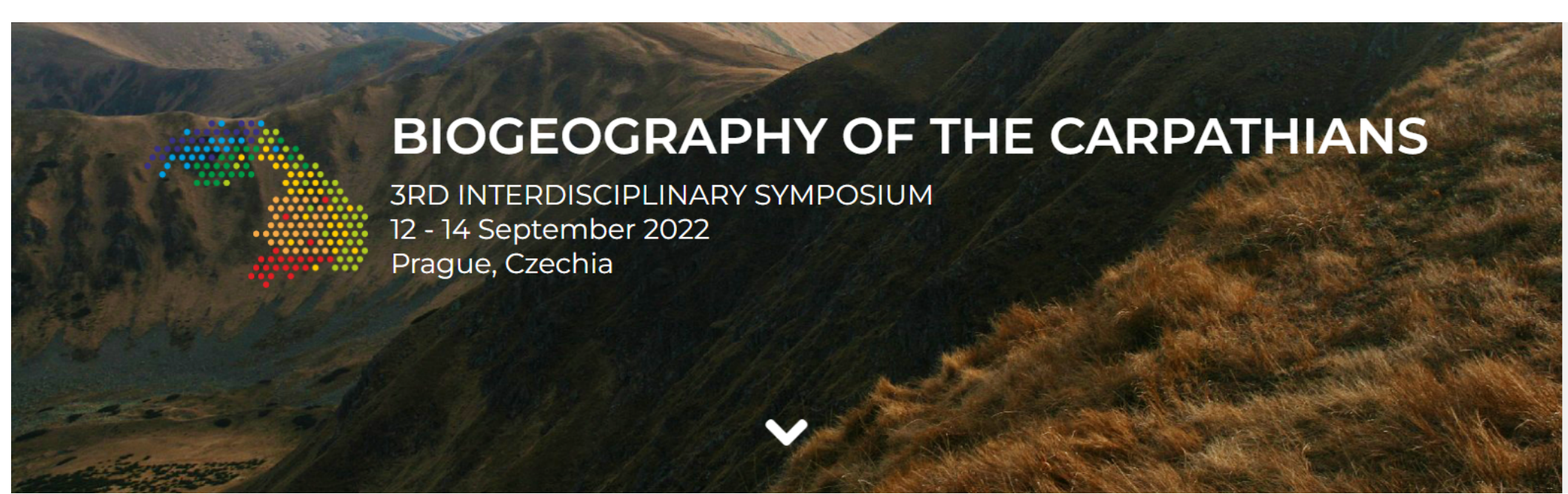
3RD INTERDISCIPLINARY SYMPOSIUM

12 - 14 September 2022

Prague, Czechia



- Evolution, spatial distribution and past climate-induced distributional shifts of the Carpathian biota from infraspecific to ecosystem level
- Carpathians in a larger biogeographical context
- Impact of climate change on ecology & future range shifts of the Carpathian biota
- Biological invasions: spatial patterns & impact on native biodiversity
- Identification, conservation & sustainability of biodiversity hot spots



BIOGEOGRAPHY OF THE CARPATHIANS

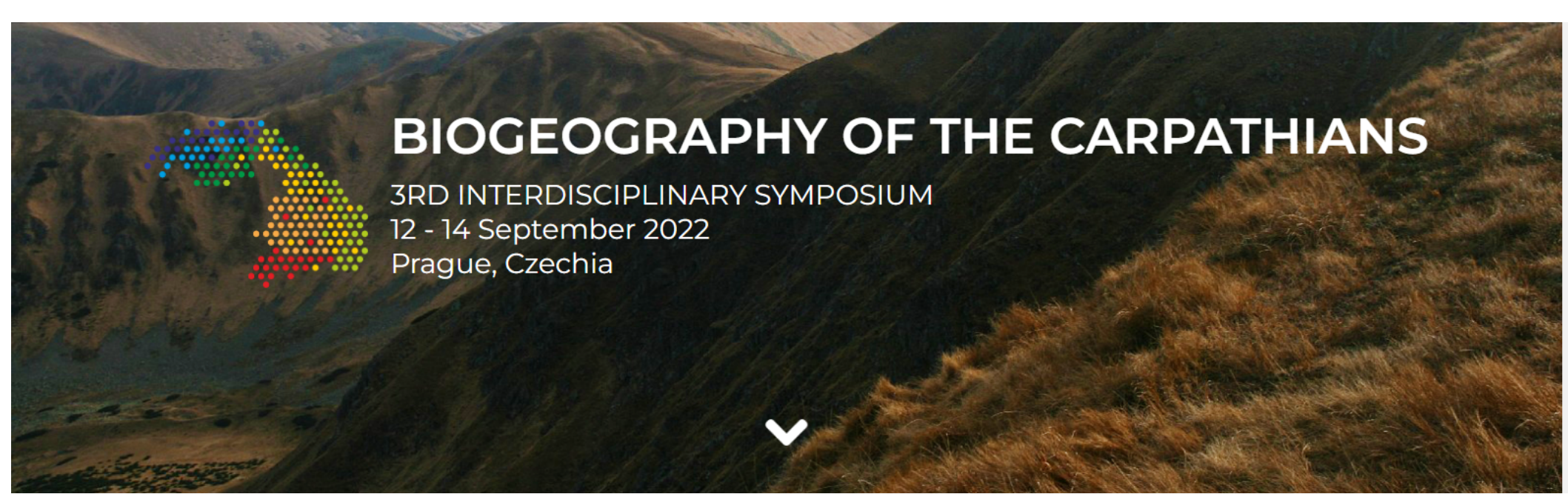
3RD INTERDISCIPLINARY SYMPOSIUM

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- 2 days of talks (~ 25)
- postsymposium excursion
- > 130 participants (cca 8-10 countries)
- 7 invited speakers (Czechia, France, Poland & Slovakia)
- interdisciplinary scientific & organizing committee



BIOGEOGRAPHY OF THE CARPATHIANS

3RD INTERDISCIPLINARY SYMPOSIUM
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- **small grant from Journal of Biogeography:**

several travel grants for students & young researchers
(selection based on *CV*, motivation letter & quality of research presented - abstract): **special attention to scholars from Ukraine**

best contributions submitted to Journal of Biogeography - perspective of a special section within an issue

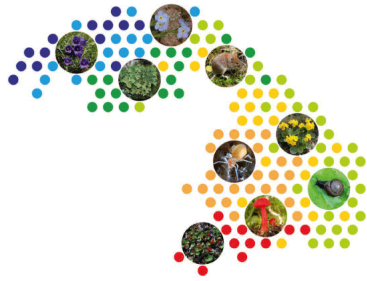
- **support from Nature Conservation Agency of the Czech Republic**

continuation of two Symposia held in Kraków (2013) & Cluj (2017)



Biological Journal of the Linnean Society, 2016, 119, 528–559. With 5 figures.

BIOLOGICAL
Journal of the Linnean Society



NOVEMBER 2016 • VOLUME 119 • NUMBER 3 • ISSN 0024-4066

WILEY
Blackwell

A living forum for biology

REVIEW ARTICLE

Biogeography of the Carpathians: evolutionary and spatial facets of biodiversity

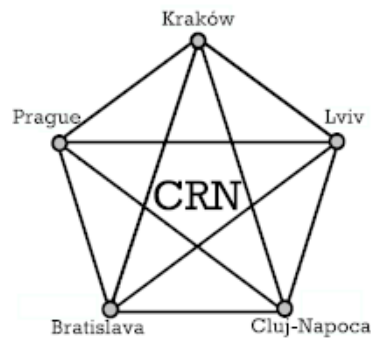
PATRIK MRÁZ^{1†} and MICHAŁ RONIQUIER^{2*†}

Plant Systematics and Evolution (2021) 307:29
<https://doi.org/10.1007/s00606-021-01754-3>

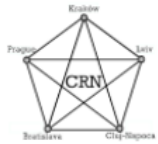
EDITORIAL

Biogeography of the Carpathians: towards a better understanding of biodiversity patterns

Mihai Puşcaş^{1,2} · Michał Ronikier³ · Patrik Mráz⁴ · Bogdan-Iuliu Hurdu⁵



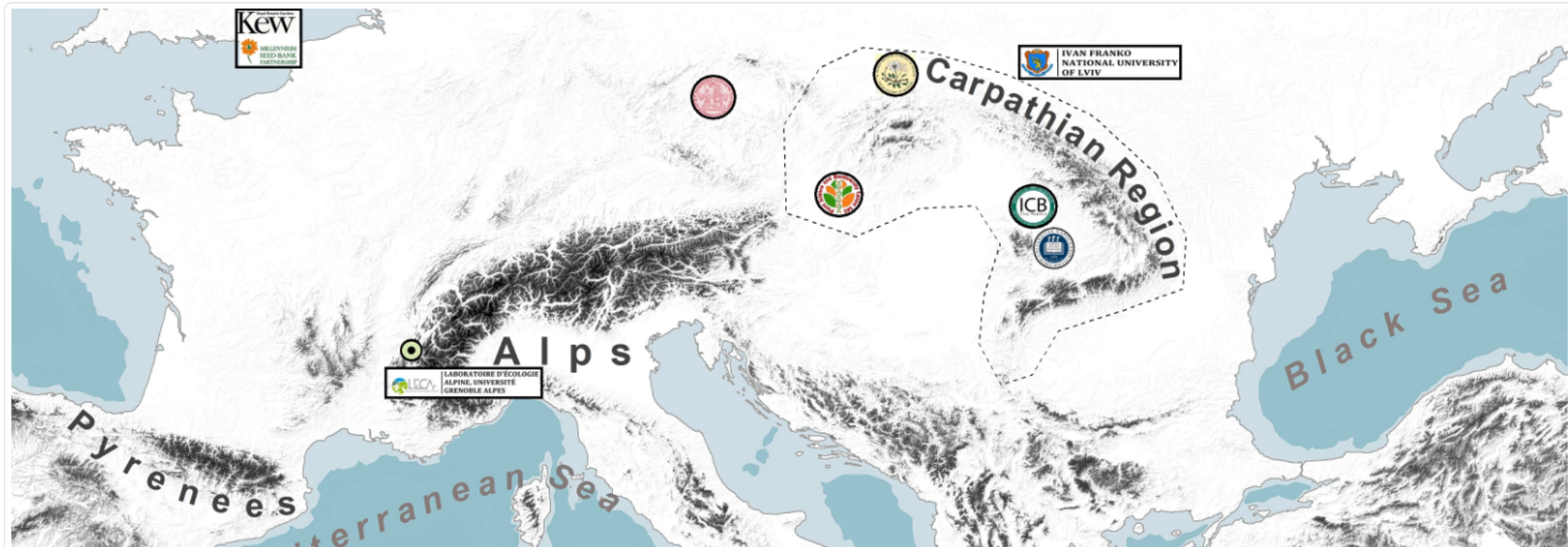
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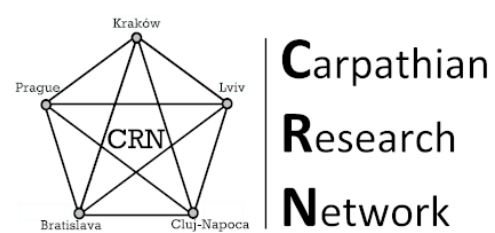
Carpathian
Research
Network

[Home](#) [Funding](#) [The consortium](#) [Carpathian endemics](#) [Orographic units](#) [Interactive map](#)

- The Consortium -



<https://www.carpathian-research-network.eu/consortium>

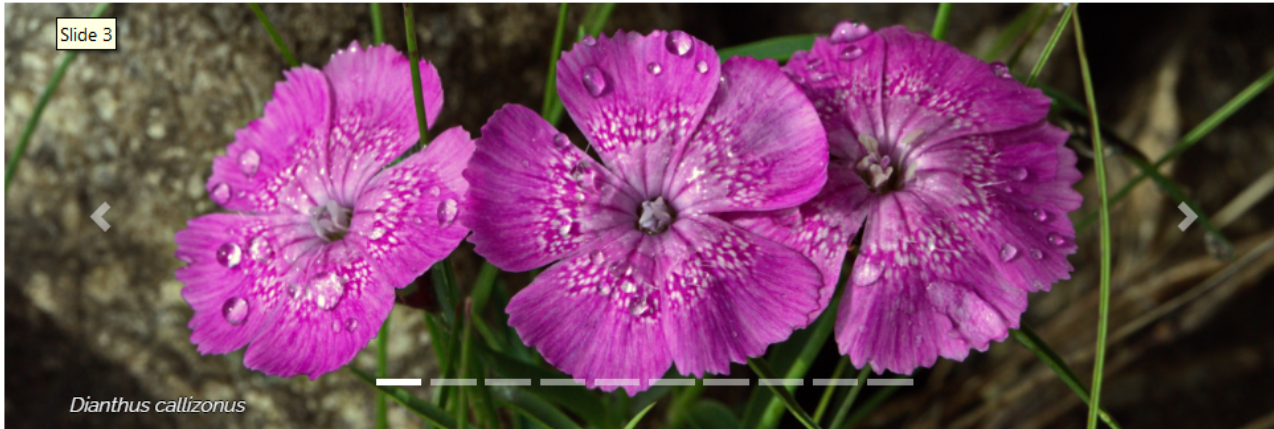
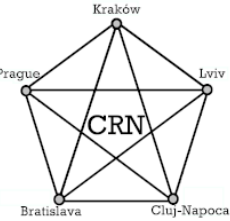


2020-2021:

“Conserving the endemic flora of the Carpathian Region”

- 1. Long-term seed conservation of the Carpathian flora (MSB, RBG Kew)**
- 2. Biosystematic studies of selected groups of Carpathians endemic taxa (*Daphne*, *Draba*, *Silene*, *Soldanella*)**
- 3. Distribution & diversity of Carpathians endemics (vascular plants)**

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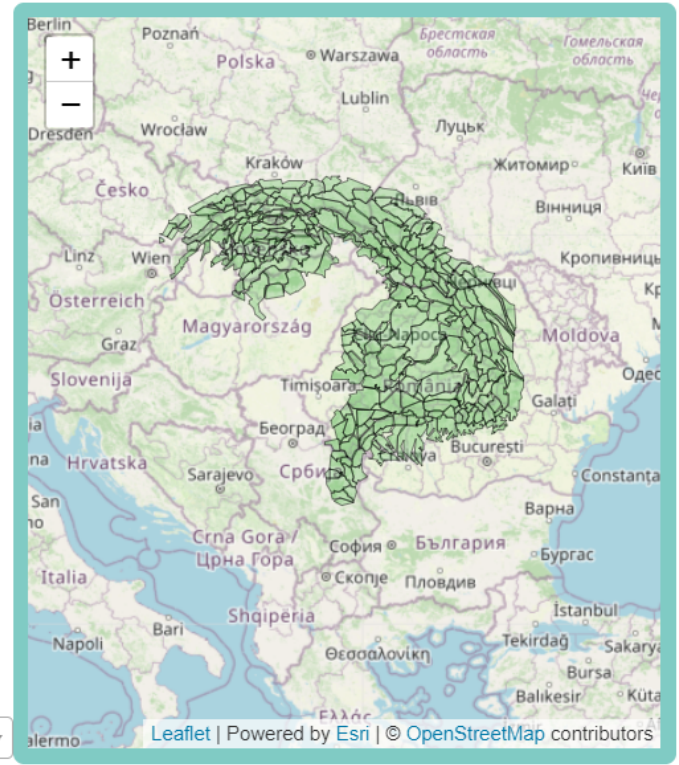


Search for a species

Achillea oxyloba subsp. schurii (Sch. Bip.) Heimerl OK

Search for an Orographic unit

Almaj Depression OK



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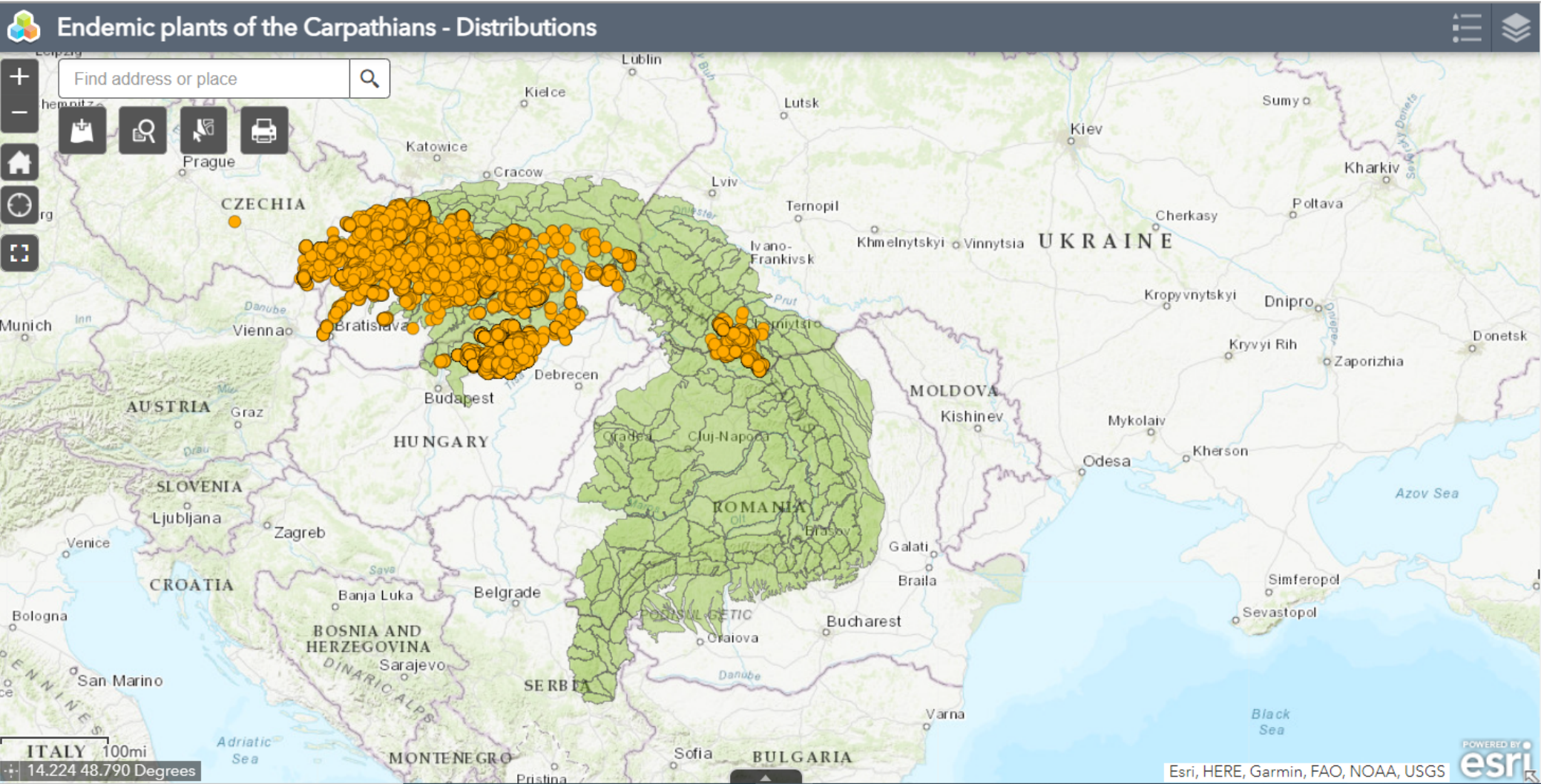
**critically revised occurrences (databases,
literature and herbarium records)**

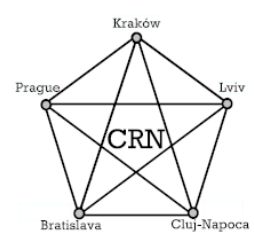
CZ: 5,000

HU: 25,000

SK: 35,000

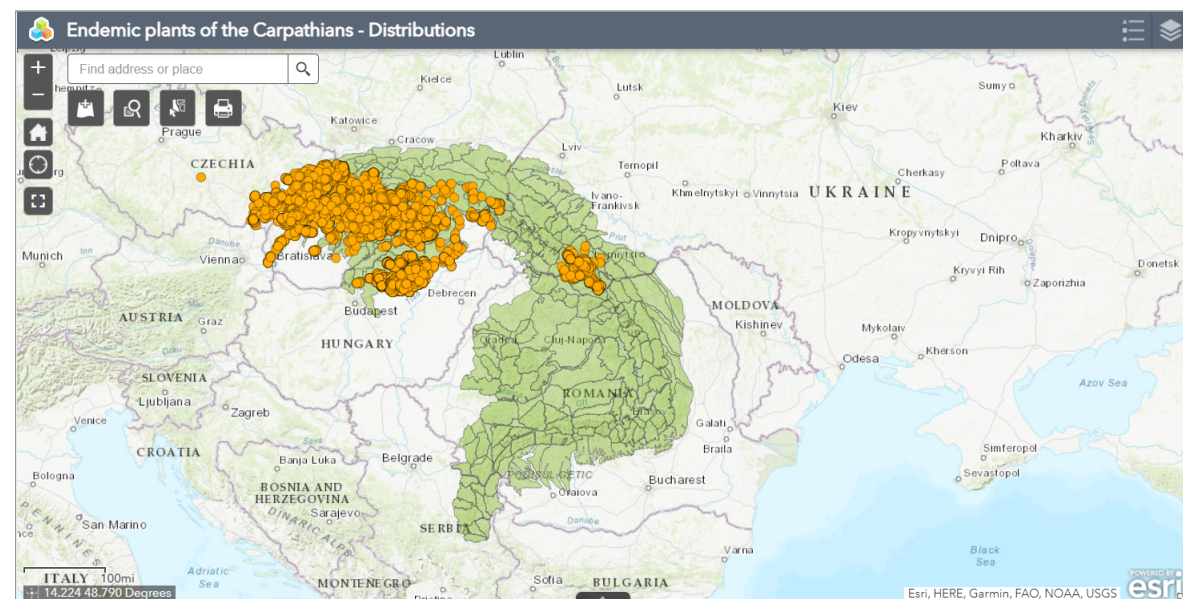
UA: 2,500

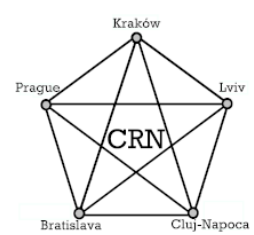




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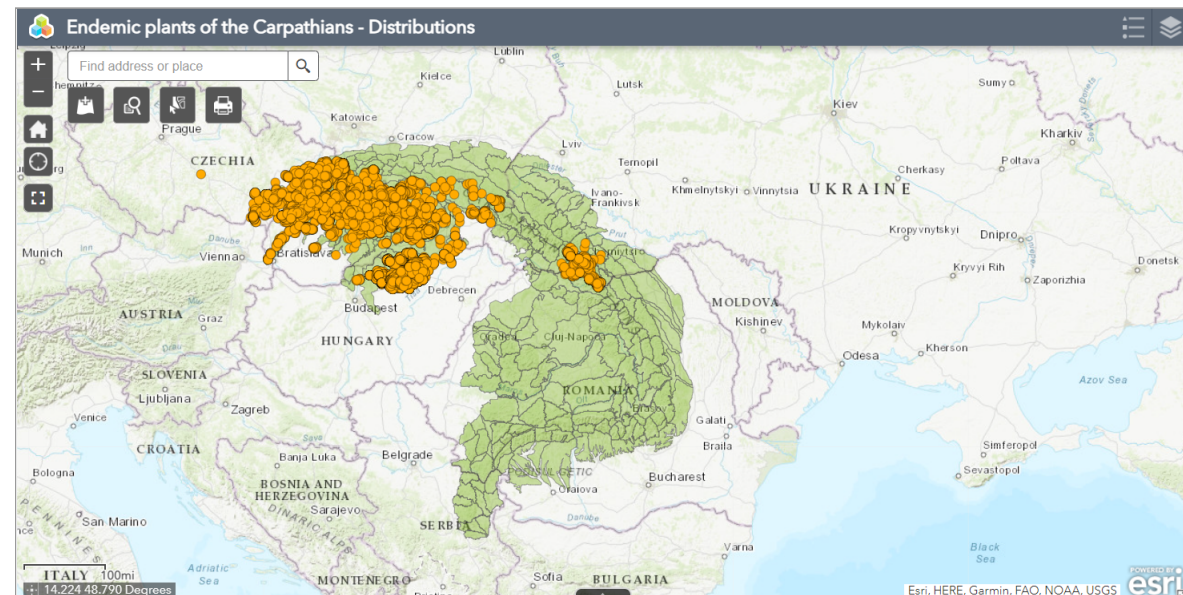
- **critical evaluation of distribution of endemic taxa**
- **model past & future ranges**
- **underlying factors of endemism**
- **protected areas *versus* endemics' ranges overlaps**

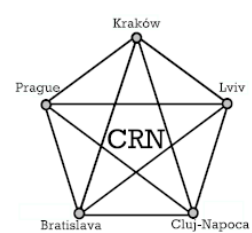




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- **type information, nomenclature & synonymy, vernacular names**
- **ploidy, phylogenetic relationships, functional traits**
- **ecology & phytocenology**
- **illustrations / photos**





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**CRN as a partner of the Biodiversity WG of the Carpathian
Convention?**

Thank you !

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