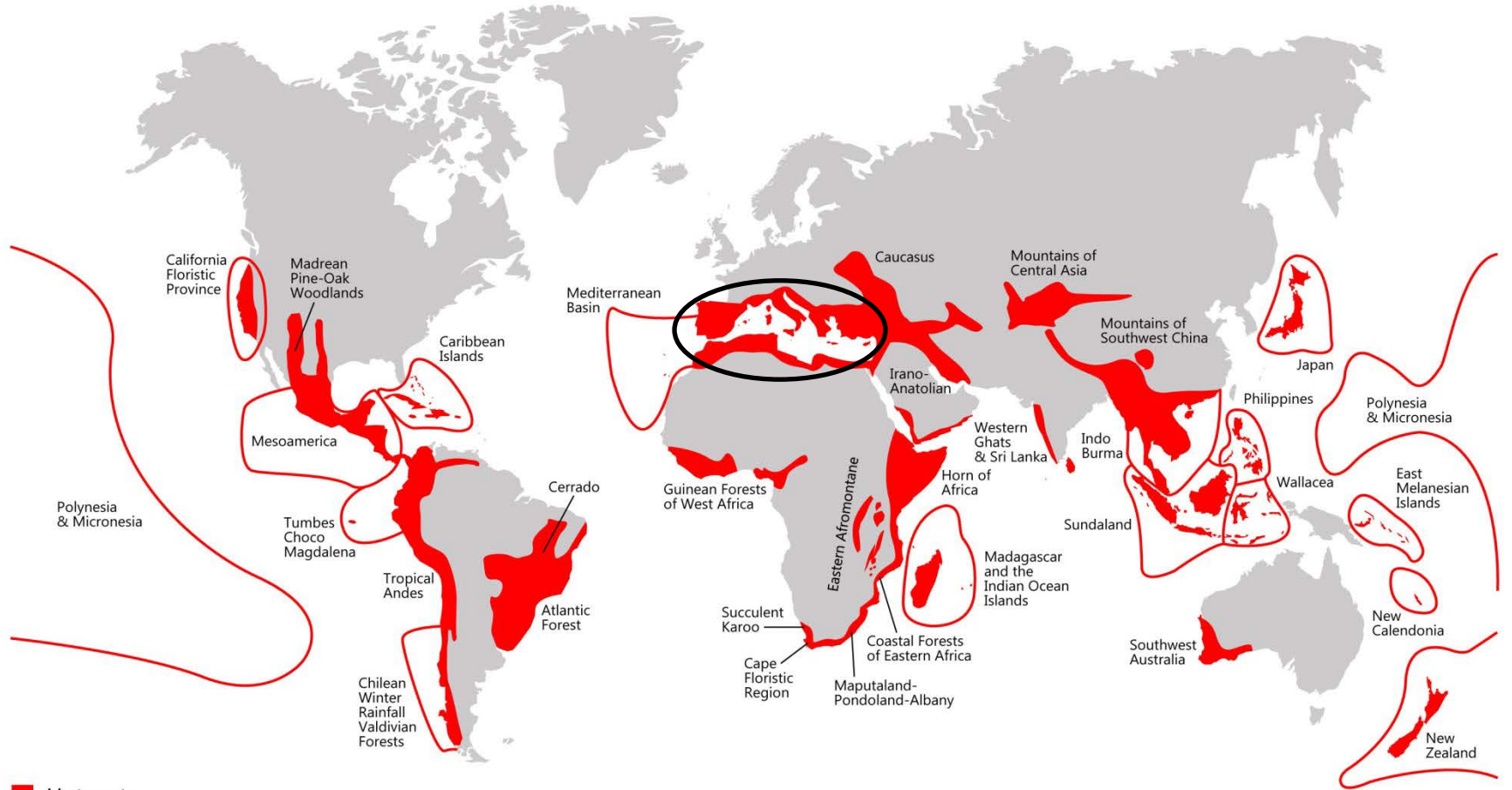


Prvi znanstveni simpozij o biologiji slatkih voda
20. veljače 2015., Zagreb

Određivanje vrućih točaka raznolikosti i endemizma nastalih pod utjecajem geološke i hidrološke prošlosti na primjeru porodice Empididae (Diptera)

Dr. sc. Marija Ivković



■ Hotspots

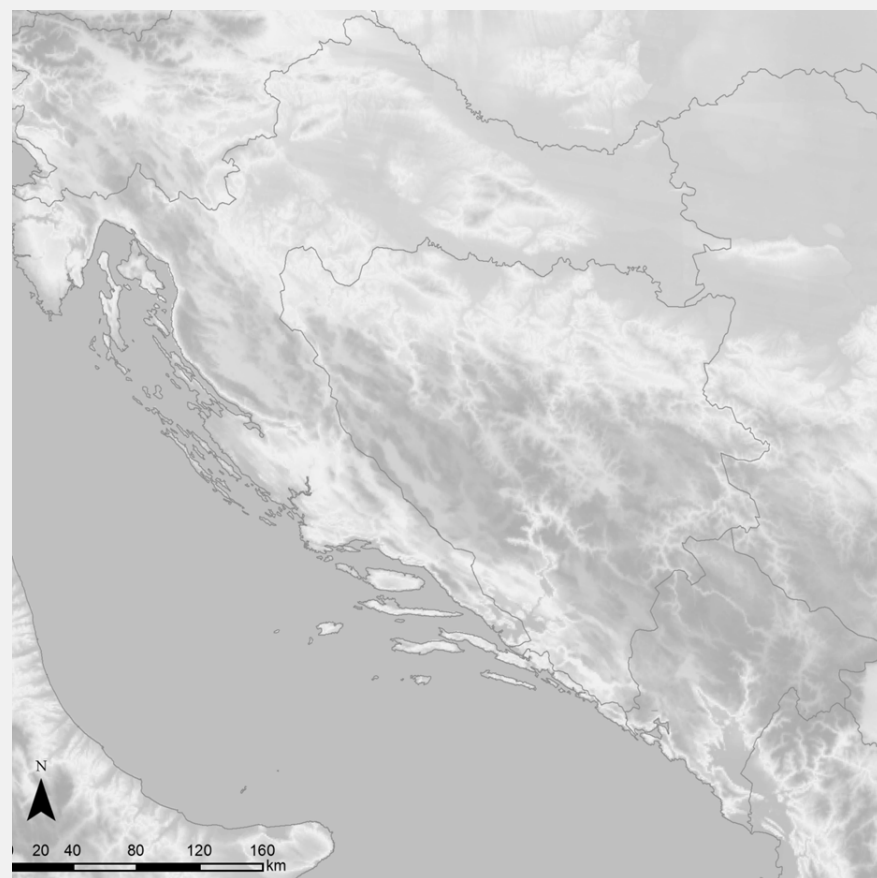
February 2005





- Raznolikost podzemne i slatkovodne faune
- Velika raznolikost slatkovodnih kukaca
- Važan glacijalni refugij

- Zapadni Balkan (Dinaridi) veća genetska raznolikost (refugij unutar refugija)
- Najveći kontinuirani krški krajolik
- Komplicirana hidrološka mreža



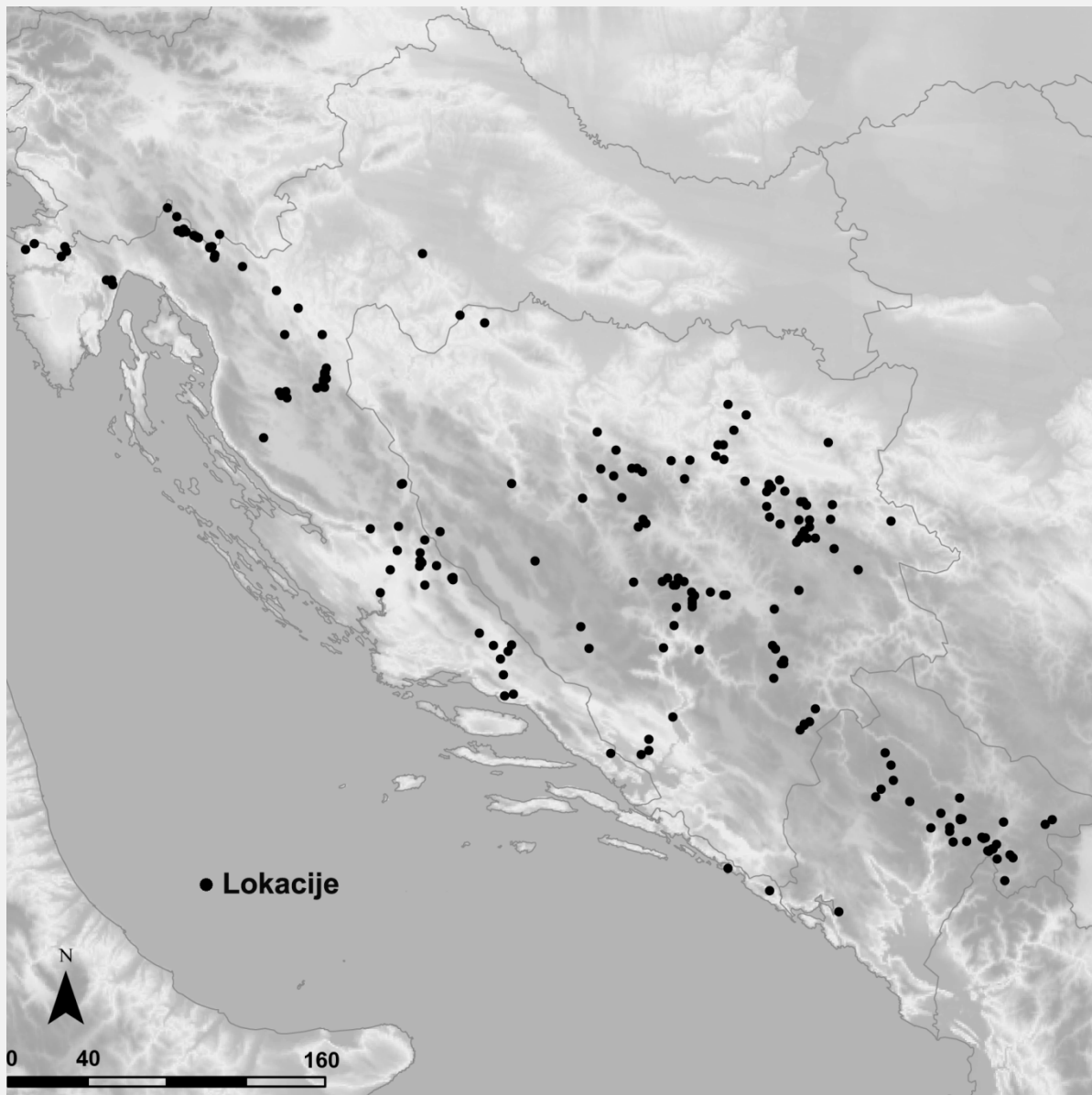


Empididae: Clinocerinae

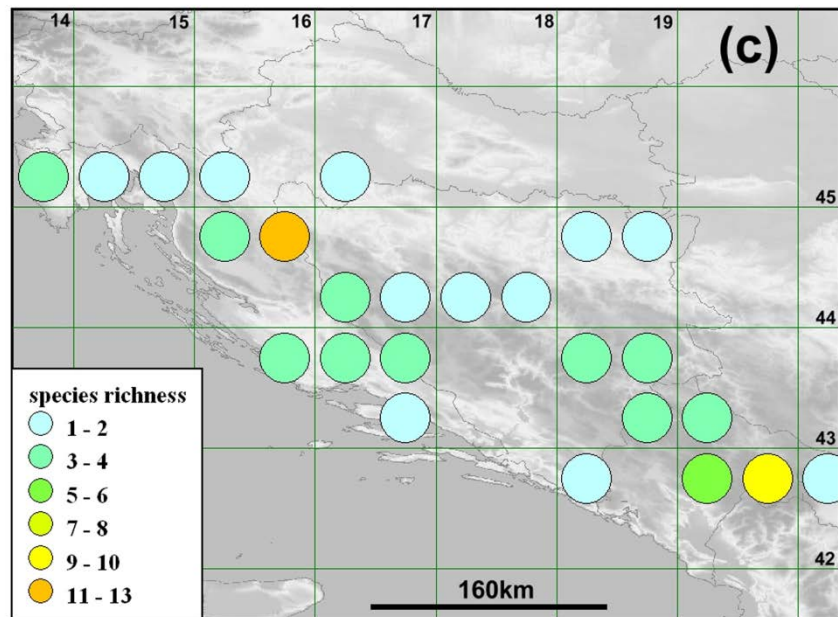
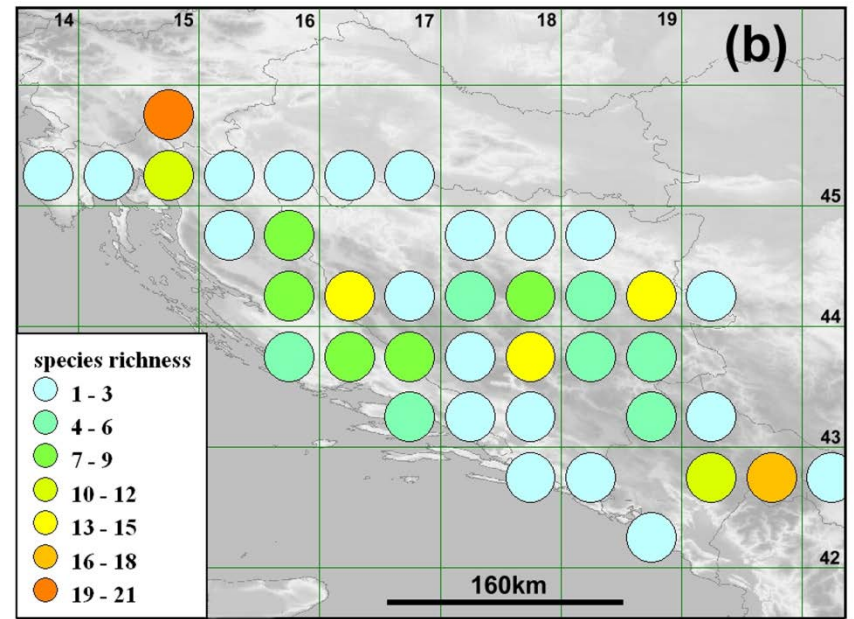
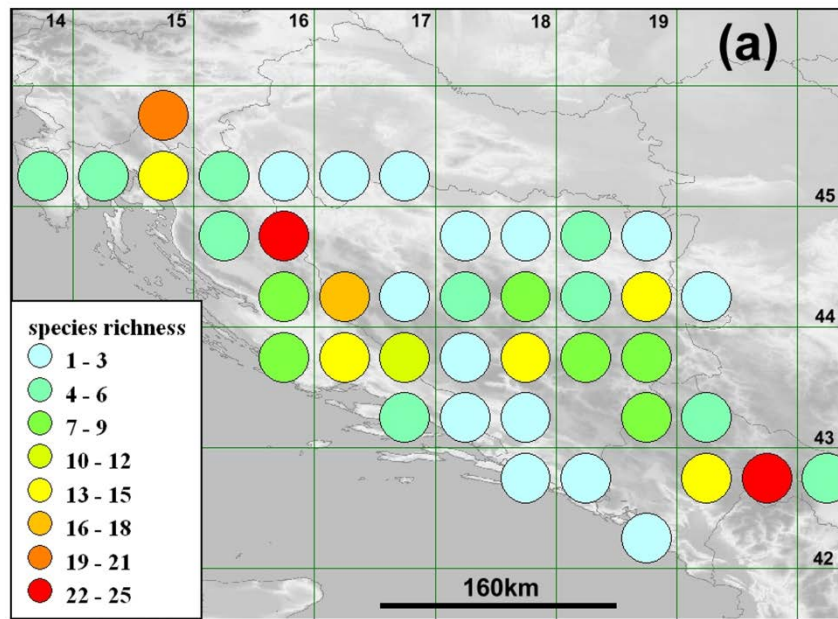


Empididae: Hemerodromiinae





- Literaturni i neobjavljeni podaci
- Clinocerinae: 49 vrsta
- Hemerodromiinae: 15 vrsta
- 206 lokacija analiziranih na skali 0,5°
- Izračunata je ponderirana recipročna vrijednost endemizma (reciprocal weighted endemism)
- Analiza endemizma metodom parsimonije (Parasimony analysis of endemism)



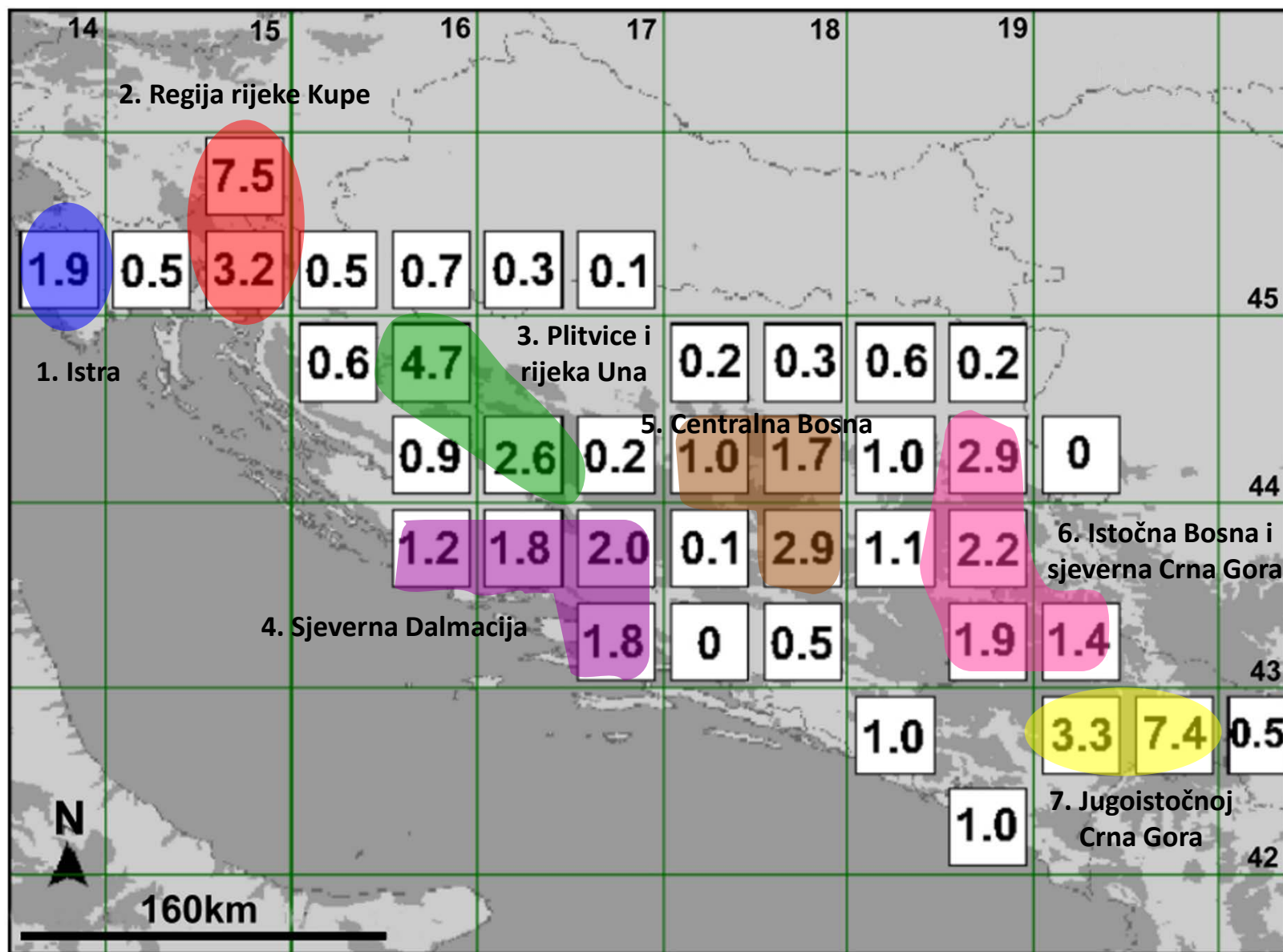
Bogatstvo vrsta:

a) Clinocerinae i Hemerodrominae

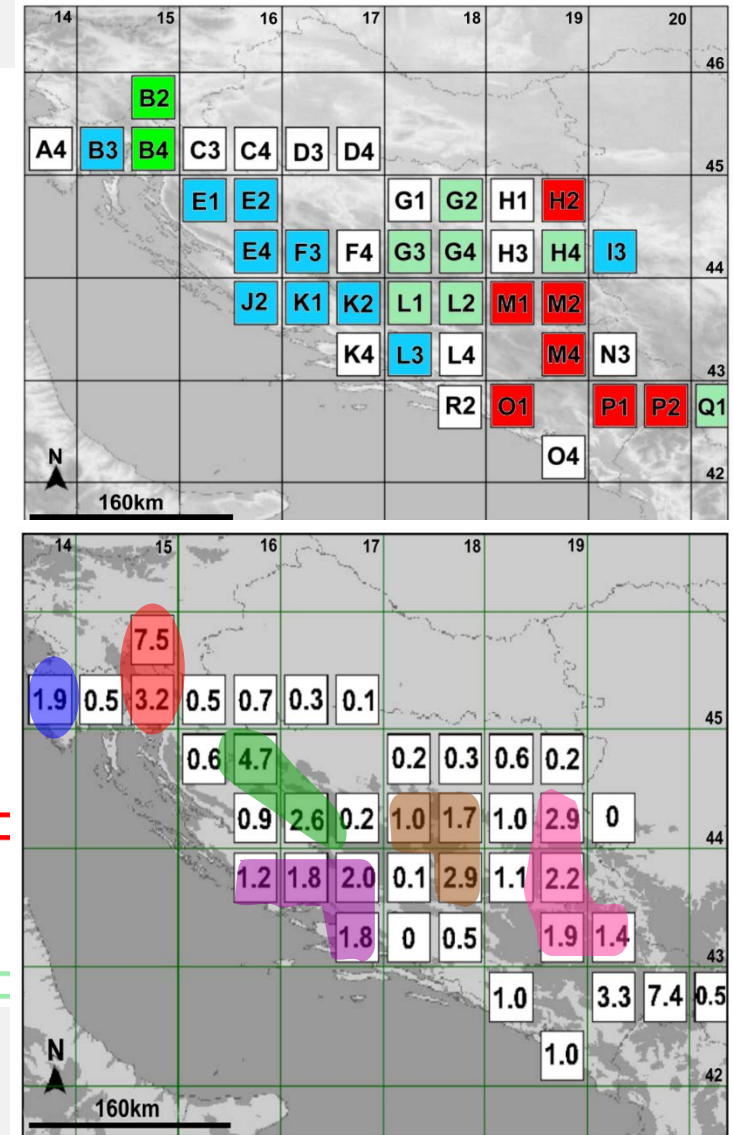
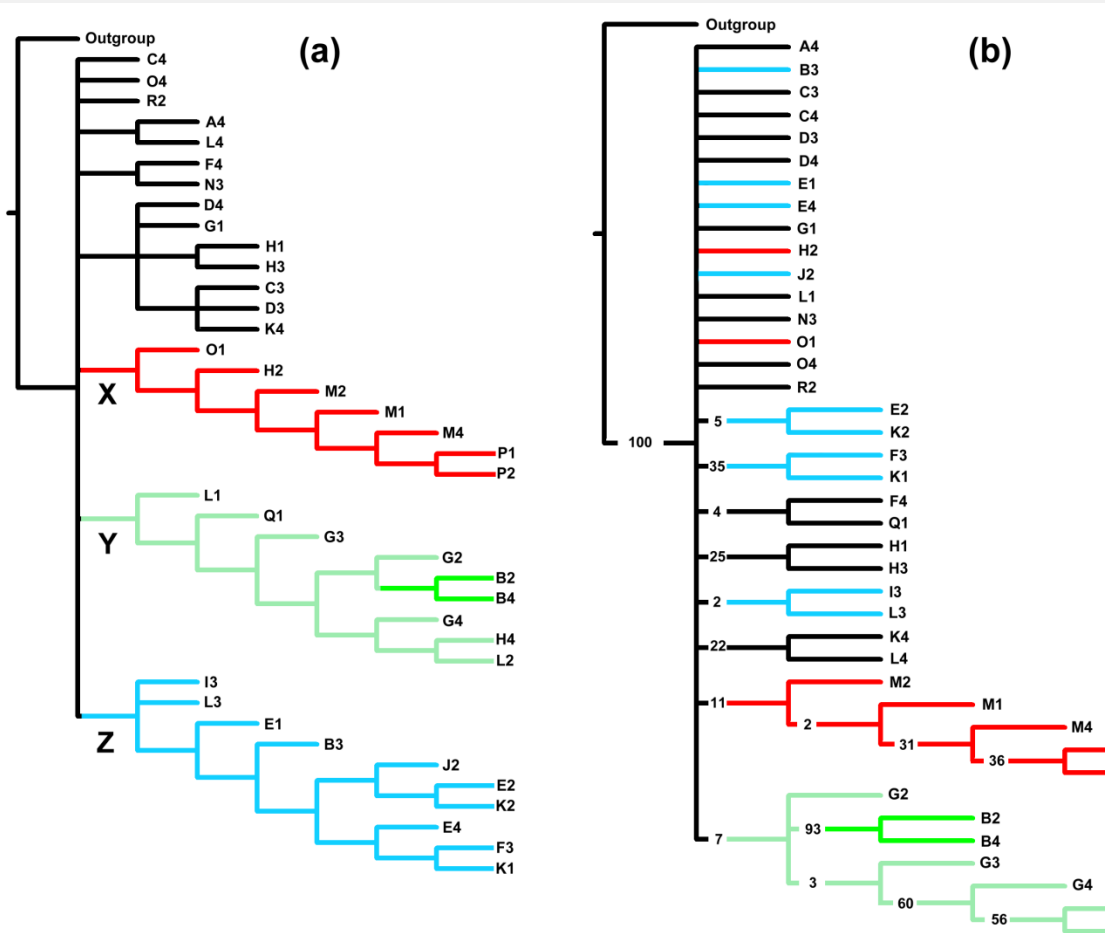
b) Clinocerinae

c) Hemerodromiinae

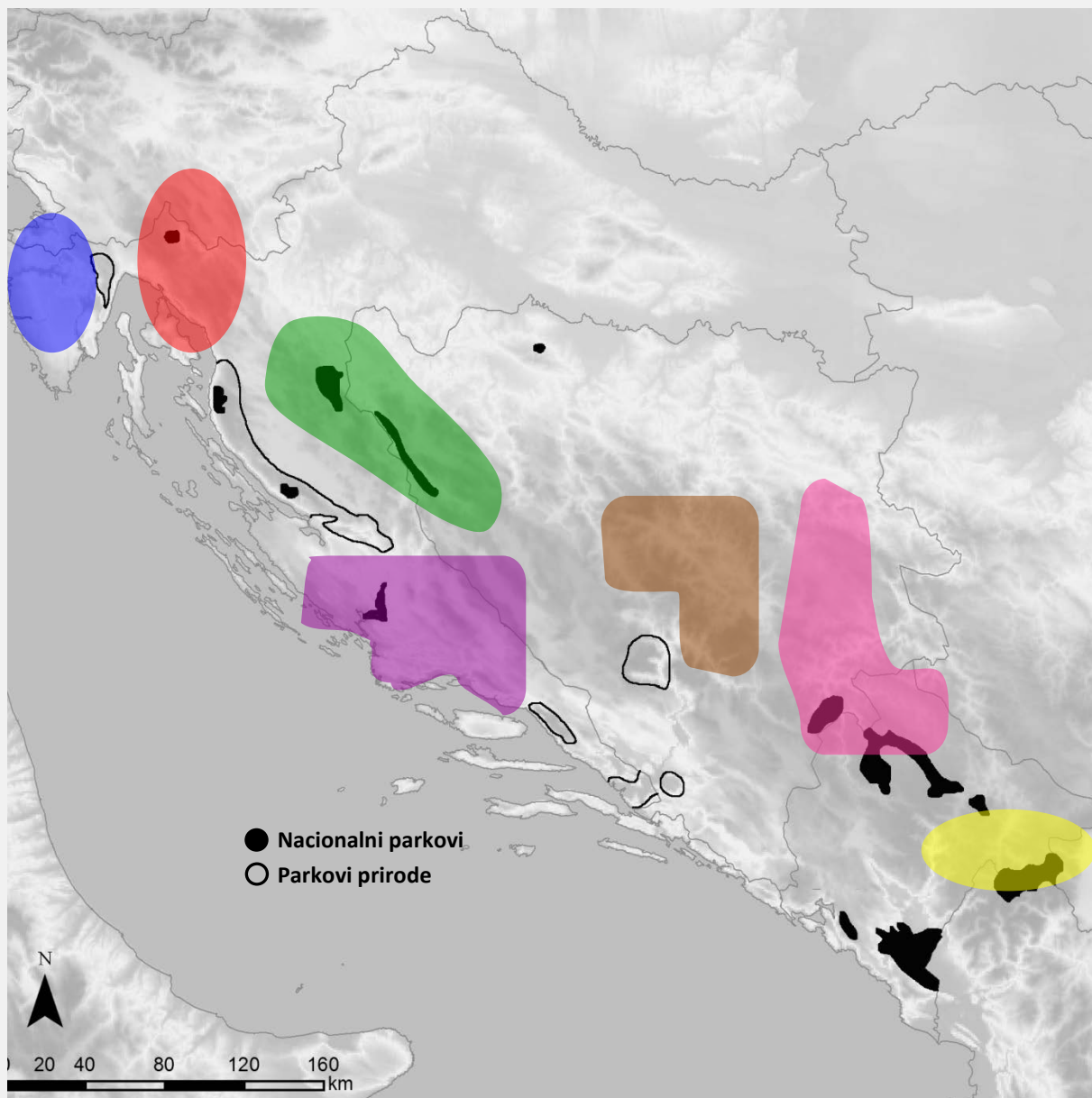
Ponderirana recipročna vrijednost endemizma (reciprocal weighted endemism)



Analiza endemizma metodom parsimonije (Parasimony analysis of endemism)



Povišena endemičnosti vs. Zaštićena područja



Hvala na pozornosti



Dr. sc. Adrian Plant



Dr. sc. Marija Ivković