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Jožef Stefan International Postgraduate School
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19 and 20 April

Trace elements in riparian soils in several localities in Slovenia

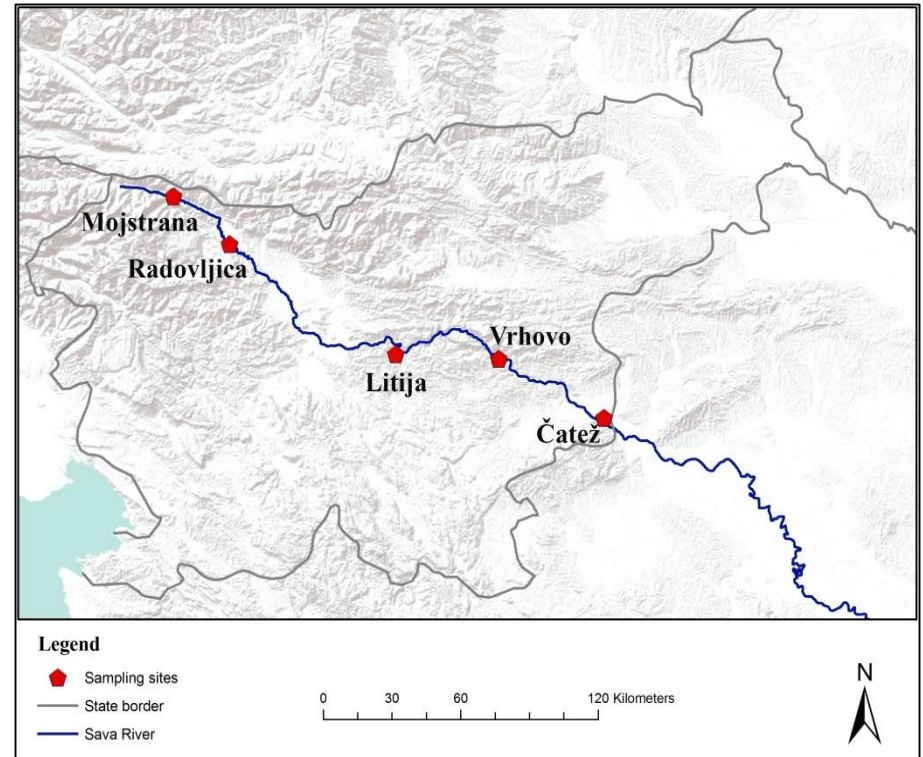
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Poster number: 05

- Riparian zone is area between land and aquatic system.
- Riparian soils are under intense pressure from various anthropogenic sources.
- Trace elements are most common source of pollution.
- We measured bioavailability of Cd, Cr, Cu, Ni and Zn, in order to determinate extent of pollution in the riparian zone of the Sava River.



- About 200 km of the Sava River stretch, through Slovenia
- 5 sampling sites (Mojstrana, Radovljica, Vrhovo, Litija, Čatež)
- Topsoil layers 0-30 cm depth



Mojstrana



Radovljica



Litija

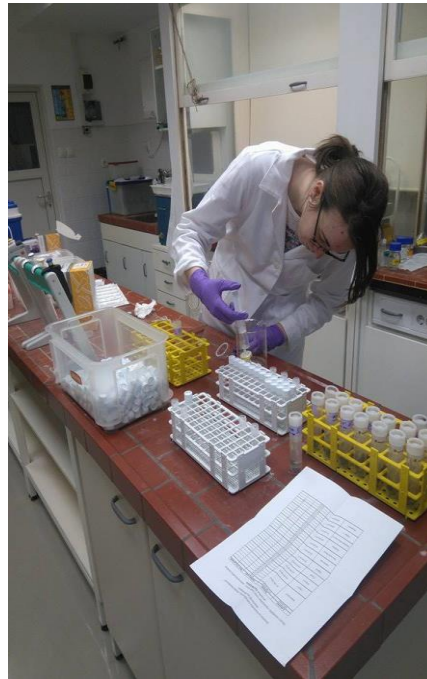


Vrhovo



Čatež

- Determination of total content for Cd, Cr, Cu, Ni and Zn
- Determination of bioavailable metal concentrations (BCR sequential extraction procedure)
- Ecological risk assessment code (RAC)



- Cr, Cu and Ni come under no risk category.
- Zn is under low risk category.
- Cd comes under high risk category.

- The data of the present study can show us patterns of pollution of the Sava River riparian zone.
- Basis for the further research.

