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Extended Abstracts

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Groundwater and dependent ecosystems

2.1

Global climate change and water budget

title: **Land use vs. climate change**

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There is an evidence for changes in the hydrological cycle that may be linked to changes in climate. And there is relation between land use and climate change. The long term changes in precipitation and temperature can cause the changes in land use. Land use activities exert pressure on water resources. The past and existing land use has impact on water resource quality and quantity. Regional development leads to conflicts between competing sectors and demands for safe water resources.

In the paper two different test sites will be describe and analyse:

- Ljubljana field, gravel aquifer that is the drinking water source and where urban land use prevail and
- Prekmurje Field, gravel aquifer where water supply and irrigation competed and where the agricultural land use prevail.

We'll try to find out the impact of climate change on water resources dependent system vs. changing land use and how to manage the system and what adaptations to climate change are implemented.



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