



Water management and biodiversity

Where is the fauna?

Biodiversity

- Most of the attention is focused on biodiversity conservation
 - High focus in flora (land cover)
 - When the focus is in fauna -> aquatic and living in groundwater fauna (stygofauna)
 - **Much less focus in subterranean fauna (trogofauna) & soil-dwelling and burrowing species.**

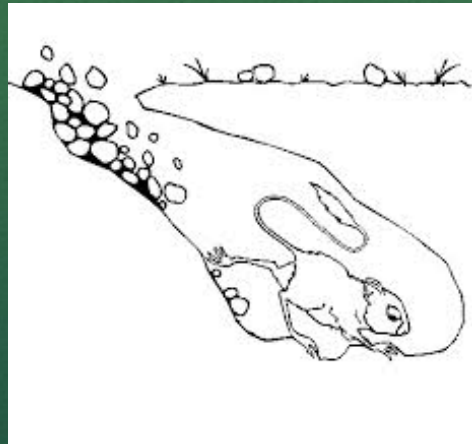


Biodiversity

- Why to preserve biodiversity? Indicator of the Ecosystem health?
- i.e. Stygofauna have important ecosystem service functions, such as the maintenance of water quality in groundwater aquifers
- What about the soil fauna?

Soil fauna

- Soil fauna is important for water dynamics-soil permeability



- As important is its diversity as its density

Questions

- What is the relevance of these species in hydrology?
i.e. What would be the impact of a decrease of diversity/density of this species in the groundwater?
- Is it feasible to include it in hydrological models?
- Challenges?
- Tucson Basin Case Study?