Landform-based approach

Classify geomorphological landforms
- Orthoimage
- DEM

Characterize each landform aquifer (flowpath length, slope, porosity, \( K_s \))
- ERT
- Groundwater wells
- EC in landforms
- Literature review

Calculate water inputs (rain, snowmelt, ice melt)
- Rainfall
- SWE
- River discharge

Model storage in each landform using a simple recession-based model
- River EC

Field observations

Compare storages and recession time scales; Compare model results with field data

Catchment-scale approach

Define recession analysis theory based on
\[ S = eQ^c \]

Identify baseflow recession periods from 2006 to 2017

Calculate slope coefficient \( c \) based on relationship between \( \frac{dQ}{dt} \) and \( Q \)

Calculate recession coefficient \( e \) and catchment-scale baseflow storage \( S_0 = eQ_0^c \) for each year since 2006

Sect. 3.4
Sect. 3.1 & 3.5
Sect. 3.2
Sect. 3.2
Sect. 3.2
Sect. 3.3 & 3.5
Sect. 3.2
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