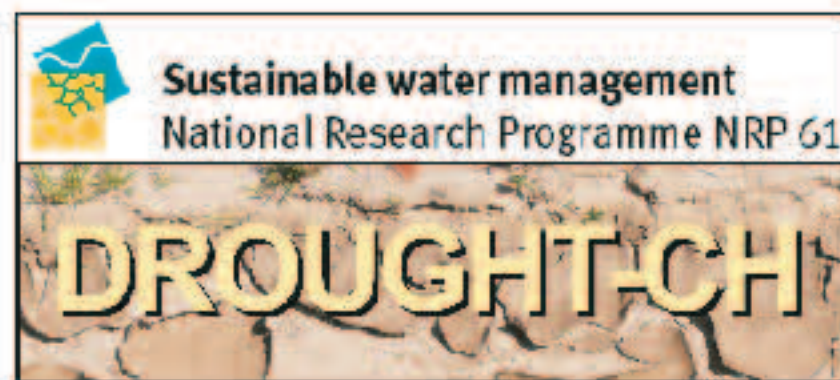
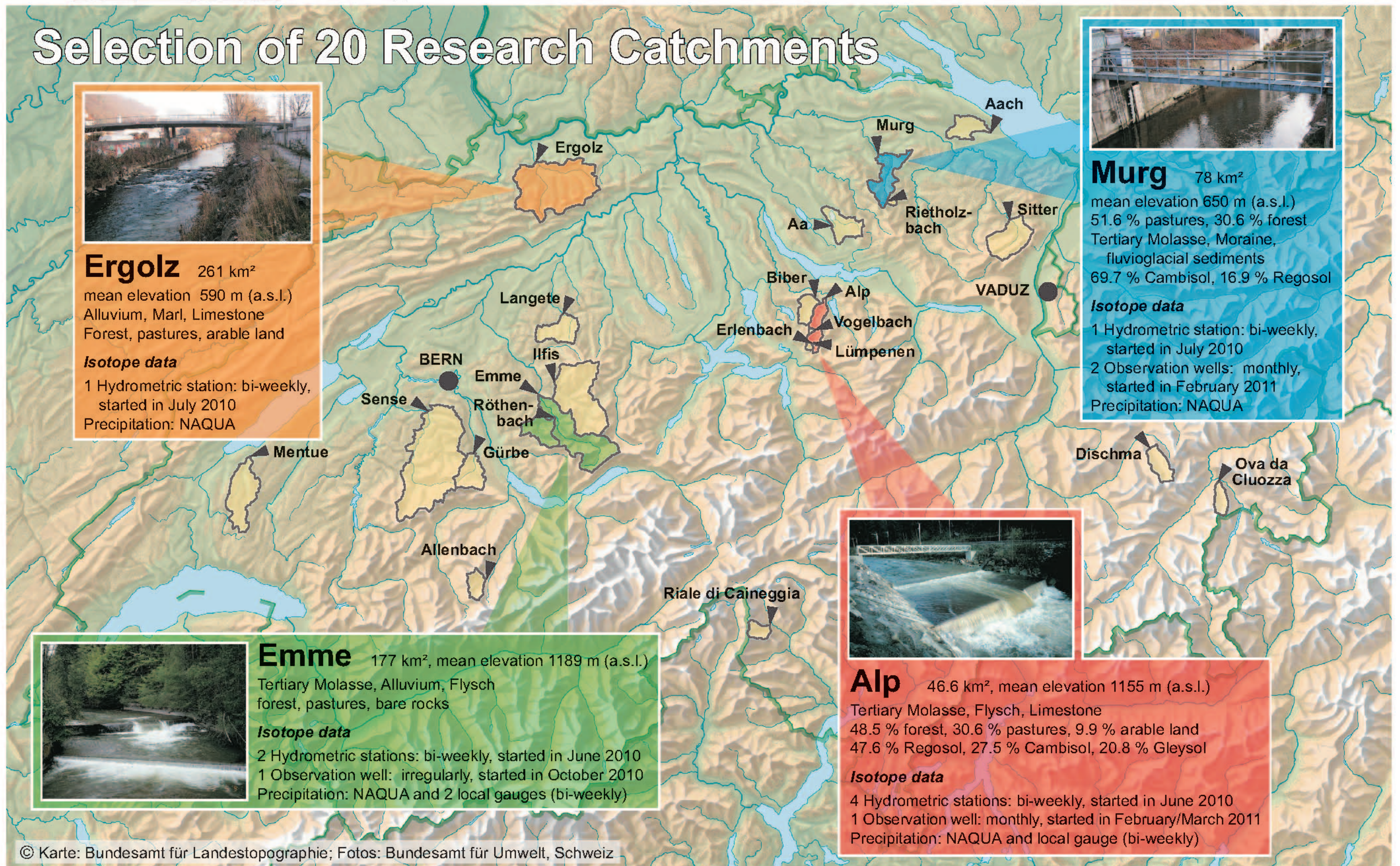




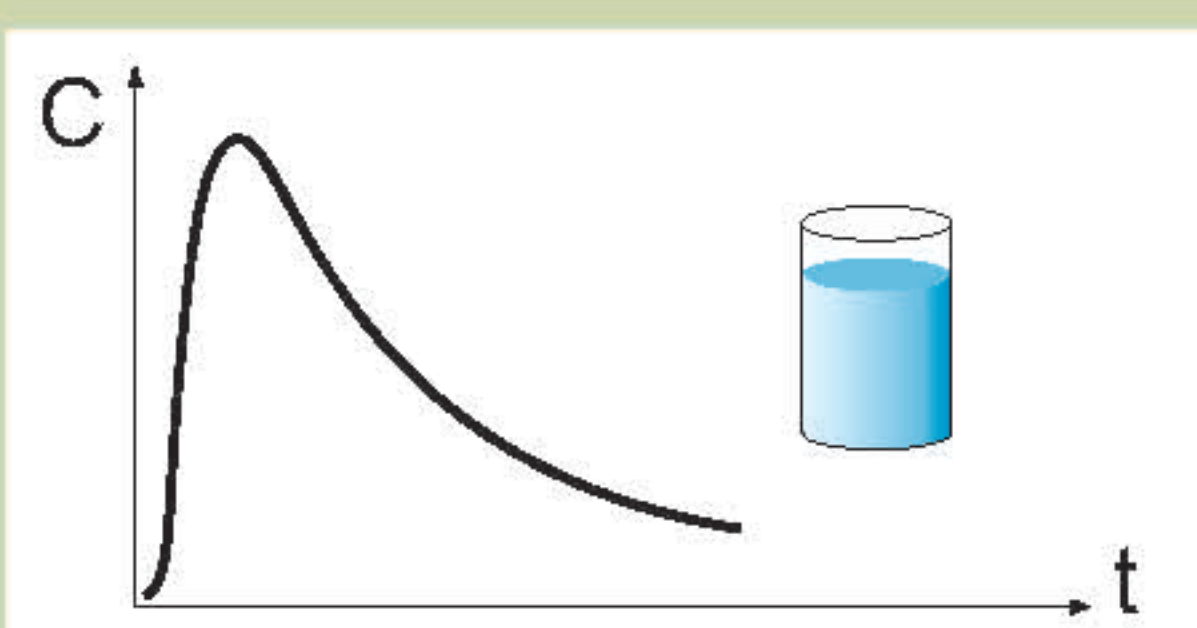
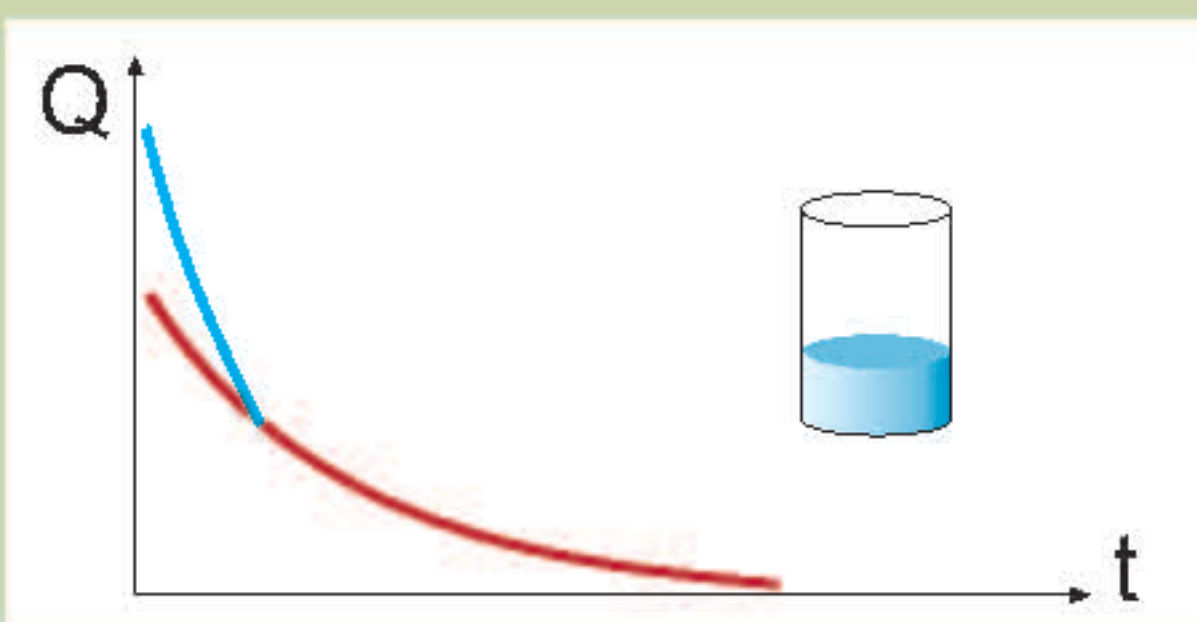
Workpackage 3: Analysis of critical low-flow conditions and storage characteristics of Swiss catchments

Selection of 20 Research Catchments



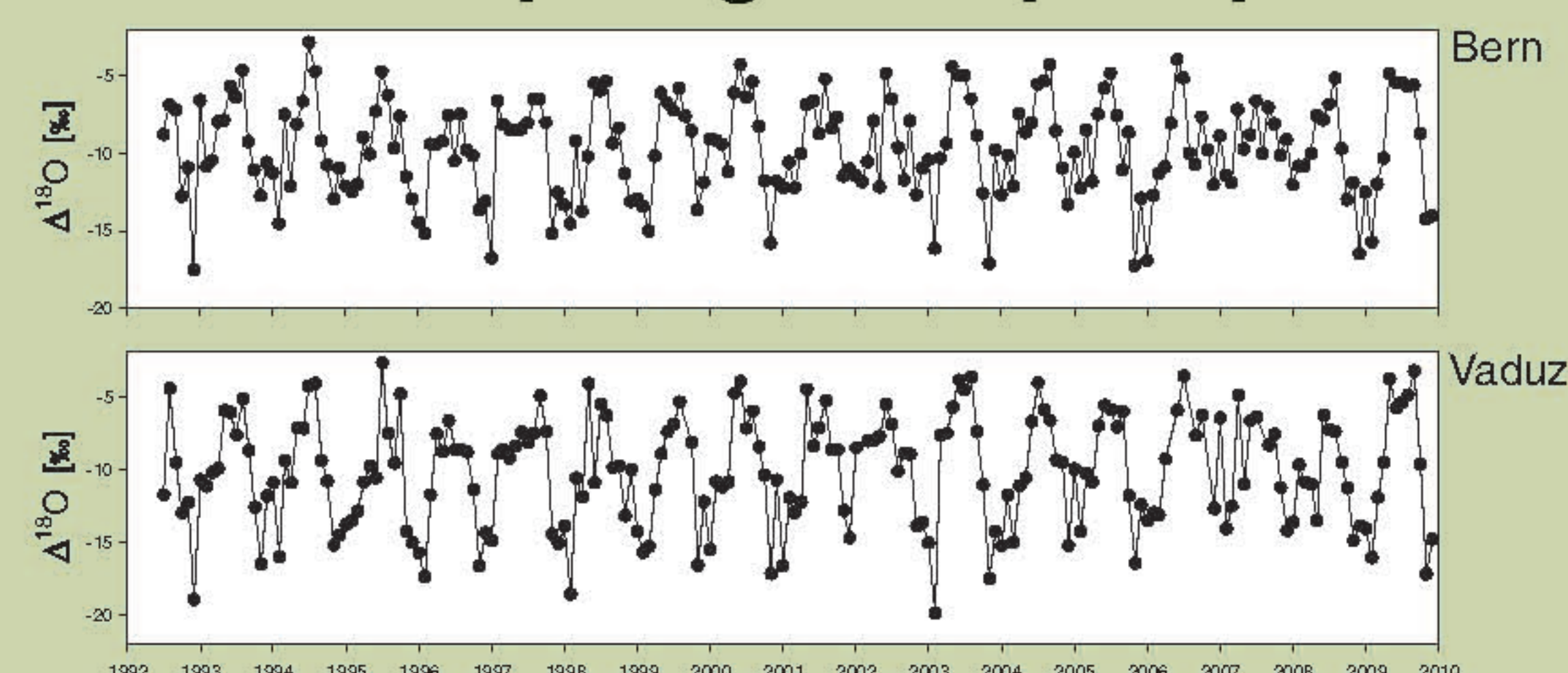
Conceptional modeling of streamflow and water transit time

Storage discharge



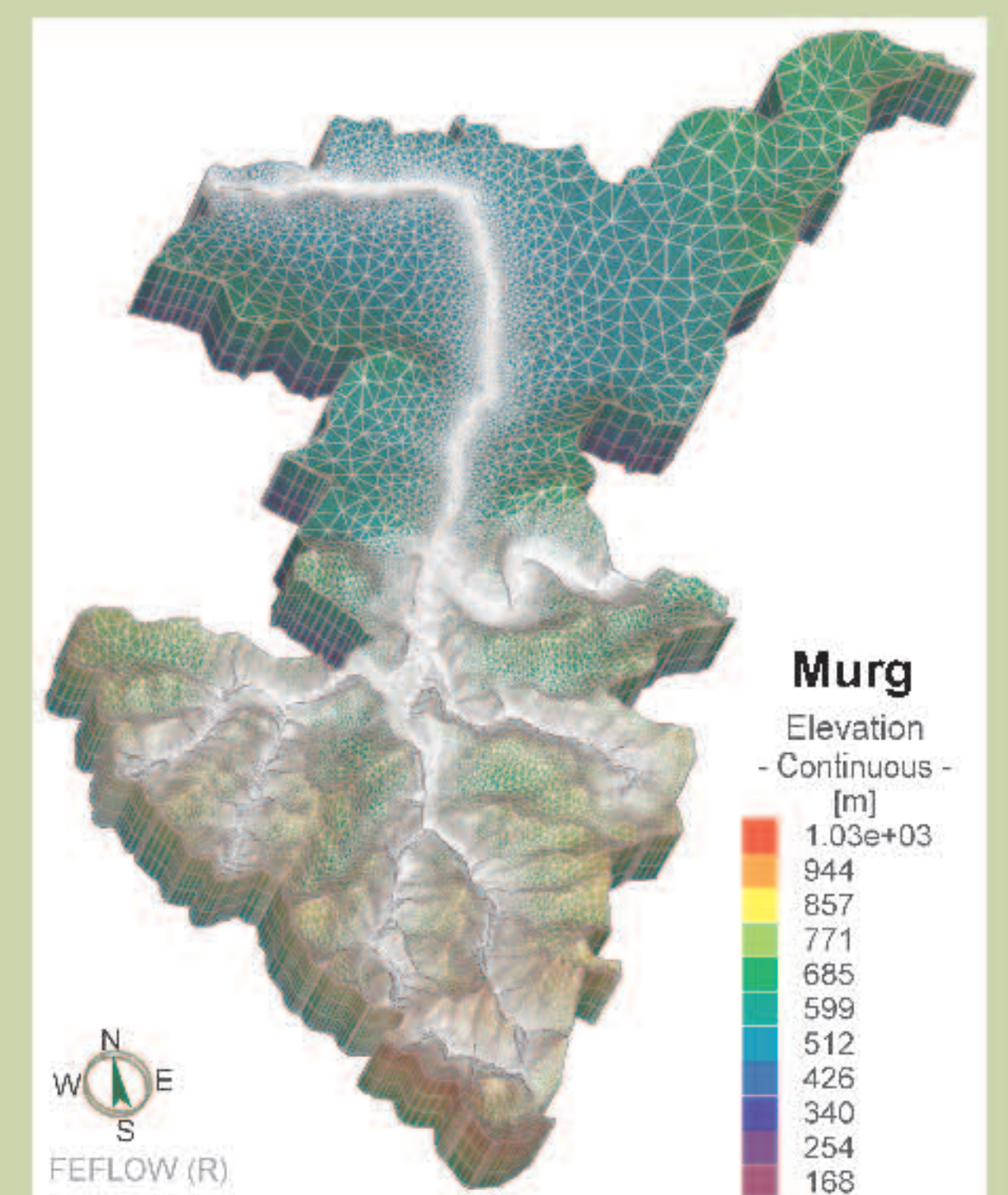
Conceptionally lumped simulation (transfer function) of isotope signals

Stable isotope signal in precipitation



Surface and groundwater modeling of water flow and transport

Groundwater model



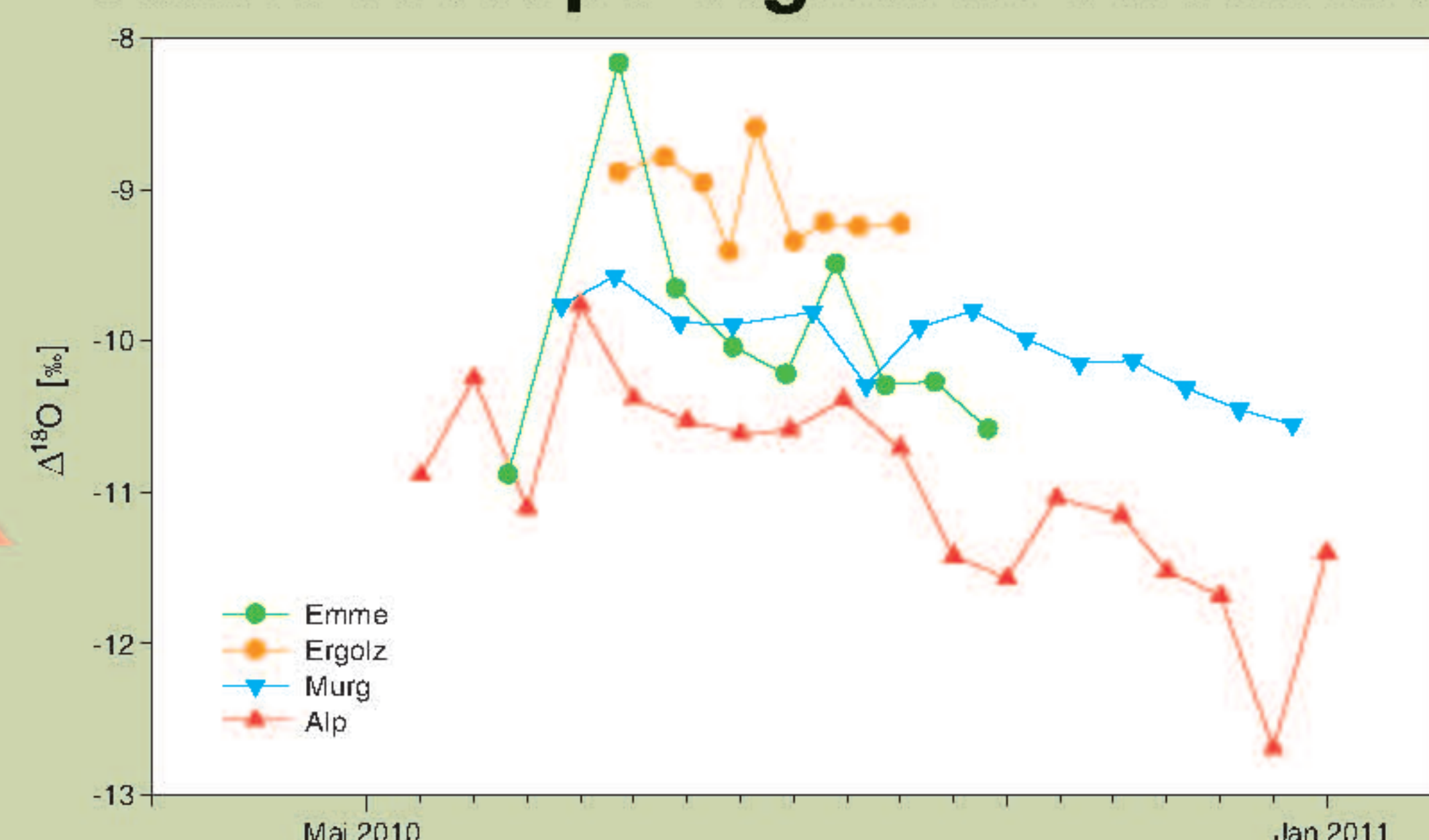
OBJECTIVES

Problem: During times of critical low flow, streamflow is fed by groundwater discharge to the stream.

Main objectives of workpackage 3

- to improve the understanding and modeling of groundwater discharge and hence baseflow
- to characterize the vulnerability of a variety of different catchments to drought

Stable isotope signal in streamflow



Spatial temporal explicit simulation of isotope signals