

Study site: Oberer Seebach



At the study site „Oberer Seebach“ the following datasets and instrumentations are available:

1. Concentration of carbon dioxide, methane and oxygen

- Surface water and air: 6 times per day since June 2010
- Groundwater: 6 times per day since April 2011
- GHG Sentinel Sentinel (Axys)

2. Concentration of dissolved organic carbon (DOC)

- Surface water: 4 times per day since May 2010
- Groundwater: 4 times per day since June 2011
- ISCO automatic water sampler; Sievers 900 TOC Analyzer

3. Water temperature, elect. conductivity, pH-value, oxygen and turbidity

- Surface water: 30 min-interval since July 2010
- YSI multi-parameter probe

4. Discharge/waterlevel

- gauge “Seebach II”: 30 min-interval since June 2010
- pressure sensor; GPRS data messaging
- gauge “Zufluss” operated by the Hydrological Service of Lower Austria since 1923 (15 min-interval)

5. Groundwater

- piezometer 1-3: 30 min-interval since 1976
- since May 2010: pressure sensor; GPRS data messaging

6. Meteorology

- climate station “Oberer Seebach”: air temperature, air pressure, wind speed, wind direction, photosynthetically active radiation (PAR): 10 minute-interval since September 2010
- climate station “Biologische Station” operated by Hydrological Service of Lower Austria and the Central Institute for Meteorology and Geodynamics: precipitation, air temperature and snow since 1895 in a daily interval, since 1987 in a 1 min-interval. Evaporation is recorded daily since 1991. Additionally since 1994 there are daily measurements of air pressure, -humidity, vapour pressure, cloud cover, wind direction and -speed, sunshine duration, dew point and soil temperature.