

Workshop Agenda

Hands-on Hydrogeodesy: Combining GPS and Hydrologic Datasets

July 18 - 22, 2022

This is a tentative workshop agenda that may be subject to change.

Day 1

Introductions

Total water storage Discussion

Break

Hydrogeodesy introduction Lecture

Introduction to GNSS + weather stations Lecture + discussion

Lunch (12:00-1:15)

Programming a GNSS station Hands on activity

Programming a weather station Hands on activity

Break

Field safety Discussion/Lecture

Day 2

Fieldwork (hands on)

- o Students will service a GNSS and weather station
- o Students will be introduced to site selection, site components, how data is produced, how they are connected

Day 3

Post field logistics and debrief

GNSS data + signals Lecture & discussion

Lunch (12:00-1:15)

Hydrologic + meteorological data Lecture

Working with meteorological data in Python Hands on

Day 4

GNSS data analysis in Python

Analysis Discussion

Lunch (12:00-1:15)

Additional GNSS applications in hydrology Lecture

Hands on combination lab

- o Students will work with GNSS and hydrologic data

Day 5

Hands on combination Lab

Lunch (12:00-1:15)

Applications and Resources Lecture

- o Existing resources that can be utilized
- o Current research and application of GNSS in the hydrosphere

Wrap up + Survey Discussion