

Summer School: Satellite-based Hydrological Data Assimilation

	TUE 25/08	WED 26/08	THU 27/08	FRI 28/08
8:20-8:40	Registration			
8:45-9:00	Introduction/Welcome	Welcome	Welcome	Welcome
9:00-10:00	Global Hydrology: Monitoring and Modelling, and Operation	Global Hydrology: Model Calibration and Human Water-use	Soil DA and Multi-Sensor DA	Opportunities of the SWOT mission
10:15-11:15	Satellite Gravity and Water Cycle	Modelling and Observing Evapotranspiration	AI and EO for high resolution hydrology	Improving surface processes using Altimetry
11:30-12:30	Soil Remote Sensing: Opportunities and Challenges	Insights of Hydrogeology, In-situ Groundwater, and Validation	Data Assimilation of Current and Future Gravity Missions	Hydrological Data Assimilation Case Studies
12:30-13:30	LUNCH	LUNCH	LUNCH	LUNCH
13:30-14:30	Introduction to Data Assimilation (DA)	GRACE(-FO) Post Processing and Challenges	Practical Session Multi-sensor DA	Practical Session Satellite Gravity DA based on PyGLDA
14:45-15:45	Practical Session: Data Assimilation for a Simple Model	Practical Session: Analysis Tools AAU's Python-based SaGEA Toolbox	Addressing Technical Challenges of GRACE(-FO) Data Assimilation in Practice	Continued
16:00-16:45	Continued	Continued	Poster Session	Feedback
16:45-17:00	Feedback	Feedback		
		Dinner and Come Together		

Tentative Programme of 2026