

Agenda

Workshop on

Remote Sensing for Hazard Monitoring and Modelling in High Mountain Asia

May 5–8, 2025 | ICIMOD Headquarters, Lalitpur, Kathmandu, Nepal

All timestamps are in Nepal Standard Time (NPT)

Monday, 5 May 2025		
Time	Programme	Speaker/facilitator
09:00–09:15	Registration	
09:15–10:30	Welcome & Introduction Program overview – 10 mins. Keynote I: Overview ICIMOD – 20 mins. Keynote II: GRSS Research & Education in Nepal – 20 mins. Participants Introduction – 20 min	Adnan Siddique / Jakob Steiner Birendra Bajracharya , Interim Intervention Manager for Regional Information Service, ICIMOD Mohan B. Chand , Kathmandu University
10:30–10:45	Coffee/Tea Break	
10:45–12:15	Lecture 1a: Introduction Synthetic Aperture Radar (SAR)	Franz Meyer , Alaska Satellite Facility (ASF), USA
12:15–13:30	Lunch Break	
13:30–15:00	Lecture 1b: Introduction Interferometry (InSAR)	Franz Meyer , Alaska Satellite Facility (ASF), USA
15:00–15:15	Coffee/Tea Break	

15:15–16:45	Exercise 1: InSAR Exercise–Mass Movement & Glacier	Franz Meyer , Alaska Satellite Facility (ASF), USA
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Tuesday, 6 May 2025

Time	Programme	Speaker/facilitator
09:00–10:30	Lecture 2a: Introduction to Polarimetric SAR	Irena Hajnsek , ETH Zurich / German Aerospace Center – DLR, Germany
10:45–11:45	Exercise 2a: PolSAR – Polarimetric Parameters	Irena Hajnsek , ETH Zurich / German Aerospace Center – DLR, Germany
11:45–12:15	Special Talk: ESA’s BIOMASS Mission – Status & Science (Online)	Klaus Scipal , European Space Agency
12:15–13:30	Lunch Break	
13:30–15:00	Lecture 2b: Introduction to Pol-InSAR	Irena Hajnsek , ETH Zurich / German Aerospace Center – DLR, Germany
15:15–16:45	Exercise 2: Pol-InSAR for Forest Height	Irena Hajnsek , ETH Zurich / German Aerospace Center – DLR, Germany

Wednesday, 7 May 2025

Time	Programme	Speaker/facilitator
09:00–10:30	Lecture 3a: Hazard and Risk Data in HMA and potential for remote Sensing	Jakob Steiner , University of Graz, Austria
10:45–12:15	Lecture 3b: Introduction to GNSS and Emerging Technologies	Rashmi Shah , Jet Propulsion Lab (JPL), USA
12:15–13:30	Lunch Break	
13:30–15:00	Lecture 3c: Introduction to Modelling Glaciers and Subglacial Hydrology	Aleah Sommers , Dartmouth Engineering, USA
15:15–16:45	Exercise 3: Modelling Glaciers and Subglacial Hydrology	Aleah Sommers , Dartmouth Engineering, USA

May 8 (THURSDAY)

09:00–10:30	Lecture 4a: Introduction to Machine Learning for Lake Detection	Saurabh Vijay , IIT Roorkee, India Adnan Siddique , ITU Lahore, Pakistan
10:45–12:15	Closing Session HUC and its Communities of Practice ICIMOD and the Way Forward Overview: IEEE GRSS Chapters, Publications, Membership Certificates of Participation / Group Photo	Chi Huyen Truong (Shachi), HUC Secretariat David Potter, ICIMOD Adnan Siddique, ITU Lahore
12:15 – 13:30	Lunch break	
13:30 onwards	Excursion Visit to Bagmati urban catchment within situ monitoring, coordinated with SM4-Nepal: Smartphones 4 Water	