

CONSULTATION WORKSHOP ON

Monitoring Slow-moving Landslides, and Daily Flood Inundation Mapping & Forecasting Services for the Hindu Kush Himalaya

18–20 November 2024 | ICIMOD headquarters, Lalitpur, Nepal

Agenda

18–20 November 2024 | Kailash Hall, ICIMOD, Lalitpur, Nepal

All timestamps are in Nepal Standard Time (NPT).

DAY 1

Monday, 18 November 2024

Time	Programme	Speaker/resource persons
09:30–10:00	Registration and Tea/Coffee	Rajesh Shrestha, ICIMOD
Session 1: Opening session		
10:00–10:30	Welcome Remarks by Director General/Deputy Director General, ICIMOD WelcomeRemarks by Chief Executive, NDRRMA Introduction of Participants	Moderated by NDRRMA
10:30–10:45	Introduction to the Goals and Services of the HydroSAR-NG Project (UAF Alaska)	Franz J Meyer, UAF, ASF
10:45–11:00	Introduction to the SERVIR Program and Purpose of this Workshop	Birendra Bajracharya, ICIMOD
11:00–11:30	Group Photo and Tea Break	
Session 2: HydroSAR-NG Slope Motion Service		
11:30–12:00	Introduction of HydroSAR-NG Slope Motion Detection Project (Goals, Types of Slope Motions Addressed by the Service)	Simon Zwieback, UAF Alaska
12:00–12:30	HydroSAR-NG Slope Motion Products (Method, Product Layers, Limitations, Case Studies)	Simon Zwieback & Amrit Thapa, UAF Alaska
12:30–13:30	Lunch Break	
13:30–14:15	Demo of the HydroSAR-NG Slope Motion Service Interface	Sudan Maharjan, ICIMOD Simon Zwieback & Amrit Thapa, UAF Alaska
14:15–15:00	Group Exercise: Explore Prototype Interface and Data Products	Simon Zwieback, UAF Alaska Sudan Maharjan, Sudip Pradhan & Bikram Shakya, ICIMOD
15:00–15:15	Tea break	
15:15–16:30	Discussion and feedback on: <ul style="list-style-type: none">• Product Requirements	Simon Zwieback & Amrit Thapa, UAF Alaska

	<ul style="list-style-type: none"> • Product Use Cases • Feedback on the Service Interface • Data Validation/Partnerships 	Rajesh Thapa, Sudan Maharjan Sudip Pradhan & Bikram Shakya, ICIMOD
16:30–17:00	Wrap-Up for HydroSAR-NG Slope Motion Service	Simon Zwieback, UAF Alaska Rajesh Thapa, Sudan Maharjan, ICIMOD

DAY 2

Tuesday, 19 November 2024

Time	Programme	Speaker/resource persons
Session 3: HydroSAR-NG Daily Inundation Extent Forecasts		
09:30–10:00	Recap of Existing HydroSAR-NG SAR-based Flood Mapping Services	Franz J Meyer, UAF Alaska
10:00–10:30	Overview of HydroSAR-NG Flood Forecasting Service	Franz J Meyer, UAF Alaska Rustem Arif Albayrak, NASA GSFC
10:30–10:45	Tea Break	
10:45–11:15	Flood Forecasting Using FIER: Principle and Forecasting Results	Kas Knicely & Franz J Meyer, UAF Alaska
11:15–11:45	Flood Forecasting Using Deep Learning: Principle and Forecasting Results	Rustem Arif Albayrak, NASA GSFC
11:45–12:30	Flood Forecasting Products, Product Specifications, and Deliverables	Rustem Arif Albayrak, NASA GSFC
12:30–13:30	Lunch Break	
13:30–14:15	Introduction to Flood Inundation and Forecasting Portal	Sudip Pradhan, ICIMOD Rustem Arif Albayrak, NASA GSFC
14:15–15:00	Group Exercise: Explore Inundation Platform for Three Test Sites	Rustem Arif Albayrak, NASA GSFC Sudip Pradhan & Manish Shrestha, ICIMOD
15:00–15:15	Tea Break	
15:15–15:45	Group Exercise Continued: Explore Inundation Interface for Three Test Sites	Rustem Arif Albayrak, NASA GSFC Sudip Pradhan & Manish Shrestha, ICIMOD
15:45–17:00	Discussion and Feedback on: <ul style="list-style-type: none"> • Product Requirements • Product Use Cases • Feedback on the Service Interface • Validation Data/Partnerships 	Rustem Arif Albayrak NASA GSFC Rajesh Thapa, Sudip Pradhan & Manish Shrestha, ICIMOD

DAY 3

Wednesday, 20 November 2024

Time	Programme	Speaker/resource persons
Session 4: Discussions and Service Customization Options		
09:30–10:00	Training Inundation Extent Forecasting Service with River Gauge Data (Concept)	Franz J Meyer & Kas Knicely, UAF Alaska
10:00–10:30	Training with River Gauge Data - Example	Franz J Meyer & Kas Knicely, UAF Alaska
10:30–10:45	Tea Break	
10:45–11:30	Updates on Landslide Mapping and Forecast System	Pukar Amatya, NASA GSFC Sudan Maharjan, ICIMOD
11:30–11:50	Presentation on BIPAD Portal (Integration of Data and Application)	NDRRMA
11:50–12:30	Discussions with Individual Groups: <ul style="list-style-type: none">• Integration of Products into Partner Portals• Validation Data Requests• Overall Feedback on the Services.	NDRRMA, ICIMOD, UAF, NASA GSFC
12:30–13:00	Closing session	NDRRMA, ICIMOD, UAF, GSFC, MSFC
13:00–14:00	Lunch break	

About SERVIR

A joint initiative of NASA, USAID, and leading geospatial organisations in Asia, Africa, and Latin America, SERVIR partners with countries in these regions to address critical challenges in climate change, food security, water and related disasters, land use, and air quality. Using satellite data and geospatial technology, SERVIR co-develops innovative solutions through a network of regional hubs to improve resilience and sustainable resource management at local, national, and regional scales. ICIMOD implements the SERVIR Hindu Kush Himalaya (SERVIR-HKH) Initiative – one of five regional hubs of the SERVIR network – in its regional member countries. For more, please visit servir.icimod.org or write to servirhkh@icimod.org.

