



हिमनदी संरक्षण
Glacier Preservation

सबैका लागि समयमै पूर्व सूचना
Closing the Early Warning Gap Together



2025
International
Year of Glaciers'
Preservation



विश्व हिमनदी दिवस
विश्व जल दिवस
विश्व मौसम दिवस

नेपाल राष्ट्रिय हिमनदी, जल तथा मौसम सप्ताह २०८१

Nepal National Glacier, Water and Weather Week (NNGWWW) 2025

८-१० चैत २०८१ (17-23 March 2025)

Program Tracking Snow and Ice: Hands-On Sessions on Google Earth Engine

Draft Program Agenda

Background:

On the occasion of the Nepal National Glacier, Water and Weather Week (NNGWWW) 2025, under the overall chairmanship of the Water and Energy Commission Secretariat (WECS), The Small Earth Nepal (SEN), in collaboration with GeoDev, OSGeo Nepal Chapter, UNESCO Chair in Mountain Water Sustainability, UNESCO World Water Assessment Programme, and the UNESCO, is organizing hands-on online training sessions on the Google Earth Engine Model for hydrologists, water resources professionals, and graduate students in the water and environment sector who are planning their research on cryospheric science. The training aims to establish a network of researchers who actively monitor Nepal's snow and ice year-round, contributing to the International Year of Glacier Preservation (IYGP) 2025 and the Decade of Action for Cryospheric Sciences.

Resource Person:

Tek Kshetri is a dedicated Geospatial expert with over five years of experience in geospatial analysis, remote sensing, and Earth Observation technologies. A strong advocate for open-source tools, open standards, and open solutions, he actively contributes to making geospatial technologies more accessible. His research focuses on the intersection of Artificial Intelligence (AI) and the geospatial domain, specializing in natural disaster modeling, Web GIS, and satellite imagery analysis using Machine Learning and Deep Learning. Mr. Kshetri has developed several open-source geospatial packages, including geoserver-rest, GeoTile, pySLD, and leaflet-geoserver-request.

Requirement:

1. Participants are required to have a laptop and a Google account for the GEE platform signup
2. A stable internet connection is essential for online sessions and GEE
3. Microsoft Teams is necessary for joining the meeting
4. Full attendance on all days is required to receive a training certificate

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Nepal National Glacier, Water and Weather Week (NNGWWW) 2025

८-१० चैत २०८१ (17-23 March 2025)

Program Details:

Date: 17, 19, and 22 March, 2025

Time: 20:00 - 21:30 NPT (Note: The training is in the evening time)

Venue: Online (Microsoft Teams) ([Meeting Link](#))

17th March

Time: 20:00 - 21:00

Time	Content	Responsibility
20:00 - 20:05	Formal welcome and introduction of the resource person	Ms. Susa Manandhar (SEN)
20:05 - 20:10	Remarks by the Chief Guest	TBC
20:10 - 20:40	Introduction to GEE (Google Earth Engine) session	Mr. Tek Kshetri (OSGeo Nepal)
20:40 - 20:55	Q/A session	All the participants
20:55- 21:00	Closing and briefing of the next day	Ms. Susa Manandhar (SEN)

19th March

Time: 20:00 - 21:30

Time	Content	Responsibility
20:00 - 20:10	Recap from the 17th March	Ms. Reshu Karki (SEN)
20:10 - 21:00	Hands-on Session	Mr. Tek Kshetri (OSGeo Nepal)
21:00 - 21:25	Q/A session	All the participants
21:25 - 21:30	Closing and briefing of the next day	Ms. Susa Manandhar (SEN)



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८-१० चैत २०८१ (17-23 March 2025)

22nd March

Time: 20:00 - 21:3

Time	Content	Responsibility
20:00 - 20:10	Recap from 19th March	Ms. Reshu Karki (SEN)
20:10 - 20:30	Problem resolving	All the participants
20:30 - 21:15	Presentations from interested participants	Selected Participants Only
21:15 - 21:25	Feedback session	All the participants
21:25 - 21:30	Closing remarks	Dr. Dhiraj Pradhananga (UNESCO Chair in Mountain Water Sustainability, Tribhuvan University/The Small Earth Nepal)

For any queries and support:

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