



नेपाल विकास अनुसन्धान प्रतिष्ठान
Nepal Development Research Institute



APN

ASIA-PACIFIC NETWORK FOR
GLOBAL CHANGE RESEARCH

Building Capacities for Climate Resilient Water Resources
Development under Climate Uncertainty

Capacity Building Workshop on Climate Risk Assessment (CRA) for Water Resources Management

Workshop Report

February 2024

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List of Acronyms

APN – Asia-Pacific Network for Global Change Research
CDO – Climate Data Operator
CPD – Centre for Policy Dialogue
CRA – Climate Risk Assessment
CREEW – Center of Research for Environment, Energy and Water
DEM – Digital Elevation Model
DHM – Department of Hydrology and Meteorology
DWRI – Department of Water Resources and Irrigation
ECMWF – European Centre for Medium-Range Weather Forecasts
ERA5 – ECMWF Re-Analysis version 5
ESGF – Earth System Grid Federation
GCM – General Circulation Model, Global Climate Model
GLOF – Glacier Lake Outburst Flood
GPM – Global Precipitation Measurement
IMERG – Integrated Multi-satellite Retrievals for GPM
k-nn – k - nearest neighbor
LDOF – Landslide Dam Outburst Flood
MoEWRI - Ministry of Energy, Water Resources, and Irrigation
MoFE – Ministry of Forest and Environment
MSWEP – Multi-Source Weighted-Ensemble Precipitation
NRB – Narayani River Basin
NDRI – Nepal Development Research Institute
NEXGDDP – NASA Earth Exchange Global Daily Downscaled Projections
PU – Purbanchal University
RCM – Regional Climate Model
SEN – Small Earth Nepal
TU – Tribhuvan University
WCP – Water and Climate Program
WCRP – World Climate Research Programme
WECCS-Gen – WEather generator and Climate Change Scenario Generator
WECS – Water and Energy Commission Secretariat
WR – Water Resources

1. Introduction to the Workshop

Climate Risk Assessment (CRA) is integral to sustainable and climate-resilient Water Resources (WR) development. It is necessary to analyze the inherent vulnerabilities and resilience of WR systems to uncertainties in the climate and other risk factors (like natural hazards). For this purpose, capacity building of WR practitioners is integral in conducting CRA.

A four-day Capacity Building Workshop on Climate Risk Assessment for Water Resources Management was jointly organized by Nepal Development Research Institute (NDRI) and Tribhuvan University (TU) from 5-8 February 2024 in Lalitpur, Nepal. This capacity-building workshop, targeted at early career water resources researchers and practitioners, was a part of the project “Building Capacities for Climate Resilient Water Resources Development under Climate Uncertainty” funded by the Asia-Pacific Network for Global Change Research (APN).

Twenty-seven individuals from notable national and international organizations actively participated in this workshop. Notably, among these participants, five individuals represented foreign countries: Bhutan, Bangladesh, India, Sri Lanka, and the Philippines. Various governmental organizations from Nepal were represented in the workshop including the Ministry of Energy, Water Resources and Irrigation (MoEWRI), Department of Water Resources and Irrigation (DWRI), Department of Hydrology and Meteorology (DHM), and Water and Energy Commission Secretariat (WECS). Additionally, esteemed educational institutions such as TU - Nepal, Purbanchal University (PU) - Nepal, the Asian Institute of Technology - Thailand, the Central University of Rajasthan - India, and the Royal University of Bhutan were represented. Non-governmental research organizations, including the Centre for Policy Dialogue (CPD) in Bangladesh, The Small Earth Nepal (SEN), Centre of Research for Environment, Energy, and Water (CREEW) as well as various private and public organizations, also participated in the workshop.

The primary objective of this training workshop was to equip water and climate researchers and practitioners with the skills and knowledge to conduct effective CRA.

2. Day 1: Introduction and Overview

The workshop commenced with a warm welcome to the participants and an introduction to the workshop from resource persons. Dr. Shankar Shrestha, Executive Director - NDRI, introduced NDRI, highlighting NDRI’s scope of work. Dibesh Shrestha, Lead Resource Person of this workshop, provided a comprehensive overview of the workshop, outlining the topics to be covered and the tools participants would engage with.

Aligning with the workshop’s theme, Dr. Dhiraj Pradhananga, Associate Professor at TU, delivered a presentation on the topic “Climate Vulnerability and Resilience of Water

Resources in Mountainous Regions”. He emphasized the critical need for research, capacity building, and the integration of science, policy, and society to effectively address the challenges of climate change and its impacts on water resources in mountainous areas.

Following Dr. Pradhananga's presentation, Dr. Divas B. Basnyat, Lead of Water and Climate Program (WCP) at NDRI focused on Climate Risk Assessment of Water Resources and Hydropower Projects, along with some examples drawn from an ongoing project at NDRI. His presentation underscored four key messages regarding the climate risks associated with hydropower projects, alongside strategies for risk management and mitigation measures to address these challenges effectively. His messages focused on the impact of climate change, major challenges for Nepal’s WR and hydropower sectors, the high uncertainty of future climate, and the need to invest in learning: planning, monitoring, and research.

2.1 Climate Change: Background and Terminologies

Resource Person: Divya Laxmi Subedi

During this session, the foundational aspects of climate change and its associated extremes were discussed. This session started with an introduction to basic concepts and terminologies in CRA including climate change, climate extremes, climate models including General Circulation Models (GCMs) and Regional Climate Models (RCMs), Coupled Model Intercomparison Project (CMIP), Representative Concentration Pathways (RCMs), and Shared Socioeconomic Pathways (SSPs) along with detailed discussions on their respective functionalities. This session was useful in acquainting participants with the concepts essential for their engagement with and understanding of the subject matter. The subsequent part of this session centered on practical applications of the fundamentals by downloading climate data from two portals: Copernicus Climate Data Store and World Climate Research Programme (WCRP). The step-by-step procedure to download climate data was demonstrated and the participants were encouraged to try the same for hands-on learning.

2.2 Weather Generator and Climate Change Scenario Generator for Climate Risk Assessment (WECCS-Gen) Tool

Resource Person: Dibesh Shrestha

The main focus of this session was on the demonstration of the WECCS-Gen Tool developed by NDRI. Participants received a comprehensive overview of the tool's objectives and functionalities, with particular emphasis on its utilization for weather generation and climate change scenario generation using k-nearest neighbor (k-nn) techniques. Additionally, discussions delved into the intricacies of bias correction and

spatial disaggregation techniques, providing participants with a deeper understanding of these essential components.

2.3 Climate Change Analysis Fundamentals for Climate Risk Assessments (climate data: analysis and tools)

Resource Person: Dibesh Shrestha and Divya Laxmi Subedi

During this session, the resource persons guided participants through the details of climate data. The discussion encompassed key attributes of climate data, including its sources, variables, models, scenarios, resolution, time scales, data types, and geo-referencing. Participants were briefed on climate data analysis's purpose and introduced to tools suitable for such analyses. For data analysis and visualization, programming languages like Python were highlighted alongside the application Panoply. In the end, Climate Impact Analysis through Intergrated Modeling and Climate Risk Assessment were also discussed.

2.4 Hands-on Practice

Resource Person: Dibesh Shrestha, Divya Laxmi Subedi and Girish Lamsal

In the end, during the hands-on practice session of Day 1, the participants were guided through each step to ensure the completion of basic installations and the necessary tools to ensure their engagement with the training material moving forward. This hands-on session provided the opportunity for the participants to download the CMIP6 model data independently, fostering familiarity with the process. This session facilitated in-depth discussions with each other and the resource persons.

3. Day 2: Hands-on: Top-down approach for climate risk assessment (Group work)

The second day consisted of presentations on details of various data sources, GCMs selection, and Bias Correction and Statistical Downscaling of the GCMs. Participants were also made to work with the Climate Data Operator (CDO) tool and carry out bias correction of GCMs.

3.1 Data Sources: Observations, Satellite-based, and CMIP6 models

Resource person: Dibesh Shrestha

This session included information on various data sources for climate, water resources, soil, land and agriculture, and Digital Elevation Model (DEM).

For climate, the participants were informed about various historical precipitation data sources such as GPM IMERG, MSWEP, and ERA5; data sources for various measures of

future climate including precipitation and temperature, such as the ESGF portal and Copernicus Climate Data Store. For water resources, data sources for snow cover, river basins and sub-basins, glacier inventory, global surface water, dams and reservoirs, river flow and river flow projection, and water yield projections were talked about. Participants were also made aware of the data sources for soil, land, and agriculture including soil and terrain database, land cover, cropland extent, irrigated and rainfed area map of the world, etc. along with source and application of Digital Elevation Model (DEM)

3.2 Global Circulation Models (GCMs) Selection

Resource person: Dibesh Shrestha

This session entailed a method of selection of climate models from a pool of GCMs. The envelope method, adapted by the MoFE (2019)- “Climate Change Scenarios for Nepal” was explained including the methodology and required variables. The selection basis including a) projected changes in precipitation and temperature, b) projected extremes of precipitation and temperature, and fidelity of the model to represent historical climate were also explained. Information was also provided on available climate models and sources, including the NEXGDDP database.

3.3 Hands-on Session on Climate Data Operator (CDO)

Resource person: Girish Lamsal

This session aimed at the application of CDO for the operation and application of the climate data files. This session started with the installation of software called Ubuntu, where CDO can be used, and progressed with using basic commands and actions including installing CDO, creating and changing the environment.

The participants were then made to perform various operations on climate data files in NetCDF(.nc/.nc4) format. Some of the operations performed were displaying information about the .nc files, displaying variables and units of an .nc file, slicing .nc files along a time or latitude and longitude, and merging .nc files.

Apart from CDO, the participants were also made to extract reduced (min/max/average/weighted average) time series from .nc file with any shapefile using a python module called pycissor.

3.4 Bias Correction and Spatial Downscaling

Resource person: Dibesh Shrestha

The concept of bias correction and spatial downscaling was talked about in this session. Bias correction using the method of quantile mapping was explained using observed data and raw GCM data. Spatial disaggregation was explained using observed data, GCM data, and factors relating to the 2 datasets.

The participants were given a hands-on demonstration and made to do an exercise to perform quantile mapping using Python code.

4. Day 3: Hands-on: Climate Risk Assessment (Group work)

The third day of the workshop started with an introduction to the hydrological model called HBV. HBV is a lumped conceptual model developed by the Swedish Meteorological and Hydrological Institute and is designed for simulating the hydrological processes of precipitation, snow accumulation and melt, soil moisture, and runoff generation in catchment areas. The participants installed and learned about developing a model with necessary input files and result interpretations. The participants used the precipitation data obtained from climate models in the HBV model.

The next session of the third day included the operation of the WECCS-Gen tool. This is a tool aiming to support climate risk assessments of water resources systems. This tool produces the inputs for climate stress test, and it provides an interface for the weather-generating process and enforcing changes in climatic means to produce climate change scenarios.

The use of interfaces Weather Generator-Climate Risk Assessment “WG-CRA” and Climate Change Scenario Generator “CC Scenario Generator” were demonstrated with input files, necessary parameters and result interpretations.

5. Day 4: Climate Change Analysis and its Application to Water Resources

5.1 Introduction of APN and Challenges of Climate Research

Resource Person: Dr. Madan Lall Shrestha,

On the final day, the Scientific Planning Group member of APN representing Nepal and former Director General of DHM, Dr. Madan Lall Shrestha delivered an insightful session on “Introduction of APN and challenges of climate research.” His presentation provided a comprehensive overview of APN and its thematic focus areas, shedding light on the priority research topics emphasized in APN proposal calls for South Asia.

Later in his presentation, he discussed the evolution of climate and the associated research challenges. He provided a detailed discussion on the global surface air temperature anomalies spanning from 1940 to 2023. The monthly global surface air temperature anomalies (measured in °C) relative to the period of 1991–2020 were plotted as a time series for each year. In the visual representation, 2023 was distinctly

delineated by a thick red line, while other years were depicted with thin lines and shaded to represent the respective decades, ranging from blue (1940s) to brick red (2020s). He also shared data on global atmospheric carbon dioxide and methane concentrations. In 2023, CO₂ rose to 419 ppm (+2.4 ppm from 2022), while CH₄ increased to 1902 ppb (+11 ppb from 2022). He underscored the significance of these findings, noting that 2023 marked the warmest year on record, with temperatures approaching 1.5°C above the preindustrial level, resulting in substantial snow melting.

Concluding the presentation, he encouraged active participation from the participants, urging them to consider applying for APN research proposals in order to contribute to the advancement of climate research in the region.

5.2 Climate Change Impact on Runoff (Case study: Narayani River Basin)

Resource Person: Girish Lamsal and Dibesh Shrestha

During this session, comprehensive discussions were held regarding the hydropower portfolio and the potential impact of climate change on the Narayani River Basin (NRB). Participants were introduced to general modeling concepts, focusing on the Spatial Processes in Hydrology (SPHY) model schematization, setup, and calibration. Detailed conversations covered the three-step model calibration, which included snow processes, glacier processes, and rainfall-runoff processes focusing on the Narayani basin.

5.3 Climate Change, Hazard, and Hydropower

Resource Person: Girish Lamsal, Sunita Magar and Rupesh Baniya

This session first discussed the energy generation within the NRB followed by elucidation of its future projections under both favorable and worst-case scenarios. Following this, the focus shifted towards discussing potential hazards within the region, encompassing topics such as Glacier Lake Outburst Flood (GLOF), Permafrost degradation, Landslides, Landslide Dam Outburst Flood (LDOF), flood analysis, and sediment dynamics. Specific attention was given to exploring landslide susceptibility in the Marsyandi area, alongside comprehensive discussions on flood analysis and future projections, including sediment load forecasts. Furthermore, the session delved into the critical aspect of translating hazard information into actionable insights to project hydro-economic modeling.

5.4 Climate Stress Test Using Hydropower Design Model and Financial Analysis

Resource Person: Saroj Babu Bhattarai, Rajendra Kumar Shrestha, and Samyog Bhandari

This session focused on outlining the methodology for determining the optimal discharge and capacity for hydropower plants (HPP), emphasizing financial analysis and stress testing. The financial aspect included a detailed discussion on metrics such as Net Present Value (NPV), Levelized Cost of Electricity (LCOE), Internal Rate of Return (IRR), and Cost-effectiveness Ratio (CER). Subsequently, participants engaged in a hypothetical case study to apply these financial analysis techniques to a hydropower plant scenario. The session also provided information on key financial assumptions and sensitivity analysis to evaluate potential variations. The session concluded with a discussion on the change in total annual energy and change in NPV due to climate change in various HPPs of NRB.

5.5 Climate-Resilient Hydropower Design

Resource Person: Prof. Hari Pandit

The session underscored the urgent need to address the impacts of climate change, particularly focusing on water resources management and hydropower projects. It emphasized the importance of comprehending variations in flow patterns, the heightened frequency of extreme weather events, and multi-hazards such as glacial lake outburst floods (GLOFs), which pose threats to the operational stability, safety, and viability of hydropower projects. Recent events, like those affecting the Upper Bhotkoshi HEP (45MW) and Teesta 3 HEP (1200MW) in Sikkim, have inflicted significant damage on projects, highlighting the immediate necessity for robust mitigation measures at catchment and basin levels. Proposed measures encompass both hard approaches, including physical infrastructure developments like overflow structures, bypass tunnels, emergency spillways, slope stability measures, and check dams, as well as soft strategies such as policy interventions, raising awareness, and making informed design choices.

Additionally, the session delved into the crucial aspect of addressing sediment erosion and its adverse effects on hydropower projects, citing ongoing projects such as Jhimruk HEP (12MW), Middle Marsyangdi HEP (70MW), and Marsyangdi HEP (69MW). The latter two projects, situated within the same basin, underscore the importance of selecting appropriate designs due to their demonstrated impact on turbine performance. Furthermore, it emphasized considering factors such as sediment concentration, mineralogical content, and turbine types when implementing sediment exclusion methods. Various methods for sediment handling were recommended, including bypass tunnels, the two-reservoir method, Sediment Exclusion using Centrifugal Separation Method (applied in Middle Marsyangdi HEP and Rudi HEP), Sediment Venting (applied in Three Gorges Reservoir in China), and effective sediment flushing strategies. The session concluded with audience questions and discussions.

6. Closing of the Workshop

During the closing session, Dibesh Shrestha, Dr. Pradhananga, and Dr. Shrestha delivered their concluding remarks, reflecting on the workshop's outcomes and significance. Additionally, participants were given the opportunity to share their experiences and provide feedback. Many expressed gratitude for the workshop's effectiveness in enhancing their understanding of core concepts related to climate change and its impact on water resources, as well as in familiarizing them with tools and programming languages. Some participants noted that the training duration felt somewhat brief, expressing a desire for the workshop to continue. In the end, the participants were awarded a Certificate of Participation in recognition of their active involvement and contribution throughout the program. Overall, the program was successful and fruitful to the participants through the collective effort of the resource persons as per the feedback received in the closing session.

7. Response of Participants

Before delving into the technical sessions and upon the conclusion of the workshop, participants underwent two assessments: the Pre-Training Assessment and the Post-Training Assessment.

As per the responses in the pre-training assessment, most of the participants had a good to very good understanding of the climate change issues in the water resources sector. Many participants expressed limited familiarity with GCMs, and climate scenarios, and lacked experience or proficiency in climate modeling techniques such as climate model output bias corrections, downscaling, and impact studies related to water resources management. The participants indicated that their current job or interest revolved around climate risk assessment.

In the post-training assessment, participants expressed a positive impression, noting that the training content was highly relevant, met their expectations, and significantly enriched their existing knowledge. They commended the resource persons for their assistance in handling the errors in the installation of tools and their effective delivery of the training material. Additionally, participants expressed a desire for the workshop to continue in greater depth and for an extended duration.

The responses gathered from these assessments are detailed in the Annex for reference.

8. Annex

8.1 Glimpses of the Workshop



8.2 Pre-Training Assessment



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Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: _____ (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

will be able to use model for climate assessment

7. What do you think are the main drivers or causes of climate risks to water resources projects?

GHG, precipitation, temperature

Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Foqoruddin Al Kabir (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

6. What are your main expectations from this training workshop?

To understand the impact of climate change on hydrological issues leading to formulate the policy initiatives.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

The main drivers are high precipitation, longer dry period, longer wet seasons etc.

Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Sudesh Lal Marney (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

To acquire knowledge about climate change scenarios and risks associated to the hydropower sector.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

Precipitation and temperature change ~~is~~ spatially and temporally.

Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Susma Manandher (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

- Climate Data Source
- Analysis for data and visualization of climate data
- Impact and changes in stream flow, runoff

7. What do you think are the main drivers or causes of climate risks to water resources projects?

- Extreme events
- human activities

**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Pre-Training Assessment

Name: _____ (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

* learning about the climate model and tools
* practice application on water resource project

7. What do you think are the main drivers or causes of climate risks to water resources projects?

* climate change pattern.
* landuse change



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Farina Shrestha (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

The main expectation is the how climate risk assessment is done in climate uncertainty.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

The main drivers may be the change in temperature and precipitation.

Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: _____ (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

The main expectations from this workshop are:-
 1) To learn about downscaling and bias correction.
 2) To learn about appropriate tools and models for different objectives.
 3) To obtain detail knowledge about climate risk assessment.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

1. Lack of holistic integrated ^{study} approach while selecting sites.
 2. Lack of upstream-downstream linkage consideration.
 3. Insincerity while preparing detailed project reports and other environmental assessment reports.

Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: _____ (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

- To gain hands on experience in analysis of climatic models.
- To get some insights regarding the impact of variability of climate in water resources (hydropower) sectors.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

- Climate uncertainty due to complex topography of Nepal



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Pre-Training Assessment

Name: _____ (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?
 * Develop skills on climate, Hazard & disaster risk Assessment, modeling.
 * Develop skill on climate data downscaling, GCMs data availability.

7. What do you think are the main drivers or causes of climate risks to water resources projects?
 ① Lack of climate vulnerable assessment on water resources sector.
 ②

Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Crish Basnet (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

- ① Downscaling of climate data for field of study with Bias correction.
- ② Study climate uncertainty and its impact on hydrological flow impacting water resource projects.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

- ① land use change
- ② climate vulnerable project (water resources) design.



Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Ayushmita Potharal (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/> NA
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

→ Increased understanding of on the use of climate risk assessment tools and their resultant water resources impact [for various sectors]
→ Gain insights on current ^{available} approaches to climate impact analysis.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

The main drivers or causes of climate risks to water resource projects are changes in precipitation pattern, increasing temperature, extreme climatic conditions (increase in both magnitude & frequency of such events), sea-level rise (due to thermal heating), which are posing significant disturbance to water resources projects.



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Abhash Adhikari (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

6. What are your main expectations from this training workshop?

My knowledge gap is on climate change & its impact on water resources. I expect I will fulfill my gap from this training workshop.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

Global warming, uneven precipitation etc.



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Ayush Karmacharya (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

My expectations include learning the framework of Modelling Climate Models with their assessment & future prediction of their parameters.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

→ Climate change, Negligence, and lack of study and forecasting, Economic & Financial Constraints, and Lax Policy.

Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: _____ (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
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3. Do you have any prior experience or skills on climate modelling ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

Broaden the knowledge and perception about climate change.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

Droughts, floods, landslide.



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Pre-Training Assessment

Name: _____ (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
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4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

Downscaling of Climate model.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

Extreme Events and high flows of sediment.



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Pre-Training Assessment

Name: _____ (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

- to know various considerations we should take in designing various projects
- to know the modelling and run the models considering the climate change

7. What do you think are the main drivers or causes of climate risks to water resources projects?

- change precipitation patterns
- temperature variability
- improper project design without consideration of the climatic and environmental factors

**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Pre-Training Assessment

Name: _____ (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
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4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

Gain of knowledge for Climate Change Scenario for
Water Resources Sector.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

① Climate Change ② Extreme events of Precipitation.
③ LDF ④ ~~Glacier~~ Glacier retreat



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Bibhor Bista (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

Since, I'm an early career professional in disaster risk and water resource management, I'm hoping that the tool and resources I learn from this training workshop will boost my understanding and interest in this subject matter.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

From my point of view, causes → massive greenhouse gas emissions
→ unpredictability in climate.
main drivers for assessment → precipitation data
→ sediment and debris flow data.
→ temperature.



Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: _____ (optional)

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Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
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4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

→ Learnings, Experience from NDRI
 → Use of Data: Downscaling, downscaling, Bias correction, Handling missing data, Climate Risk assessment.
 → Collaboration for research

7. What do you think are the main drivers or causes of climate risks to water resources projects?

→ Anthropogenic Activities
 → Climate change

Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Nipuna Senarathne (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

To understand the relevance and applicability of modelling tools for climate risk assessment along with their limitations.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

→ Disasters
→ Water availability
→ Uncertainties
But of course the above drivers are heavily dependent on region and type of project.



Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Maria Arjelica P. Ancheta (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

- 1) Technical knowledge on tools
- 2) How the framework can be applied in other parts of the world (e.g. Thailand & Philippines)

7. What do you think are the main drivers or causes of climate risks to water resources projects?

- 1) Rapid urbanization & industrialization



Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: _____ (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
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4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

My main expectation is to get more hand-on-experience on climate data operations.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

*- Lack of implementation of research data on field
- Measures are generally overlooked during project development-phases*



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Pre-Training Assessment

Name: _____ (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
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4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

Acquire a sound knowledge on climate uncertainty and assessment tools. (WECCS-gen tool).

7. What do you think are the main drivers or causes of climate risks to water resources projects?

- ↳ Input data uncertainty*
- ↳ Model uncertainty*
- ↳ Natural phenomenon (sea level rise)*
- ↳ Poor implementation of climate-related policies.*
- ↳ other misc factors (political, socio-economic, etc)*

Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Tanuja (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues, particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios, and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies, especially in water resources management?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

To learn thoroughly about climate models along with hydrological model which will be quite helpful in my PhD research.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

- extreme weather events
- Anthropogenic activities
- unplanned mining activities
-



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Rashan Kasula (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or interest related to climate risk assessment ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

familiarization with CRA tools

7. What do you think are the main drivers or causes of climate risks to water resources projects?

Global warming

Excessive dependency on fossil fuels



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Pre-Training Assessment

Name: Reena Chandhary (optional)

	Low	Average	Good	Very Good	Excellent
Level:	1	2	3	4	5
1. Are you familiar with climate change issues , particularly what the water resources sector is facing?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
2. Do you know about GCMs, Climate Change Scenarios , and methods like climate model output bias corrections and downscaling?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Do you have any prior experience or skills on climate modelling ?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Do you have any prior experience or skills on impact studies , especially in water resources management?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Is your current job or <u>interest related to climate risk assessment</u> ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

6. What are your main expectations from this training workshop?

Learning Climate modelling, Climate Risk Assessment, connecting the climate risk to human vulnerability.

7. What do you think are the main drivers or causes of climate risks to water resources projects?

- Changing global climate change pattern: Adapt!
- Limited implementation of Ecosystem based or NBS
- Lack of proper implementation of Early Warning System in hydro projects.
- Weak Risk assessment, EIA of such water resource projects, limited HM Stations.

8.3 Post-Training Assessment



नेपाल विकास अनुसन्धान प्रतिष्ठान
Nepal Development Research Institute



APN

ASIA-PACIFIC NETWORK FOR
GLOBAL CHANGE RESEARCH

Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Post-Training Assessment

Name: _____ (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....5
Very little Very
relevant relevant

Please give reason for your rating: It was relevant. It would
have been more relevant if the process was
selecting the climate model with incorporated
also with an example.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....5
Too basic Very Much

Please give reason for your rating: _____

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....5
Poor Excellent

Please give reason for your rating: _____

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....5
A little Very much



Please give reason for your rating: _____

5. Do you have any suggestions for improving the training?

Overall, the training is good. It would be better if the training period (days) was more than 4 days.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



Training Workshop on Climate Risk Assessment for Water Resources
Management

Dates: 5-8 February 2024

Post-Training Assessment

Name: PJ (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....5
Very little Very relevant
relevant

Please give reason for your rating: Being a hydropower Engineer, the contents were highly relevant towards my capacity strengthening.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....5
Too basic Very Much

Please give reason for your rating: In some ways, Yes... Elaborated in Question 4.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....5
Poor Excellent

Please give reason for your rating: Everything was okay except slower internet connection and power outages at times.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....5
A little Very much



Please give reason for your rating: _____

The coding experience which I had during the training further added my interest towards coding. And use of coding for ~~my~~ assessing and handling the data on my job will increase my work efficiency in coming days.

5. Do you have any suggestions for improving the training?

Regarding the contents of the training, the time (duration) should have been a bit longer (5-7 days).

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Estimating ^{future} via modelling the flood ~~due to~~ with use of downscaled (using WECCS-Gen tool) precipitation data.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Post-Training Assessment

Name: Rojina Gyamari (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....5
Very little Very relevant

Please give reason for your rating: Various approaches to generate climate models, data operators and the analysis of models were covered which is really appreciable. Further the contents about various tools has enhance my knowledge so, overall impression of the training contents is commendable.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....5
Too basic Very Much

Please give reason for your rating: I got to know about various climate resilient guidelines that will definitely assist me design hydropower components accordingly.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....5
Poor Excellent

Please give reason for your rating: Timely conduction of the training made it more effective. The resource persons and the speakers were well prepared who helped us to solve our queries now and then.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....5
A little Very much



Please give reason for your rating: This training has provided me some useful insights regarding cost effectiveness, climate impact analysis, generating time series of data and predict the results in future. I have intended to use these important insights in my professional career to develop climate resilient water resource infrastructures.

5. Do you have any suggestions for improving the training?

The training was really smooth and effective. It would be great if we had a chance to learn more in depth but due to time limitations, everything we were taught was impactful.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

- Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

I would like to apply the tools/skills to ~~develop~~ generate vulnerability maps to develop climate resilient hydro-power and prevent the structures from getting damaged due to changing climates.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: Roshan Kasula (optional)

1. Your overall impression of the training contents

1.....2.....3.....4/.....5
Very little Very
relevant relevant

Please give reason for your rating: The training contents included presentations, data processing, group exercises etc which improves the overall efficacy of the training.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4/.....5
Too basic Very Much

Please give reason for your rating: Being involved in a project that looks into management of flood (one of the impact of climate change) and the risks associated, I found the training appropriate for job performance improvement.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4/.....5
Poor Excellent

Please give reason for your rating: The training involved good interaction between the trainer and trainee rather than just being limited communication which helps to imbue the skills in the trainees.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4/.....5
A little Very much



Please give reason for your rating: Because the training ^{aligns} ~~completes~~ with the objective of our project, this will definitely make me more effective at my job.

5. Do you have any suggestions for improving the training?

One aspect that I found to hinder mainstreaming the training is the improper preparation for software/application installation. This could be considered pre-hand for future trainings.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

As of present, I can't think of proper area of application but I would love to involve in case studies.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: _____ (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....5
Very little Very
relevant relevant

Please give reason for your rating: _____

→ Relevant contents
→ Appropriate for Himalayan region as a whole.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....5
Too basic Very Much

Please give reason for your rating: _____

As an academic and researcher, the training is found relevant.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....5
Poor Excellent

Please give reason for your rating: _____

→ Handin along with lecture

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....5
A little Very much



Please give reason for your rating: _____

→ It shall help me in developing the research proposal

→ Enhance the collaboration with the regions

5. Do you have any suggestions for improving the training?

→ More time (1 week) is required to fully understand

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

→ Hydropower sustainability in the face of climate change.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: _____ (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....5
Very little relevant Very relevant

Please give reason for your rating: Overall the training contents were comprehensive and encompassed all the things as mentioned in the agenda. The only issue was the problems in the linux environment, which is unavoidable. Nevertheless, the trainer ~~was~~ even provided solutions, which was commendable. The sharing of installation errors in addition to the training contents helped in the smooth flow of the training.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....5 (5)

Too basic Very Much

Please give reason for your rating: Yes. Why not? The tools and provided codes will certainly help speed up the climate data preparation and analysis task. Also, the bottom-up approach in climate risk assessment was new knowledge addition.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....5 (4)

Poor Excellent

Please give reason for your rating: We were participants from diverse academic and professional background. The training was mostly about climate change, its analysis and practices implications on hydrology & impact on generation, but mostly revolved around the impact of climate change. Some presentations could be more about general terms/arguments used in climate science for those having minimal comprehension.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....5 (4)

A little Very much



Please give reason for your rating: *Yes for the climate change data preparation and analysis part - the training will definitely enhance my performance. For the hydrological model, there are more powerful models than HBN. However, it ~~was~~ really enhanced ^{my understanding of} the working principle of yet another hydrological model. For the rest models & economic analysis personally more ^{understanding is} required to really ~~comment~~ provide comments.*

5. Do you have any suggestions for improving the training?

(Some bugs and errors ^{and slow internet} slowed down the pace of the training in some instances, which is inevitable and a great learning opportunity for both parties. However, in order to consider & accommodate such delays, a small timeframe should be ~~at~~ allotted. Overall it was a great learning experience!!)

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

- Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Post-Training Assessment

Name: _____ (optional)

1. Your overall impression of the training contents

1.....2.....3.....4..........5
Very little Very relevant
relevant

Please give reason for your rating: Training equipped ^{new skill} to handle changing climate and be able to forecast future scenario through analysis (data - precipitation and temperatures). It will help me visualize future scenario.

2. Was the training appropriate for your job performance improvement?

1.....2.....3..........4.....5
Too basic Very Much

Please give reason for your rating: I ~~am~~ ^{have been} employed in the sector of hydropower design. It will help me to handle future precipitation data to calculate river discharge and its effect on power generation.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4..........5
Poor Excellent

Please give reason for your rating: ~~The~~ The way of presentation and guidance during python coding and over-come errors during modelling. Clear concept about model and their output and results.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4..........5
A little Very much



Please give reason for your rating: It will upgrade my professional capacity of sun-off analysis and discharge calculation. Additionally, it will help to analyze risk analysis due to flood in future period.

5. Do you have any suggestions for improving the training?

if technical sessions extend additional 1-2 days, it will improve technical knowledge and well capacity to handle analysis tool.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Using this skill, I will prepare future river sun-off and impact on water available in particular basin.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: _____ (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....**5**
Very little Very
relevant relevant

Please give reason for your rating: the training contents include
the data acquiring, processing and practice based
case analysis regarding the impact analysis.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....**5**
Too basic Very Much

Please give reason for your rating: The training enhanced the
performance of my job regarding the matters
and impact mitigation measure.

3. Your overall impression the way the training was conducted?

1.....2.....3.....**4**.....5
Poor Excellent

Please give reason for your rating: knowledgefull trainer.
* standard guidelines
* good Environment

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....**5**
A little Very much



Please give reason for your rating: * Data acquisition on CC
* Data processing
* Implement on real project
impact analysis.

5. Do you have any suggestions for improving the training?

* Need some more practice based hands on
exercise.
*

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

water availability and drought analysis in the Irrigation
system of Nepal.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: _____ (optional)

1. Your overall impression of the training contents

1.....2.....3.....(4).....5
Very little Very
relevant relevant

Please give reason for your rating: The training covered quite
well various aspects to be considered during the
climate models hydrological studies or considering
the climate change.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....(4).....5
Too basic Very Much

Please give reason for your rating: I think the training will defe-
nitely be helpful to improve the my performance
in doing various studies and design considerations.

3. Your overall impression the way the training was conducted?

1.....2.....3.....(4).....5
Poor Excellent

Please give reason for your rating: The training was better the presentations
and the handon practice. Therefore it was quite
helpful in understanding the training contents and
various tools.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....(4).....5
A little Very much



Please give reason for your rating: Yes, understanding these various tools as well as the concepts will definitely improve my performance as well as the effectiveness in my job

5. Do you have any suggestions for improving the training?

Sometimes presentations were quite small while ~~many~~ doing the hands on practice which was quite difficult to see. It would be better if these are considered in future sessions. Other than that I am quite satisfied with the workshop.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Applications of this tool in finding out the morphological change and sediment analysis in river basin

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



Training Workshop on Climate Risk Assessment for Water Resources Management

Dates: 5-8 February 2024

Post-Training Assessment

Name: Farina Shahit (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....5
Very little Very relevant
relevant relevant

Please give reason for your rating: The contents of the training is relevant.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....5
Too basic Very Much

Please give reason for your rating: Yes the training is appropriate for my job performance improvement. I can use it in my research and utilization of the knowledge to the students as project work.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....5
Poor Excellent

Please give reason for your rating: Less Lectures period with more hands on exercise enhance to do working on the given assessment. but the error loading the spider disturbed in hands on exercise.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....5
A little Very much

calibration and downscaling



Please give reason for your rating: _____

5. Do you have any suggestions for improving the training?

As I approached more error during the training period. that should be discussed in the 1st Day such that we may able to do practice or hands on exercise early and smoothly.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

As I am doing research in Keligandaki watershed (KGRB) the climate risk analysis in KGRB

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



Training Workshop on Climate Risk Assessment for Water Resources
Management

Dates: 5-8 February 2024

Post-Training Assessment

Name: Sudesh Lal Maskey (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....5 ✓
Very little Very
relevant relevant

Please give reason for your rating: Very relevant as the climate
change has actually impacted the current scenarios
in overall Nepal.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....5
Too basic Very Much

Please give reason for your rating: Much needed climate data
extracting and downscaling for required for the
hydrological model was acquired.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....5
Poor Excellent

Please give reason for your rating: Very smooth.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....5
A little Very much



Please give reason for your rating: Very effective training as a hydrological modeller.

5. Do you have any suggestions for improving the training?

Very happy. however, early familiarity of the topic was necessary especially for programming.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Climate change scenario in Solu Khola (Dudh Koshi) HEP (86MW) in Energy generation.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



Training Workshop on Climate Risk Assessment for Water Resources
Management

Dates: 5-8 February 2024

Post-Training Assessment

Name: _____ (optional)

1. Your overall impression of the training contents

1.....2.....3. ✓.....4.....5
Very little Very
relevant relevant

Please give reason for your rating: _____

2. Was the training appropriate for your job performance improvement?

1.....2.....3. ✓.....4.....5
Too basic Very Much

Please give reason for your rating: _____

3. Your overall impression the way the training was conducted?

1.....2.....3.....4. ✓.....5
Poor Excellent

Please give reason for your rating: Trainers tried their best-

to teach but complicated content-

4. Will the training enable you to be more effective at your job?

1.....2. ✓.....3.....4.....5
A little Very much



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Please give reason for your rating: _____

5. Do you have any suggestions for improving the training?

Hands on training were too compacted.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: _____ (optional)

1. Your overall impression of the training contents

1 2 3 4 ✓ 5
Very little Very
relevant relevant

Please give reason for your rating: _____

2. Was the training appropriate for your job performance improvement?

1 2 3 4 ✓ 5
Too basic Very Much

Please give reason for your rating: knew about climate change
Scenarios.

3. Your overall impression the way the training was conducted?

1 2 3 4 5 ✓
Poor Excellent

Please give reason for your rating: Code sharing through whatsapp
very good. The R.P.s very active to solve problem.

4. Will the training enable you to be more effective at your job?

1 2 3 4 ✓ 5
A little Very much



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Please give reason for your rating: _____

5. Do you have any suggestions for improving the training?

Installation manual for software should be
earlier (prior at least 3 days) to actual training
starting schedule.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: _____ (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....5
Very little Very relevant
relevant

Please give reason for your rating: Content are relevant to my
research.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....5
Too basic Very Much

Please give reason for your rating: I know a wide variety of
tools to do CC projections & downscaling

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....5
Poor Excellent

Please give reason for your rating: _____

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....5
A little Very much



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Please give reason for your rating: _____

5. Do you have any suggestions for improving the training?

for the software tutorial, zoom meeting room may be used so that participants can see screen better & can record sessions.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: _____ (optional)

1. Your overall impression of the training contents

1.....2.....3.....4 ✓.....5
Very little relevant Very relevant

Please give reason for your rating: Use and learning of tools
that could simplify the working environment

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4 ✓.....5
Too basic Very Much

Please give reason for your rating: related to sector

3. Your overall impression the way the training was conducted?

1.....2.....3.....4 ✓.....5
Poor Excellent

Please give reason for your rating: _____

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4 ✓.....5
A little Very much



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Please give reason for your rating: Training relevant to my sector

5. Do you have any suggestions for improving the training?

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: Nipuna Senaratne (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....**5**
Very little Very
relevant relevant

Please give reason for your rating: As a university student engaged in climate change/resilience research, the content of the workshop will come in very handy for my work. The content is also very up to date and practical.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....**5**
Too basic Very Much

Please give reason for your rating: The workshop gave a lot of insight on the potential of software tools for water management. I believe this will be quite useful for my work.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....**5**
Poor Excellent

Please give reason for your rating: The entire workshop was well planned and executed.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....**5**
A little Very much



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Please give reason for your rating: Use of programming tools for climate change/water management applications ~~was~~^{is} a weak point for many practitioners. This workshop will provide a good launch pad to improve these skills.

5. Do you have any suggestions for improving the training?

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

The workshop content can be used in my thesis.
Specifically, ~~on~~ handling and bias-correcting climate data.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: _____ (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....5
Very little Very
relevant relevant

Please give reason for your rating: This will help to imply the
methodology in agricultural product analysis.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....5
Too basic Very Much

Please give reason for your rating: This may improve my ability
to analyse impact of climate change in other
projects.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....5
Poor Excellent

Please give reason for your rating: The training was very interactive.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....5
A little Very much



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Please give reason for your rating: I will be able to use the data and methods in other studies.

5. Do you have any suggestions for improving the training?

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: Abhash Adhikari (optional)

1. Your overall impression of the training contents

1 2 (3) 4 5
Very little relevant Very relevant

Please give reason for your rating: Could have been organized minutely in details like from scratch, since most of us were not familiar with programming. Overall the contents were excellent.

2. Was the training appropriate for your job performance improvement?

1 2 (3) 4 5
Too basic Very Much

Please give reason for your rating: Yes, I will try to use climate change data into river training projects as other water resources projects.

3. Your overall impression the way the training was conducted?

1 2 (3) 4 5
Poor Excellent

Please give reason for your rating: Same as reason 1

4. Will the training enable you to be more effective at your job?

1 2 (3) 4 5
A little Very much

Please give reason for your rating: Same as reason 2

5. Do you have any suggestions for improving the training?

Yes, I suggest to focus more on the each &
every details from scratch. The contents
were pretty good in overall.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Flood hazard & fire risk mapping in
any of the river basins as well as Integrated lake basin
management (ILBM) of city lakes of Nepal.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: Crish Basnet. (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....5 ✓
Very little Very
relevant relevant

Please give reason for your rating: It was upto my
expectations. Extension ve tools were taught
in details. considering time.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4 ✓.....5
Too basic Very Much

Please give reason for your rating: climate data operation
is of high utility for me and weather
generation tool was also quite useful.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....5 ✓
Poor Excellent

Please give reason for your rating: Considering the time and
inputs imparted was quite impressive. Very
well distribution of sessions and contents.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4 ✓.....5
A little Very much



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Please give reason for your rating: _____

5. Do you have any suggestions for improving the training?

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

If i can arrange time for future, i may
be doing for a ^{changes in} hydrological flow regime.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: Ajaya Karmacharya (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....5 ✓
Very little Very
relevant relevant

Please give reason for your rating: The training contents depicted the burning issues of today and provided advantageous guidelines for betterment of them in the future.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....5 ✓
Too basic Very Much

Please give reason for your rating: Improving the quality of future data for flood and flow prediction is vital for my professional background in hydropower.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4 ✓.....5
Poor Excellent

Please give reason for your rating: The training ran in a smooth and timely manner throughout the 4 day period with excellent content but had some hindrance during programming period.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....5 ✓
A little Very much



Please give reason for your rating: Simulation and improvement of
data will bring positive change during designing
phase of project.

5. Do you have any suggestions for improving the training?

Except the technical issues in the program which
slowed the working environment, the training was
a fruitful experience.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Change in precipitation and flow data for prediction of
Energy output of Hydropower projects in the future.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: Susa Manandhar (optional)

1. Your overall impression of the training contents

1 2 3 4 5
Very little relevant Very relevant

Please give reason for your rating: _____

2. Was the training appropriate for your job performance improvement?

1 2 3 4 5
Too basic Very Much

Please give reason for your rating: Yes, since I work in the sector of climate change and looking at streamflow of Langtang with future scenarios and changes in glaciers configuration.

3. Your overall impression the way the training was conducted?

1 2 3 4 5
Poor Excellent

Please give reason for your rating: Yes, resource person were very patient and addressed each and every errors and issues

4. Will the training enable you to be more effective at your job?

1 2 3 4 5
A little Very much



नेपाल विकास अनुसन्धान प्रतिष्ठान
Nepal Development Research Institute



APN ASIA PACIFIC NETWORK FOR
GLOBAL CHANGE RESEARCH

Please give reason for your rating: _____

5. Do you have any suggestions for improving the training?

*Hands on exercise and introduction of new tools
require a longer training period.
→ extend the training period
→ slower introduction of tools.*

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

*→ For Longkong → Bias-correction for Reanalysis data
→ compare result of CRHM and [WebETM] in HBV
→ Produced climate scenarios*

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: _____ (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....**X**.....5
Very little Very
relevant relevant

Please give reason for your rating: The climate change is the
most relevant scenario for all of the
participants. However how the hydro-
power is not quite relevant to all and
this is not presented very openly. (It may be too

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....**X**.....5
Too basic Very Much

Please give reason for your rating: yes definitely improve,
currently we working on climate-induced
disaster management & it is very useful.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....**X**.....5
Poor Excellent

Please give reason for your rating: The hands on are very
familiar, resource persons are very
friendly.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....**X**.....5
A little Very much



Please give reason for your rating: yes it definitely opens
more research opportunity.

5. Do you have any suggestions for improving the training?

It was great training. The Installation
process take quite long.

* My suggestion is Before training conduct
online session for Installation.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

on landslide and disaster management
upper set.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: TANUKTA (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....5
Very little Very
relevant relevant

Please give reason for your rating: The climate change issue
is of great concern and we got a lot of
information on the various topic associated
with this in this training session

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....5
Too basic Very Much

Please give reason for your rating: Being a research scholar
it is imperative to have the knowledge
about climate modelling, hydrological modelling
and risk assessment as well

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....5
Poor Excellent

Please give reason for your rating: It was held in a
good way.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....5
A little Very much



Please give reason for your rating: Yes, it will enhance my
concepts or the clarification regarding my
research topic.

5. Do you have any suggestions for improving the training?

The overall sessions were good. The material
was vast and the days were less, so you can
extend the period. There were participants from different
organizations, ^{backgrounds} so there should be a separate time or session
for the basic installation of software.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

Not yet.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: Bishor Bista (optional)

1. Your overall impression of the training contents

1.....2.....3.....4.....5
Very little relevant Very relevant

Please give reason for your rating: The training content was very relevant in terms of the climate change emergency and urgency. It would have been great if the training was a little longer (maybe two weeks) so we could go through each step on a detailed manner.

2. Was the training appropriate for your job performance improvement?

1.....2.....3.....4.....5
Too basic Very Much

Please give reason for your rating: With the knowledge of climate change and its impacts on water resources, this training has provided me with more motivation to pursue my further studies and career in this field.

3. Your overall impression the way the training was conducted?

1.....2.....3.....4.....5
Poor Excellent

Please give reason for your rating: If videos related to the basic foundational ideas were uploaded and provided to participants beforehand, we could have prepared and hence would have made this training more fruitful. Apart from that, all things were pretty good.

4. Will the training enable you to be more effective at your job?

1.....2.....3.....4.....5
A little Very much



Please give reason for your rating: Currently, I'm involved in UAV mapping.
The data collected from satellite has immense possibilities. And this realization will surely encourage me more to invest my time and effort in studies related to remote sensing and GIS.

5. Do you have any suggestions for improving the training?

The training was just for 4 days. Due to time constraint, presenter had to rush, which has caused many confusions and knowledge voids in between. Hence, a technical training with this vast amount of new information should be conducted for two weeks with detailed step by step procedures.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

I visited Iso Rolpa in 2021 and from then onwards got interested in G10F and water induced disaster. would be lovely to try the tools in case study of Tamahoshi Riverbasin.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!



**Training Workshop on Climate Risk Assessment for Water Resources
Management**

Dates: 5-8 February 2024

Post-Training Assessment

Name: _____ (optional)

1. Your overall impression of the training contents

1 2 3 4 (5)
Very little relevant Very relevant

Please give reason for your rating: Was very relevant for my work as well as subject of interest. The training has increased my knowledge regarding the topic and the scope for research in climate change impacts. Lastly the resource person were very help full in addressing all queries that I had.

2. Was the training appropriate for your job performance improvement?

1 2 3 4 (5)
Too basic Very Much

Please give reason for your rating: Yes, as I currently work in the field related to water and climate. The training has vastly increased the intake of data and methods, I can employ in to the different various data related to climate.

3. Your overall impression the way the training was conducted?

1 2 3 4 (5)
Poor Excellent

Please give reason for your rating: Very Good.

4. Will the training enable you to be more effective at your job?

1 2 3 4 (5)
A little Very much



Please give reason for your rating: Same as question 2, please refer
there for answer.

5. Do you have any suggestions for improving the training?

No. This type of training should extend the time from
4 days to about a week to sink the knowledge and have
enhanced learning environment.

5. Are you interested in doing a short case study on the applications of the tools/skills you learned in the next 2 months? This will be part of the APN project final report.

Yes No Maybe

If yes, or maybe, what will be the main area of your application or case study? If you have an idea only.

The field or area of application can be significant of storage
by a business in minimizing the adverse impact due to climate change.

Please indicate your impressions of the items listed below.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The training met my expectations.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. The training enhanced my knowledge about the subject.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The training objectives for each topic were well defined and followed.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The contents were well organized and easy to follow.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable/good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The quality of delivery was good.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

THANK YOU FOR YOUR PARTICIPATION!