

2023
2027



Five Years of Action
for the Development of
Mountain Regions



Mountain Partnership

IPROMO 2026

Glaciers: understanding, preserving
and adapting to climate change

Naryn, Kyrgyzstan | 23 June –7 July 2026



Organization for Security and
Co-operation in Europe



UNIVERSITY
OF CENTRAL ASIA



Istituto di Ricerca per la Protezione Idrogeologica





About the course

Recognizing the urgency of glacier loss in Central Asia – where more than 50 percent of glaciers could disappear by 2050, threatening water and food security for over 64 million people – the University of Central Asia (UCA) and the Organization for Security and Co-operation in Europe (OSCE) are hosting a dedicated Central Asia module within the framework of the Mountain Partnership. The course will also contribute to the UN Decade of Action for Cyrospheric Sciences (2025-2034).

The course will provide participants with a comprehensive understanding of sustainable mountain development, with a strong focus on glacier preservation and the security dimensions of climate change and water management in the region. It will combine scientific knowledge with policy, technical and community-based approaches to support effective adaptation and mitigation strategies as well as regional cooperation and networks.

The IPROMO Central Asia Summer School will focus on strengthening technical and institutional capacity and cooperation on sustainable mountain development and glacier preservation. The course will also support regional cooperation by fostering dialogue on transboundary water management, climate diplomacy and shared resource management.

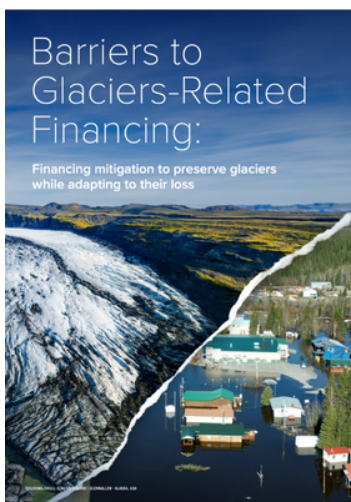
Lectures, case studies, group work and field activities will explore climate change in mountain regions, glacier preservation and their critical interlinkages with water management, food systems, biodiversity and livelihoods.

Supporting materials



Glaciers and mountains: The food, water security and livelihoods nexus

This technical brief examines the links between glaciers, agriculture and livelihoods, drawing on evidence from the Andes, Himalaya, Central Asia and beyond. It highlights the potential of sustainable mountain farming to restore ecosystems, conserve resources and build resilience.



White Paper: Barriers to Glaciers-Related Financing

This report examines the unique barriers that hinder financing for glacier-related mitigation and adaptation, and begins to identify pathways to mobilize public and private investment to safeguard the world's "water towers" and the communities that rely on them.



Regional co-operation strategy on climate change and security in Central Asia's high mountain areas

This strategy presents a set of ideas for regional co-operation to jointly address climate-related security risks in Central Asia's high mountain areas. It is an output of the extra-budgetary project "Strengthening responses to security risks from climate change in South-Eastern Europe, Eastern Europe, the South Caucasus and Central Asia", implemented by OSCE, in partnership with the Berlin-based think-tank Adelphi.

Agenda

Day	Topics/ presentations	Instructors	Venue
<p>23 June Tuesday</p> <p>full day</p>	<p>Arrival of participants and first round of lecturers</p> <p>Transfer: BISHKEK to NARYN</p>		<p>Naryn</p>
<p>24 June Wednesday</p> <p>morning</p>	<p>Welcome remarks</p>	<p>Christopher J Gerry, Rector, University of Central Asia (UCA)</p> <p>H.E. Dinara Kemelova, Ambassador, Special Representative of the President of the Kyrgyz Republic on the mountain agenda, Kyrgyzstan</p> <p>Oleg Guchgeldiyev, FAO Representative of Kyrgyzstan, Food and Agriculture Organization of the United Nations (FAO) Kyrgyzstan</p> <p>Dmitry Prudtskikh, Acting Head of Economic and Environmental Activities, OSCE Programme Office in Bishkek</p> <p>Thomas Hofer, Mountain Partnership Secretariat (MPS), FAO</p>	<p>Naryn</p>
	<p>Overview of the IPROMO Summer School</p>	<p>Michele Freppaz, Department of Agricultural, Forest and Food Sciences (DISAFA), University of Turin</p> <p>Danilo Godone, National Research Council, Research Institute for Hydrogeological Prevention and Protection (CNR IRPI)</p>	

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<p>24 June Wednesday</p> <p>morning</p>	<p>Overview of the Mountain Partnership</p>	<p>Thomas Hofer, MPS, FAO</p>	<p>Naryn</p>
	<p>Overview of UCA and the science topics</p> <p>Introduction to the science topics and establishment of working groups</p> <p>Brief participant presentations</p>	<p>Denis Samyn, UCA</p>	
<p>24 June Wednesday</p> <p>afternoon</p>	<p>Understanding sustainable mountain development</p>	<p>Thomas Hofer, MPS, FAO</p>	<p>Naryn</p>
<p>25 June Thursday</p> <p>full day</p>	<p>What are glaciers: How the changes of the cryosphere are impacting water, society and the role of international frameworks</p> <p>Overview of the cryosphere in Central Asia (1.5 hrs)</p> <p>The Anthropocene and Planetary Boundaries (1.5hrs)</p>	<p>Miriam Jackson, Norwegian Water</p> <p>Denis Samyn, UCA</p>	<p>Naryn</p>
<p>26 June Friday</p> <p>morning</p>	<p>Emerging proglacial landscapes following glacier retreat: soil diversity and ecosystem dynamics</p>	<p>Michele Freppaz, DISAFA, University of Turin</p>	<p>Naryn</p>
<p>26 June Friday</p> <p>afternoon</p>	<p>Geo-hydrological risks at high altitude and climate change: impacts, monitoring and new scenarios</p> <p>Assessing the exposure of hydropower schemes to natural hazards in Central Asian mountain region</p>	<p>Danilo Godone, CNR IRPI</p> <p>Hans-Balder Havenith, University of Liege</p>	<p>Naryn</p>

Day	Topics/ presentations	Instructors	Venue
<p>27 June Saturday</p> <p>morning</p>	<p>Impact of climate change on water balance and contribution of runoff components: insights from high-resolution modelling (1.5 hrs)</p> <p>Spatio-temporal assessment of hydropower potential using hydrological simulations (1.5 hrs)</p>	<p>Sanjar Sadyrov, UCA</p>	<p>Naryn</p>
<p>27 June Saturday</p> <p>afternoon</p>	<p>Participants presentations: country experiences, key challenges and capacity needs</p>	<p>Denis Samyn, UCA</p>	<p>Naryn</p>
<p>28 June Sunday</p> <p>full day</p>	<p>Field trip Lake Song-Kol</p>		<p>Naryn</p>
<p>29 June Monday</p> <p>full day</p>	<p>Systemic analysis of glacier-related risks in mountains: a participatory tool to identify measures of DRR and CCA and an analysis of risk propeller implications</p>	<p>Paola Fontanella Pisa, Eurac GLOMOS</p> <p>Stefan Schneiderbauer, Eurac GLOMOS</p>	<p>Naryn</p>
<p>30 June Tuesday</p> <p>morning</p>	<p>From monitoring to policy: How cryosphere science supports disaster risk reduction and climate adaptation in high mountain areas</p>	<p>Larissa Kogutenko, UNESCO, Mountain Biosphere</p>	<p>Naryn</p>

Day	Topics/ presentations	Instructors	Venue
<p>30 June Tuesday</p> <p>afternoon</p>	<p>Impact of climate change on natural resources in the Naryn and Batken provinces of Kyrgyzstan: comparing two regions (1 hrs)</p> <p>Adapting to drought: Climate change and agricultural resilience in Batken, Kyrgyzstan (1hrs)</p> <p>Case study: Ferghana Valley (1hrs)</p>	<p>Maksim Kulikov, Mountain Societies Research Institute, UCA</p> <p>Asel Murzakulova, Mountain Societies Research Institute, UCA</p>	<p>Naryn</p>
<p>1 July Wednesday</p> <p>full day</p>	<p>Glacier-water-food and forestry nexus: Contributions of glaciers to water security, ecosystems and food systems in mountain and lowland areas</p>	<p>Sara Casallas Ramirez, FAO</p>	<p>Naryn</p>
<p>2 July Thursday</p> <p>morning</p>	<p>The science of glacier formation: process, dynamics and mountain cryosphere</p>	<p>Suryanarayanan Balasubramanina, Acres of Ice</p>	<p>Naryn</p>
<p>2 July Thursday</p> <p>afternoon</p>	<p>Case study from the field: Automated ice reservoirs to address mountain water scarcity</p>	<p>Suryanarayanan Balasubramanina, Acres of Ice</p>	<p>Naryn</p>
<p>3 July Friday</p> <p>morning</p>	<p>Climate change and security: What is the link?</p> <p>Central Asia in focus: climate security hotspots mapping</p>	<p>Clement Iraola, Adelphi</p> <p>Mary Potts, Adelphi</p>	<p>Naryn</p>

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<p>3 July Friday</p> <p>afternoon</p>	<p>Climate security assessment: Ferghana valley case study</p>	<p>Clement Iraola, Adelphi</p> <p>Mary Potts, Adelphi</p> <p>Patrizia Albrecht, OSCE</p>	<p>Naryn</p>
<p>4 July Saturday</p> <p>morning</p>	<p>Climate-Security Programming: input and case study exercise</p> <p>Simulation: negotiating a water treaty</p>	<p>Clement Iraola, Adelphi</p> <p>Mary Potts, Adelphi</p> <p>Patrizia Albrecht, OSCE</p>	<p>Naryn</p>
<p>4 July Saturday</p> <p>afternoon</p>	<p>Simulation debrief</p> <p>Start, Stop, Continue: reflection</p>	<p>Clement Iraola, Adelphi</p> <p>Mary Potts, Adelphi</p>	<p>Naryn</p>
<p>5 July Sunday</p> <p>full day</p>	<p>Field trip Tash Rabat</p>		<p>Naryn</p>
<p>6 July Monday</p> <p>morning</p>	<p>Mountains and glaciers in global and UN frameworks: governance, regional advocacy and the UN Decade of Action on Cryospheric Sciences</p> <p>Working groups</p>	<p>Patrizia Albrecht, OSCE</p> <p>Sara Manuelli, MPS</p>	<p>Naryn</p>

Day	Topics/ presentations	Instructors	Venue
6 July Monday afternoon	Final presentations and closing ceremony	Sara Manuelli, MPS Patrizia Albrecht, OSCE Denis Samyn, UCA	Naryn
7 July Tuesday morning	Transfer Naryn to Bishkek		Naryn

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Dipartimento di
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Forestali e Alimentari



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