



Professor Maria Shahgedanova  
on behalf of the MRI network

**Facilitating data provision in the TPRCC region**

**The Mountain Research Initiative**

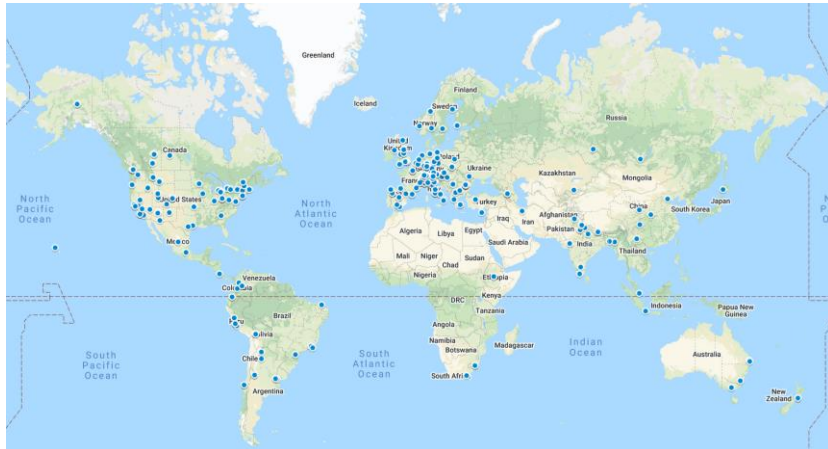
[www.mountainresearchinitiative.org](http://www.mountainresearchinitiative.org)

# THE MRI NETWORK

The MRI and its Coordination Office was proposed in 2000 by the then International Geosphere Biosphere Programme (IGBP) of the International Council for Science (ICSU), together with the International Human Dimensions Programme (IHDP) of the International Social Science Council and the FAO/UNEP/UNESCO/WMO/ICSU-sponsored Global Terrestrial Observation System (GTOS), in response to a need to ...

*“...achieve an **integrated approach** for observing, modelling and investigating global change phenomena and processes **in mountain regions**, including the impacts of these changes and of human activities on mountain ecosystems”.*

The MRI is hosted by the **Centre for Development and Environment (CDE)** at the University of Bern and funded by the **Swiss Academy of Sciences (SCNAT)**.



**Priority regions:**  
**Central Asia, Hindu**  
**Kush – Himalayas,**  
**Caucasus, East Africa,**  
**tropical and**  
**subtropical Andes**

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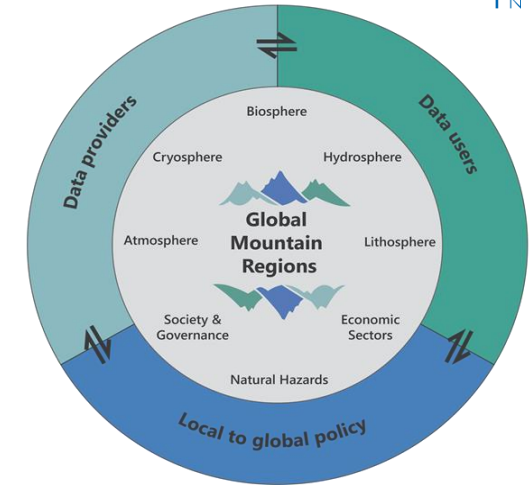
**Dr. Carolina Adler**  
Executive Director  
Mountain Research Initiative

**Executive  
Director**

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# MRI activities in TPRCC region

- **Facilitation of long-term multi-disciplinary monitoring and data acquisition and provision**
- **Strengthening mountain resilience and adaptive capacity through the reduction of risks and improved mountain governance**
- **Capacity building and education**
  - Regional workshops: identification of network-level research issues, gaps in knowledge
  - Funding research projects focusing on data acquisition and provision, reducing risks and strengthening resilience



## 2023-24: Extreme events and risk assessments in TPRCC region

(<https://geomountains.org/projects-impact-stories/small-grants-projects/>)

- Curation of Risk Data for High Mountain Asia (HiRISK)
- Central Asia Mountain Observatory Network (CAMON): Provision of data on GLOF and pluvial debris flows in Central Asia

## 2024-25

- Monitoring of glaciers in the Karakoram with special emphasis on water demand and management (STREAM)
- Risk assessment for hydropower projects from rock and/or ice avalanches in High Mountain Asia (REACH)
- Long-term monitoring of snow accumulation and related climate variables at a high-altitude cryospheric research site in Bhutan



# Curation of Risk Data for High Mountain Asia

HiRISK @ <https://hirisk.org/>

Expert Database



Risk Assessments



Risk data resources



Technical Documents



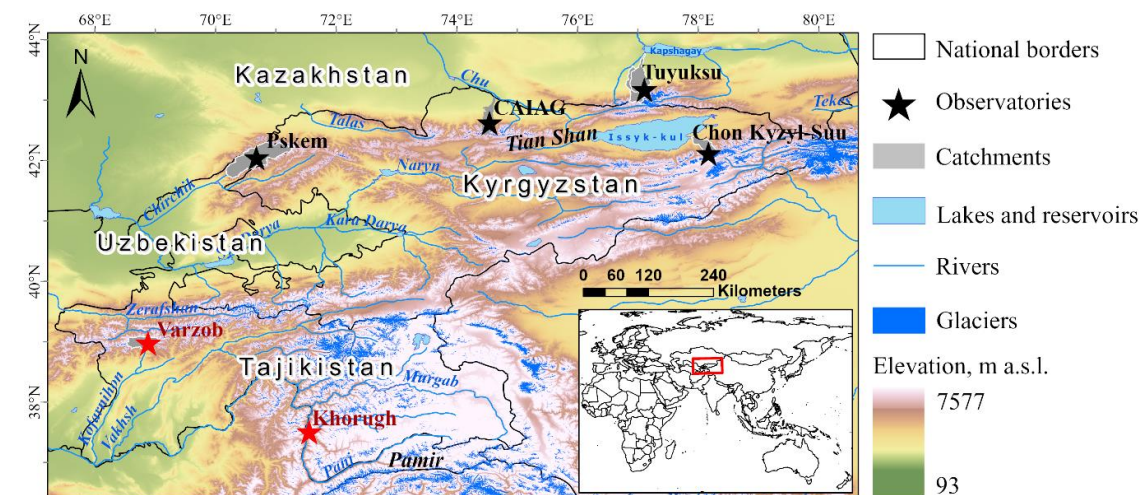
Event	Year / Month	Language	Country	Type	Report
PK1	2024 / 3	Urdu, English	Pakistan	Snow avalanche	<a href="#">Naran snow avalanche, Pakistan, March 2024</a>
NP1	2024 / 4	Nepali, English	Nepal	Ice avalanche, GLOF	<a href="#">Birendra Lake ice avalanche, Nepal, April 2024</a>
PK2	2024 / 6	Burushaski, Urdu, English	Pakistan	GLOF	<a href="#">Dih GLOF, Pakistan, June 2024</a>
PK3	2024 / 8	Pashto, English	Pakistan	GLOF	<a href="#">Kumrat GLOF, Pakistan, August 2024</a>
IN1	2024 / 11	Hindi, English	India	Landslide	<a href="#">Kunwari Landslide, India, 2022 – 2024</a>

- Consortium of universities in TPRCC region led by HUC
- Multi-hazard data an assessments
- Reports on individual events and annual reports for TPRCC region
- Views from TPRCC on using HiRISK platform for provision of data and adaptation are invited
- **Contact: Dr Jacob Steiner**  
([jakob.steiner@uni-graz.at](mailto:jakob.steiner@uni-graz.at))

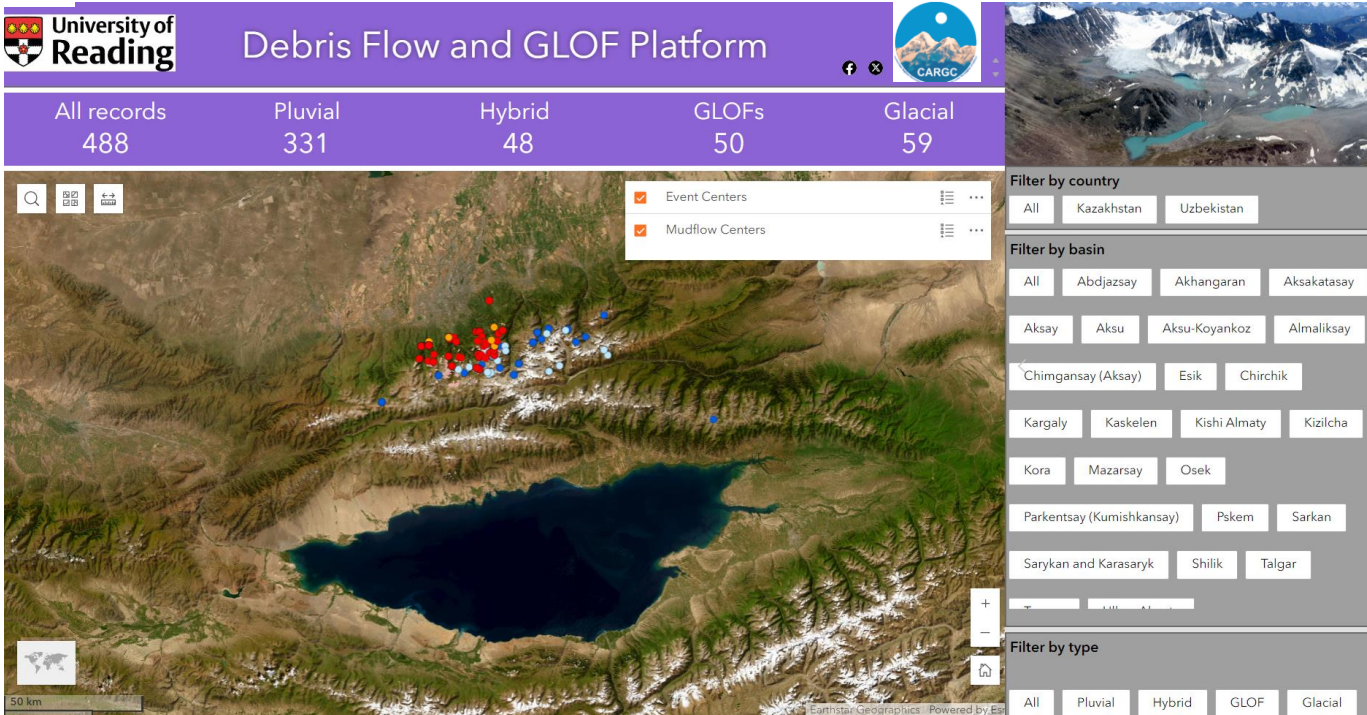
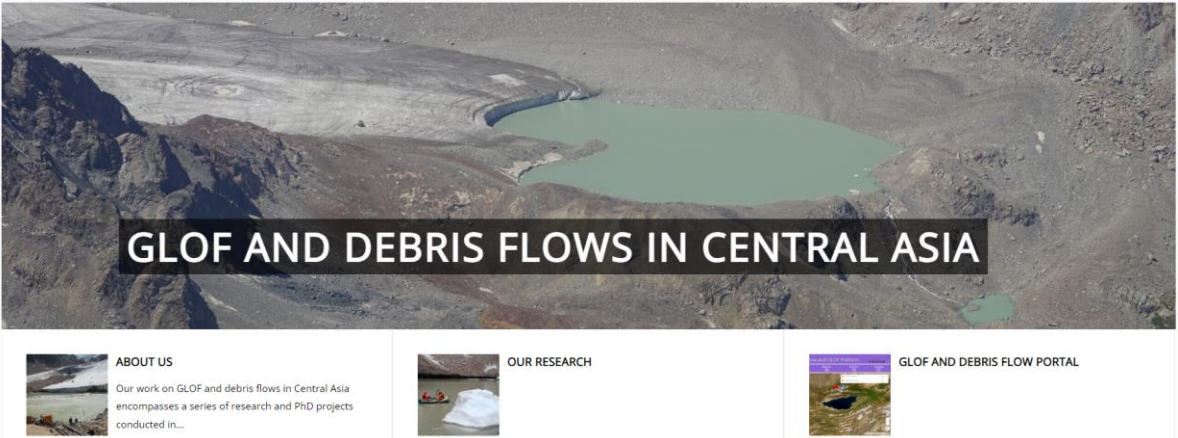
Subscribe for reports: <https://hirisk.org/risk-assessments/>



# Central Asia Mountain Observatories Network (CAMON)



<https://research.reading.ac.uk/central-asia-mountain-observatory/>

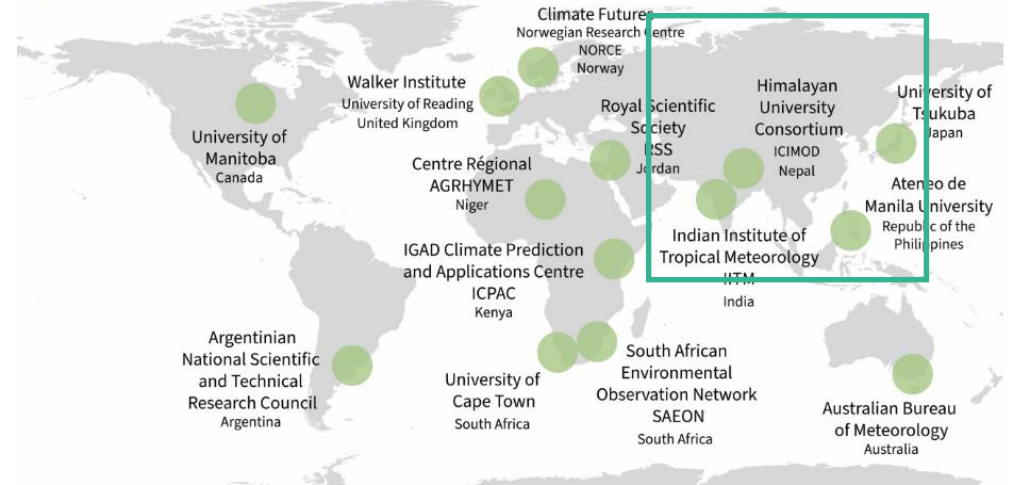


<https://research.reading.ac.uk/GLOF-predicting-debris-flow/>

# Collaborative efforts

- MRI collaborates with multiple institutions worldwide
  - HUC and ICIMOD
  - Walker Institute for Climate System Research @ University of Reading: World Climate Research Programme activity '**My Climate Risk**' (<https://walker.reading.ac.uk/my-climate-risk/>)

## My Climate Risk Regional Hubs



## Forthcoming events

- High-level Conference: International Year for Glaciers Preservation, Dushanbe, Tajikistan, June 2025. <https://www.un-glaciers.org/en>
  - Will TPRCC consider a side event?
- International Mountain Conference, September 2025, Innsbruck, Austria
  - Several sessions and workshops proposed by MRI. TPRCC participation and contributions are welcome.





# Thank you

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