

GEO Mountains Task Group 2.2



Contribute to the MRI's existing Mountain Observatories (MOs) and Elevation Dependent Climate Change (EDCC) Working Groups to support the development of a Unified High Elevation Platform (UHOP) and a global network of Mountain Observatories

Meeting #1, 27 January 2022



Housekeeping



- Kindly mute yourselves when not speaking
- Please “raise your hand” to request the floor
- The meeting is being recorded
- Brief notes will be circulated afterwards

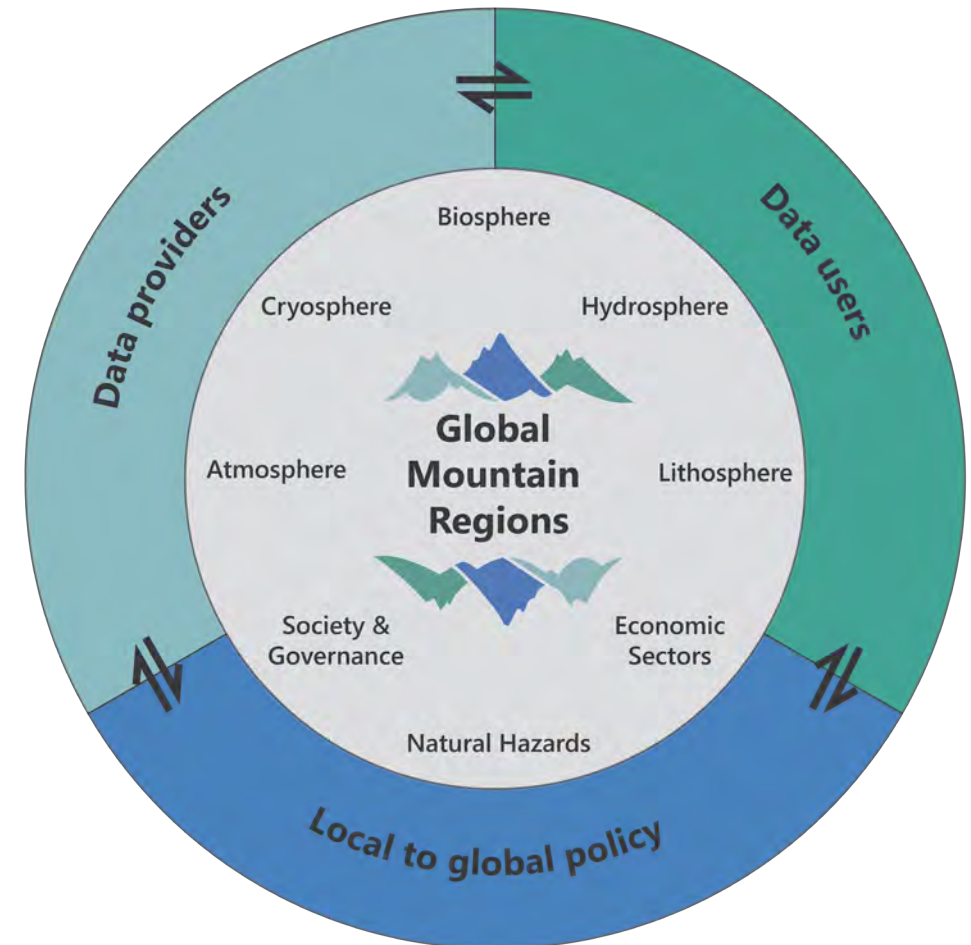
GEO Mountains: an introduction

The Global Network for Observations and Information in Mountain Environments

An Initiative of the Group on Earth Observations (GEO) co-lead by the Mountain Research Initiative (MRI) & the National Research Council of Italy

Objectives:

- ❑ To identify and satisfy the data and information needs of a diverse range stakeholders operating in the mountain sphere
- ❑ **To improve monitoring and understanding of mountain processes and phenomena, especially under change**
- ❑ To build, connect, and communicate with the community of mountain researchers, practitioners, and policy makers
- ❑ To develop collective reporting capacity that responds to pre-identified assessment and policy needs



Task Groups



Number	Description	Number of participants
1.1a	Develop, maintain, and share a list of relevant datasets	31
1.1b	Develop and maintain a list of interdisciplinary in situ mountain observational infrastructure and associated datasets	20
1.2	Contribute to our series of regional workshops / consultations into data portal requirements and main data needs / gaps	24
1.4	Contribute Knowledge Packages via GEO Mountains to the GEO Knowledge Hub	20
2.1	Analyse the extent to which data from mountain observatories are freely available, and which measurement protocols are followed	14
2.2	Contribute to the MRI's existing Mountain Observatories (MOs) and Elevation Dependent Climate Change (EDCC) Working Groups	24
2.3	Contribute to a GEO Mountains workshop to identify Essential Mountain Societal / Socio-Economic Variables	34
2.4	Develop a global spatial dataset related to mountain socio-economics	20
2.5	Establish links with the paleoscience community to help ensure that paleodata pertaining to mountains are discoverable, accessible, and usable	8
3.4	Develop educational, training, and capacity development materials related to the drivers, processes, and impacts of environmental, ecological, and societal change in mountains	27
3.5	Identify areas in which / how existing resources can be applied to respond to pre-identified policy needs	28

Introduction to the MRI Working Groups

- ❑ Elevation dependent climate change (EDCC) – Nick Pepin
 - ❑ WG Scope / tasks & UHOPs



- ❑ Mountain Observatories – Maria Shahgedanova
 - ❑ WG Scope / tasks & Mountain Observatories



Main Task Group Objectives

- Identify opportunities for GEO Mountains to contribute to the activities of the two Working Groups
- To take on feedback from the WG to further improve GEO Mountains' provision of datasets and services to the (predominantly research) community
- Potentially develop joint activities

Some suggestions to begin with....

- Increase discoverability of mountain in situ monitoring sites / infrastructure / networks and the accessibility and reusability of their associated datasets by adding them to the **GEO Mountains In Situ Inventory** > [Demo](#)

- Increase discoverability, accessibility, and reusability of gridded mountain datasets by adding them to the **GEO Mountains General Inventory** (currently under development, release planned soon) > [Demo](#)
 - Gain credit for your work and increase your impact (if you are site manager / data provider)

 - Help other scientists and data users find suitable datasets more efficiently

 - Provide a data basis that contributes to improved assessment exercises (e.g. IPCC)

 - Contribute to insightful, interdisciplinary data gap / data coverage analyses (responsibility of another GEO Mountains Task Group – get in touch if interested!)

Expected outcomes

- Progress made via GEO Mountains to increase the discoverability and accessibility of dataset is “followed through” to have real scientific impact
- Scientific, research, and monitoring needs and experiences from the WG’s feed back into the GEO Mountains implementation plan, e.g.:
 - Which datasets / kinds of data are required to answer pressing scientific challenges around climate and other change in mountains that the MRI WGs wish to tackle?*
 - Do our inventories capture all important fields that users require?*
 - Etc. etc.*

Discussion

- Areas in which the WG Leads most need / would appreciate our inputs / help? – Maria & Nick
- Questions, comments, ideas? – All
- Next steps?
- Also, surely the possibility for interested participants to formally join the respective WGs (but please don't desert us at GEO Mountains!!)

Many thanks for your interest and contributions!

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