

GEO Mountains Task Group 2.1



Analyse the extent to which data from mountain observatories are freely available, and which measurement protocols are followed

Meeting #1, 24 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

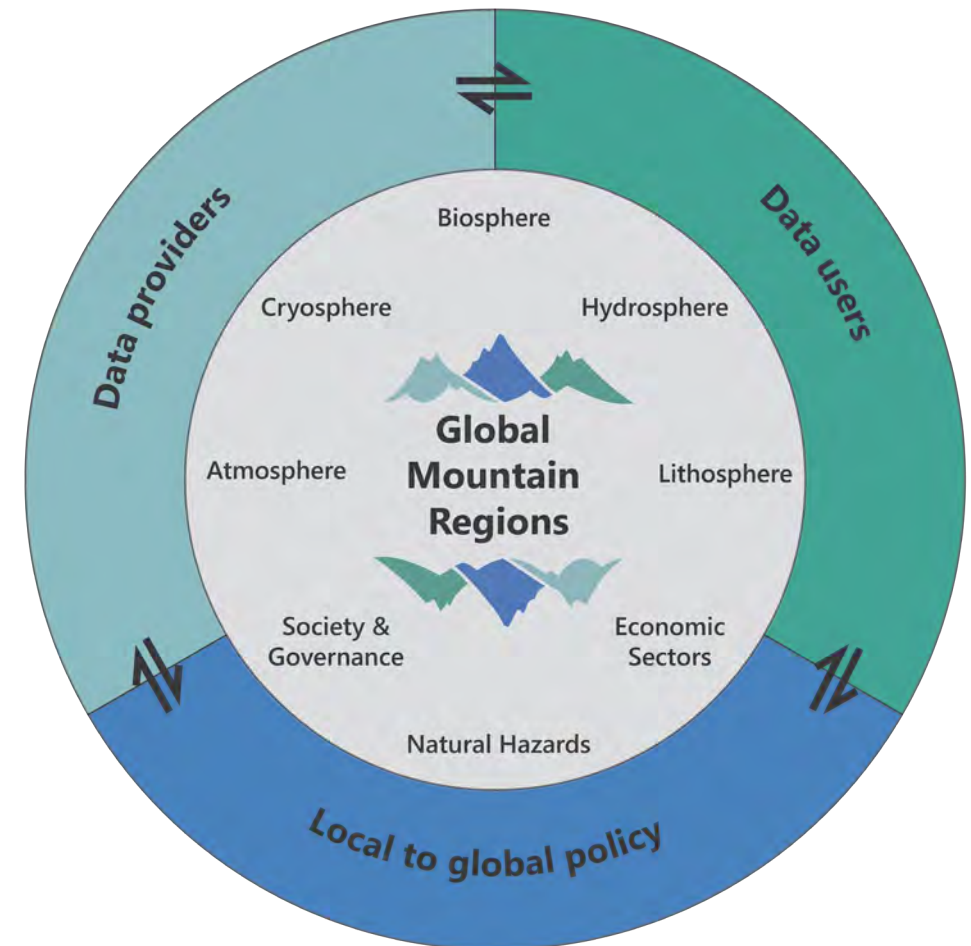
GEO Mountains: an introduction

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

Main objective

❑ Analyze the GEO Mountains In Situ Inventory (metadata analysis) > **demo**

Perhaps in two phases:

- i) Patterns in data sharing and observation protocols
- ii) Data coverage per (interdisciplinary) variable w.r.t time, space, elevation...
(extension of recent paper)

Dependencies on other activities

- Task 1.1b – *Contribute to developing and maintaining a list of interdisciplinary in situ mountain observational infrastructure and associated datasets*
 - Especially more “operational” sites > contact national hydro / met / other environmental monitoring agencies
 - Please help with this first!

Expected outcomes

- Identification of extent to which data sharing remains a problem
- Identification of extent to which established observation protocols are applied (are suitable / achievable?) in mountain settings
- Identification of most critical data gaps (space, time, elevation) for a wide range of interdisciplinary variables
- Recommendations for improving the situation

- Scientific publication**

Discussion: comments, questions & ideas

- Completeness of the in situ inventory (sites but also specific metadata fields, e.g. observation protocols)
- Plans/ideas for the corresponding gap analyses
- Extend “gap analysis” to GEO Mountains General Inventory?

Many thanks for your interest and contributions!

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