

GEOCRI Side meeting POLAR2018



PROGRAMME

12:30-12:40 Opening and introduction to the GEOCRI activities -Hannele Savela,
University of Oulu/INTERACT

12:40-13:00 Polar Data Planning efforts and GEOCRI Community Portal
Development –Peter Pulsifer, University of Colorado/NSIDC

13:00-13:20 Essential Variables –insights to their development - Gregory Giuliani,
University of Geneva, Institute for Environmental Sciences/enviroSPACE

13:20-13:40 Essential Cold Regions Variables to reach societal benefits –Yubao Qiu,
RADI-CAS

13:40-14:00 Discussion & Closing of the meeting



GEOCRI – GEO Cold Regions Initiative
Information Service and Forum for
Collaboration for Cold Regions

Hannele Savela
on behalf of the GEOCRI Community and co-leads team

What are GEO and GEOSS?

Organisation (GEO)

- ❄ Group on Earth Observations
- ❄ 100+ Member States
- ❄ 100+ Participating Organisations
- ❄ GEO Plenary, GEO Ministerial Summit
- ❄ GEO Secretariat

Implementation (GEOSS)

- ❄ Work Programme (3 yrs)
- ❄ GEO Flagships
- ❄ GEO Initiatives
- ❄ GEO Community Activities
- ❄ GEO Foundational Tasks

- ❄ GEOSS Portal 4
 - ❄ 400+ million open data resources in GEOSS
 - ❄ 150+ national and regional data providers

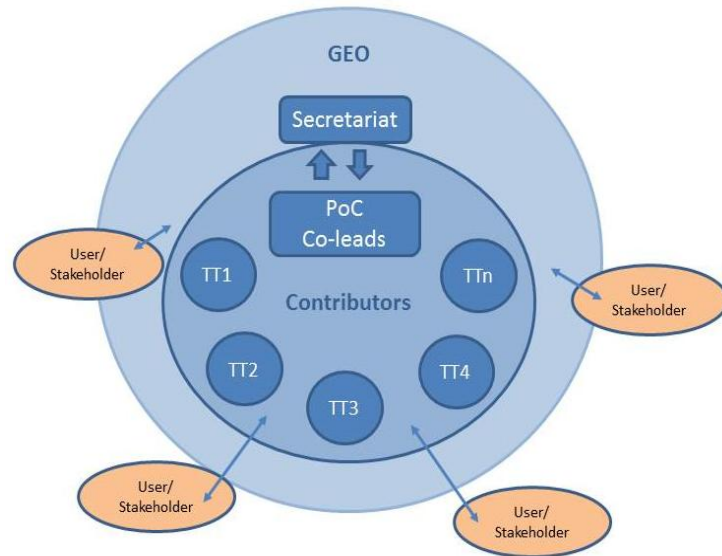


What is GEO Cold Regions Initiative?

- ❄️ A GEO Initiative, current work plan for 2017-2019
- ❄️ Forum for collaboration, contributors from 15 countries and organisations
- ❄️ Cross-cutting initiative
 - Geographic: Arctic, Antarctic, High-Latitude Oceans, Himalaya-Third Pole and High-Mountain areas
 - Domains: Terrestrial, Atmospheric, Marine
 - Scales: from in-situ to remote sensing
 - Disciplines: from earth sciences to social sciences
 - SBAs, SDGs, and Paris Agreement

GEOCRI –Community:

Co-leads team
Task teams
Contributors
Observers
GEO Secretariat



Countries:

Canada
China
Chile
Finland
Germany
India
Italy
Japan
Netherlands
Norway
Spain
Sweden
Switzerland
United Kingdom
United States

Organisations/Projects:

CAFF CBMP: Conservation of Arctic Flora and Fauna, Circumpolar Biodiversity Monitoring Program
CCIN: Canadian Cryospheric Information Network, Polar Data Catalogue
CliC: Climate and Cryosphere
CryoClim Cryosphere Climate Monitoring Service
DBAR-HiMAC – High Asia and Cold Regions
IASC: International Arctic Science Committee
ICIMOD: International Centre for Integrated Mountain Development
INTERACT: International Network for Terrestrial Research and Monitoring in the Arctic
INTAROS: Integrated Arctic Observation System
PEEX: Pan-Eurasian Experiment
SAON: Sustaining Arctic Observing Network
SIOS: Svalbard Integrated Earth Observing System
SwissEx: Swiss Experiment Platform
TPE: the Third Pole Environment
WMO GCW: Global Cryosphere Watch
WMO WWRP PPP/YOPP



Why GEO Cold Regions?

- ❄️ Cold Regions are the most vulnerable environments, and affect the whole Earth system via feedback mechanisms
- ❄️ Current Environmental and Socio-Political Challenges, influence more than 100 countries
- ❄️ Need for Earth observations and information services combining both Scientific and Societal aspects to support decision making and achieving societal benefits and SDGs

Climate & Weather
Biodiversity & Ecosystems
Sustainable Development
Indigenous Communities & Traditional Practices and Livelihoods
Health
Agriculture, Fisheries, Hunting
Food Security
Water

International Relations & Cooperation
Hazards
Infrastructure & Transport
Energy
Extractive industries
Forestry
Shipping
Tourism
Environmental Protection

GEOCRI Mission and Objectives

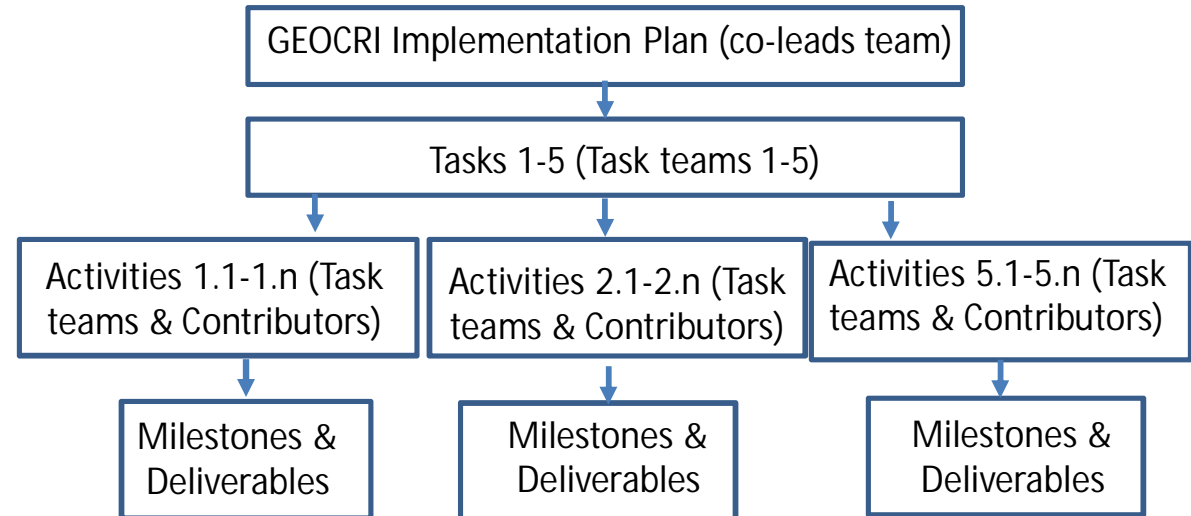


Mission: Develop a user-driven approach for Cold Regions information services to complement the current mainly science-driven efforts, and foster the collaboration for improved Earth observations and information on a global scale.

Objectives:

1. Integrating, Brokering and Promoting Earth Observations over the Cold Regions
2. Advocating and Practicing Data Sharing
3. Building Community Portal and related Services
4. Strengthening Capacity building and Partnerships

GEOCRI Tasks and Implementation Plan



Structure of the GEOCRI activities

Five Tasks:

T1: Infrastructures

T2: Monitoring Network and Data

T3: Integrating in-situ and Remote Sensing Observations

T4: Capacity Building, User Engagement and Communication

T5: Management and Monitoring

Examples of current activities



GEOCRI Community Portal Development "

- ❄ Data Management compatible to GEO DM Principle
- ❄ Utilisation of GEOSS Data Infrastructure for Community Portal in the GEOSS framework
- ❄ Data sharing, End-User services & products
- ❄ Collaboration, synergy and interoperability with other international organisations and initiatives (SAON/SOOS/WDS/CODATA/RDA...)

Essential Cold Regions Variables Development "

- ❄ Science Driven with Societal impact and implications
- ❄ Compatible to the existing EVs and Indicators
- ❄ Connections between the data and indicators for policy and evaluation purposes
- ❄ Deliverables: White paper & potential journal articles
- ❄ Relevance for the Cold Regions
- ❄ Relevance for the SBAs: SDGs, Paris Agreement, Sendai Framework

Research Infrastructures and Capacity Building Development "

- ❄ Integration of observations, modelling and data across regions and scales
- ❄ Sharing best practises to improve infrastructure access and efficient use

Collaboration -examples

- Within GEOCRI
- Within GEO
- With other organizations and networks



*GEO-GNOME,
GEOGLOWS*



*IEEE Ad Hoc Committee
on North & South Poles*

Arctic Data Committee
(ADC) and
Polar Data Planning Summit



MAC HiMAC Workshop
Hi 2017

High Asia Data Committee
(HiDCON) (proposed)



Upcoming events

GEOCRI Side Meeting at POLAR2018



Introduction to GEOCRI, the development of the GEOCRI Community Portal and the development of the Essential Cold Regions Variables

Tuesday, 19 June 2018; 12:30 – 14:00, Room A Wisshorn

Welcome!

GEO Events in 2018

A dark blue banner with a white border containing text. The background of the banner shows a close-up of a textured, light-colored surface, possibly a rock or ice.

Earth Observations for Impact
GEO SYMPOSIUM 2018

#EO4IMPACT18

11-12 June 2018 / Geneva, Switzerland

A banner with a white border containing text. The background is a night view of a city with lights, and a traditional Japanese building with a dark roof is visible on the right side.

GEO WEEK 2018

29.10-2.11 2018 / KYOTO, JAPAN



2018 International Workshop on
Observations and Understanding of
Changes in High Mountain and Cold
Regions (HiMAC2018)

29-30, Oct @ Sodankylä, Finland



Looking forward to collaborate with you!



Contact:

<http://www.earthobservations.org/coldregions.php>

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