



Aligning Arctic regional observing and global programs

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Earth observations

In, on and around the Earth

What is Earth observation?

Earth observation is the gathering of information about physical, chemical and biological systems in, on and around the Earth.



Group on Earth Observations

Intergovernmental partnership

What is GEO?

GEO works to improve the availability, access, understanding and use of Earth observations for the benefit of society.



Group on Earth Observations

Research, policy and decision making

What does GEO do?

GEO's member governments and participating organizations work together to develop and implement Earth observations projects and initiatives that address global environmental challenges.



Group on Earth Observations

Open Earth observations data and information

What does GEO have to offer?

In addition to 70+ Work Programme activities, the GEO community is building the Global Earth Observation System of Systems (GEOSS), and has already made over 400 million open data and information resources available via www.geoportal.org



Group on Earth Observations

Our focus areas

GEO's **global engagement priorities** include supporting the UN 2030 Agenda for Sustainable Development, the Paris Agreement on Climate and the Sendai Framework for Disaster Risk Reduction. In particular, the intersection, overlap and shared monitoring and reporting requirements to achieve the respective goals and objectives.



Earth observations in support of Global Policy

Earth observations enable informed and effective research, policy and decision making for climate change mitigation and adaptation.

GEO is working to enhance global Earth observations systems in support of the SDGs, Paris Agreement and Sendai Framework.



GEO Work Programme

Selected Flagships & Initiatives

GEO Cold Regions Initiative (GEOCRI)

By developing a user-driven approach, GEOCRI works to provide coordinated Earth observations and information services across a range of stakeholders to facilitate well-informed decisions and support the sustainable development of the cold regions globally.



GEO Work Programme

Selected Flagships & Initiatives

Blue Planet: Oceans and Society

Oceans are an important heat and carbon sink, and are also impacted heavily by climate change. Earth observations are crucial for monitoring the state of our oceans, and GEO Blue Planet is working to coordinate global ocean observations for the protection of these crucial systems.



GEO Work Programme

Selected Flagships & Initiatives

GEO Biodiversity Observations Network (GEO BON)

GEO BON contributes to effective management of the world's biodiversity and ecosystems by organizing and improving terrestrial, freshwater and marine biodiversity observations globally. This information often intersects with crucial data needed by the climate science community.



GEO Work Programme

Selected Flagships & Initiatives

GEO Global Agricultural Monitoring Initiative (GEOGLAM)

GEOGLAM provides valuable Early Warning information that can help mitigate food crises, including from drought and flooding caused or exacerbated by climate change.

The information produced by GEOGLAM is **fundamental to understanding the impact of climate on commodity markets and food security.**



GEO Work Programme

Coordination and Convening Power:

- Opportunities to coordinate different GEO activities, across domains.
- Develop case studies on how the value chain is being addressed within GEO activities (observations > dataset > applications > decisions > actions).
- Develop concrete pilots to address societal issues, with emphasis on **co-design** and **co-production**.
- Draw on convening power of GEO to address needs of end-users.
- GEOSS as trusted broker for authoritative data.
- Deliver robust solutions based on authoritative data, open source software and cloud services, to nations of 'Global South'.





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Collaborate and communicate with GEO:

