Earth Observations For the Benefit of Humankind

Overview of the Group on Earth Observations (GEO) and United States Contributions

Presenters:
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MISSION
GEO’s mission is to connect the demand for sound and timely environmental information with the supply of data and information about the Earth.

Vision
To realize a future where decisions and actions, for the benefit of humankind, are informed by coordinated, comprehensive and sustained Earth observation information and services.

Together, the GEO community is creating a Global Earth Observation System of Systems (GEOSS) to better integrate observing systems and share data by connecting existing infrastructures using common standards.

Countries have borders
Earth Observations don’t
GEO: 104 National Governments

<table>
<thead>
<tr>
<th>Region</th>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa</td>
<td>27</td>
</tr>
<tr>
<td>Americas</td>
<td>16</td>
</tr>
<tr>
<td>Asia/Oceania</td>
<td>20</td>
</tr>
<tr>
<td>C.I.S.</td>
<td>7</td>
</tr>
<tr>
<td>Europe</td>
<td>34</td>
</tr>
<tr>
<td>Total</td>
<td>104</td>
</tr>
</tbody>
</table>

Number of Members by Year

- GEO Members
- Non-GEO Members
The societal benefits identified by GEO illustrate how GEOSS serves the needs of the international community.
Together, the GEO community is creating a **Global Earth Observation System of Systems (GEOSS)** to better integrate observing systems and share data by connecting existing infrastructures using common standards.

**What is GEOSS?**
GEOSS is a set of coordinated, independent and open Earth observation (EO) collection, information and processing systems.

**What does GEOSS do?**
GEOSS links observing systems to strengthen monitoring of the state of the Earth, ensuring that data is accessible and interoperable.

**Why does GEOSS matter?**
GEOSS increases our understanding of Earth processes, and enhances predictive capabilities that underpin sound decision-making.
Participation and Contribution Examples

- Initiatives
- Architecture
- Data Sharing Principles
- Data Management Principles
- Technical Principles
- GCI Services
What has GEO accomplishments by the Numbers

** Millions **

of open data and information resources available on the GEOSS Portal.

The Global Earth Observation System of Systems (GEOSS) makes over 400 million Earth observation resources accessible for better decisions on a range of areas from food security, to protection of biodiversity, renewable energy and disaster resilience.

** Hundreds **

of GEO Member countries & Participating Organizations working together.

The GEO community is working across sectoral lines to solve global challenges and is collectively investing hundreds of millions of dollars in the GEO Work Programme every year.

** Tens **

of expert Communities of Practice working on the world’s most pressing global issues.

Through GEO, multiple, disparate communities come together to share best practices, knowledge, and experience to drive forward data sharing and applications in a wide range of benefit areas.
Work to link US resources to the global community

GLOBAL Earth Observation System of Systems (GEOSS)

- ARCTIC SDI
- GeoSUR

Regional

National

GLOBAL

Local | State | Tribal | Federal | Academia | Professional
Is a cooperative effort of the 16 GEO member countries in the Americas that:

Reflects **local, national, and regional interests** of the GEO country-members for short and long-term planning, development, and implementation aligned with GEO activities.

Is **entrenched in the institutional and technical capabilities of its country members** and in the resources of other global initiatives available for the benefit of the region.

**Seeks to increase institutional and personal capacity** and engage experts, stakeholders, and decision makers **in the process of decision making.**

**16 Member Countries**
- Argentina
- Bahamas
- Belize
- Brazil
- Canada
- Chile
- Colombia
- Costa Rica
- Ecuador
- Honduras
- Mexico
- Panama
- Paraguay
- Peru
- United States
- Uruguay

**Observers:** Bolivia, Guatemala
The AmeriGEOSS Platform is a regional community resource to promote collaboration and coordination among the GEO members of the American continent.

Explore news, upcoming events, what’s new and other topics.

AmeriGEOSS.org
AmeriGEOSS Data-Hub
– Analytical Tools to Support Understanding

1. Interact With Data
2. Create Graphs, Charts, Maps and More
3. View, Share, Documents, Reports, Dashboards & more

AmeriGEOSS.org
GEO WEEK 2017: Highlight global contributions and accomplishments

GEO WEEK 2017
INSIGHT FOR A CHANGING WORLD
GROUP ON EARTH OBSERVATIONS

23-27 OCTOBER 2017
WASHINGTON, D.C., USA

- Exhibits
- Side Events

www.earthobservations.org/geoweek2017