

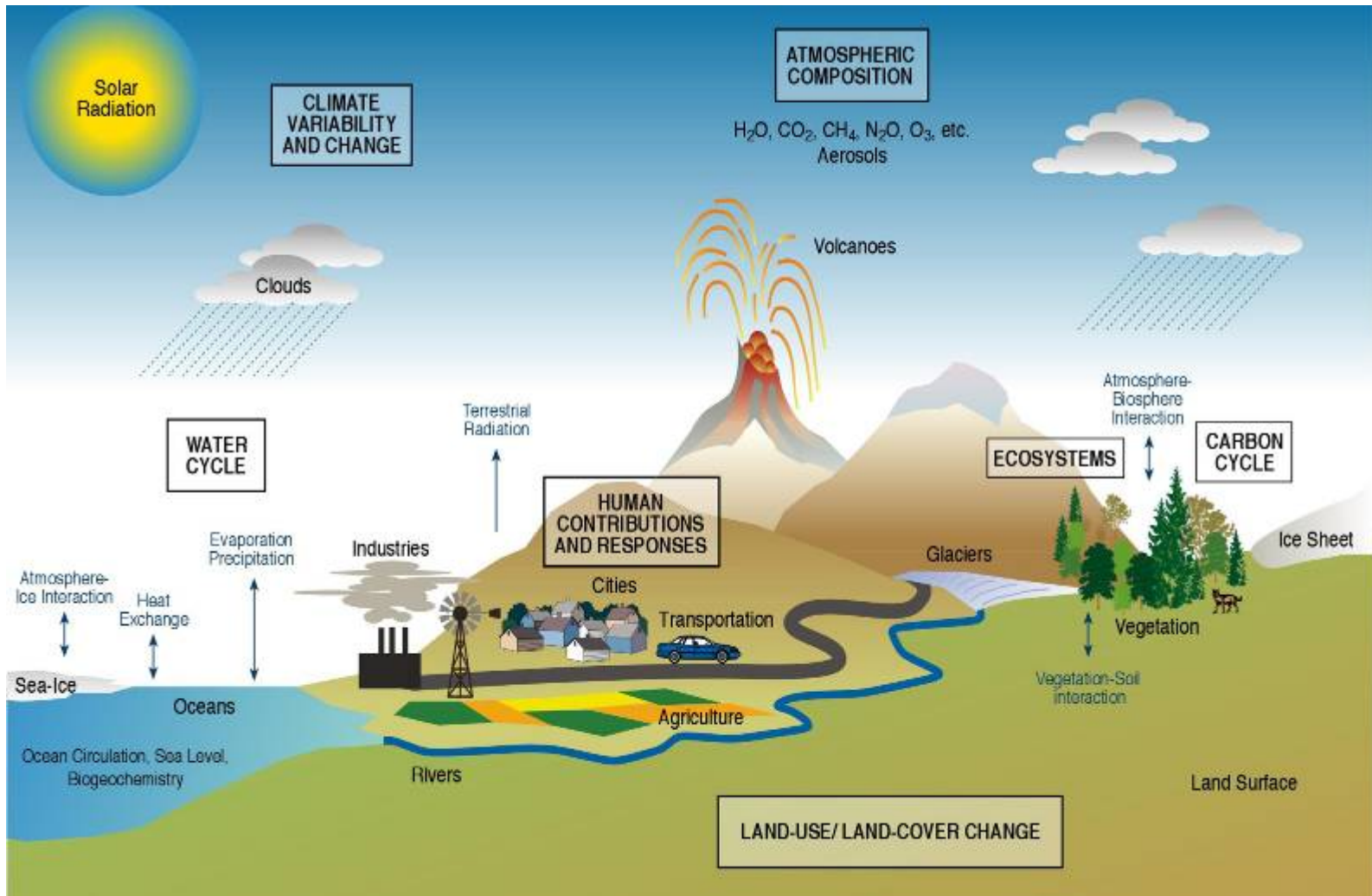


The Global Earth Observation System of Systems (GEOSS)





Our Planet is a System of Systems





**Any Single Problem Requires Many
Data Sets**

**Any Single Data Set Serves Many
Applications**

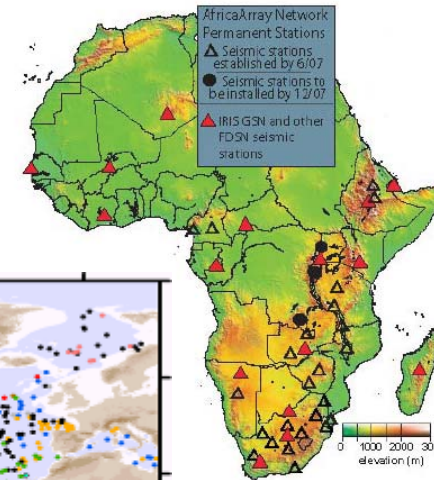
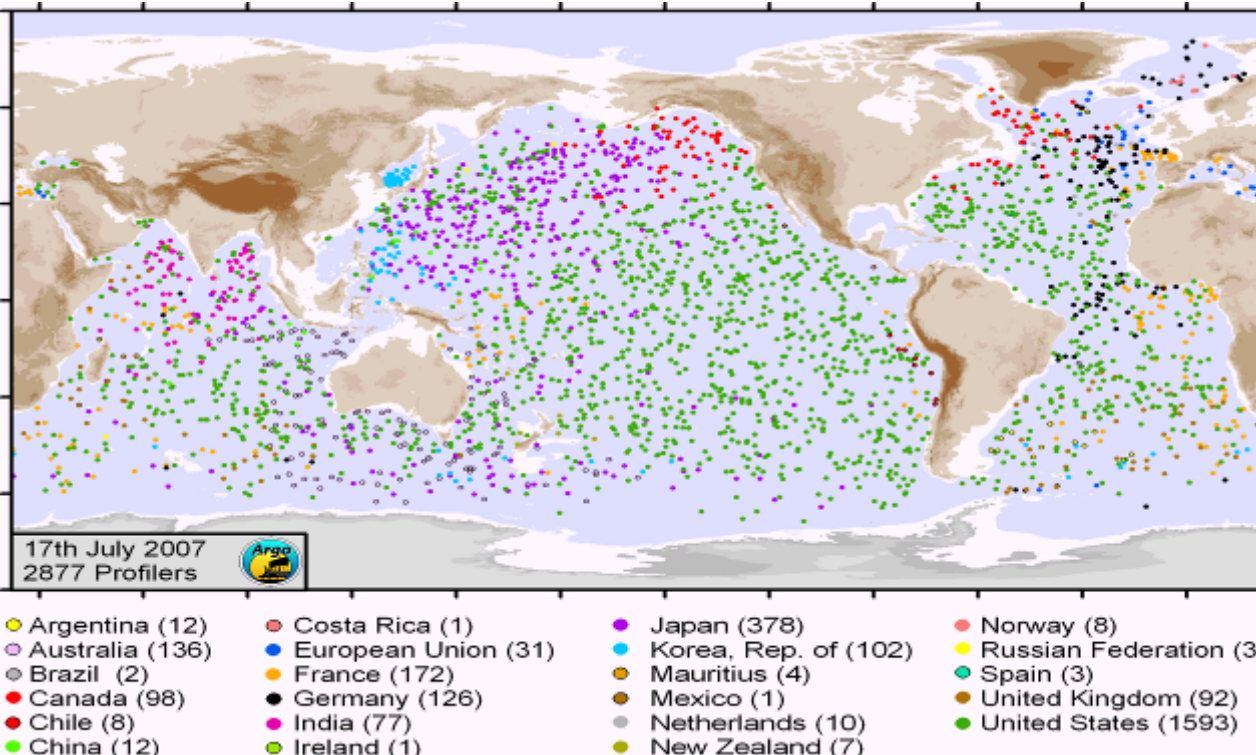
**... Observation systems should be
shared across disciplines**





In-Situ Observation Systems

ARGO: Cooperation amongst 23 Countries



AfricaArray Backbone Network

- AF network code - part of the FDSN
- 24 BB stations 5/07
- 28 BB stations by 12/07
- 24-bit data loggers
- Variety of BB sensors
- Data recovery 70-80%
- Data retrieval:
 - S. Africa - daily
 - Elsewhere - monthly



**AFRICA ARRAY:
Cooperation
between African
GEO surveys,
industry and
academia**



Existing Observing Systems show Important Duplications

User Requirements Point to Significant Observation Gaps

**... Observation systems should be
coordinated and shared internationally**



**Mankind has become a Geophysical
Parameter**

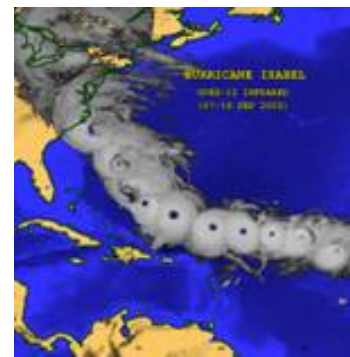
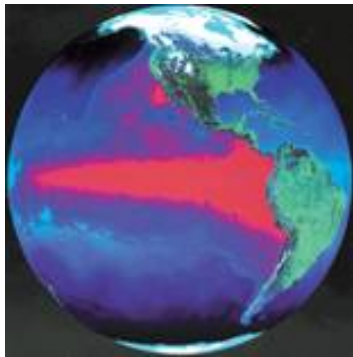
**Geophysics has become a Political
Issue**

**... Earth observations are needed to
inform decisions**



The GEOSS Imperative

- Some 30% of our economy is directly tied to the environment
- Scientific understanding and ongoing knowledge of the Earth system is fundamental for well-informed economic decision-making
- Sustained Earth observations are critical
- Systems interoperability and open access to data are fundamental
- A global approach to Earth observations is required





The Group on Earth Observations (GEO)

An Intergovernmental Organization with 77 Members
and 56 Participating Organizations





Governments and organizations are collaborating through GEO to –

- **Coordinate and Sustain Observation Systems**
- **Provide Easier & More Open Data Access**
- **Foster Use through Science, Applications and Capacity Building**

**... to answer society's need for information
decision making**



THE GLOBAL EARTH OBSERVATION SYSTEM OF SYSTEMS



GROUP ON EARTH OBSERVATIONS | GEO Portal

HOME ABOUT GEOPORTAL CONTACTS NEWS MAP VIEWER ADVANCED SEARCH DOWNLOAD GEOPORTAL ABOUT GEO

Provide Feedback to GEO

BROWSE RESOURCES BY SOCIAL BENEFIT AREAS

- DISASTERS
- HEALTH
- ENERGY
- CLIMATE
- WATER
- WEATHER



BREAKING NEWS

FLOODS IN IOWA, USA

Further to the flooding which occurred on 16 June, 10,000 people forced to evacuate water is now rising towards Iowa City Des Moines.

WELCOME TO GEOPORTAL

The GEOportal is entry point to access



GROUP ON EARTH OBSERVATIONS | GEO Portal

Provided by: **COMPUSULT**

Welcome! Home - Language - Sign In

GEO Portal DiscoveryView Browse

Welcome to the GEO Portal

The Group on Earth Observation Portal (GEO Portal) was implemented using Compusult's Web Enterprise Suite (www.compusult.net) a suite of applications, based on open standards, that work together to provide one of the most comprehensive, data discovery, access, retrieval and delivery systems. The site has been implemented to work with, and build upon, existing national, regional, and international systems. The GEO Portal provides comprehensive, coordinated, Earth observations from thousands of services, instruments, collections, libraries and catalogues worldwide, transforming the data collected into vital information for society. This portal provides access for geospatial data in support of GEOSS. It is a secure web site that will host geospatial data focusing on the Group on Earth Observations (GEO), Social Benefit Area's (SBA).

Societal Benefits Area

GEO societal benefits consist of:

- Reducing loss of life and property from natural and human-induced disasters.
- Understanding environmental factors affecting human health and well-being.
- Improving management of energy resources.
- Understanding, assessing, predicting, mitigating, and adapting to climate variability.

Create an Account!

Create an Account to access many additional portal features! Save Search Results. Save Maps. Participate in Discussion Boards and more. Create an account Now!

Provide feedback

Please provide GEO with your feedback by selecting the button below:

[Feedback](#)

Data & Services

- GEOSS Clearinghouse - Search the GEOSS Clearinghouse
- GEOSS Registry - Register

GROUP ON EARTH OBSERVATIONS | GEO Portal

Provided by: **ESRI**

Welcome to the GEO Web Portal & Clearinghouse

Search the Portal below or search the Clearinghouse (CRW)

Find by Place or Other Criteria

GEO Globe: GeoRSS Viewer

Address: 3880 Elgin Road
Teged - (13 438, 17 1387)
Center (22 810, 15 5346)

Portal Options

- Welcome
- Advanced Search
- Download Assets
- Download Data and Web Services
- API Messages
- API Parameters
- API
- Metadata
- Metadata
- Create a new account
- Forgot Password

Home

- News
- Events
- Societal Benefit Areas
- Agriculture
- Biodiversity
- Climate
- Coastal
- Coastal
- Energy
- Health
- Water
- Weather
- Resources
- Geospatial
- Geospatial

Viewing data from 2/news/13438/171387



GEO Data Sharing Principles

- Full and Open Exchange of Data ... Recognizing Relevant International Instruments and National Policies and Legislation
- Data and Products at Minimum Time Delay and Minimum Cost
- Free of Charge or Cost of Reproduction for Research and Education





Declaration on Environment and Climate Change

To respond to the growing demand for Earth observation data, we will accelerate efforts within the Global Earth Observation System of Systems (GEOSS), which builds on the work of UN specialized agencies and programs, in priority areas, inter alia, climate change and water resources management, by strengthening observation, prediction and data sharing. We also support capacity building for developing countries in earth observations and promote interoperability and linkage with other partners.

Thank you

