MONITORING OUR CHANGING PLANET

Steven Ramage,
Group on Earth Observations (GEO) Secretariat
Earth observations

Earth observations are data and information collected about our planet, whether relating to the atmosphere, oceans or land.

This includes satellite imagery, space-based or remotely-sensed data, as well as ground-based or in situ data - sensors in, on or around the Earth.
Arctic sea ice decline
Assessing climate change impact
September 1984 - September 2016

Source: NASA Images of Change
Urban expansion in India

Tracking population growth


Source: NASA Images of Change
Lake drought in Bolivia

Drought and water resources management

April 2013 - January 2016

Source: NASA Images of Change
GEO COMMUNITY RESPONSE TO COVID-19
The GEO Indigenous Alliance

Indigenous Peoples protect 80% of the world's biodiversity, even though they make up less than 5% of the world's population.
The GEO Indigenous Alliance
- Strategic Pathways

- Climate Action/DRR
- Women Empowerment/Education
- Indigenous Data Sovereignty
- Food Security
The GEO-GEE Programme is supporting projects, including the United Nations Environment Programme (UNEP) and United Nations Economic and Social Commission for Western Asia (UNESCWA) to support climate change and disaster monitoring activities over next two years.
GEO IN NUMBERS

7 CONTINENTS
112 COUNTRIES
130+ PARTICIPATING ORGANIZATIONS
15 ASSOCIATES
7,000 DATA PROVIDERS
60+ WORK PROGRAMME ACTIVITIES

15+ YEARS
400,000,000,000+ EARTH OBSERVATIONS
GLOBAL POLICY ASPECTS

- Earth observations for Sendai Framework for Disaster Risk Reduction. Support integrated risk assessment

NATIONAL CONSIDERATIONS

- Supplementary Technical Guidance for National Adaptation Plans (NAPs).
- Agriculture monitoring for adaptation, impact of wildfires, ocean health etc.

GOVERNANCE COMPONENTS

- Earth observations and G7, biodiversity COP, climate COP. EO supports climate action, nature-based solutions, UN Decade of Ocean Science etc.
Earth observation for the benefit of humankind

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