



GEO
CARBON AND
GHG INITIATIVE



GEO Carbon and GHG Initiative

Report from WG 3

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Working Group 3



GEO-C: from Observations to Decisions

Communication



SBSTA

User engagement

Framework Convention on Climate Change



Observations

Services

Knowledge

Decisions



Data sharing



management (incl. metadata)



From data to knowledge

Model-Data



Improve data harmonization
Improve inter-operability
Improve data accessibility

Data Citation

Sustainability

Capacity building

Identifying observational gaps

Group on Earth Observations

Our priorities

What are GEO's priorities?

GEO's global priorities include supporting the UN 2030 Agenda for Sustainable Development, the Paris Agreement on Climate Change, and the Sendai Framework for Disaster Risk Reduction.



Paris Agreement



Article 4 and Article 13 – National Reporting

- Reported five-yearly by parties, successive reductions in emissions
- Using existing methods and guidance; not validation

Article 5 Mitigation

- Knowledge of evolution of sinks and sources

Article 7 Adaptation

- (7.6) Strengthening cooperation,
- (7.7c) Research, systematic observation

Article 10 Technology Transfer & Article 11 Capacity Development

Article 14 Global stocktaking

- in the light of equity and the best available science: 2023, 2028...

Article 15 Compliance



Situation in Asia-Pacific

- AP region plays an important role in the global C-cycle and GHG emissions and sinks
 - Many AP research institutions (agencies, organizations, etc.) involved in C & GHG observations and analysis
 - Considerable efforts (satellites, in situ, modelling)
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- ❑ Need for an integrated approach: in situ / satellite / inventory, across scales (time, spatial), domains (atmosphere, land, ocean) systems and processes (ecophysiology, ecology, earth system)

Situation in Vietnam

- Vietnam is a growing country and this growth has big impacts on the environment (urbanization; increasing emissions)
 - Research and observations in Vietnam are significantly increasing and provide valuable information to be more exploited in the global context
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- ☐ Need to improve integration and interoperability
 - ☐ Identify a proactive Vietnam representative for GEO-C



Global initiatives

- Integrated Greenhouse Gas Information System (IG3IS)
- Global Carbon Project (GCP)



❑ Provide opportunities for countries in the Asia-Pacific Region

Greenhouse Gas Inventories

National perspective

- Considerable EO efforts but unsynchronized application, research and EO National Strategy
- Institutional and juridical issues of data (official statistic data is the only sources, EO considered as non-official sources)
- Gap between EO and GHG Inventory community



Framework Convention on
Climate Change

2019 Refinement of the 2006 IPCC Guidelines



- Opportunities for EO
- Technology has advanced significantly (new satellite missions etc.)
- Long-term goal: confirm anthropogenic source by global observations

- ☐ Need to strengthen dialogue between EO and inventory community; initial discussion started




GROUP ON EARTH OBSERVATIONS

**INSIGHT FOR A
CHANGING WORLD**

GEO WEEK 2017

23-27 OCTOBER 2017

A large, detailed image of the Earth from space, showing the Americas and the Pacific Ocean. The Earth is positioned in the lower half of the image, with a blue and white cloud cover. The background consists of a white upper half and a dark blue lower half, separated by a diagonal line.

GEO-C Side Event:
with input from the Asia-
Pacific Symposium

Thank You

Communicate and Collaborate with GEO:

