Cross-Working Group Mapping Exercise and Outcomes of the GEO Climate Workshop

Climate Change WG
Disaster Risk Reduction WG
Capacity Development WG

Report to PB-21 - Agenda item 3.1
29 September 2021
GEO Work Programme Mapping

Initial results
Background information

- **Aim to identify potential disconnect and synergy opportunities** among GWP activities to meet policy needs while contributing to next GWP.
- **Cross-WG effort** among CC, DRR, CapD since the end of 2020.
- **Technical support** from ESRI (Pat Cummens) and AmeriGEO (America Alvarez).
- **6 sections**: 1) GEO WP activity identification, 2) scope and area of impact, 3) CC, 4) DRR, 5) CapD, 6) additional feedback.
- **Officially launched on 31 August** through invitations to GEO WP leads (initial deadline 10 Sept).
Mapping interface and Dashboard

Section 3: Climate Action

1. Does your GEO Activity provide inputs to the United Nations Framework Convention on Climate Change (UNFCCC) and Paris Agreement process?

- Yes
- No

2. Are you collaborating with the UNFCCC national focal points in the countries your GEO activity operates in?

- Yes
- No

3. Which, if any, of these broad areas does your GEO activity support through the use of Earth observation?

- Adaptation (i.e., climate change impacts, vulnerability, and adaptation measures to increase resilience)
- Loss and damage (i.e., approaches to averting, minimizing, and addressing loss and damage associated with the adverse effects of climate change)
Climate Action

GEO WP link to climate policy is still weak

- Input to UNFCCC/PA process: 8 activities
- Collaboration with UNFCCC focal points: 5 activities
- Support to UNFCCC Parties (e.g., reporting): 7 activities

But...focus/support areas tell us something else

- Adaptation: 31 activities - of which
  - 20 are suitable for GEO technical guidance on National Adaptation Plans
  - 25 support monitoring of extreme weather events
- Loss & Damage: 26 activities
- Means of implementation (finance, technology, capacity building): 24 activities
- Mitigation: 18 activities
- Climate Science: 17 activities
- REDD+: 8 activities
Disaster Risk Reduction (DRR)

- Strength: alignment with SFDRR priorities for action
- Weakness: existing coordination/collaboration with DRR users → need to ensure Toolkit helps match EO-tech "seeds" with user "needs"

GWP Activities’ Alignment with or Support for UNDRR Sendai Framework Priorities for Action

<table>
<thead>
<tr>
<th></th>
<th>Understanding Disaster Risk</th>
<th>Strengthening governance &amp; management of DRR</th>
<th>Investing in DR for resilience</th>
<th>Enhancing disaster preparedness for effective response, recovery, rehabilitation and reconstruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>30</td>
<td>14</td>
<td>7</td>
<td>23</td>
</tr>
<tr>
<td>Flagship</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Initiative</td>
<td>12</td>
<td>6</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>RegionalSEO</td>
<td>3</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>CA</td>
<td>15</td>
<td>6</td>
<td>3</td>
<td>10</td>
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Support Sendai Framework

- Yes 52% (33)
- No 25% (16)

Mentioned in Natl DRR strategy

- Yes 11% (7)
- No 63% (16)

Work w/ Sendai focal pts.

- No 63% (40)
- Yes 13% (8)

Aware if countries leverage activity efforts

- Yes 8% (5)
- No 67% (43)

Willing to participate in EO Risk Toolkit

- Yes 56% (36)
- No 16% (10)
Capacity Development

Capacity Development is an essential element for supporting both Climate and DRR activities – it is how we empower our community with the tools it needs to maximize the impact and utility of Earth Observations.

**Strengths** – there is already a lot of interest in producing and sharing Capacity Development resources, across the GEO Work Programme.

**Weaknesses** – collaborating across some Work Program flagships, initiatives, and community activities could be increased; there are CD resources that could be produced and shared by multiple WP components.

**Opportunities** – identify and curate CD resources that bridge the gap between current and desired levels, as indicated by WP components, and in collaboration with Regional GEOs.

There are a lot of great CD resources already somewhere in the GEO community – how can we make sure we know what is already available, make it findable and accessible?

How can we effectively gather and build CD tools for GEO toolkits?
Initial observations

• # of completed responses: 46 out of 64 (good!)
• Establishment of baseline
• GEO Work Programme link to policy: needs improvement
• Survey results will help guide activities of Cross-GEO Working Groups

Next steps

• Continue mapping: open-ended process (second deadline for submissions/uploads tbd)
• Gaps report to PB in 2022 to inform call for proposals for next GEO WP
• Dashboard to be hosted on GEO website
GEO CLIMATE WORKSHOP
POLICY + FINANCE
21-23 SEPTEMBER 2021

Outcomes
Climate Change WG
Workshop Mandate and Structure

Theme: Earth Observations for climate ambition

- Day 1: EO in support of national climate action
- Day 2: EO for collective ambition on climate
- Day 3: EO for climate finance decisions
<table>
<thead>
<tr>
<th>Objective</th>
<th>Expected Outcome</th>
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<tbody>
<tr>
<td>Present results of the 2021 mapping of GWP climate-related activities;</td>
<td>Increased awareness of the contribution of GWP activities to support national and</td>
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<td>spotlight examples of work, case studies and best practices for uptake by</td>
<td>global climate action;</td>
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<td>policy makers;</td>
<td></td>
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<td>Foster collaboration with key partners in the EO enterprise and climate</td>
<td>Increased collaboration with GEO partners on relevant activities identified; and</td>
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<tr>
<td>domain, e.g. CEOS, UNFCCC, GCOS, IPCC, and WMO/WCRP;</td>
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<tr>
<td>Identify what is missing / what the synergies are in terms of EO for</td>
<td>Increased uptake by policy makers of EO-based data and products generated by the</td>
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<td>climate action, with an emphasis on meeting the needs of policy makers and</td>
<td>GWP activities to fulfil their commitments under the Paris Agreement;</td>
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<td>key partners;</td>
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<tr>
<td>Initiate a path forward for climate-related activities in the GWP aimed</td>
<td>Preliminary identification of gaps / synergies in the GWP that will form the basis</td>
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<td>at filling the identified gaps and taking advantage of synergies, scaling</td>
<td>of the report on the way forward that the CC-WG will be presenting to the PB in Q2</td>
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<tr>
<td>up and connecting relevant activities to decision makers thus contributing</td>
<td>of 2022.</td>
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<tr>
<td>to the implementation of the UNFCCC Paris Agreement.</td>
<td></td>
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<td>Explore the role of Earth observation data to support policy and investment</td>
<td>Raised awareness of the scope of the new workstream on climate finance across the</td>
</tr>
<tr>
<td>decisions and relevant collaborations</td>
<td>GEO community; improved understanding of existing landscape; assessment of interest</td>
</tr>
<tr>
<td>Position GEO for COP26 and future mandate under the UNFCCC</td>
<td>in engaging.</td>
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<td></td>
<td>Key messages for COP26 agreed, including demonstrations of how GEO is (potentially)</td>
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<td></td>
<td>contributing to national reporting and Global Stocktake</td>
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Workshop Summary and initial Outcomes

Three days of virtual workshops of 3 hour-sessions across all time zones

- 57 Speakers & 35 Presentations from International Organizations, Private Sector and the EO community
- 500 registrations: 300 unique participants for the entire workshop
- 11+2 presentations from GEO Work Programme + GEO Indigenous Alliance + GEO CC-DRR-CapD Working Groups
- 3 presentations by GEO members: UK (Defra), Costa Rica (MINAE), Germany (GIZ)
- 10 presentations from Participating Organizations: UNFCCC, IPCC+GCOS, WMO, SPC, CfRN, ICIMOD, CEOS, UNITAR-UNOSAT, UNEP, and World Bank

Involvement of GEO Work Programme Activities:

Day 1: EO for national climate action
> GEOGLAM, GEOGloWS, GEO Blue Planet, SCO, DEAfrica

Day 2: EO for collective ambition on climate
> GEO Blue Planet, GFOI, GWIS, GEO Mountains, GEOBON, GEO Human Planet

Outcomes:
- Broad endorsement for GEO to further identify its unique contribution for a prospective mandate under the UNFCCC, to support national and global climate policy efforts
- Official launch of the "GEO Climate Finance" Campaign
Workshop Stakeholders

**GEO Work Programme**

**GEO Members**

**External Partners and prospective Associates**

**GEO Participating Organizations**

- GEOGLAM
- GEOGLows
- Digital Earth
- Blue Planet
- GEO Earth Observation Network
- SCO
- GEO Mountains
- GFONI
- GEO Bon
- The GEO Human Planet Initiative
- Global Wildfire Information System (GWIS)

- GEOS
- Coalitions for Rainforest Nations
- ICIMOD
- PCC
- UN
- Environment
- IPCC
- GCOS
- World Bank
- UN
- Environment
- IPCC
- GCOS

- Green Climate Fund
- UNEP Finance Initiative
- Adaptation Research Alliance
- World Geospatial Industry Council
- World Geospatial Industry Council
- The Commonwealth
- Willis Towers Watson
- Rabobank
- Allianz
- HKV
Workshop Participation: total numbers

Day 1: 198 participants
Day 2: 175 participants
Day 3: 118 participants
= 300 unique participants overall
Workshop Participation: regional breakdown

Unique participants per day