

Towards a GEO strategy on EO and climate action

ESA CCI Colocation meeting

Session 1: CCI's contribution to international climate initiatives

9 September 2020

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Climate Change Working Group

CC-WG ToR: http://www.earthobservations.org/documents/gwp20_22/geo_wp_cc_wg_tor.pdf

Canberra Declaration: http://earthobservations.org/documents/geo16/MS%204.2_Draft%20Canberra%20Declaration_final.pdf

- **GEO CC-WG established in March 2020** under GEO Foundational Tasks / Engagement Priorities Coordination, and overseen by GEO Programme Board
- ToR: CC-WG aims to develop and implement a comprehensive strategy to advance the use of EO in support of climate adaptation and mitigation including actions related to the **Paris Agreement**. In this way the WG will support the translation of the **Canberra Declaration** into concrete actions within the **2020-2022 GEO Work Programme**
- Call for members launched in March 2020 gathered **90+ members** including national experts and key climate partners: ESA CCI, CEOS, UNFCCC, GCOS...
- **First CC-WG meeting on 3 June 2020** provided overview of functions, and proposed roadmap to make WG operational
- Online questionnaire collected WG members' ideas on subgroups and actions
- **4 subgroups** established, and **4 co-chairs** elected to lead subgroups

Climate Change Working Group

Subgroup 1:
Coordination of climate issues across the GEO Work Programme & Synergies with key partners (including WMO)

Co-chair: Virginia BURKETT (USGS - United States)

Subgroup 2: Engagement with UNFCCC and IPCC

Co-chair: Mark DOWELL (JRC - European Commission)

Subgroup 3: Enhancing the use of EO for Mitigation

Co-chair: Lucia PERUGINI (CMCC – Italy)

Subgroup 4: Enhancing the use of EO for Adaptation and Loss & Damage

Co-chair: Angel VALDIVIEZO AJILA (National Service for Disaster Risk Reduction and Emergencies – Ecuador)

- Co-chairs consultations are ongoing, with the aim to develop a **CC-WG roadmap** and **subgroup work plans**, reflecting input from CC-WG members expressed through online questionnaire
- Co-chairs to finalise and present roadmap and work plans to CC-WG **by September**
- Second CC-WG meeting and subgroup meetings to kick-start activities (dates tbd)

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2020-2022 CC-WG Roadmap draft as of August 2020

Deliverables / Milestones	Timeline (start – end dates)	Subgroup
Reporting to PB (Quarterly)	Q3 2020, Q1, Q2, Q3 2021 – Q1, Q2, Q3 2022	All
Mapping of GEO WP activities, including review of IP, cataloguing	Q3 2020 – Q4 2021	All (S1 lead)
GEO's contribution to the GFCS process, including the 2020 Status of Climate Services Report	Q3 2020 – Q4 2022	S1-2
Preparation of GEO's contribution to the Global Stocktake via ad hoc coordination group of Systematic Observation community and SBSTA	Q3 2020 – Q4 2021/Q1 2022	All (S2 lead)
Development of supplementary technical guidance for integrating EO into NAPs, including through stakeholder workshop	Q4 2020 – Q4 2021	S4-2
Organisation of Second GEO Climate Workshop (with focus on climate finance?)	Q4 2020 – Q3-Q4 2021	All (S1 lead)
Twining with national (Party) representatives for the Reach and Systematic Observation (RSO) subgroup of SBSTA	Q4 2020 – Q2 2021	S2
Preparation of annual briefing as a debrief in advance of COP on the work of GEO and the broader EO/SO community	Q3 2020 – Q3 2021	S2
Participation in UNFCCC SBs, COP26, SBSTA Earth Information Day, and organisation of side-events	Q1 2021 – Q4 2021 (1-12 November)	All (S2 lead)
Participation in/Organisation of a planned Workshop (Copernicus/CEOS) bringing together GHG and AFOLU EO Communities	Q1-Q2 2021	S3-2

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Deliverables / Milestones	Timeline (start – end dates)	Subgroup
Participation in/Organisation of dedicated session in GEO Symposium	Q2 2021 and Q2 2022	All (S1 lead)
Participation in/Organisation of GEO Week side events including Plenary session on Climate Action	Q2 2021 – Q4 2021 (November) and Q2 2022 – Q4 2022 (November)	All (S1 lead)
GEO's participation in GCOS 2nd Climate Observation Conference	Q4 2021 (12-14 October)	All (S1 lead)
Preparation of GEO's response on EO gaps identified by IPCC Special Reports / AR6	Q1 2021 – Q4 2021	All
Organisation of joint GEO-IPCC Expert meeting on the topics of land representation, the role of remote sensing and field measurements, and uncertainty	Q2 2021 – Q2 2022	S2-3-4
Definition of application specific EO requirement addressing all aspects of the UNFCCC, including through a stakeholder workshop	Q3-4 2021 - Q2-Q3 2022	All (S1 lead)
Organization of 2 webinars targeted to developing countries on the use of EO for GHG mitigation actions, focusing on GEO activities, best practices and country needs	Q3 2021 and Q2 2022	S3

How can CCI contribute?

- Collaborating with GEO CC-WG, in particular to deliver:
 - Supplementary technical guidance for integrating EO into NAPs, including through stakeholder workshop
 - GEO's response on EO gaps identified by IPCC Special Reports / AR6
- Other deliverables from the CC-WG roadmap where CCI's contribution can be an added value through the provision of use cases in different sectors, data/maps for resilience building, AI and innovation approaches