

Joint CEOS/CGMS Working Group on Climate

11th Session

Agenda

1. Introduction and Context

09:00 – 09:30	<p>Welcome and Introduction (J. Schulz)</p> <ul style="list-style-type: none"> • Round table introduction (All) • Acceptance of Agenda (J. Schulz)
09:30 – 10:00	<p>Status of Working Group (J. Schulz)</p> <ul style="list-style-type: none"> • Status of CEOS Workplan Actions • Status of WGClimate Actions • Meeting Objectives
10:00 – 10:30	Status of GHG Task Team and Roadmap (M. Dowell & A. v. Bargaen)
10:30 – 11:00	Coffee Break
11:00 – 11:15	Discussion on GHG Roadmap (All)
11:15 – 11:30	WGISS Carbon Portal Demo (Liping Di)

2. Data Record Definition

11:30 – 12:00	Update of FCDR, CDR, ICDR Definition (J. Schulz, J. Privette & C. Merchant)
12:00 – 12:30	Discussion and eventual endorsement of proposals (J. Schulz)
12:30 – 13:00	The role of non GCOS ECV for the ECV Inventory <ul style="list-style-type: none">• Introduction (J. Privette)• Discussion (All)
13:00 – 14:00	Lunch Break

3. Activities towards and with Stakeholders & Partners

14:00 – 14:15	WMO Catalogue for Climate Data https://climatedata-catalogue.wmo.int/ <ul style="list-style-type: none"> • Info and potential link (C. Lief, W. Balogh)
14:15 – 14:45	Case Studies <ul style="list-style-type: none"> • Confirmation of role of WMO (WGClimate10-12) (W. Balogh) • Pre-selection of case studies (WGClimate10-13) (S. Pinnock & J. Schulz)
14:45 – 15:30	Evolution of climatemonitoring.info <ul style="list-style-type: none"> • Proposal for a consolidated vision for the evolution of the climatemonitoring.info website (WGClimate10-20) (J. Privette, R. Husband, S. Pinnock)
15:30 – 15:45	Coffee Break
15:45 – 16:00	Evolution of SCOPE-CM (J. Privette)
16:00 – 17:00	COP-25/SBSTA-51 Stat (J. Schulz, D. Crisp) <ul style="list-style-type: none"> • Statement for SBSTA-51 • Earth Information Day (Discussion)

Day 2 Item 4

4. ECV Inventory, Gap Analysis & Coordinated Action Plan

09:00 – 09:30	Status of ECV Inventory and Gap Analysis (A. Nunes & J. Schulz)
09:30 – 10:00	Coordinated Action Plan (J. Schulz)
10:00 – 10:30	<p>Organisation of Working Session (J. Schulz)</p> <ul style="list-style-type: none"> As we struggle for several reasons with getting the gap analysis going, we need to do an effort at the meeting to review the material that we receive until the meeting and sort out the ECVs for which we have some expertise. This may follow the approach that we used in Geneva in March 2018.
10:30 – 11:00	Coffee Break
11:00 – 13:00	Working Session Gap Analysis (All)
13:00 – 14:00	Lunch Break
14:00 – 15:30	Working Session Gap Analysis (All)
15:30 – 15:45	Coffee Break
15:45 – 16:00	Wrap up Gap Analysis & Coordinated Action Plan (J. Schulz)
16:00 – 17:00	<p>Discussion on future of ECV Inventory and Gap Analysis (J. Schulz)</p> <ul style="list-style-type: none"> This discussion shall be a reflection of round two of the ECV Inventory population, verification and gap analysis process. We think of discussing needed resources at agency level and maybe of new models to perform the work.

<https://www.49statebrewing.com/>

5. Joint session with LSI VC

09:00 – 09:10	Context and CEOS Work Plan Tasks and Deliverables (Matt Steventon & Jörg Schulz)
09:10 – 9:30	CEOS/CGMS WG Climate (Jörg Schulz) <ul style="list-style-type: none"> • Coordinated climate actions on land surface ECVs • Potential for LSI-VC support • Biomass ECV, including the role of the Biomass CCI
09:30 – 10:10	Discussion: WGClimate Collaboration Opportunities with LSI VC (All)
10:10 – 10:30	MIM Database API and Web UI Update (G. Dyke)
10:30 – 11:00	Coffee Break

6. Summary and Actions

11:00 – 12:00	Review of Minutes and Actions, Concluding Remarks (Jörg Schulz)
12:00	Adjourn

Status of Joint CEOS/CGMS WGClimate

Jörg Schulz, EUMETSAT

Chair Joint CEOS/CGMS Working Group on Climate

Albrecht von Barga, DLR

Vice Chair Joint CEOS/CGMS Working Group on Climate



Until November 2020

- Chair: Jörg Schulz (EUMETSAT)
- Vice Chair: Albrecht von Bargaen (DLR)

November 2020 – November 2022

- Chair: Albrecht von Bargaen
- Vice Chair: asking for proposals by Agencies

In the alternating chair position the next term is for CGMS. Nevertheless we will call for nomination to CEOS and CGMS after CEOS Plenary.



Achievements since last meeting

- CGMS-47:
 - Achieved formal endorsement for WGClimate leadership change;
 - Achieved formal endorsement of the greenhouse gas monitoring constellation white paper;
 - Achieved formal endorsement of GHG Task Team and updated TOR from CGMS-47;
 - Closed all open actions on CGMS side. Reminded CGMS agencies to participate;
 - Synchronised CGMS HLPP with CEOS work plan;
- Finalised and delivered a statement to SBSTA-50 in June;
- Became part of a dialogue on Systematic Observations with the SBSTA chair that also contained IPCC, WMO and WCRP;
- Worked hard on population and verification of ECV Inventory 3.0;
- Launched gap analysis but are behind schedule...
- Published a piece on WGClimate in the CEOS newsletter.

- CGMS-47:
 - During the discussion of the GHG Task Team it was confirmed that the JWGClimatE roadmap will also present considerations on the required resourcing to support the GHG coordination activities. These resources will have to be endorsed by CEOS and CGMS and are part of the roadmap presented to 33rd CEOS Plenary and in writing to CGMS.
 - Noting the GCOS should be a single voice for the requirements it is important for CGMS to understand the potential implications of the WMO restructuring on the interfaces between CGMS and the requirements/GCOS. Hence, an action was placed on WMO to present the implications at the next CGMS Plenary.

- On surface winds ISRO was concerned that ScatSat data should be included in surface wind climatology. We agreed and invited ISRO to put info into the ECV Inventory and participate in gap analysis.
- Built a relation with training activities in CGMS to foster case studies. This is reflected in update of CGMS HLPP:

Conduct regional satellite users' conferences to (i) share experience and foster the exchange of ideas; ii) promote better access, and improve the utilisation of, existing satellite data and products; (iii) prepare the user community on new satellite systems' data products and services, (iv) engage with the user community on the application of new ECVs, supported by the CEOS-CGMS Joint Working Group on Climate, (v) gain user feedback on data, product and system real-world application (vi) engage young people entering the field and (v) other items as appropriate.

CGMS-47 - Outcome

Organisation	Item	ACTION #	Action	When	Status
WMO	8.2	A47.13	Climate session: WMO to present implications of the WMO constituent body reform to the interface between CGMS and the requirements/GCOS at CGMS-48.	CGMS-48	OPEN
CGMS members	8.2	A47.14	Climate session: CGMS members are invited to provide application case studies that use climate data record to support training.	CGMS-48	OPEN
SCOPE-CM	8.2	A47.15	SCOPE-CM to provide implementation plan based on the agreed new concept (ref. CGMS-47-SCOPE-CM-WP-01)	CGMS-48?	OPEN
CGMS agencies	8.2	A47.16	[Although generally endorsed by plenary] CGMS Agencies to consider the SBSTA statement and to provide comments to CGMSSEC before 31 May if/as necessary.	31 May 2019	OPEN
WGClimate	8.3	A47.17	Climate/GHG session: WGClimate to present the roadmap for the implementation of the recommendations from the GHG monitoring constellation white paper (including resource implications)	31 Oct 2019	OPEN

Climate Monitoring, Research, and Services Objectives/Deliverables: 2019-2021

Objective/Deliverable	Projected Completion Date	Background Information	Responsible CEOS Entity
Information dissemination and communication			
CMRS-13: Development and Promotion of Case Studies	Q3 2019	Previous work, supervised by the EC JRC and WMO, has already produced WMO 1192 Case Studies for Establishing an Architecture for Climate Monitoring from Space. WGClimate #10 will discuss how additional case studies may be realized. The results and potentially an updated plan for case studies is targeted for 2019.	WGClimate

Annual delivery of the Essential Climate Variable inventory			
CMRS-17: Collection, incorporation, and quality control of new & updated information from data providers	Q4 every year	Based on a stable questionnaire, with potential updates of the inventory structure, to accommodate, for example, requirements stemming from C3S and WCRP; and experiences from applicable projects.	WGClimate
CMRS-20: Gap analysis	Q4 every year	WG chairs will initiate gap analysis work that always provides incremental updates to the year before in terms of improvements on the compliance to GCOS requirements and a report in focus areas addressing needs of CEOS and CGMS. The gap analysis is coordinated by the WG Chair team and support by several expert teams that will perform the gap analysis in parallel.	WGClimate
CMRS-21: Action plan	Q4 every year	The action plan identifying agreed actions that CEOS and CGMS Members and Associates intend to take to address priority gaps will be updated once a year. The actual action plan will be endorsed and released to the CEOS community at a suitable meeting.	WGClimate

Engagement with UNFCCC and GCOS

CMRS-22: CEOS contribution to COP meetings	Q4 every year	WG Chair drafts the "Space Agencies Statement" and other contributions as agreed with the UNFCCC Secretariat and presents this for endorsement to CEOS Plenary.	WGClimate
CMRS-23: Intermediate report on the status of the Space Agency Response to the 2016 GCOS Implementation Plan	Q3 2020	This report assesses the status of activities from the "Space Agencies response to the 2016 GCOS IP" and provides an updated of the report to GCOS. Report is assumed to need endorsement by CEOS and CGMS Plenaries. This should consider the Coordinated Action 12 on monitoring progress on GOCS Action T71 (results for this should come from action CMRS-30-2018-1).	WGClimate
CMRS-24: Support to the GCOS Status report on observing systems for climate monitoring	Q3 2021	WGClimate shall support to the assessment of the fulfilment of the 2016 GCOS IP. Outputs from Actions CMRS-23, 24, and 28 shall provide a solid picture of space agencies contributions.	WGClimate

Implementation of the international greenhouse gas monitoring system

<p>CMRS-25: Provide oversight to the implementation of the international greenhouse gas monitoring system (Coordinated Actions 11, 13, and 14).</p>	<p>Q3 2019 Q3 2021 Q3 2026</p>	<p>Three sub deliverables are defined:</p> <ul style="list-style-type: none"> • Establish a roadmap for the development of a GHG monitoring system • Develop of a prototype GHG monitoring system • Develop the initial operational GHG monitoring system 	<p>WGClimate</p>
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Climate Data Records

<p>CMRS-26: Update definitions for FCDR, CDR, ICDR (Coordinated Action 1)</p>	<p>Q3 2019</p>	<p>Update definitions for Fundamental Climate Data Records, Climate Data Records for GCOS ECVs and Interim Climate Data Records for both types of data records. It is planned to agree on definitions at 10th and 11th WGClimate meetings during 2019.</p>	<p>WGClimate</p>
<p>CMRS-27: Implement Coordinated Actions 5 on FCDR Inventory, 6 on nomenclature document for CDRs, 10 on meta data standards</p>	<p>Q3 2020</p>	<p>Upgrade the ECV Inventory technically that it can provide information on Level 1 base data records (FCDRs) used for CDRs of GCOS ECVs. Provide to CEOS agencies documentation on CDR related nomenclature and meta data standards.</p>	<p>WGClimate</p>

Goals for this meeting

- Take stock of progress on GHG roadmap and prepare for side meeting in Fairbanks;
- Continue discussion on definitions for climate data records;
- Discuss the issue of data records for the Inventory that are not GCOS ECV and maybe decide on a way forward;
- Take in formation on WMO Catalogue of Climate Data and SCOPE-CM after CGMS-47;
- Make progress on case studies for the architecture;
- Discuss future evolution of climatemonitoring.info;
- Discuss content of SBSTA-51 statement and contribution for Earth Information Day at COP-25;
- Discuss in depth ECV Inventory and gap analysis inclusive thinking on changing the process to make it more efficient;
- Discuss implementation of coordinated actions and how we may improve it;
- Discuss with LSI-VC, GEOCLAM, SDG groups on their support to WGClimate and v.v.

- The next meeting shall take place in about 8 months, i.e., ~May 2020 but prior to CGMS-48:
 - Take stock of 2020 ECV Inventory, gap analysis, and coordinated actions;
 - Take stock on GHG roadmap execution;
 - Finalise next case study report;
 - Intermediate status report on the status of the Space Agency Response to the 2016 GCOS Implementation Plan (2020);
 - Start support to the GCOS Status report on observing systems for climate monitoring (2020-2021);
 - Start support to the update of the GCOS Implementation Plan (2020-2022);
- Still want to try to make it in China.