

CEOS SEC Report

(two pages max.)

Entity: WGDIsasters Chair Team

Prepared By: NASA

Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

- No updates

Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

- No issues

Other highlights, activities, actions, projects, collaborations

(Dot points, e.g. outputs, new products, papers, technical reports, media, pipeline and new projects, interactions, project status changes, new opportunities)

- CEOS WGDIsasters and UN-GGIM WG-Disasters collaboration continues, through exploration of how the GGIM Strategic Framework on Geospatial Information and Services for Disasters may inform CEOS WGDIsasters activities at national levels as well as design and implementation of scenario-based exercises on different hazards.
- Generic Recovery Observatory Demonstrator Team continues to meet regularly. The Team has developed a Demonstrator proposal for review at SIT TW.
- GEO/LEO/SAR Flood Pilot Team continues to meet regularly. The Team has developed a Pilot proposal for review at SIT TW.
- Flood Pilot Team is working closely with COAST and WGISS leadership to identify integration opportunities and shared geographical focus areas.
- Updated WGDIsasters DRM Strategy document is being finalized for submission at review at SIT TW.
- CEOS SIT Chair Team has requested that WGDIsasters consider a new Wildfire Pilot effort. An exploratory meeting was held on 24 June to bring together interested parties and discuss feasibility. A draft Pilot proposal has been shared with WGDIsasters Chair/Vice Chair for review. Wildfire Pilot scoping will be a dedicated agenda topic during WGDIsasters-14.

Upcoming meetings or events

(Dot points, e.g. meetings, conferences of relevance, visits)

- WGDIsasters-14
 - Virtual, 1100-1400 UTC, 1-3 September

CEOS SEC 268 Report

(two pages max.)

Entity: WGClimate

Prepared By: Jörg Schulz (EUMETSAT), Chair

Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

- None

Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

- None

Other highlights, activities, actions, projects, collaborations

(Dot points, e.g. outputs, new products, papers, technical reports, media, pipeline and new projects, interactions, project status changes, new opportunities)


- The ECV Inventory #3 has been published July 30, 2020 on the WGClimate web page (<https://climatemonitoring.info/ecvinventory>), advertisement messages were sent, CEOS-SEC Action 238-07 is completed,
- The delivery of the Cycle 3 Gap Analysis and Coordinated Action Plan has moved to autumn 2020 (due to COVID-19 impact on EUMETSAT contractors), but should be ready for Plenary approval.
- Use Case gathering tool has been integrated into climate“Use Cases” web page (<https://climatemonitoring.info/use-cases>) open for submission on July 27, 2020 and was advertised on Twitter on August 4, 2020. GEO has forwarded this to their mailing list on July 30, 2020
- The GHG Task Team provides an update of the GHG roadmap document for the CGMS-48 Plenary on August 25&26. This is to ensure involvement of the CGMS standing working Groups in the coordination of the operational GHG constellation.

Upcoming meetings or events

(Dot points, e.g. meetings, conferences of relevance, visits)

- CGMS-48 Plenary, 25&26 August held as virtual meeting. The very much shortened agenda was drafted and contains a 1h block on Climate&GHG Monitoring with 30 minutes for the Joint WGClimate. We will have a very compact presentation that addresses everything from WGClimate including the GHG Roadmap.
- WGClimate#13 meeting is still planned for in between the SIT TW and the CEOS Plenary as another Virtual Meeting, data TBD

Attachments (e.g. pictures, figures, graphs, links – for use in overall CEOS reporting and as website resources etc.)

 CEOS
@CEOSdotORG

The @CEOS/@CGMS Working Group on Climate (#WGClimate) just released a new version of the #EssentialClimateVariables Inventory, a database of info on satellite-derived #ClimateDataRecords addressing the #GCOS ECVs. Get access & learn more: climatemonitoring.info/ecvinventory

Climate Monitoring from Space

Climate Monitoring | Observation Needs | Architecture | Coordination | **ECV Inventory**

ECV Inventory


The Essential Climate Variables (ECV) Inventory houses information on Climate Data Records (CDR) from member agencies. The inventory is a structured repository for the characteristics of two types of GCOS

- Climate data records that exist and are accessible, including frequently updated interim CDRs;
- Climate data records that are planned to be delivered.

The ECV Inventory is an open resource to explore existing and planned data records from space agency unique source of information on CDRs available internationally. Access links to the data are provided with the data's provenance, integrity and application to climate monitoring.

The inventory is continuously updated by data producers and curators, and new versions of the database are released on a biannual basis. The current version of the ECV Inventory is based on data collected during 2019. The inventory is available below, and a static export is available here: [ECV_Inventory_v3.0](#). For completeness, v2.0 is also available here: [ECV_Inventory_v2.0](#).

7:39 pm · 4 Aug 2020 · [Twitter Web App](#)

 CEOS
@CEOSdotORG

Tell us a story! 📖 How have you used #ClimateDataRecords from satellite #EarthObservations for societal benefit? Tell us about it here to enhance awareness and expand the space-based #climatemonitoring user community: climatemonitoring.info/use-cases

Climate Monitoring from Space

WGClimate
Working Group on Climate

Climate Monitoring | Observation Needs | Architecture | Coordination | ECV Inventory | **Use Cases** | [Use Cases](#)

Use Cases for Climate Monitoring from Space

Building on the architecture for climate monitoring from space and an initial set of case studies for establishing the architecture published in 2019, as well as on the ECV Inventory of Climate Data Records, the joint CEOS/CGMS Working Group on Climate together with the World Meteorological Organization (WMO) are soliciting use cases to demonstrate the value of Earth Observation satellites for societal benefit and decision making.

All cases submitted with complete information will be published here, and some selected use cases will also be considered for publication in a WMO special report to illustrate the importance of satellite observations for climate monitoring and climate service. Please consider submitting your use case using the [web-based submission form](#) below.



[Use Cases for Climate Monitoring from Space](#)

Background

3:15 PM · Aug 4, 2020 · [Twitter Web App](#)

CEOS SEC-268 Report

(two pages max.)

Entity: WGCapD

Prepared By: Nancy Searby (Chair/NASA) and Pham Thy (Vice Chair/VNSC)

Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

- None

Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

- None

Other highlights, activities, actions, projects, collaborations

(Dot points, e.g. outputs, new products, papers, technical reports, media, pipeline and new projects, interactions, project status changes, new opportunities)

- Coordinating with CEOS Systems Engineering Office (SEO) to enhance the CEOS training calendar with additional features and functionality, including social media sharing options for CEOS Training events to reach a wider audience. Also, redesigned the homepage to provide a more structured appearance for users.
- Working on WGCapD deliverables as defined in the work plan and tracking changes to scheduling result from COVID-19-related delays.
- Planning for the August 2020 monthly Space Capacity Development Advisory Board (SCDAB) meeting to focus on evaluating options for convening the board by the end of 2020.
- Reviewed and provided comments on the WGCapD section of the CEOS 2020-2022 Work Plan.
- The WGCapD Chair has participated in GEO Working Group Capacity Development (WG CD) co-chair meetings to define initial work plans.
- Holding the second round of four quarterly regional calls as follows: Europe on September 22, 2020; Asia-Oceania on September 23, 2020; Africa on September 25, 2020; and Americas on September 29, 2020.
- Exploring dates in March 2021 for the WGCap-10 Annual Meeting to take place in advance of SIT-36.
- Deliverable CB-18-06 to open the multi-lingual MOOC for advanced practitioners/experts on radar backscatter has been delayed from July due to impacts of the pandemic, and is now expected to open in the September/October timeframe.

CEOS SEC Report

(two pages max.)

Entity: WGCV

Prepared By: Cindy Ong (CSIRO), Akihiko Kuze (JAXA)

Updates on issues raised during the last CEOS SEC teleconference

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Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

- First draft of a consolidated contribution for the GHG tasks from WGCV has been submitted;
- In discussion with WGISS and SEO on repository action item for GHG task;

Other highlights, activities, actions, projects, collaborations

(Dot points, e.g. outputs, new products, papers, technical reports, media, pipeline and new projects, interactions, project status changes, new opportunities)

- Another site (Baotou Sandy) has been accepted as part of RadCalNet

Upcoming meetings or events

(Dot points, e.g. meetings, conferences of relevance, visits)

- CEOS WGCV Plenary #48 Virtual, November 2020
- CEOS WGCV Plenary #49, TBA, Tokyo, Japan
- CEOS WGCV Plenary #50, TBA, Sochi, Russia
- CEOS WGCV Plenary #51, TBA, Caltech, Pasadena

Attachments

(e.g. pictures, figures, graphs, links – for use in overall CEOS reporting and as website resources etc.)

CEOS SEC-268 Report

Entity: SIT Chair Team

Prepared By: J. Ross (GA) & CSIRO

Updates on issues raised during the last CEOS SEC teleconference

- None.

Issues requiring discussion/decision during current CEOS SEC teleconference

SIT TW

- A draft **Meeting Protocols and Technical Guidance** document has been circulated to the CEOS community for comments.
 - o **Thoughts from SEC members are encouraged prior to 25 August.**
 - o It proposes a more informal approach for the majority of sessions, consistent with the nature of a SIT TW.
 - o The opening and closing sessions will be similar to SIT-35.
 - o WebEx, rather than Zoom, will be used as the backup technology. GoToMeeting will remain the primary technology.
- The SIT Chair Team has received comments on the draft **SIT TW agenda** from a number of CEOS Agencies, as well as from specific Working Teams.
 - o **Any final thoughts from SEC are sought at SEC-268.**
 - o The SIT Chair Team will release a “pre final” version of the SIT TW agenda to the broader CEOS community around 25 August.
 - o No proposals have been received for the Ideas Stage session to date.
 - o The ‘pre final’ version will be complete in terms of the structure, nature and timing of sessions with only minor changes to detailed session agendas (e.g., confirmation of speakers, ordering) expected after that point.
 - o The SIT Chair Team is aware of issues around session timing, particularly for attendees from the US/Canada West Coast and Asia/Australia/Pacific region. Should the current situation continue, CEOS may need to have a considered discussion of a strategy to ‘share the pain’.
- A preparation call will be held with session leads on the 27th of August for a final review of TW preparations, and to identify any outstanding issues (e.g., availability of people).
- SEC Agencies are kindly requested to work internally to help the SIT Chair Team confirm presenters and session leads as soon as possible.

Other highlights, activities, actions, projects, collaborations

Carbon & Biomass

- UNFCCC SEC, GCOS, GFOI and GEO WGClimate have all accepted invitations to the special external discussion session planned as part of the Carbon and Biomass Day at SIT TW.
- The AFOLU White Paper is progressing under leadership of JAXA and ESA.

- The CEOS Biomass Protocol is almost finalised and should be submitted ahead of Plenary for endorsement and discussion of support for implementation.

SDGs

- Ongoing work and progress in all sub teams (but a bit slowed down with holidays period)
- SIT TW special session on SDGs: agenda is being revisited and edited (more focus)
- Templates sent (set of slides) to sub teams co-leads to report at SIT TW consistently
- Last SDG call: it has been decided to not invite external speakers to this session as it should be focusing on CEOS matters
- Next call: 25th August

ARD

- CEOS Analysis Ready Data – Involving the Private Sector paper will be distributed to the CEOS list two weeks prior to the SIT TW.
- The written responses to all of the unanswered questions from the first CEOS Analysis Ready Data Webinar held back in July were posted on the CEOS ARD website (<http://ceos.org/ard/faq.html>).
- The next date and topic for the CEOS ARD webinar series is under discussion within LSI-VC and should be announced in the coming weeks.

Upcoming meetings or events

- TW: virtual, weeks of 7 and 14 September 2020
- SIT-36: Week of March 22. The dates have now been confirmed as no objections have been raised.

CEOS SEC-268 Report

(two pages max.)

Entity: Ad Hoc Team on SDG

Prepared By: F. Kerblat (CSIRO) for M. Paganini (ESA) and A. Held (CSIRO)

Updates on issues raised during the last CEOS SEC teleconference

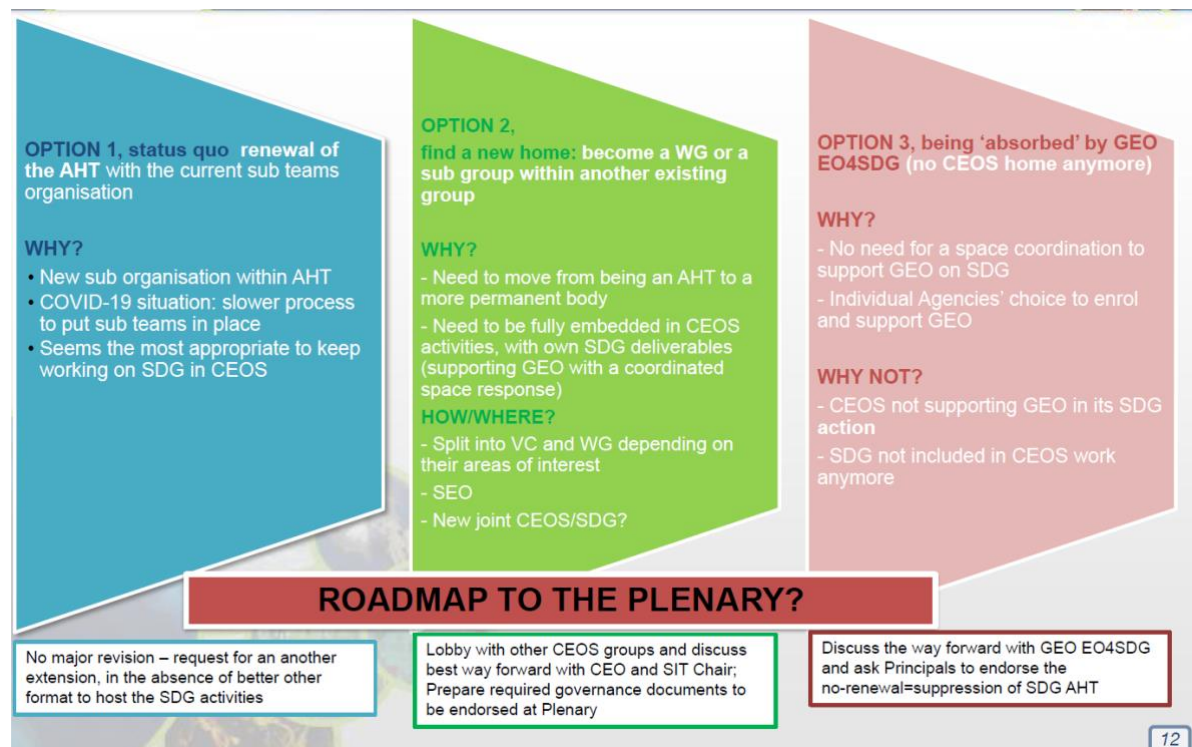
(Dot points)

- N/A

Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

- Agencies are invited to start discussing internally about the 3 options proposed on the continuity of the SDG-AHT (suggested in the last SDG-AHT meeting and to be discussed at SIT TW during the SDG session)



Other highlights, activities, actions, projects, collaborations

(Dot points, e.g. outputs, new products, papers, technical reports, media, pipeline and new projects, interactions, project status changes, new opportunities)

- Ongoing work and progress in all sub teams (slowed down with holidays period):
 - o 6.6.1 sub-team (water ecosystems) engaged experts from GEO initiatives (GEO AQUAWATCH, GEO WETLANDS and GEO GLOWS) to analyse the satellite data requirements for the sub-indicators and related EO variables. A first version of the 6.6.1 satellite data requirements will be presented at the TW.

- 11.3.1 sub-team (land use efficiency) has reached out to experts from the GEO initiatives (GEO HPI and GUOI) to jointly analyze the satellite data requirements for the indicator 11.3.1 and review the adequacy of historical, present and future satellite observations to respond to these data needs.
 - 15.3.1 sub-team (land degradation) is currently refining the indicator support sheet that will synthesize the EO data analysis. The team is in the process of getting more external inputs from the GEO LDN community and has reached out to Antje Hecheltjen (GEO LDN co-chair) who will coordinate the GEO LDN technical inputs for the Satellite Data Requirements table.
 - 14.1.1 sub-team (coastal pollution) has integrated the 14.1.1 satellite data analysis into the work plan of the “Land to Sea impact” pilot project of the COAST Study Team.
- An SDG-AHT Google Drive has been set up to facilitate the collection of inputs from EO experts.
 - SIT TW special session on SDG: based on recent discussions and comments (eg. from NASA), the agenda has been revisited and edited (more focus)
 - Templates prepared and sent to sub teams’ co-leads to report at SIT TW consistently and ensure we keep enough time for other topics.
 - Important topic for discussion at SIT TW: continuity of the CEOS work on SDG (3 options to be discussed at SIT TW)
 - In the last SDG call: it has been decided to not invite external speakers to this session as it should be focusing on CEOS matters.

Upcoming meetings or events

(Dot points, e.g. meetings, conferences of relevance, visits)

- Next meeting (last one before SIT TW): 25th August

Attachments

(e.g. pictures, figures, graphs, links – for use in overall CEOS reporting and as website resources etc.)

CEOS SEC-268 Report – August 2020

Entity: SEO

Prepared By: Brian Killough (NASA)

Issues requiring discussion/decision during CEOS SEC teleconference

- None

Updates on issues raised during the last CEOS SEC teleconference

- None

Upcoming meetings or events

- The SEO will lead a **briefing with Google** on August 26. The SEO is partnering with GPSDD (Global Partnership for Sustainable Development Data) to use Google Cloud credits in order to demonstrate the Open Data Cube connected to Google Earth Engine datasets. The SEO has created several unique Jupyter notebook algorithms for interoperable products using Landsat-8, Sentinel-1, Sentinel-2 and ALOS as well as other datasets (e.g. SRTM DEM, VIIRS Nightlights, rainfall, air temperature). The applications include water detection, cloud masking, mission coincidences and urban extent.

Other highlights, activities, actions, projects, collaborations

- The first **Digital Earth Americas Workshop** was held on August 19. The event was led by the CEOS-SEO, INEGI (Mexico) and CEPAL (Chile). Also included in the meeting was GEO, GPSDD and 8 other countries from the region. The meeting was focused on needs in the region and how a regional data cube (similar to Digital Earth Africa) could support users.
- The annual **IGARSS conference** will be held virtually from Sept-28 to Oct-2. The SEO is leading a session with GA on Open Data Cubes (ODC) and Analysis Ready Data (ARD). 12 papers are planned for these topic areas.