

## CEOS SEC-274 Report

**Entity:** SIT Chair Team

**Prepared By:** J. Ross (GA) & CSIRO

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### Updates on issues raised during the last CEOS SEC teleconference

- See below for an update on the AFOLU / Global Stocktake discussions agreed to during SEC-273.

### Issues requiring discussion/decision during current CEOS SEC teleconference

#### CEOS ARD Logo Guideline (attached)

- As per action 272-01, the attached guidance document has been developed for use of the CEOS Analysis Ready Data logo.
- Once the work to develop an overarching logo policy has been completed, this document can be updated to meet any templates that are established.

#### SIT-36

- CEOS Secretariat members are invited to offer their initial thoughts on content to the SIT Chair Team as soon as possible, but no later than the end of December.

#### GEO Programme Board

- The GEO Secretariat has approached CEOS to ascertain its interest in nominating for a co-chair seat on the GEO Programme Board. Since making this approach, IEEE GRSS (Geoscience and Remote Sensing Society) has nominated for the vacant seat. The individual in question (Tony Milne) is an active and well-regarded member of the Programme Board.
- The GEO Programme Board has three co-chair seats. One from a Member government, one from a Participating Organization (PO) and a third seat that can be from either a Member government or PO.
- The Participating Organization co-chair seat is currently vacant. In recent years the role has been filled by ESA in its capacity as Participating Organization. ESA has indicated it is not continuing in this role.
- According to GEO Rules of Procedure, the term for a co-chair seat coincides with the Member/PO's current term on the Programme Board. CEOS's current term runs from 2020-2022 inclusive. As such, were it to nominate CEOS would be nominating to serve as a Programme Board co-chair for 2021 and 2022. *(Note 1: should CEOS successfully re-nominate to the Programme Board for a further term [2023-2025] it could then also re-nominate for a further three year term as a co-chair, but this is not mandatory. Note 2: CEOS could in theory attempt to nominate for only one year, or nominate for both years but then pull out if unable to follow through).*
- The GEO Secretariat advises that the principal representative to the Programme Board must serve as the co-chair. In the case of CEOS, the principal representative has historically been a representative from the SIT Chair Team (with the alternative representative being the CEOS Executive Officer) in recognition of the SIT Chair's lead role in the CEOS relationship to GEO. However, It is a matter for CEOS to determine who its principal representative is.
- Secretariat guidance is sought on:
  - o Whether CEOS can resource a co-chair seat for both 2021 and 2022, noting that the CSIRO/GA SIT Chair Term concludes in 2021.

- o Whether CEOS should, if resourcing were to be available, nominate for the co-chair seat, noting that IEEE GRSS has now nominated.

#### CEOS-GEO Bilateral

- Following an internal coordination call, the CEO Team, SIT Chair Team and GEOSEC met to discuss format and agenda topics for the 2021 CEOS-GEO bilateral.
- The preliminary topics for the bilateral, which will be an informal meeting over approximately 2 x 2.5-3 hour sessions, are:
  - o Overarching
  - o Open Science - CEOS Chair priority, Open Science Statement and the GEO Knowledge Hub
  - o Open Earth Alliance and Data Cubes
  - o Analysis Ready Data and the Cloud - status, activities, pilots (including DE Africa)
  - o In situ - Biomass Reference Network
  - o Capacity Building - EOTEC
  - o Dashboards (beyond COVID)
  - o Disasters - emerging activities and ensuring linkages
  - o Climate - Global Stocktake Preparation
  - o Marine - COAST and support for the UN Decade of Ocean Science
  - o GEO Urban Resilience - scoping and links
  - o CEOS and GEO roles in support of the SDGs
- Further consolidation, including liaison across the CEOS community, will occur over the coming weeks under the coordination of the CEO.

#### Working Team All Hands Call

- The 3rd SIT Chair Working Team All Hands Call was held on Tuesday 8th/Wednesday 9th of December. Topics included:
  - o SIT TW and CEOS Plenary Debrief
  - o CEOS 2021-2023 Work Plan Process
  - o Possible CEOS Contribution to the UN Decade of Ocean Science for Sustainable Development (2021-2030)
  - o Earth Analytics Interoperability Lab (EAIL)
  - o ARD Extension Beyond Land Update
  - o CEOS Carbon Strategy
  - o 2021 SIT Chair Planning
- A set of informal notes will be shared shortly.

#### Informal Discussions with Virtual Constellations

- The SIT Chair Team has concluded its final round of informal discussions with the VCs for the year. These informal meetings continue to be a useful format to discuss opportunities for the SIT Chair Team to support VCs.

## **Other highlights, activities, actions, projects, collaborations**

### Carbon & Biomass

- Global Stocktake Study Team Call – Summary of agreements and next steps:
  - Strong consensus in the study team on the need for a high-level strategy statement which identifies all the potential aspects and dimensions for CEOS engagement in the Global Stocktake process. This should include a sense of priorities, be clear on what is underway and remains to be done, and guidance on the need for linkages between the different thematic activities and groups across CEOS.
  - SIT Chair and Vice-Chair Teams are happy to provide the necessary coordination but will need significant support from the thematic experts, including WGClimate, LSI, AC-VC and Oceans.
  - In parallel, the GHG and AFOLU activities should continue apace, particularly noting the GST1 deadline of COP-26 and the need to engage dataset producer agencies.
  - SIT-36 is the nominal target for the statement, in support of a substantial agenda item on the GST at that meeting.
  - The next Study Team call will be in the second half of January, and timed in relation to the next AFOLU team call which is expected to include GHG task team.

### SDGs

- SDG-AHT monthly teleconference was held on November 23 to discuss the SDG-AHT roadmap short term plan.
- The first draft of a synthesis paper with analysis of the pros and cons of different future options for the SDG-AHT was distributed on 11 December 2020 for review.
- Feedback received on the synthesis paper (by 18 December) will be integrated and the final version will be shared together with the SDG-AHT Future workshop invitation.
- The SDG-AHT Future workshop is planned to take place in the last week of January or first week of February 2021.

### ARD

- Guidelines for the use of the condensed version of the CEOS ARD logo is completed and presented at CEOS SEC-274 for clearance.
- The next CEOS ARD webinar is currently being planned and the expectation is that it will be held early February.
- Ed Armstrong presented at the CEOS Working Teams All Hands call an update on ARD Extension Beyond Land including its status and how working teams can engage.
- The next review cycle for the endorsed CEOS Product Family Specifications (Surface Reflectance and Surface Temperature) will start early January 2021.

### **Upcoming meetings or events**

- SIT-36. Virtual. Week of March 22, 2021.

# CEOS SEC-274 Report

**Entity:** CEO

**Prepared By:** Kerry Sawyer (NOAA)

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## **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)**

- CEOS 2021-2023 Work Plan “Plan”
  - See attachment
- CEOS Representation to the GEO Programme Broad for 2021
  - Need to discuss second Alternate to the PB
- CEOS Governance and Processes Revision
  - Changes were required to the Governance and Processes document to reflect changes to the CEO ToRs.
  - Need to also check to see if changes required for endorsed ERPP and NIPP
- Debrief from Innovation in Remote Sensing Technologies for Accelerated Climate Action Webinar
  - Dave Crisp, Brian Killough, Albrecht von Barga, and Kerry Sawyer participated in the 14 Dec webinar on behalf of CEOS. Dave gave a presentation in the session: *What do Governments need: What are the challenges and opportunities for Governments from a technology perspective, including developing and developed nations.*
  - Will provide a short write up of outcomes by 18 Dec 20.

## **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)**

- None

## **Upcoming meetings or events**

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

- See calendar 12.10.20

## **Attachments**

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

# CEOS SEC Report

(two pages max.)

**Entity:** WGDisasters Chair Team

**Prepared By:** NASA

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## **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)**

- WGDisasters Data Coordination Team (DCT) Lead Role

WGDisasters specifically pilots the feasibility and demonstrates the value of open data sharing, exchange and utility. We are not currently aware of other activities that are as actively sharing open and commercial data. This work is consistent with the priorities expressed in the current WG ToR and Strategic Paper. The required mechanisms, which include oversight of data negotiations, tracking and licenses as well as individual and organizational agreements are managed by the DCT. The DCT requires membership and focal points to be identified from across CEOS, especially those agencies with restricted access and commercial data. Pierric Ferrier has led DCT activities, but a replacement needs to be identified, before Pierric becomes WGDisasters Chair at 35<sup>th</sup> CEOS Plenary.

## **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)**

- WGDisasters held the 28<sup>th</sup> Telecon on 25 November. Work Plan activity leads provided progress updates.
- WGDisasters Wildfire Pilot Scoping Team is meeting regularly and developing an Implementation Plan. Pilot IP expected to be shared before CEOS SIT-36 for review and endorsement.
- WGDisasters Flood Pilot held its first technical workshop on 19 November. WGISS Chair Rob Woodcock provided an overview and updates on EAIL status. Pilot team leads shared progress updates, data sharing process details and relevant algorithms to be reviewed.

## **Upcoming meetings or events**

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

- WGDisasters-15
  - Virtual, 9-11 March 2021

# CEOS SEC Report

(two pages max.)

**Entity:** WGClimate

**Prepared By:** Albrecht von Bargaen (DLR), Jeff Privette (NOAA)

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## **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)**

- n/a

## **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)**

- UNFCCC Earth Information Day (EID):  
The format of the EID, virtual with different virtual rooms, was a new experience to some of the attendees, but was well accepted and led to some extent to lively discussions. The panel discussions on adaption and mitigation were both well attended. On behalf of CEOS and CGMS support to the Global Stocktake, Dave Crisp (NASA JPL) presented as seed for the discussion a slide show during the adaption panel. Posters had been shown in four parallel sessions (virtual spaces) moderated by UNFCCC whereof WGClimate had the opportunity to present three posters which a high recognition. (Topics: Use cases, GHG Atmospheric Inventory, ECV Inventory)  
It is worth to note that as outcome of a poster discussion, a Brazil NDC contact can lead to an use case in GHG and GST.
- Number of use cases show a slight increase but there is a need to further encourage agencies and others for contributions. The Chair team encourages agencies to support but will also intensify in the coming weeks measures to enhance the contribution list.
- Gap analysis on ECV inventory is ongoing
- Attendance of AFOLU videoconference on deliverables
- Attendance of CEOS GST study team

## **Upcoming meetings or events**

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

- Coming WGClimate meeting is under discussion for first quarter 2021

## **Attachments**

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

# CEOS SEC Report

(two pages max.)

**Entity:** WGISS (Working Group on Information System and Services)

**Prepared By:** Robert Woodcock – Chair (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)**

- N/A

## 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 Earth Analytics Interoperability Laboratory – A new AWS account has been provisioned by CSIRO Chile via the Chilean Data Observatory and movement of the deployed version of the CEOS EAIL to this account is underway, expected to be completed before Christmas.
- With the USGS Landsat Collection 2 release to AWS the CEOS EAIL is now preparing to index the archive as required for supported projects. This will supplement the S2 archive that is also available in AWS US West and provide a baseline for EO Cloud data access. Both archives use the new STAC metadata format but in different ways and an interoperability experiment will be conducted on the CEOS EAIL to assist in improving compatibility and use.

## Upcoming meetings or events

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

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## Attachments

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

# CEOS SEC Report

(two pages max.)

**Entity:** WGCapD

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

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## **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)**

- Continuing to work on WGCapD deliverables as defined in the work plan and tracking changes to scheduling resulting from COVID-19-related delays. Some recent progress includes:
  - CB-51/CB-20-10: The in-person air quality training that was completed in August in Thailand completed the [training report](#) which is posted on the WGCapD eLearning page, completing this deliverable.
  - CB-21/CB-17-02: Explore future options for providing portal-based access to capacity building and training resources was completed after linking the ISRO-developed portal to the WGCapD resources page.
  - CB-29/CB-18-07: The deliverable to conduct global capacity building courses through Webinar on Asia-GEOGLAM, SAR Missions' Present and future, Disaster Risk Reduction (UNOOSA) (global training-interactive) was completed. The United Nations Office for Outer Space Affairs and the Centre for Space Science and Technology Education in Asia Pacific launched the “Geospatial Applications for Disaster Risk Management” Massive Open Online [Course](#). 27,000 users attended at least some of the two-tier course consisting of 20 sessions, over 5,000 users completed the introductory level and 3,370 finished advanced level.
  - CB-46/CB-20-05: The Earth Observation Training, Education, and Capacity (EOTEC) Development Network (formerly known as SCDAB) held a planning call on December 10<sup>th</sup>. CGMS VLab capacity building network co-chairs joined the meeting for the first time and discussed the need for a gap-identifying coordinating group with questions around mandate and the need for resources.
- A capacity building assessment [survey](#) was sent out on Dec 11 to the WGCapD community to identify the key contributors, what kind of trainings each offer for various target audiences, and which tools each are using. We also included a few questions to explore stakeholder barriers and how each contributor is overcoming them, especially during these challenging times. Deadline to respond is Dec 31<sup>st</sup>, 2020.
- Continuing to develop the CEOS Webinar Toolkit: presented the plan to the WGCapD on the monthly meeting and working to compile components. Creation of a needs assessment guide, promotional flyer template, agenda template, storyboard template,



presentation template, and promotional draft email template is in-progress. These will be combined with best practice documentation, thematic nomenclatures and icons, logos, and acknowledgement statements in a full package of materials for working teams to use in their webinar creation.

- WGCapD Quarterly Regional Meetings with Asia-Oceania (Nov 30), Americas (Nov 30), Africa (Dec 1), and Europe (Dec 4) were held to discuss training activities and potential future work plan deliverables for broader awareness and coordination purposes.

#### **Upcoming meetings or events**

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

- WGCapD Monthly Meeting on Jan 7, 2020
- WGCapD-10 Annual Meeting will be held virtually the week of Mar 1-5, 2021. Registration is now [open](#). Details will be made available on the [CEOS website](#).

# CEOS SEC Report

**Entity:** WGCV

**Prepared By:** Akihiko Kuze (JAXA), Philippe Goryl (ESA)

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## **Issues requiring discussion/decision during current CEOS SEC teleconference**

- The Soil Moisture Product Validation Good Practices Protocol was endorsed by WGCV (Nov. 30) and uploaded to <http://ceos.org/about-ceos/publications-2/> .
- The Biomass Validation Protocol submitted by the WGCV LPV is under review and will seek endorsement by SIT-36.

## **Other highlights, activities, actions, projects, collaborations**

- CEOS study team on input to the UNFCCC GST (Dec. 9-10): Proposed flux validation efforts collaborating with AC-VC and WGClimate.
- WGCV report was submitted for CEOS Newsletter #56

## **Upcoming meetings or events**

- WGCV-49: July 2021 (virtual)
- WGCV-50: Early 2022 (Tokyo, Japan)

## CEOS SEC-274 Report – December 2020

**Entity:** SEO

**Prepared By:** Brian Killough (NASA)

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### Issues requiring discussion/decision during CEOS SEC teleconference

- **SEC Action 272-01** - Zoltan Szantoi, Brian Killough, and Jonathon Ross to prepare a half-page guideline on the use of the condensed version of the CEOS ARD logo.
  - o A short one-page ARD Logo Guideline document was created and reviewed by the LSI-VC team. A copy has been sent to the CEOS SEC. The document includes sections on ARD background, the logo and its conditions of use, and contact information.
  - o The logo is meant to be used by data providers (CEOS or commercial) and data users to identify and promote datasets that have been assessed and approved against the CEOS ARD Product Family Specifications (PFS).

### Updates on issues raised during the last CEOS SEC teleconference

- **SEC Action 272-02** - CEOS Executive Officer to convene a small group (led by the CEO, and including Brian Killough (SEO), and Jonathon Ross (SIT Chair Team)) to draft a process and policy on the use of logos in CEOS.
  - o Brian Killough and Kim Holloway have been investigating logo policies for other organizations (e.g. GEO). To date, a meeting has not been held on this subject.

### Upcoming meetings or events

- None

### Other highlights, activities, actions, projects, collaborations

- Brian Killough is presented a paper at the **AGU Conference** on December 7 (virtual). The paper was titled "*Demonstrating Interoperable Data Analyses using the Open Data Cube, Google Cloud and Google Earth Engine Satellite Datasets*" and was presented in the IN-017 session titled "Developing Innovative Tools and Services to Enable Data Use across Broad User Communities". Co-authors include George Dyke (Symbios), Ken Mubea (DE-Africa) and several AMA team members.
- Open Earth Alliance (OEA) **GEO Community Activity**: The SEO is making progress on plans for an ODC Amazon Cloud and Google Cloud Sandbox. This free/open sandbox will take advantage of the new Landsat Collection-2 and Sentinel-2 data on the Amazon Cloud. In addition, the SEO is working on plans for an ODC User Forum. Expected release is Q1-2021.