

# CEOS SEC-262 Report

(two pages max.)

**Entity:** CEO

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

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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)

- CEOS 2020-2022 Work Plan Status
  - No change from report at SEC-261 other than further reconciliation of status for total of 149 Deliverables (vice 150 as reported previously).
    - Status spreadsheet is available from CEO upon request
    - CEO will have “go-backs” to responsible entities to ensure all fields in the Tracking Tool have required information
    - Particularly important for our Deliverables to have an identified external link, i.e., to a particular GEO 2020-2022 Work Programme Flagship/Initiative/Community Activity (separate field for this link) or GCOS/UNFCCC/UNCBD/etc. activity.
  - CEO is working with CEOS Chair, SIT Chair Team, and SEO on a Deliverable renaming convention to facilitate tracking and statusing of Deliverables and to move away from the rather tedious sequential numbering system.
    - Proposal for all Deliverables to be in the format of 2-4 character identifier, year created, and number XXXX-Year-01, i.e., CARB-20-01.
  - Proposal to also separate out the routine actions of CEOS such as the newsletter, the updates to the MIM Database, ECV Inventory, and other organizational actions from the Deliverables to a standing “responsibilities” section with stable and concrete deadlines.
  - Schedule for release of V0 of 2020-2022 WP has been pushed back because of CEO status.
- Update on CEOS Listservs
  - Still reviewing and updating the CEOS listservs. Relevant entities should expect an action from CEO in mid-March for input to lists.
  - Receiving error and deletion messages for some addresses and some entities (i.e., BoM) no longer have an identified Principal or Contact

## 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
- Request to all to inform CEO of any meeting changes due to global COVID19 crisis

**Attachments**

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

# CEOS SEC-262 Report

**Entity:** SIT Chair Team

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

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

- **259-01:** Adam following up with Chuck Wooldridge.
- **CEOS-33-13:** All Virtual Constellations to review, update, and revise their respective Terms of Reference, as appropriate. **The SIT Chair will send a reminder to VC Leads.**

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

- The SIT Chair Team has been in ongoing contact with Australian Government officials about the COVID-19 issue. At this stage there are no issues on the Australian side that would preclude SIT-35 going ahead:
  - o The prevalence of the virus in Australia is very limited, with very robust biosecurity measures in place.
  - o There are no bans on meetings or events.
  - o Although there are currently travel bans on those attempting to enter Australia who have been in China or Iran, these are not expected to materially impact on attendance at SIT-35.
- If there were to be a major withdrawal of participants, and Principals in particular, the SIT Chair Team would need to re-evaluate the feasibility of hosting a credible and productive SIT meeting.
  - o The SIT Chair Team would appreciate early and clear advice from SEC Agency delegations if there are any changes to their planned attendance at SIT-35, noting it is an evolving situation.
  - o GoToMeeting facilities will, as is normally the case, be provided.
- The rev1 proposed agenda for SIT-35 has been circulated for any final urgent comments. The final version will be transmitted to all participants, CEOS Agencies and Working Teams on Friday March 6. Details on document and presentation submission will also be sent on March 6.

## Evolution of GCOS:

- The SIT Chair Team has been informed by the GCOS Director that her role has been terminated by WMO as part of a number of changes to GCOS being implemented by WMO. Full facts are not yet clear but current understanding is:
  - o As part of WMO restructuring and cost-cutting, WMO seeks to have GCOS as an internal programme. GCOS comes under the Infrastructure Division (head - Anthony Rea).

- o The GCOS Steering Council may be a Study Group under a new WMO Commission for Observation, Infrastructure and Information Systems but would be renewed annually.
- o The GCOS Panels would be maintained as WMO experts - but no longer joint panels.
- Its not clear that the GCOS Sponsors and UNFCCC SEC have been consulted in all this - there is a fair amount of uncertainty generally. It will no doubt take time for the outcomes to be resolved after the WMO Executive Council in June but Carolin finishes on 1st April. We need to establish what this means in the meantime for the key document updates and processes.
- CEOS and its agencies are obviously heavily invested in the GCOS framework as a path to UNFCCC and will need to consider the implications of this and how to ensure a strong ongoing relationship between the critical work of GCOS and CEOS's substantial contributions. For SIT-35 there will be no attendance by GCOS.
- SEC is invited to discuss this news and implications for CEOS. Possible actions could include:
  - o A letter from CEOS Chair to WMO (Rea) asking for confirmation of the intentions with respect to GCOS and assurance that the key processes in which we are invested will be protected and appropriate.
  - o An invitation to WMO to attend a future CEOS meeting to discuss GCOS.
  - o Continue the follow up to UNFCCC SEC to ensure that axis is strong, including their attendance at the proposed Copernicus-CEOS GHG-AFOLU Meeting at JRC in July and a response to SIT invitation to a meeting around SIT TW in September.
  - o Ensure GEOSEC (pursuing observer status in UNFCCC) is up to speed on the news.

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

SIT Chair Priority Status Reports:

#### ARD

- The draft 'Involving the Private Sector in CEOS ARD' paper will be presented for discussion at SIT-35.
- SIT Chair Team will work to coordinate the various CEOS entities (e.g., WGCV IVOS, LSI) that are engaging with the commercial sector on the topic of CEOS ARD.
- Hoping to make the most of the CEOS-COAST pilots by making them dual-use as CEOS ARD pilots. Being discussed with Paul DiGiacomo.
- Side meeting on CEOS Glossary of Terms Related to Analysis Ready Data, Future Data Architectures, and Interoperability (WGISS-led) planned for SIT-35.
  - o Working to coordinate this with similar work being undertaken by WGCV IVOS.

- Discussions held between LSI-VC and WGCapD leadership on how to collaborate on CEOS ARD. A CEOS ARD Awareness Webinar is expected. Other assistance related to promotion, understanding user needs, and pilot activities would also be very helpful.
- Landsat and Sentinel-2 products are progressing through the CARD4L assessment process.

### Carbon & Biomass

- Await reply from UNFCCC SEC to SIT TW invitation.

### SDGs

- SDG AHT call last week to progress on their work plan deliverables
- Ongoing work on:
  - o Python notebooks demos on ODC
  - o SDG satellite data requirements tables and support to GEO concept notes (Toolkit and Federated Approach)
  - o Identification of core missions to support SDG
- SIT Chair will send a SDG-focus communication to Principals early March for their consideration, in preparation of the SIT-35 meeting
- SIT Chair to lead the discussion at SIT-35 (Tuesday afternoon) around the current role of CEOS in SDG, thoughts on its future and resources commitment
- SIT-35 side-meeting: more to be seen as a *workshop* - deep dive work on the Requirements table (to be shared with GEO and their end-user communities then)

### **Upcoming meetings or events**

- SIT-35 documents for endorsement are due 11 March, two weeks ahead of the meeting.
- SIT-35 presentations are due 18 March, one week ahead of the meeting.

# CEOS SEC Report

**Entity: AC-VC**

**Prepared By:** Jay Al-Saadi (NASA), March 4, 2020

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

- AC-VC participation in SIT-35:
  - Dave Crisp plans to attend in person as of 2/28. Pending NASA approval to travel.
  - Jay Al-Saadi will participate remotely and the other 2 AC-VC co-leads may participate remotely in some sessions

## **Other highlights: AC-VC leadership updates**

- For the first time, we have a third formal co-lead, as previously communicated was our strategic intent. Welcome to Hiroshi Tanimoto of Japan's National Institute for Environmental Studies (NIES), on behalf of JAXA. Dr. Tanimoto is an expert on both air quality and greenhouse gases and broadens the regional balance of our leadership team (now North America, Europe, and East Asia).
- We have also defined topical leads aligned with our deliverables
  - E.g., similar to how Dave Crisp has been the lead of the GHG activity
  - Diego Loyola, DLR, will lead the evolution of the satellite ozone records activity into its new focus on tropospheric ozone
  - Shobha Kondragunta (NOAA) will lead the new activity on air quality associated with aerosol
  - One intent is that these topical leads will also gain experience that may position them for future CEOS leadership roles

## **Other highlights: CEOS Work Plan (WP) updates**

- All previous AC-VC deliverables were closed last autumn
- AC-VC inputs for 2020-2022 WP submitted in December with 3 new deliverables
  - Evolution of previous satellite ozone records activities to focus on tropospheric ozone
  - Evolution of previous Air Quality constellation (for trace gas observations) activity toward implementation of the validation recommendations expressed in the White Paper that was endorsed by 2019 Plenary
  - New activity in air quality associated with aerosol
  - GHG deliverables to be captured in the Climate part of WP

## **Other highlights: Recent Significant Events**

- The first geostationary air quality mission, Korea's GEMS onboard GEO-KOMPSAT 2B, was launched successfully by Ariane 5 from Kourou, Feb 19th, 2020!!!

## **Upcoming meetings or events**

- AC-VC-16 meeting June 8-10, Brussels, with BIRA as the local host
- At this time, not considering possible disruption due to COVID travel restrictions

## CEOS SEC-262 Report – March 2020

**Entity:** SEO

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

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### **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 (Brian) is attending the Digital Earth Africa Technical Advisory Committee (TAC) meeting in Pretoria, South Africa on March 3-5.
- The SEO (Brian and Kim) will attend the WGCapD meeting in Palo Alto, CA on March 9-13.

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

- The SEO (Brian + several programmers) attended an Open Data Cube "hackathon" at GA on Feb 24-28. Several topics targeted Digital Earth Africa and a water project targeted using multiple datasets for water detection in a time series.
- The "CEOS External Request Process Paper" team will release a first draft of the process paper for the SIT 2020 meeting. Representatives from NASA, NOAA, GA, ESA, ISRO, EC and JAXA are on the team.

# 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)**

- Regarding SIT-35 Agenda, Session 7, Work Plan Deep Dive, Avoiding Disasters: CEOS Support for GSNL and GEO-DARMA (TBC, WGDisasters; I Petiteville, ESA)
  - WGDisasters Chair Team requests additional information regarding content, format of discussion, and expectations to inform suggestions of alternate WGDisasters deep dive topics.

## **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-13 Meeting in Pasadena California, 9-13 March, has been cancelled. Majority of registered attendees unable to attend due to increasing travel restrictions. A series of remote teleconference sessions will replace the in-person meeting, 9-11 March. One focus will be reaffirming expectations of WG deliverables to Agency Principals in light of new ToR.
- WGDisasters Chair Team submitted an Understanding Risk Forum 2020 Side Event proposal, titled '*Harnessing the Evolution of Earth Observations and Risk*', which has been accepted by World Bank GFDRR organizers. Postponed to November 2020.
- Landslide Pilot Team continues development of new Landslide Hazards Demonstrator Implementation Plan. Will report out to WG next week.
- Dedicated GEO/LEO/SAR Flood Pilot Side Meeting Telecon to be held Monday, 9 March, before WGDisasters-13 Telecon.

## **Upcoming meetings or events**

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

- WGDisasters-13 Meeting
  - Remote teleconference sessions
  - 9-11 March 2020
- Understanding Risk Forum (Postponed)
  - Singapore
  - 30 Nov – 4 Dec 2020 [Tentative]



- Cities on Volcanoes 11, Remote Sensing Workshop
  - Keraklion Crete
  - 23-27 May 2020
- Global Flood Partnership Annual Meeting
  - Paris, France
  - 28-30 September 2020

# CEOS SEC-262 Report

(two pages max.)

**Entity:** WGCapD

**Prepared By:** Nancy Searby (Chair/NASA) and 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)**

- 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)**

- Final preparations underway for the [WGCapD-9](#) Annual Meeting (March 9-12, 2020 in Sunnyvale, CA).
  - Completed coordination meetings with the SDG AHT, LSI-VC, SEO, WG disasters, and WGISS to prepare for the 30-minute sessions during the annual meeting. Background notes summarizing WGCapD and the working group, virtual constellation, or ad hoc team collaboration were developed as read-aheads for meeting participants.
  - Identified and confirmed at least five speakers for the regional highlight sessions taking place during the annual meeting scheduled at times to encourage virtual participants to join in-person attendees in sharing capacity building activities and priorities within the respective regions of Asia-Oceania, Africa, Americas, and Europe. The speakers are from or working extensively in the four regions of focus.
- Convened a February 18, 2020 conference call with authors of the Space Capacity Development Advisory Board (SCDAB) paper. This discussion resulted in the identification of several potential Sustainable Development Goals (SDGs) that an established Board could consider as focal items when bringing together the various capacity development networks in support of sustainable development frameworks.
- Developed and finalized a training report template and supporting trainee spreadsheet for consistent reporting and improved tracking. Materials are available on the [WGCapD's Resources Page](#).

# CEOS SEC Report 262

(two pages max.)

**Entity:** WGCV

**Prepared By:** Cindy Ong (CSIRO) & Akihiko Kuze (JAXA)

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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)**

- The LPV sub group is holding it's supersites and biomass validation workshop this week. Despite some travel restrictions, 30 participants attend and good progress has been made to determine ways of filling gaps in validation data with strategic collaboration and training potential. With the later, discussions will be sought with WG Cap D in the near future;
- The IVOS plenary has been cancelled but meetings with industry partners regarding ARD are still being conducted via teleconference as well as discussions on terminology which will include participants from LSI-VC;
- The COVID-29 has caused quite a few disruptions in planned meetings, these have either been cancelled or postponed.

## **Upcoming meetings or events**

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

- CEOS WGCV LPV Supersites and Biomass Validation Workshop: 2-6 March 2020, Canberra, Australia is currently underway.
- CEOS WGCV IVOS plenary, 2-6 March in Reston VA USA has been cancelled.
- GSICS GRWG/GDWG Annual Meeting + Reflective Solar Spectrometer Sub-group meeting, GLAD Hotel Yeouido, Seoul , Korea, 16 - 20 March 2020 has been postponed until Autumn.
- CEOS WGCV Plenary #46: 30 March – 3 April 2020, Pasedena, California, USA – likely to be postponed to week of 22 June 2020
- The next GHG roadmap meeting will be held at JRC, Ispra, Italy on June 12 and 13, 2020.

## **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:** WG/SIT Chair Team/CEO Team/CEOS Chair Team/SEO/Ad Hoc Team/GEO SEC

**Prepared By:** Flora Kerblat (CSIRO), on behalf of Alex Held (CSIRO) and Marc Paganini (ESA)

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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)

- **SDG side-meeting at SIT-35:** all agencies and members welcome and invited to join, but the meeting's objective is to work deeper on the requirements table (more seen as a hands-on workshop)
- **SDG session at SIT-35:** a communication from SIT Chair (A. Held) will be sent in the next few days to share the recent updates/status in CEOS on SDG, and explain how we rely on CEOS Agencies to contribute to the discussion (including a *tour de table* about their views about the way forward and resources) in Hobart
  - Grateful if the Principals of Agencies interested in the topic can actively participate in the discussion (bring new ideas to the table, share comments/views on future CEOS role in SDG, and clearly identify the allocated resources) to improve CEOS contribution to the Global 2030 Agenda

## 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)

- Members have joined the EO4SDG call on Feb 21
- **CEOS SDG-AHT meeting (call) last week** with key agencies (CSA, CSIRO, ESA, NASA representing EO4SDG, SEO) to define clear pathway until SIT (*summary of the meeting's notes below*)
- SIT-35 plans were also discussed on the call:
  - side-meeting more like a workshop to work finer on the requirements table so that we can share this with GEO (and their end-users to be identified)
  - SDG session (1h) led by A. Held as SIT Chair on Tuesday (SIT-35 agenda): email to be sent to Principals soon so they better know what to expect, and how they can contribute to the discussion (this will include a *Tour de table*)
    - External (end-users) S. Reddy have been invited to contribute to the discussion

- Current activities include more work on the Requirements tables (templates drafted, then reviewed by SEO, to be discussed and agreed at SIT-35), liaison with EO4SDG (Toolkit and Federated Approach)
- Coordination with WGCapD ahead of their annual meeting next week – joint activities discussed and more planned
- Key update shared by Chu Ishida (JAXA) about the integration of EO data to monitor 6.6.1 (by UNEP):  
*“Global Mangrove Watch (GMW) data set has been selected by UNEP (co-custodian of **SDG 6.6.1**) as official mangrove dataset for country reporting on indicator SDG 6.6.1. The GMW data and mangrove toolbox are foreseen for public release by UNEP ([www.sdg661.app](http://www.sdg661.app) <<http://www.sdg661.app/>>) in late March. (...) The Japanese NSO (Ministry of General Affairs, International Statistics Bureau) has asked JAXA to brief on the SDG indicator computation to the related line ministries. The NSO is reviewing its global indicator reporting for its major update in summer this year, and hope to stimulate interest in using satellite data for SDG indicator computation by the line ministries.”* This will surely be a contribution to the EO4SDG Toolkit.

### **Upcoming meetings or events**

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

- SDG-AHT side-meeting at SIT-35 in Hobart
- ISPRS 2020 conference, Nice: session around the use of EO data for SDG, with key contributors from various countries/organisations to promote the use of satellite data and methods to help monitor SDG (Marc P. to lead the session, Flora and Argie reviewers)

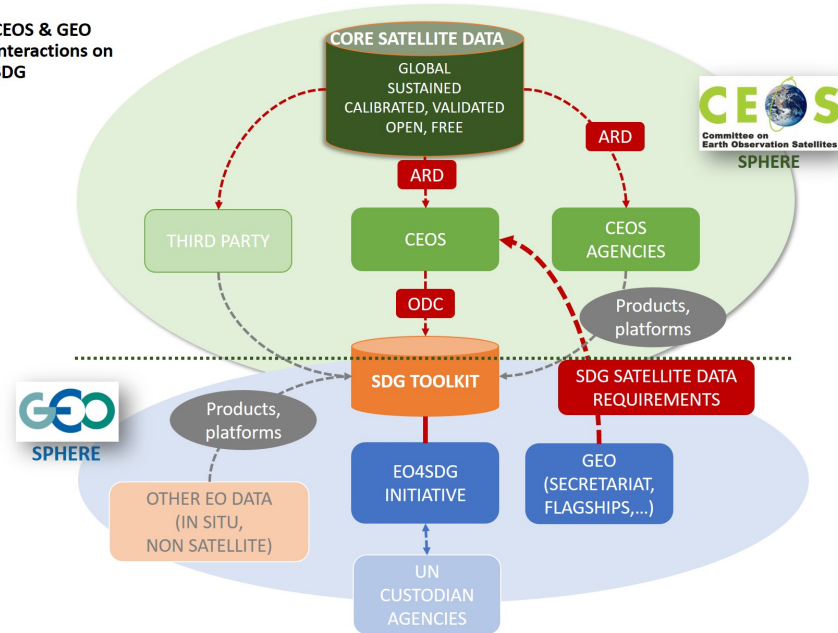
### **Attachments**

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

### **Summary of last SDG AHT meeting notes with key information about the current status/way forward:**

- Recent updates from Marc, Flora, Argie on Geneva meeting:
  - GEOSEC/CEOS: SDG still a key topic for GEO – encourages CEOS to continue working closely with GEO to support the process, but not only through EO4SDG – other flagships to be included in the discussion
  - CEOS: mostly focus on delivering pieces to the Toolkit, and be part of the Fed Approach to ensure the communication is effective
  - SDG meeting (Marc, Alex, Brian, Flora, and Argie via phone): discussions around CEOS role and how to tackle it from there – see the graph communicated with AHT members:

CEOS & GEO interactions on SDG



- Neil Sims provided updates on LDN (planned revision of the GPG, LDN workshop in Germany same week as SIT)
- Discussions around missions/datasets for SDG, and CEOS role:
  - Need to match with existing available datasets, and CEOS to make sure it's available and easy to access (ARD products when accessible)
  - Need to be realistic: provide pieces for a toolkit for end-users
  - Need to identify core missions (~ 25 global, open, free, sustained...)
  - Focus on efficiency and effectiveness in **delivering datasets and tools**
- Clarification around ARD needs for SDG: no ARD product for a dedicated indicator – but CEOS ARD can make it more accessible for these users in particular, and encourage other mission/agencies to provide ARD products to increase uptake of their data in the SDG process
- CEOS to put these missions' info available (toolkit + Paper?) + note other missions are out there (outside of CEOS scope: global datasets)
- CEOS (SEO? AHT) can act as a bridge between CEOS indiv. Agencies and GEO/end-user community to better understand satellite data needs and tools
- Templates: CEOS to pre-fill requirements and share with GEO end-users (end-users via GEO review and identify gaps, for CEOS to assess, etc.)
- SIT-35: plans discussed for side-meeting and session on SDG (1h)
- Actions included more work on the Requirements tables (templates drafted, then reviewed by SEO, to be discussed and agreed at SIT-35)