

# CEOS SEC-266 Report

**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
  - Will shortly be updating the online Deliverables Tracking Tool with updated information. SEO team will do a complete replacement of the data online with that captured in the spreadsheets that have been out for review and edit.
  - Online Tool will use new renumbering and a mapping with the old numbers will be included as an appendix to the Work Plan
  - Expected virtual endorsement of the 2020-2022 Work Plan is TBD.
    - Still missing update from Water (OCR-VC/AquaWatch).
    - Appears OCR-VC, OSVW-VC, SST-VC, P-VC, OST-VC do not wish to provide any text for the Work Plan.
  - *Responsibilities and User Guide* will be prepared for the online Deliverables Tracking Tool.
- Relevant Outcomes from the GEO 2020 Virtual Symposium
  - Report of highlights will be prepared/provided to SEC later
  - All presentations are available for viewing via YouTube on the GEO Symposium website; live sessions will also be available shortly.

## **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 has been invited to co-host (sponsor) a web-conference (Global Networking Forum) with the International Astronautical Federation (IAF)/International Astronautical Congress (IAC) Earth Observation Committee that would focus on how Earth observations are showing changes (atmospheric, but others as well) due to the Coronavirus. The working title is: "Corona-Crisis! -- A Space-Eye View on How it is Impacting Global Climate and Ecosystems -- Early Results."
  - Webinar series begin in September 2020 (exact dates TBD)
  - During the AC-VC meeting two weeks ago, Dave Crisp, NASA/JPL gave a presentation on the effects COVID on concentrations of various long- and short-lived gases in the atmosphere.
  - Last week, the GEO 2020 Symposium took place and the very first session was on Earth Observations for COVID-19 Response and Recovery.
- Decision: Do we want to agree with CEOS as co-host of this event?

## **Upcoming meetings or events**

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

- See calendar 6.23.20

## **Attachments**

# CEOS SEC-266 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

- **263-01:** Adam is following up with Chuck Wooldridge and Steve Volz to finalise the draft response to IOC on the Decade of Ocean Science, and will circulate it for review by CEOS SEC when ready.

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

- Format for SIT TW
  - o The deadline for comments on the proposed format for the SIT Tech Workshop has passed. Feedback was overall positive for the approach. Thank you to those agencies that responded.
    - The SIT Chair Team has clarified that the individual ‘focus sessions’ will be centrally coordinated, and part of a master schedule. The SIT Co-Chairs and SIT Chair Team will participate in all ‘focus sessions’, although the identified session leads will be responsible for the content and reporting.
    - The SIT Chair Team is watching the GEO Symposium with interest, as it is using pre-recorded presentations. This may be appropriate for some parts of the SIT TW, but will come with significant administrative overhead.
    - The SIT Chair Team and CEOS Chair are coordinating on topics for Tech Workshop noting the criticality of preparing items for Plenary. CEOS Chair’s themes and first draft agenda will be a key input.
    - The SIT Chair Team has received suggestions for a SIT TW session on COVID-19. The SIT Chair Team welcomes feedback from SEC on this proposal. At least one CEOS Agency (COM) has already expressed a willingness to organise such a session.
    - The SIT Chair Team will now proceed to prepare a draft outline of the SIT TW sessions, including both the focus session and all-hands sessions.
- SIT-35-03: SIT Chair Team has had contact from Anthony Rea of WMO in relation to the action assigned to him at SIT-35: *Anthony Rea (WMO) to provide link to the TORs for the GCOS Study Group for CEOS reference. Rationale: Significant interest in CEOS and agencies on the process by which WMO will revise the GCOS structure and processes. As follows:*
  - o *"The TORs for the GCOS Joint Study Group have been approved by WMO's Policy Advisory Committee and we expect they will be approved by the*

*President in coming weeks. The ToRs will also have to be approved by the GCOS co-sponsors (IOC, ISC, UNEP). The current version will be posted on the Joint Technical Commission website (under the Infrastructure Commission) later this week. The website is <https://meetings.wmo.int/JM-TC/SitePages/Session%20Information.aspx>."*

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

- The GEO Executive Committee will meet on 7 and 8 July by teleconference. The SIT Chair Team will represent CEOS as one of the three Participating Organisation Observers to the ExCom. As documents are available they will be posted here: [https://www.mediafire.com/folder/9mmi7uvs033de/ExCom\\_Docs\\_52](https://www.mediafire.com/folder/9mmi7uvs033de/ExCom_Docs_52). The SIT Co-Chairs would welcome any and all input from the CEOS Secretariat. The draft agenda lists the following substantive topics for discussion:
  - o GEO Knowledge Hub Implementation Plan
  - o Report from the GEO Programme Board
  - o Resource Mobilization
  - o Plans for GEO Week 2020
- Proposed CEOS Year in Review Video: SIT Chair team has been in discussion with the SEO about collaborating on a short CEOS Year in review video as an antidote to our isolated circumstances and to trial a new internal and external communication tool as to CEOS accomplishments. We have agreed to start to storyboard our ideas and will consult with CEOS Chair and the Secretariat to get your comments and approval as the proposed content gets formulated. With ISRO approval we would plan to show this at our virtual Plenary.
- CEOS Newsletter: SIT Chair team report is being finalised ready for the JAXA team's deadlines.
- Key outcomes of the CEOS Working Teams All Hands Call #2 (VCs, WGs, AHTs):
  - o Consistency in Thematic Observing Strategies across CEOS Working Teams: SIT Chair Team is considering how we might improve the identity, discovery and indexing of key CEOS observing strategies, including via the CEOS website and booth poster. Showed the mockup of the observing strategy document page. Well received. Actions recorded for all to provide any feedback on the idea of consistency in thematic observing strategies across CEOS Working Teams, and the graphical mockup, as well as to identify documents to be included in the listing. An in progress draft is available for SEC comments here: <http://ceos.org/observations/>. This page is not yet linked from the CEOS website.
  - o CEOS Earth Analytics Interoperability Lab Proposal: WGISS and SEO are aiming to provide a 'playpen' for experiments, prototyping, and technical tests including Jupyter notebooks. And some best practice guidance. WGISS has been approached already by WGDIsasters and CEOS-COAST to use the Lab as a platform to bring different data sets and tools together.

- CEOS-COAST: Settled on two pilot activities which capture/repackage all the pilot activities proposed or discussed so far: Assessment of Sea to Land Impacts (~Physical Forcing); and, Assessment of Land to Sea Impacts/Responses (~Biological/BGC). The group will be looking for adoption at CEOS Plenary of their Coastal Strategy for CEOS. A Draft Implementation Plan should be ready by August 2020.
- CEOS Analysis Ready Data - Involving the Private Sector: Paper provides views from the private sector on how CEOS should engage, and a rationale and suggested steps to achieve that engagement. Helpful feedback from SIT-35 presentation, e.g. GEOSEC encouraged an open source approach. Proposed next steps: continue info sharing; understand industry perspectives; and, engage industry in specifications.
- Key outcomes of the VC chats
  - Calls with all seven VCs completed between 3rd and 22nd June.
  - Invitations for VCs to report to SEC meetings are very welcome. Should continue. Good to have ongoing, more regular opportunities to stay in touch with CEOS leadership.
  - Christo Whittle <Christo.whittle@gmail.com> (representing SANSA) is taking over as SST-VC co-lead from Anne O'Carroll in October 2020.
  - COVID has impacted a number of face-to-face working meetings which has impacted progress, in particular towards requirements development. (e.g. OST-ST cancelled for 2020; IOVWST meeting postponed for now; GHRST virtual; AC-VC virtual).
  - Reviewed contributions to CEOS Work Plan captured; overall the effort to update the capture of VC work has been positive and welcome.
  - Positive response to the thematic observations proposal, and efforts to compile relevant VC inputs underway.
  - Some progress on engaging VCs in CEOS-COAST and ARD efforts, but notably OST-VC, OSVW-VC, P-VC, and AC-VC, not engaged in these cross-cutting activities (mostly due to relevance).
  - OSVW-VC role in the recent CEOS Chair CEOS Tropical Cyclogenesis Project Proposal was flagged as a topic for follow-up.
- GEO Virtual Symposium 2020 (15-19 June 2020):
  - Stats:
    - over 1,700 pre-registrations,
    - 400 sli.do participants throughout the week,
    - nearly a 1,000 questions
    - average of about 100 live views on youtube (both CDNvideo and youtube were used to livestream the Symposium)

- The theme for the week was “EO for impact”, impact for capacity building, development, funding, knowledge, to the users, to the community
  - Discussions on future needs and collaboration, and possible webinars coming out from the symposium
  - Every session highlighted the value of co-design and other interactions - **people have an impact**
  - The symposium presented examples of how to apply EO to a spectrum of issues (e.g. AquaWatch, GEOGLAM) - **Earth Observation has an impact**
  - GEO’s strength helps raise issues and create solutions jointly - **convening power has an impact**
- GEO Programme Board 17th meeting report (11-12 June 2020):
- GKH implementation plan was endorsed by PB and will be presented to the ExCom for approval.
  - The PB supported the recommendation (from the GEO Symposium subgroup) for a continuing webinar series as a means of sharing information across the GEO community.
  - The GEO Sec will report on lessons learned from the cloud computing programs as well as transition plans at the end of the programs.
  - PB revised the terms of reference for all Working Groups to remove the limit on the number of commercial sector members. All nominees from commercial sector organizations nominated by GEO Principals are approved as WG members.
  - The Private Sector Subgroup ToRs were approved by the PB and in particular the ToR refers to the “need to create opportunities for SMMEs to leverage EO”.
  - Subgroups (urban resilience, Equality, Diversity and Inclusion and Awards) reported on their progress, in particular the Equality, Diversity and Inclusion Subgroup requested for additional participants with attention to geographic, gender and generational diversity.
  - The PB agreed with the recommendation that the 18th PB meeting which was to take place in Ghana will be held as a videoconference.

### Carbon & Biomass

- CEOS Biomass Protocol & business case: await update from the multi-mission team
- AFOLU Roadmap team is making progress towards a draft for SIT TW. Stephen Ward can report v briefly to SEC of behalf of the team leads.

- **SIT TW session on the policy relevance of EO data for Conventions** with a focus on the Global Stocktake. This was raised by Osamu Ochiai and Frank Martin Seifert in their recent chat with UNFCCC SEC and they agreed that they would like to participate. SIT Chair team has proposed that we also engage with GCOS and GFOI, as well as the CEOS-CGMS WGClimate and the GHG and AFOLU CEOS teams to define and implement this session. **It likely needs a planning telcon in the near future to agree on the objectives and content.**

### SDGs

- RSE Special Issue on EO4SDG finally published: [Special Issue on Sustainable Development Goals](#) which was edited by Graciela Metternicht (UNSW), and members of CEOS SDG AHT **Argyro Kavvada, Flora Kerblat, Lawrence Friedl, Alex Held**, including a [policy paper to introduce the Issue](#) (available on [CEOS website](#))
- TORs finalised and shared (this week)
- Getting organised with sub-teams
  - o CSIRO on 15.3.1 (land degradation): Flora and Neil discussed, with a plan to reach out to the GEO LDN community to get their feedback on the Requirements table
    - Adam L. will contact Neil about Land degradation and DEA
  - o ESA and CNES working on SDG 6.6.1 and getting organised – incl. a discussion with the COAST team (and SDG 14.1.1) and will involve them also in SDG 6.6.1. Will also have representatives from GEO Wetlands, GEO AquaWatch and GEO GLOWS in the sub-team.
- SDG Strategy paper has been finalised and now [available on the CEOS website](#)
- SDG updates on CEOS website: Flora has updated the SDG relevant pages in particular on [SIT-35 notes](#), [new scope](#) (sub teams), new [strategic documents](#).
- Next meeting/call scheduled on 30th June with sub teams co-leads ONLY to ensure we focus and make progress on the deliverables
- SIT chair team will continue to work closely with SDG AHT to help shape propositions at Plenary and SIT-36 for its future

### ARD

- CEOS-Industry ARD webinar scheduled for July 1. More details and registration form [here](#). All welcome to join – please share with your networks.
- LSI-VC meeting with Planet: Planet keen to assess their products against the CARD4L Specifications.
- SIT Chair is exploring the possibility of a CARD4L focus session for the ARD20 workshop.

- SIT Chair using VC tagups to consult with Ocean VCs regarding SIT-35-08 (*SIT Chair Team to consider the potential for an activity to prototype the CEOS ARD approach for one exemplar ocean variable and one exemplar atmospheric variable*).
- Following a request from LSI-VC, the SIT Chair Team will aim to provide oversight and coordination of CEOS engagement with industry regarding ARD, which is currently happening in a bit of an *ad hoc* and unstructured manner via various different fora.
- <http://ceos.org/ard/> updates:
  - o New SAR PFS are now online (normalised radar backscatter v5.0 and polarimetric radar v3.0).
  - o Surface Reflectance and Surface Temperature PFSs have been reviewed, endorsed by the LSI-VC community and posted on the webpage.
  - o Webinar banner/announcement.
- Aquatic Reflectance PFS draft shared with the Science Expert Review Panel and first teleconference held on 25/06.

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

- TW: virtual, weeks of 7 and 14 September 2020
- SIT-36: Week of March 22. We are seeking to lock in these dates early, however no decision has been made whether the meeting will be virtual or in-person, given the fluidity of the situation presently.
- CEOS-Industry ARD webinar: 1st July 2020

# CEOS SEC Report 266 June 2020

(two pages max.)

**Entity:** Ad Hoc Team SDG

**Prepared By:** Flora Kerblat (CSIRO)

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

### **(Dot points)**

- We received nominations for contributors and co-leads for sub teams: thanks to all CEOS Agencies for your support. Still need formal confirmation of co-leadership for 2 sub-teams (11.3.1 and 15.3.1) though.

## **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)**

- RSE Special Issue on EO for SDG published: [Special Issue on Sustainable Development Goals](#) which was edited by Graciela Metternicht (UNSW), and members of CEOS SDG AHT Argyro Kavvada, Flora Kerblat, Lawrence Friedl, Alex Held, including an [editorial to introduce the Issue](#) (available on [CEOS website](#)).
- CEOS and GEO representatives (Argie/NASA, Chu/JAXA and Marc/ESA) participated to the last 2 calls of the IAEG-SDG Working Group on Geospatial Information (WGGI) and contributes to the WGGI plan of work.
- Last SDG AHT meeting (20/3) with good turnover with 10 Agencies represented.
- Sub-teams are getting organised and started to work on the SDG Satellite data requirements.
- Agreement reached with the COAST Study Team on SDG indicator 14.1.1 (coastal pollution). It will be implemented by the COAST Team as a component of the COAST “Land to Sea Impact” pilot project, in close coordination with the SDG AHT for the deliverables relevant to the SDG AHT workplan. A representative of the COAST Team will liaise with the SDG AHT and participate in SDG AHT meetings.
- Reaching out to GEO relevant communities for their feedback
  - CSIRO on 15.3.1 (land degradation): Flora and Neil discussed, with a plan to reach out to the GEO LDN community to get their feedback on the Requirements table + Adam L. and Neil to discuss about Land degradation and DEA (GEO Community activity).
  - ESA and CNES on SDG 6.6.1 (water) –Representatives from the CEOS COAST team (and SDG 14.1.1) as well from GEO Wetlands, GEO AquaWatch and GEO GLOWS will be involved in the sub-team.

- NASA on 11.3.1 (urban): The urban sub-team activities on the satellite data requirements and supply will be done in close partnership with the data sub-team of the GEO SDG 11 Toolkit which has just been set up with representatives from GEO HPI and GEO GUOI.
- Recent progress and updates (short report) on SDG algorithms provided by SEO (Brian K.) – he will provide an overview at the next SDG call
- TORs for sub teams have been finalised and shared with the AHT and are now [available on the CEOS website](#)
  - Sub teams' main activity: refining satellite data requirements, which includes identifying gaps and help finding solutions, and providing tools and guidance to access data sets required
- SDG Strategy paper has been finalised and now [available on the CEOS website](#)
- SDG [updates on CEOS website](#): Flora has updated the SDG relevant pages in particular on [SIT-35 meeting notes](#), [updated scope](#) (sub teams creation), and new [strategic documents](#).

### **Upcoming meetings or events**

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

- Next meeting/call scheduled on 30th June with sub-teams co-leads only, to ensure we focus and make progress on the deliverables
- In July with the whole AHT

### **Attachments**

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

<http://ceos.org/ourwork/ad-hoc-teams/sustainable-development-goals/background/>  
<http://ceos.org/ourwork/ad-hoc-teams/sustainable-development-goals/documents/>  
<http://ceos.org/ourwork/ad-hoc-teams/sustainable-development-goals/meetings-events/>

# CEOS SEC Report

**Entity:** LSI-VC

**Prepared By:** Steve Labahn (USGS)

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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)**

- CARD4L
  - Endorsed, tech edited, and published the following:
    - Normalised Radar Backscatter (NRB) PFS v5.0 => Annual review cycle
    - Polarimetric Radar (POL) PFS v5.0 => New
    - Surface Reflectance (NRB) PFS v5.0 => Annual review cycle
    - Surface Temperature (ST) PFS v5.0 => Annual review cycle
  - Awaiting official WGCV peer review feedback on USGS Surface Reflectance / Surface Temperature and ESA Surface Reflectance CARD4L PFS self-assessments
    - The LSI-VC Leads would like to thank our WGCV colleagues, in particular Medhavy Thankappan who has served a dual role across both teams, for their assistance with the peer reviews of the CARD4L self-assessments – a critical step in ensuring consistency, accuracy and objectivity in the process.
  - Working toward endorsement of a new Aquatic Reflectance (AR) PFS
    - Assembled science expert review panel for feedback (24 June 2020)
  - Pursuing actions to have Sentinel-1, MODIS, and VIIRS products self-assessed
  - Adding ‘Advisory Notes’ as a fourth component of the CARD4L Framework to address issues like data policy, data formats, and interoperability
- CEOS ARD Strategy and Promotion
  - Agreed against the standardisation process in favour of a ‘best practice’ document through OGC / Testbed-16; Sometimes “pseudo-standards” which fill a gap are just as valued and used (e.g., the WGCV Protocols)
  - Engaged with industry (latest being Planet) on CEOS ARD feedback and next steps
  - Increasing engagement in VH-RODA, JACIE, and IVOS
    - Submitted CARD4L abstract for JACIE Workshop
  - Preparing for next week’s first CEOS ARD Webinar (1 July 2020)
  - Worked with WGISS on preparation of a draft CEOS Interoperability Terminology Report, which should be ready for review soon
  - Seeking clarity on primary leads for each element of the CEOS ARD Strategy
- Prepared and submitted LSI-VC report for CEOS Newsletter No. 55

### **Upcoming meetings or events**

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

- 1<sup>st</sup> CEOS ARD Webinar: 1 July 2020
- JACIE Workshop: 22-24 September 2020
- 2020 IGARSS: 28 September-2 October 2020
- LSI-VC-10: Week of 5 October and 12 October 2020
- ARD20 – 3<sup>rd</sup> ARD Workshop on Image Interoperability: 19-23 October 2020
- CEOS-Industry ARD Workshop: November 2020

### **Attachments**

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

# CEOS SEC Report

**Entity:** GEO Secretariat

**Prepared By:** Douglas Cripe

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## **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 Virtual GEO Symposium held last week (15-19 June 2020). Symposium ran smoothly thanks to excellent organization by Kerry Sawyer and Kathy Fontaine, supported by the GEO Secretariat. Attendance was over 100 individuals on most days, and offline viewing of pre-recorded presentations continues to rise. CEOS was strongly represented throughout:
  - The Earth Observations for COVID-19 Response and Recovery was hosted by NASA (John Haynes, Helena Chapman), NOAA (Juli Trtanj), and the EC (Astrid Coch), and included a presentation on JAXA's Earth Observation Activities on COVID-19 by Osamu Ochiai.
  - The Leveraging Advanced Technologies - Focusing on Data Cubes Session, featured a presentation on Open Data Cube and Open Earth Alliance by Brian Killough.
  - The Integrating Water and Coastal Datasets was co-hosted by Kathy Fontaine and Kerry Sawyer.
  - The Resource Mobilization and Sustainable Funding Session saw Adam Lewis give a presentation on Digital Earth Africa - \$20m for continental open data products from mixed funding.
- The online version of the Symposium enabled many who might not have come to an in-person event to follow it. Active audience participation was encouraged through the use of Sli.do to pose questions to the presenters during live Q&A sessions following the presentations. This result points out for the need to carefully consider when/how to host GEO events virtually.
- The GEO Programme Board endorsed the latest version of the GEO Knowledge Hub (GKH) Implementation Plan, which comprises development of an extended GKH proof of concept by means of a step-wise approach of an incremental design and implementation process, to be aligned with the future GEOSS development in due course. The GKH Implementation Plan now goes to the 52<sup>nd</sup> Executive Committee meeting for approval.

## **Upcoming meetings or events**

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

- 52<sup>nd</sup> GEO Executive Committee meeting (virtual, 7-8 July 2020)
- 3rd Arctic Science Ministerial meeting, 21-22 November 2020, Tokyo, Japan

## CEOS SEC-266 Report – June 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

- None

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

- The SEO is working with WGISS (Rob Woodcock) to develop plans for a new **CEOS Earth Analytics Interoperability Lab**. This new data testing and prototyping hub that will use Jupyter notebooks and the Open Data Cube. Initial plans are to support the COAST initiative and WG-Disasters.
- The SEO team is working with Symbios (George) to update the core ODC application notebooks and to build training videos. This work will support a deliverable for Jupyter notebook training and release of the Landsat Sandbox later this year. The team has also been testing ODC notebooks with Sentinel-1 and Sentinel-2 data with good success.
- **CEOS Website** - As many of you know, we have experienced some issues with the website in the past few months. These issues were related to older software versions and security flaws. We have made a number of changes and the resolutions are nearly complete. Here is an update of the key functions of the website:

Main Website: Working well ... no issues

Deliverables Database (Workplan): Working well ... no issues. We are working with Kerry to update the database content to accommodate the new workplan numbering and fields.

Document Management System: Working well .. no issues

Meetings: Can be viewed but not edited. There is an issue with a plugin, which is still being worked.

# 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)**

- 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 Chair Team initiated outreach to the United Nations (UN) Global Geospatial Information Management (GGIM) Working Group on Geospatial Information and Services for Disasters (WG-Disasters). WG-Disasters Co-Chair Shoichi Oki confirmed that the idea of collaboration between our two WGs would be beneficial. WGDisasters Secretariat Dave Borges will serve as CEOS Liaison to GGIM WG-Disasters.
- Generic Recovery Observatory Demonstrator Team continues to meet regularly. The Team is developing a Demonstrator proposal for review at SIT TW.
- GEO/LEO/SAR Flood Pilot Team continues to meet regularly. The Team is developing 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.
- CEOS SIT Chair Team has requested that WGDisasters consider a new Wildfire Pilot effort. An exploratory meeting is scheduled for 24 June to bring together interested parties and discuss feasibility.
- WGDisasters member Antonio Montuori (ASI) is serving as Guest Editor of the Special Issue of Remote Sensing Journal titled “Space-Borne Earth Observation Data for Monitoring Natural and Anthropogenic Phenomena” and requested WG members consider submitting relevant manuscripts.

## **Upcoming meetings or events**

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

- CEOS WGDisasters Telecon #27
  - Virtual, 7 July 2020, 1100 – 1400 UTC
- Global Flood Partnership Annual Meeting [*Postponed to 2021*]
  - Virtual, Dates TBC
- GFDRR Understanding Risk Forum
  - Singapore, 30 November – 04 December 2020

# CEOS SEC 266 Report

(two pages max.)

**Entity:** WGClimate

**Prepared By:** Jörg Schulz (EUMETSAT), Chair

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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)**

- Considering the changed schedule of UNFCCC meetings with a cancelled COP and a SBSTA-52 meeting that is currently planned for 4-12 October 2020, CEOS SEC should discuss if we want to have a space agency statement for this SBSTA. The statement would need to be delivered around 20 September, thus endorsement could be done at SIT TW.

## 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)**

- We have finalised and delivered the input to the CEOS work plan.
- The delivery of the Cycle 3 Gap Analysis and Coordinated Action Plan has moved to June 2020 (due to COVID-19 impact on EUMETSAT contractor) and we are still working on it.
- The GEO Secretariat undertook a first videoconference of the GEO Climate Change WG. It has more than 80 members and is still in a mode of establishment. WG members will base co-chairs on self-nomination and later acceptance. WGClimate will approach GEO SEC maybe after co-chairs are in place to discuss the interface between the two working groups to make work most fruitful.
- WMO has developed a Use Case gathering tool that will be ready for going live very soon. By the SIT TW we should be able to provide a first overview of the use cases received. We will come back to the WGCApD and WGDissaters for potential use cases to be included here.
- As a stepping stone to the CGMS-48 Plenary, the GHG Roadmap was presented at the CGMS-48 WGII meeting as part of the WGClimate presentation. It was very short with not much time for feedback. We will concentrate now to clearly workout the request to CGMS

## 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. Chair team and GHG Task team are preparing the doc for CGMS and a presentation in mid-August.
- WGClimate#13 meeting is still planned for in between the SIT TW and the CEOS Plenary as another Virtual Meeting

**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)

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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)**

- WGISS, SEO, WG Disasters and CEOS COAST have met several times to discuss the CEOS Earth Analytics Interoperability Laboratory (the Lab) and its potential to enhance these projects and advance the CEOS ARD Strategy and FDA interoperability. The WGISS and SEO will shortly begin deployment of the Lab and WG Disasters and CEOS COAST have begun developing inventories of data and tool requirements and availability for their projects. Development using the Lab is being approached as a series of Experiments (e.g. Discovery of ARD, access to ARD, Integrated analysis) involving source data and analytics capabilities from multiple CEOS agencies participating in the CEOS COAST and WG Disasters Pilot projects. WGISS has also discussed the potential to have multiple Lab deployments hosted at other agencies to help broaden the experiments where agencies have similar capabilities (e.g. ESA).
- New publications and service changes:
  - Process for the Governance and Sustainability of the CEOS Open Source Software and Future Data Architectures Inventories
  - WGISS Data Management and Stewardship Maturity Matrix v1.3
  - The IDN metadata management tool (<https://idn.ceos.org/contribute.html>) is open now and under regular maintenance and the previous docBUILDER system has been decommissioned

## **Upcoming meetings or events**

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

- WGISS 50 Virtual Meeting – planning underway including revised dates.

## **Attachments**

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

# CEOS SEC-266 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)

- 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)

- Finalized WGCapD-9 Annual Meeting report and available on the website [here](#).
- Updates on the following WGCapD deliverables are as follows:
  - **CB-28/CB-18-06: Conduct global capacity building courses through a multi-lingual MOOC (Massive Online Open Course) for advanced practitioners/experts on radar backscatter** [POC: DLR, Due: Q2 2020]
    - Course will be published in four different languages with last language currently near completion. Information on course to be published around July 1, 2020.
  - **CB-29/CB-18-07: Conduct global capacity building courses through Webinar on Asia-GEOGLAM, SAR Missions – Present and future, Disaster Risk Reduction (UNOOSA) (global training-interactive) → Subdeliverable: CB-29-2019-3: Webinar: Crop Monitoring and Assessment using Remote Sensing and GIS (4 Weeks)** [POC: ISRO, Due: Q2 2020]
    - ISRO conducted the webinar May 19-June 9, 2020 with approximately 5,000 participants.
  - **CB-34/CB-19-02: Provide webinar on LCLUC theme in SE Asia** [POC: NASA, Due: Q3 2020]
    - 2020 LCLUC Webinar Series featuring South/Southeast Asia Research Initiative (SARI) projects held 5 webinars between April 16-June 4, 2020. Webinars are recorded and available [here](#). Sixth webinar to be held June 25, 2020.
- Conducted first round of four quarterly regional calls (Africa, Americas, Asia-Oceania, Europe) to discuss and coordinate around capacity building activities within each region and engage additional space agencies not yet involved in WGCapD. Each call facilitated by representative from region.
- The WGCapD Chair and Vice Chair participated in first round of GEO Working Group Capacity Development (WG CD) meetings. The WGCapD Chair will serve through 2022 as Co-Chair of the WG responsible for the subgroup focused on dissemination events and monitoring, evaluation, and impact assessments.

# CEOS SEC Report

(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)**

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## **Issues requiring discussion/decision during current CEOS SEC teleconference (Dot points)**

- WGCV in discussion with WG Climate on coordination of various inputs in the GHG roadmap from the different entities
- The dates for WGCV#47 has been set for 14-17 July 2020

## **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)**

- Presentation on WGCV activities at the NASA SBG webinar series

## **Upcoming meetings or events**

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

- CEOS WGCV Plenary #47 July 2020 14-17 July 2020, Virtual
- CEOS WGCV Plenary #48 Jan/Feb 2021, Tokyo, Japan
- CEOS WGCV Plenary #49 September 2021, Sochi, Russia
- CEOS WGCV Plenary #50 March 2022, Caltech, Pasadena

## **Attachments**

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