

CEOS SEC-267 Report

(two pages max.)

Entity: CEO

Prepared By: Kerry Sawyer (NOAA)

Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

- Relevant Outcomes from the GEO 2020 Virtual Symposium
 - Report of highlights will be prepared/provided to SEC shortly
- Sent response to IAC/IAF Earth Observations Committee indicating CEOS is interested in co-hosting the Global Networking Forum session on COVID-19; awaiting response from the committee.

Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

- CEOS 2020-2022 Work Plan
 - Working with SEO Team to populate the online Deliverables Tracking Tool with updated information
 - Removed the reference to provide resources information
 - Final Work Plan will be sent for virtual endorsement on 17 July
 - Still receiving updates to the text as due date was unclear (per CEO error) – 9 July and 16 July
 - *Responsibilities and User Guide* will be prepared for the online Deliverables Tracking Tool
- Updates to CEOS Listserv
 - CEO, with concurrence from CEOS Chair, will send personalized letters to all 61 CEOS Agencies asking for review and confirmation of Principal and Contact information as well as requesting any status changes to Agencies; will also ask Agencies to consider participating in CEOS Working Groups and Virtual Constellations and participating in virtual CEOS Plenary (hoping to encourage broader Agency participation).

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 7.14.20

Attachments

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

CEOS SEC-267 Report

Entity: SIT Chair Team

Prepared By: J. Ross (GA) & CSIRO

Updates on issues raised during the last CEOS SEC teleconference

- CEOS Newsletter article submitted.

Issues requiring discussion/decision during current CEOS SEC teleconference

SIT TW Draft Agenda

- SIT TW Draft v0.1 Agenda circulated for CEOS SEC review on July 10.
- The agenda is driven by the objectives of CEOS Plenary and the sessions will be focused on coordination and preparation for the related items at Plenary.
- Welcome feedback before (via email to sit-chair@lists.ceos.org) or at CEOS SEC-267, during which we will provide a brief overview and an opportunity for any comments.
- The plan is, from a logistics point of view, for the opening and closing sessions to be similar to SIT (formal), but looking for the rest of the sessions to be more relaxed.

VC Reports to CEOS SEC Meetings

- The opportunity to report to SEC meetings was well received by the VC Leads, based on the feedback the SIT Chair received during our consultation calls.
- As such, the SIT Chair proposes a second round of reports from the VCs starting at SEC-268.

Other highlights, activities, actions, projects, collaborations

GEO Executive Committee Meeting

- The SIT Co-Chairs attended the 52nd meeting of the GEO Executive Committee on 7 and 8 July. The meeting was held virtually.
- Key highlights:
 - o The GEO Knowledge Hub Implementation Plan was approved after a long period of debate and concern, particularly about its resourcing implications and possible duplication of current/planned activities. Implementation will be an incremental step-wise approach with review after 12 months. The GKH will become a component of the GEOSS Platform (GEOSS Common Infrastructure) alongside those modules that facilitate access to CEOS Agency datasets. The success of the GKH Model depends on Analysis Ready Data being made available as well managed collections in public / commercial cloud platforms.
 - o The Executive Committee will invite CEOS to provide an update on the CEOS ARD Strategy, including progress on the generation of 'analysis ready data' products by CEOS Agencies. This is a result of the references in the Canberra Ministerial Declaration calling on space agencies to strengthen their work in this area.
 - o The Executive Committee agreed to postpone the next face-to-face Plenary meeting to 2021, to be held in South Africa. An 'extraordinary executive committee' meeting will be held in October/November to ensure critical GEO business is concluded. This meeting (or preparatory meetings) will be open to all Members and POs to ensure their voice is heard on major items of business like the GEO Work Programme. As

there will not be a Plenary, it is not clear that there will be a forum or opportunity for presentation of a "CEOS Statement".

Carbon & Biomass

- SIT TW session will feature a number of invitees, including from UNFCCC SEC, GCOS, GFOI and IPCC. Significant discussion time is planned on optimising the space agency participation in the processes of setting requirements and supporting the Global Stock Take.
- The AFOLU Roadmap team has started to draft its report under leadership of Osamu Ochiai and Frank Martin Seifert.
- We have been advised that the CEOS Biomass Protocol is still on track for release soon. And that work on the business case for support from CEOS Principals will commence in time for presentation at Plenary.

SDGs

- SIT Chair team drafted SDG session with SDG AHT co-leads for SIT TW: objectives are to showcase some applications + option for the SDG AHT future on the table for the Plenary
- Updates on SDG algorithms (Brian's report) - DEA applications to be discussed with Adam
- Subteams working on the Requirements tables + narrative around it
- Updated SDG inputs submitted to Kerry for the CEOS WP
- Next call with AHT members 22nd July: progress on Requirements + SIT TW agenda to be reviewed

ARD

- The WGCV Peer Review process of the CARD4L self-assessments submitted by the USGS for their Landsat Collection 2 Surface Reflectance and Surface Temperature products was completed and endorsed as CARD4L compliant at the Threshold level;
- The first Science Expert Review Panel teleconference to discuss and review the Aquatic Reflectance CARD4L PFS (AR PFS) draft was successfully held on July 25. Outcomes from the telecon as well as written feedback provided by July 10 will be used to update the document;
- CEOS-Industry ARD webinar was successfully held on July 1. There were 490 registrations, 227 connected to the live discussion and more than 580 views of the webinar (live and recorded views). Please find the full recorded workshop at the CEOS ARD webpage (ceos.org/ard);

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 SEC-267 Report (July 2020)

(two pages max.)

Entity: Ad Hoc Team on SDG

Prepared By: Flora Kerblat (CSIRO) for ESA/CSIRO

Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

- SANSa has agreed to co-lead the sub team on 11.3.1, and DLR will contribute to the work of 15.3.1 and support CSIRO

Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

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)

- SDG session drafted for SIT TW – and shared with SEC: the key objectives for SIT TW are to report on the satellite data analysis by the 4 sub teams, to showcase some progress on the ODC algorithms by SEO, and decide on preferable option on the future of the Ad Hoc Team
- Last sub teams co-leads meeting on 30th June:
 - Notes available upon request (shared with AHT members)
 - Updates on SDG algorithms (SEO report) have been provided
 - SANSa (Nale Muda) has accepted to co-lead the urban sub-team with NASA
 - DLR (Uta Heiden) will also be supporting Neil Sims on 15.3.1
 - 6.6.1 - Water: experts from GEO Wetlands, GEO AQUAWATCH and GEO GLOWS have been contacted and will contribute to the analysis of the satellite data requirements for this indicator
 - 11.3.1: the co-leads will reach out to their members and in particular GEO Urban Toolkit experts
 - 14.1.1: Emily Smail is coordinating inputs with Blue Planet and COAST members/experts
 - 15.3.1: CSIRO has reached out to LDN team but will narrow down its request to get further technical inputs
- Expected discussions about DEA applications and potential SDG algorithms (Adam L. and Brian K.) for showcase at SIT TW or Plenary
- Sub teams are now working on the Requirements tables + on the narrative around it

- GEO EO4SDG and CEOS SDG AHT were represented (by Argie, Chu and Marc) at the 7th July call of the IAEG-SDGs Working Group on Geospatial Information (WGGI) and are contributed to the new plan of work of WGGI.
- AHT is contributing to the GEO SDG 11 Toolkit and in particular the data sub-team
- Discussions with WGISS (CSIRO -Neil, Rob, Flora- and NASA-Brian) about potential inclusion of Land degradation (15.3.1) into the new project of Interoperability lab
- Updated SDG inputs submitted to Kerry for the CEOS WP

Upcoming meetings or events

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

- Next call with AHT members 22nd July: progress on Requirements + SIT TW agenda to be further discussed

Attachments

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

CEOS SEC-267 Report – July 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 annual IGARSS conference (planned for July in Hawaii) was moved to a virtual meeting on September 28 to October 2. Brian Killough (NASA, SEO) is leading session with Andreia Siqueira (GA) on Open Data Cube and Analysis Ready Data. 7 papers are planned for presentation. 5 other related papers were transferred to other sessions. **The work of CEOS is getting significant attention in these global conferences.**

Other highlights, activities, actions, projects, collaborations

- The SEO completed a report on Open Data Cube contributions to the SDGs on June 22. This report was briefed to the SDG team in a recent telecon. Work continues on these algorithms to introduce more interoperable data and build training materials.
- Using donated Google Cloud credits, the SEO has demonstrated the Open Data Cube connected to Google Earth Engine satellite datasets. We have created some unique Jupyter notebook algorithms for interoperable products using Landsat-8, Sentinel-1 and Sentinel-2. These include water detection, cloud masking and mission coincidences.

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 Chair Team held outreach meeting with the United Nations (UN) Global Geospatial Information Management (GGIM) Working Group on Geospatial Information and Services for Disasters (WG-Disasters) on 9 July 2020. WG-Disasters Co-Chairs Shoichi Oki and Simone Lloyd attended. Collaboration in terms of design and implementation of scenario-based exercises on different hazards was discussed. WGDisasters Secretariat Dave Borges serves as CEOS WGDisasters 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 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.

Upcoming meetings or events

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

- WGDisasters-14
 - Virtual, Dates TBC [Early September]
- GFDRR Understanding Risk Forum
 - Singapore, 30 November – 04 December 2020

CEOS SEC 267 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 is ready for publication, we just write letters and news/advertisement messages including finalising CEOS-SEC Action 238-07,
- 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.
- WMO has developed the Use Case gathering tool that is ready for going live and just needs a connection to climatemonitoring.info. 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 WGDIsasters for potential use cases to be included here.
- The GHG Task Team continues to improve the GHG roadmap document, with a focus on the Annex C that contains the work plan. With the CGMS WGII Chair and rapporteurs, we discussed the structure of involvement of CGMS Working Groups into the Task Team. We will make a proposal at the CGMS-48 Plenary in late August. In terms of endorsement of the GHG roadmap, at both Plenaries we strive for an endorsement of the objectives, the process, and the resource needs for the Task Team with the understanding that the roadmap is a living document, in particular the work plan in Annex-C.
- Designed the SIT TW 2020 - Carbon & Biomass session
- Delivered CEOS Newsletter 55 Article on WGClimate#12 meeting

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

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)

- WGISS, SEO joint deployment of the CEOS Earth Analytics Interoperability Laboratory has been delayed several weeks awaiting NASA IT approvals. This is not yet detrimental to project efforts.
- WGISS and CEOS COAST work meetings are underway to identify interoperability experiments to conduct in the Lab and how it will support the COAST projects.
- WGISS Interop Lab will be presented at the WGCV 47 meeting
- WGISS 50 is now scheduled for 22-24 Sept, following SIT TW. Format has changed to pre-recorded presentations being made available prior to the meeting with live Q&A during the video conference sessions held over those days. Some WGISS Exec members had experience with this format for other meeting and indicated it provided balance for discussion and allowed viewers to review presentations at a time appropriate for their time zone. WGISS is currently looking for a method to capture Questions when people are viewing presentations prior to the video conference Q&A.

Upcoming meetings or events

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

- WGISS 50 Virtual Meeting – 22-24 Sept

Attachments

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

CEOS SEC-267 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)

- Completed website updates [here](#), including new content on the landing, meetings, and resources page.
- Completing updates and restructuring of the WGCapD listservs to more effectively communicate working group activities and training opportunities.
- Updates on the following WGCapD deliverables are as follows:
 - **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 submitted a report summarizing the May 19-June 9, 2020 webinar series with 3,600 participants covering the topics of: Remote Sensing Basis of Crop Monitoring; SAR Applications in Rice Mapping; GEOGLAM: Global Agricultural Monitoring; and Operational Use of Remote Sensing in Crop Assessment.
 - **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 completed its sixth webinar on June 25, 2020. Webinars are recorded and available [here](#). 7th webinar to be held July 23, 2020 on Sowtime: Climate Adaptive Agriculture in the Eastern Gangetic Plains.
- The WGCapD Chair and Vice Chair participating in GEO Working Group Capacity Development (WG CD) meetings, including the WGCapD Chair participation in the first co-chair group meeting as as Co-Chair of the WG responsible for the subgroup focused on dissemination events and monitoring, evaluation, and impact assessments.
- Holding second round of four quarterly regional calls (Africa, Americas, Asia-Oceania, Europe) over weeks of September 21 and 28.
- Preparing potential side event ideas to submit for consideration in advance of the CEOS SIT Technical Workshop. The proposed topics cover: facilitating a discussion on how CEOS working groups organize themselves to identify and collect best practices and tips

for subsequent dissemination; and organizing an information sharing event for working groups that provides tips, effective approaches, and key questions to consider when developing and delivering their own training sessions.

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 (Dot points)

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

- WGCV is currently holding WGCV 47.
- WGCV has just submitted their peer review of the CARD4L self-assessments by the USGS for their Landsat Collection 2 Surface Reflectance and Surface Temperature products has been to LSI-VC.

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

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