

CEOS SEC-270 Report

Entity: SIT Chair Team

Prepared By: J. Ross (GA) & CSIRO

Updates on issues raised during the last CEOS SEC teleconference

- The SIT Chair Team shared the process for development and endorsement of a CEOS Statement to GEO Week 2020 (copied below).
- The CEOS Executive Officer will provide an update on the process, including on additional information received from the GEO Secretariat on:
 - o Their preferred timing for receipt of statements.
 - o Their preferred format for statements.
 - o Opportunities to include additional content (quotes, videos).
- The SIT Chair Team preference is for the formal statement text to be endorsed by the CEOS Plenary.
- Once the first draft statement is transmitted for SEC review (around 2 October), comments must be returned to the CEOS Executive Officer by 7 October.

Issues requiring discussion/decision during current CEOS SEC teleconference

SIT TW

- The final Outcomes and Actions document has been circulated to attendees and the broader CEOS Community. Agencies are encouraged to follow up all relevant actions. Thank you to all who contributed feedback.
 - o The term 'Outcomes' has been used in place of 'Decisions' in the final version to better reflect the role of the SIT TW in CEOS governance and operations.
 - o Considerable input was received, including possibly conflicting input on a couple of areas. The SIT Chair Team has reviewed the meeting records to arrive at the text in the document. If there are any remaining questions on this document please contact Jonathon Ross directly to discuss.
- The draft Minutes have been circulated to attendees. Comments are requested prior to 13 October (Close of Business US Eastern) so that a final record can be available prior to the CEOS Plenary.
- A survey has been created and distributed to attendees. SEC participants are particularly encouraged to contribute: <https://forms.gle/m2v9pmp9DxsnUY86A>

SIT-36

- To aid CEOS Agency planning, the SIT-36 meeting (week of 22 March) has been confirmed as a primarily virtual meeting.
 - o Although it seems highly unlikely, if some face to-face component becomes possible, consideration will be given to that at the time.
 - o Any inclusion of a face-to-face component would not change the fact that SIT-36 will be planned as primarily a virtual meeting.

Working Team All Hands Call

- Confirmed for 10 November (times below).

- o A formal call for topics will be issued after CEOS Plenary, to ensure the call provides a forum to discuss topics and actions arising from Plenary.
- o However, Working Teams are also invited to propose topics at any time!

Other highlights, activities, actions, projects, collaborations

Carbon & Biomass

- Our full day of the SIT TW was most productive and made the most of our guests from UNFCCC SEC, GCOS, GFOI and GEO WGClimate. Dave Crisp, Osamu Ochiai and Jorg Schulz were confirmed as our focal points for the new UNFCCC ad-hoc working group on Systematic Observations for the Global Stocktake.
- The CEOS Biomass Protocol is out for public review and will be put to CEOS Plenary for endorsement.
- The AFOLU White Paper is progressing well and Principals will be asked to consider development of a full Roadmap and resources for it.

SDGs

- Successful SDG session at SIT TW: objectives met (sub teams updates shared, SDG monitoring applications, CEOS contributions to GEO toolkits, future options discussed: 2 to be proposed at Plenary with one preferred), and good discussions. Positive feedback on the recent progress and increased engagement from multiple space Agencies.
- SDG AHT meeting on Monday 28th for outcomes/recap and next steps to the Plenary (including 2021 Roadmap to present): action/decision clarified, and Roadmap draft being developed
- Data Supply Analysis and Strategy on the CEOS website (for information only)
- Sub teams continue to develop their own deliverables (EO support sheet and Satellite data requirements)

ARD

- Two successful ARD sessions presented at the CEOS SIT TW 2020 (CEOS Analysis Ready Data: Beyond Land and CEOS Analysis Ready Data Strategy and Early Progress).
- CEOS Analysis Ready Data – Involving the Private Sector paper was well received at SIT TW and will be tabled for endorsement at CEOS Plenary (ARD Strategy task 2.4).
- CEOS Interoperability Terminology Report will be tabled for endorsement at CEOS Plenary (ARD Strategy task 1.4)
- SIT Chair will work with Ed Armstrong on a proposal to CEOS Plenary for Principals to support a small team to review the ARD framework and consider making it amenable to additional PFS for other domains.

Upcoming meetings or events

- Working Team All Hands Call. Virtual. Tuesday 10th November:
 - o 0700 US East
 - o 1300 Europe
 - o 2100 Japan
 - o 2300 Canberra
- SIT-36. Virtual. Week of March 22, 2021.

Date	Responsible	Description
By 24 September	CEOS Secretariat Participants	Email CEOS Executive Officer on the 'key messages' they would like to see in the CEOS Statement
By 28 September	CEOS Executive Officer	Provide initial text to the CEOS Chair and SIT Co-Chair
By 2 October	SIT Co-Chairs, with input from CEOS Chair and support from CEOS Executive Officer	Provide draft statement to CEOS Secretariat for virtual review
By 7 October	CEOS Secretariat Participants	Provide feedback on draft statement to CEOS Executive Officer
By 9 October	SIT Co-Chairs, with input from CEOS Chair and support from CEOS Executive Officer	Issue proposed statement to CEOS Secretariat for virtual review
By 12 October	CEOS Secretariat Participants	Identify any red-line issues to CEOS Executive Officer
By 13 October (note: indicative target date but depends on feedback from Secretariat)	SIT Co-Chairs, with input from CEOS Chair and support from CEOS Executive Officer	Distribute proposed statement to Principals and Contacts ready for discussion early in CEOS Plenary Week
CEOS Plenary Week	Principals	Early in Plenary week: Discuss proposed statement, agree changes, and endorse for submission
Following endorsement	CEOS Executive Officer	Submit text to GEO Secretariat for publication

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)

- The WGCV LPV Biomass Validation Team has submitted the Biomass Validation Protocol for peer review;
- WGCV IVOS have restarted the discussion with the industry on the review of the CARD4L specifications. First meeting scheduled on 22 September 2020;
- ISO has requested contributions to a calval standard currently being developed.

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)

Upcoming meetings or events

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

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

Attachments

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

CEOS SEC 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)

- Three WGDisasters documents were submitted for review by the CEOS community at SIT TW 2020 at are included in the Plenary 2020 agenda for endorsement.
 - Strategic Paper: *Promoting Space Data for Disaster Risk Management*
 - Recovery Observatory Implementation Plan
 - GEO/LEO/SAR Flood Pilot Implementation Plan
- WGDisasters continues the scoping process for a new Wildfire Pilot. A Pilot Implementation Plan is expected to be presented for review at CEOS SIT-36.

Upcoming meetings or events

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

- CEOS Plenary 2020
 - Virtual, 20 – 22 October
- WGDisasters Telecon #28
 - Virtual, November 2020

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 50 was held 22-24 September using an alternate format with pre-recorded presentations and 3x 2-hour video conferences for Q&A and Discussion. The new format was far less taxing on participants and promoted greater discussion as we had hoped. This has led to the identification of some additional WGISS actions and an updated interoperability strategy is being discussed to aid in coordinating several initiatives across WGISS interest groups and their engagement with other CEOS projects. The WGISS Exec will be working to refine these outcomes over the coming months. Although presentations were available in advance the video conference still attracted ~60 attendees to listen and contribute to the discussion showing strong interest in WGISS activities and direction.

Upcoming meetings or events

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

- WGISS has committed to the 2021 meeting schedule being all virtual given the ongoing travel restrictions.

Attachments

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

CEOS SEC-270 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)

- 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:
 - Deliverable CB-20-10 In-Person Air Quality Training, due Q4 2020, completed a workshop held August 24 and 26-28 with Thailand's Pollution Control Department (PCD) and Geo-Informatics and Space Technology Development Agency (GISTDA) officials. The training provided details on the applications of NASA resources to decision-making activities related to air quality monitoring, forecasting, smoke/fire, and PM2.5 monitoring, image interpretation, and data access.
 - Deliverable CB-19-02 Provide webinars on LCLUC theme in SE Asia, due Q3 2020, conducted its 10th webinar in 2020 as of October 2, 2020.
 - Deliverable CB-19-06 Provide CB support to Hyperspectral Remote Sensing, due Q4 2020, has 3 of 10 training sessions prepared with the remaining to be available by the end of the year.
 - WGISS and WGCapD have developed and circulated a survey to obtain community input on approaches for conducting Deliverable CB-20-04, Jupyter Notebooks Awareness Webinar, due Q1 2021.
 - WGCapD members participated in the WGDisasters meeting in September to discuss CB-20-18 Provide CB to Recovery Observatory Project, due Q4 2020, in light of pandemic and planned closeout of Haiti Recovery Observatory Project.
- Convened the August 2020 monthly Space Capacity Development Advisory Board (SCDAB) meeting focused on evaluating 5 options for convening the board by the end of 2020 and leveraging three key UN frameworks (the Sustainable Development Goals, Sendai Framework for Disaster Risk Reduction, and Paris Climate Agreement).
 - Planning to hold the October 2020 meeting to finalize the approach common to all three UN Frameworks: addressing vulnerability, national to local disaster risk reduction plans, and climate adaptation and resilience plans.

- Delivered presentation at CEOS SIT TW “WGCapD CEOS Branded Webinar Plans” and developing a paper to be delivered at the CEOS Plenary in October 2020.
- Delivered presentation at CEOS SIT TW on GEO Working Group Capacity Development (WG CD).
- Completed the second round of four quarterly regional calls as follows: Europe on September 22, 2020; Asia-Oceania on September 23, 2020; Africa on September 25, 2020; and Americas on September 29, 2020.
 - Solicited feedback on a draft survey to enable CEOS (e.g., WGCapD, WGISS, and SEO) to understand the space agencies’ roles in capacity development and learn from each other.
 - Shared recent capacity building activities in the region and plans for the next 4-6 months.
 - Discussed interest in conducting joint training courses with WGCapD as part of the CEOS 2021–2022 work plan.
- WGCapD Vice Chair presented on WGCapD’s recent e-learning experiences on September 30, 2020 at the Phi-Week 2020 ESA Education Side Event, “E-Learning: The Fifth Dimension of the Education Space-Time.”
- WGCapD Chair participated in WGISS-50 and presented on “CEOS Branded Webinar Plans with WGCapD” on September 22, 2020.
- Completing final actions for an October 2020 launch of restructured WGCapD listservs to more effectively communicate working group activities and training opportunities internally within the working group and externally to interested parties.

CEOS SEC-270 Report

Entity: CEO

Prepared By: Kerry Sawyer (NOAA)

Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

- Virtual endorsement of the CEO ToRs completed with minor change regarding CEO and Troika attendance (reference previous actions and discussion)

Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

- Polish Space Agency Associate Membership
 - Confirm POLSA request for Associate Membership and agree for participation at 34th CEOS Plenary
 - Meet criteria for Associate Membership
- CEOS Statement to GEO
 - 21 Sep 20 email request to SEC to provide key messages and impact statements to include in CEOS Statement to GEO; only response received from SIT Chair Team
 - Per scheduled prepared by Jono:
 - By 2 Oct, draft statement shared with SEC for review
 - By 7 Oct, SEC Members provide comments
 - By 9 Oct, final statement shared with SEC
 - By 12 Oct, SEC to provide redlines to CEO
 - Statement due to GEO by **15 Oct 2020**
- Pre-recorded video message by **9 Oct 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)

- None

Upcoming meetings or events

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

- See calendar 9.25.20

Attachments

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

CEOS SEC-270 Report – October 2020

Entity: SEO

Prepared By: Brian Killough (NASA)

Issues requiring discussion/decision during CEOS SEC teleconference

- **SIT-TW-2020-01 Action**

SEO to keep CEOS SEC updated on progress on the new GEO Community Activity on the Open Earth Alliance as an evolution of the Open Data Cube activity in which CEOS has been participating

Open Earth Alliance (OEA) Briefing to CEOS SEC

How did the OEA evolve?

- * The Open Data Cube (ODC) is an open source geospatial data management and analysis framework that was initiated in 2017 and evolved as a "Community Activity".
- * The six ODC "Partners" include GA, CSIRO, CEOS-SEO, USGS, UK-Catapult, and Aanalytical Mechanics (AMA).
- * Our ultimate goal is to grow the global satellite user base and increase the impact of EO. To date, the ODC has impacted many global users and has reached over 100+ countries.
- * The funds and contributions from the "Partners" have been critical to the initial success of the ODC, but more resources will be needed to maximize the global impact.
- * CEOS and the ODC are not "entities" that can receive funds or cloud credits.
- * The Open Earth Alliance (OEA) was created by the ODC Partners to expand the impact of the ODC, support the concept of a regional network of data cubes, allow more agility to explore open source solutions, and attract external funds and cloud credits from interested donors.
- * Having the OEA linked to GEO as a "Community Activity" will increase the visibility of the ODC and its impact on global users through GEO governments and other organizations. Also, donors could contribute funds or cloud credits to OEA thru the GEO Trust Fund.

How can/will CEOS contribute to the OEA?

- (a) Support new implementations of Open Data Cube (ODC) solutions as they emerge
- (b) Develop a new ODC User Forum
- (c) Develop a new ODC Algorithm Hub
- (d) Develop a new ODC Analysis Hub (AWS and Google Sandboxes)

- * Task (a) is supported when possible as it requires CEOS Agency / SEO budgets.
- * Tasks (b,c,d) are already planned by the ODC Partners
- * Tasks (c,d) are also contributions to the GEO Knowledge Hub

Updates on issues raised during the last CEOS SEC teleconference

- None

Upcoming meetings or events

- None

Other highlights, activities, actions, projects, collaborations

- The annual **IGARSS conference** was held virtually from Sept-28 to Oct-2. The SEO and GA led a session on Open Data Cubes (ODC) and Analysis Ready Data (ARD). 8 papers were presented.

CEOS SEC-270 Report

(two pages max.)

Entity: Ad Hoc Team on SDG

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

Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

- N/A

Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

- Another call for Agencies to express their interest in co-leading the AHT in 2021 and support the transition plan development

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)

- Successful SDG session at SIT TW:
 - objectives have been met: sub teams shared their updates (using a common template), SDG monitoring applications, CEOS contributions to GEO toolkits, future options discussed: 2 to be proposed at Plenary with one preferred)
 - Data Supply Analysis and Strategy is available on the CEOS website (for information only)
 - good discussions around the AHT future and direction
 - Received positive feedback on the recent progress and increased engagement from multiple space Agencies
- Last SDG AHT meeting on Monday 28th for outcomes/recap and next steps to the Plenary (including 2021 Roadmap to present):
 - SIT TW action/decision clarified,
 - Roadmap discussed and being developed (co-leads shared a draft, waiting for AHT comments)
- Sub teams continue to work on their own deliverables (EO support sheet and Satellite data requirements)

Upcoming meetings or events

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

- Next SDG AHT meeting week of 12th Oct (finalisation of Plenary messages)

Attachments

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