

CEOS SEC-311 Report

Entity: SIT Chair Team

Prepared By: SIT Chair Team

Updates on issues raised during the last CEOS SEC teleconference

- None.

Issues requiring discussion/decision during current CEOS SEC teleconference

- The [draft SIT TW 2023 Objectives & Agenda](#) have been shared with the CEOS mailing lists following the one week SEC review. The document will be covered at SEC-311 and additional feedback is very welcome.

Other highlights, activities, actions, projects, collaborations

Carbon & Biomass

- UNFCCC SEC outgoing RSO focal point Jo Post convened a call of CEOS, WMO, and other observation community contacts to help focus on COP-28. Arrangements remain problematic.
- The ESA CEOS MIM team has been working on a prototype of a GHG Mission Portal which covers missions of all kinds. Will be released ahead of TW.
- AFOLU Roadmap team met this week to finalise the draft for circulation ahead of Plenary. A side meeting is also planned at TW.
- The OCR-VC is assembling resources to start the Aquatic Carbon Roadmap.

CEOS-ARD

- CEOS-ARD leadership continues to join the OGC ARD SWG meetings to ensure this activity is proceeding in a manner that is compatible with CEOS-ARD. CEOS is advocating that the group undertake broad community consultation to ensure any resulting standards have maximum utility.
- LSI-VC-14, which will have a substantial focus on CEOS-ARD will be held the week before SIT TW, October 10-12, also at ESRIN. All are welcome to attend.

CEOS New Space

- The New Space Task Team's white paper is being consolidated and recommendations are being considered ahead of the SIT TW. A side meeting will take place at SIT TW to refine the presentation to the TW, during which it is expected that the draft recommendations and the future of the topic in CEOS will be discussed.

EOHB 2023 for GST1

- Good progress on the draft. Thanks to all CEOS colleagues who provided comments on the drafts. The scrollytelling website should be ready ahead of Plenary and COP-28.

Upcoming meetings or events

- SIT Technical Workshop 2023 will be held at ESA/ESRIN 17-19 October.

CEOS SEC-311 Report

Entity: CEO

Prepared By: Marie-Claire Greening

Actions:

308-02	CEOS Executive Officer to prepare a collective assessment of CEOS interactions with GEO via an analysis of CEOS Work Plan and interactions with CEOS entities.	In Progress Due SIT TW
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2024 CEOS Chair nomination

UKSA have self-nominated as 2024 CEOS Chair. The nomination letter was circulated to the CEOS SEC on 3 August. This nomination is well-received and ensures CEOS's long-term leadership resilience whilst also aligning with our inclusion aims through geographic rotation of leadership offices. The UKSA's nomination will be brought to Principals for consideration and to seek their endorsement at the 2023 CEOS Plenary in November.

International Astronautical Congress

The 74th International Astronautical Congress (IAC) will be held in Baku, Azerbaijan from 2 – 6 October. The CEOS Chair has been invited to provide an opening session presentation on the first day. Unfortunately, this date clashes with the launch of THEOS2, so Pakorn Apaphant, CEOS Chair, will not be able to attend. He has delegated this to Tanita Suepa, who leads GISTDA's Strategic Alliance Office, and she has kindly accepted to provide this presentation in person in Baku on behalf of CEOS.

Group on Earth Observations

- **GEO Programme Board**

The GEO Programme Board (PB) took place virtually from 5 – 6 September 2023. The CEO attended for CEOS; CEOS is a full member of the Programme Board. The SIT Chair is the PB Principal and the CEO Alternate. Highlights from the meeting included:

- **Post-2025 GEO Work Programme and Incubators**

At the last PB meeting in June 2023, a group of PB members were tasked with

coming up with some guidance on what an incubator model should look like and what criteria for adoption should be applied in making the decision to involve such an initiative within the GEO Work Programme. Once established, the remit of this volunteer group was expanded to include discussion and consideration on how the GEO Work Programme would necessarily evolve in light of the post-2025 Strategy. This group has met only once thus far, and its mandate is now considerable. CEOS should maintain a watching brief on this specific aspect this and next year as these discussions evolve to ensure that CEOS member interests are considered in the next phase of the GEO Work Programming and in the specific case of GEO incubator choices.

- **Foundational Tasks 2023-2025**

Some changes to the GEO Foundational Tasks were suggested at the last PB meeting in June, and these were approved at this PB meeting. These may well change again as we move into 2025 and the post-2025 GEO strategy is implemented.

- **GEO Infrastructure Development Task Team (GIDTT)**

In response to an Expert Advisory Group on GEOSS, the GEO Infrastructure Development Task Team (GIDTT) is to be re-established and will begin its mandate this month. This is an important aspect for CEOS as the team will look at data infrastructure and architecture from all aspects and will work towards an implementation plan that will be presented at GEO Plenary 2025. CEOS will be represented on this group by:

- Dave Borges (NASA and Open Earth Alliance)
- Mirko Albani (ESA)
- Alex Held (CSRIO)

- **GEO Post-2025 Strategy**

A “near” final version of the GEO post-2025 Strategy was circulated to CEOS Sec members on 21 August. No further changes to this document are expected and we can assume that this is very close to being the version that will be submitted to Ministers for approval during GEO Week in November; no further comments are being accepted to this document. The CEO will send around the final version of the strategy as soon as it has been received.

- **2023 GEO Week**

GEO Week this year will be held in Cape Town, South Africa and includes the GEO Ministerial, GEO Plenary and ExCom. Registration to the meeting is now open via the [meeting web page](#). CEOS’s delegation will include in-person attendance from the SIT Chair, CEO and SEO. The SEO are planning on hosting a CEOS booth during the event.

Given the scheduling complications that the GEOSEC have had around the timing of GEO Week this year, they are proposing that subsequent GEO Weeks be shifted to the March timeframe and that the annual “Earth Day” be used as an anchor. If this proposal is approved at this year’s GEO Plenary, that will mean that there will be no GEO Week in 2024, and the next one will be aligned to “Earth Day” in March 2025. The EC has offered to host the 2025 GEO Week in Brussels.

- **GEO Cape Town Declaration**

The GEO Cape Town Declaration is now being finalised; the last draft was circulated to the CEOS SEC for comment on 21 August, with a 1 September deadline. No further comments are therefore being accepted to this document. The CEO will send around the final version of the strategy as soon as it has been received.

- **CEOS Statement to GEO**

As is normal practise, CEOS has been offered the opportunity to provide a statement to GEO Plenary/Ministerial. This is not read but will appear on the GEO Ministerial website in its written form. This has been drafted and was circulated to the CEOS SEC for comment / feedback on 1 September. The text thus far focuses on the two Chair priorities for this year, namely the Global Stocktake and New Space. Comments are requested to the CEO by 15 September; the final deadline for submission to the GEOSEC is 13 October.

Upcoming meetings or events

- WGDIsasters-20, Yellowstone Park, Montana, USA (5 – 9 September)
- GEO Programme Board #27, Virtual (5 – 6 September)
- 74th International Astronautical Congress (IAC), Baku, Azerbaijan (2 – 6 October)
- WGClimate-19, Frascati, Italy (16 – 17 October)
- SIT 2023 Technical Workshop & Side Meetings, Frascati, Italy (17 – 19 October)
- WGISS-56, Paris, France (24 – 26 October)
- 2023 GEO Week, Cape Town, South Africa (6 – 10 November)
- 37th CEOS Plenary & Side Meetings, Chiang Rai, Thailand (14 – 16 November)
- UNFCCC COP-28, Dubai, UAE (30 November – 12 December)

An updated calendar of CEOS meetings / events, and some key external events that the community may find of relevance, is detailed in the following page. If any key meetings or events are missing from this calendar, or if any dates have changed since publication, please contact Marie-Claire.

CEOS and relevant key external Meetings and Events

2023

September				
	04-Sep-23	08-Sep-23	Open Earth Monitor Global Workshop	Bolzano, Italy
	05-Sep-23	09-Sep-23	WGDisasters-20	Yellowstone Park, Montana, USA
	05-Sep-23	06-Sep-23	GEO Programme Board Meeting #27	Virtual
	25-Sep-23	30-Sep-23	WGCV IVOS subgroup meeting #35	Oberpfaffenhofen, Germany
	29-Sep-23	01-Oct-23	30th Workshop on Space Technology for Socio-Economic Benefits: "Challenges and Capacity-building Opportunities for Emerging Space Nations"	Baku, Azerbaijan
October				
	02-Oct-23	06-Oct-23	74th International Astronautical Congress (IAC)	Baku, Azerbaijan
	02-Oct-23	04-Oct-23	EuroGEO Workshop 2023	Bolzano, Italy
	03-Oct-23	05-Oct-23	Earth Observation for Carbon Markets Workshop	Frascati, Italy
	03-Oct-23	05-Oct-23	Observations within the Global Greenhouse Gas Watch	Geneva, Switzerland
	10-Oct-23	12-Oct-23	LSI-VC-14	Frascati, Italy
	10-Oct-23	13-Oct-23	GEO BON Conference	Montreal, Canada
	16-Oct-23	16-Oct-23	WGClimate GHG Task Team meeting	Frascati, Italy
	16-Oct-23	17-Oct-23	WGClimate-19	Frascati, Italy
	17-Oct-23	19-Oct-23	SIT 2023 Technical Workshop & Side Meetings	Frascati, Italy
	24-Oct-23	26-Oct-23	WGISS-56	Paris, France & Virtual
November				
	06-Nov-23	10-Nov-23	GEO Week (Ministerial Summit, GEO-19 and ExCom)	Cape Town, South Africa
	14-Nov-23	16-Nov-23	37th CEOS Plenary and Associated Side Meetings	Chiang Rai, Thailand
	13-Nov-23	17-Nov-23	5th International Ocean Colour Science Meeting	St Petersburg, Florida, USA
	19-Nov-23	21-Nov-23	Workshop on Optical Space Sensor Pre-flight Calibration and Characterisation	Noordwijk, Netherlands
	27-Nov-23	30-Nov-23	VH-RODA 2023 Workshop	Frascati, Italy
	30-Nov-23	12-Dec-23	UNFCCC COP-28	Dubai, United Arab Emirates
December				
	04-Dec-23	08-Dec-23	GSICS / WGCV IVOS Lunar Calibration Workshop	Darmstadt, Germany

2024

January				
	28-Jan-24	01-Feb-24	2024 AMS Annual Meeting	Baltimore, USA
February				
March				
April				
	09-Apr-24	11-Apr-24	SIT-39	Tokyo, Japan
	10-Apr-24	12-Apr-24	2024 UN Ocean Decade Conference	Barcelona, Spain
	14-Apr-24	19-Apr-24	EGU General Assembly	Vienna, Austria
May				
June				
	03-Jun-24	07-Jun-24	CGMS-52 Plenary	USA
July				
	07-Jul-24	12-Jul-24	IGARSS 2024	Athens, Greece
	13-Jul-24	21-Jul-24	COSPAR 45	Busan, South Korea
August				
September				
October				
	14-Oct-24	18-Oct-24	75th International Astronautical Congress (IAC)	Milan, Italy
November				
December				

Legend:

	CEOS leadership participation required
	For information; CEOS leadership participation optional

CEOS SEC Report WG Disasters 311

Entity: WG Disasters

Prepared By: H. de Boissezon (CNES), L. Frulla (Conae), A. Eddy (Athena Global)

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)

- WildFires Pilot survey closed with over 2509 responses. A detailed report will be made at WGDisasters20
- Formal proposals developed for SIT and Plenary for International Virtual Volcano Observatory (USGS) and Pre-operational Recovery Observatory (CNES); to be presented after discussion and finalization at WGDisasters 20 (5-9 Sept 2023)
- UNOOSA (Lorant Czarán) designed as WG Disasters vice chair for 2024-25.
- The GSNL biennial reports for the Ecuador, China and Nicaragua Supersites were sent in August and the reports are under evaluation by the Agencies.

Upcoming meetings or events

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

- WGDisasters-20 : 5-9 September at Mammoth Hot Springs – Yellowstone (hosted by USGS)
- WGDisasters-21 planned for Buenos Aires March 2024 (dates TBD)

Attachments

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

CEOS SEC-311 Report

7 Sept 2023

Entity: Joint CEOS-CGMS Working Group on Climate (WGClimate)

Prepared By: Jeff Privette (NOAA), Wenying Su (NASA)

Updates on issues raised during the last CEOS SEC teleconference

- GCOS Coordination
 - Space Agencies' Response to GCOS IP (SARGIP)
 - Schedule of Action responses
 - Responses to 21 actions will be delivered in 2023
 - Target completion: Oct. 6
 - Responses to 19 actions will be delivered in 2024
 - Responses to 8 actions are TBD.
 - Alignment meeting with Panel Leads on Aug. 9
 - Approach for where observation gaps are inevitable
 - GCOS to participate in WGClimate-19 (Oct. 16-17; likely remotely)
 - Update to GCOS Monitoring Principles (general+satellite) discussed
 - Mr. Nir Stav replaces Anthony Rea on Oct 1; pursuing coord. meeting
- COP-28 Planning
 - Space Agencies Statement to SBSTA
 - Draft complete, GCOS and SEC review to start later this week
 - Awaiting CSA response on its plan to read Statement orally
 - Earth Information Day
 - Multiple planning meetings; schedule/agenda/format still fluid
 - WGClimate participation not clear (cafes? posters? panels?)
 - Space Leaders Summit
 - UAESA provided Space Leaders Pledge for CEOS review
 - WGClimate will circulate to SEC members
 - Core satellite agencies did not receive invitations (ESA, NOAA)
 - Update possible to Space Declaration (14 pp; last update: COP-12)

Issues requiring discussion during current CEOS SEC teleconference

- Option to update Space Declaration for COP-28
 - Value and use not clear -- do we proceed with update?

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)

- GHG Cal/Val Networks coordination meeting (GHG TT leads, WGCV): Aug. 31
 - Focus: Support and sustainment NDACC/FTIR, TCCON, and COCCON
 - Follow-up at SIT TW

Upcoming meetings or events

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

- WMO Obs. in Global Greenhouse Gas Watch: 3-5 Oct., Geneva (Jeff, Wenying)
- WGClimate-19: 16-17 October (preceding SIT TW), Frascati (Jeff)
- SIT Technical Workshop: 18-20 Oct. (following WGClimate-19), Frascati (Jeff)
- CEOS Plenary, 14-16 November, Thailand (Jeff)
- COP-28, Earth Information Day, 30 Nov - 12 December, Dubai UAE (Wenying)
- AGU Session: Planning for Observation Continuity: Scientific Needs, Decision-Support Value, and the Practical Challenges, 11-15 December, San Francisco.

CEOS SEC Report

(two pages max.)

Entity: WGISS

Prepared By: Makoto Natsuisaka (JAXA) and Tom Sohre (USGS)

Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

- The chair attended NSTT meeting on Jul. 27th and Aug. 23rd. Review for the description on CEOS interoperability framework was requested to all the members. The review was also requested to all the WGISS members.
- Technology Exploration Interest Group ad-hoc meeting regarding the AI/ML white paper initiative was held on Aug. 2nd. The drafting for the AI/ML white paper is on-going.
- WGISS EXEC meeting was held on Aug. 7th. Agenda coordination for WGISS-56 to be held in Oct. was discussed. Presentations on the cloud use by CGMS and SEO will be invited. "Jupyter Notebooks as a shareable resource for CEOS" (see below) is planned.
- Monthly meeting of CEOS interoperability framework was held on Aug. 23.
- CEOS ARD OG, which considers OGC standardization for STAC extension of CARD4L, and WGISS, which is trying to develop a STAC Best Practice has started to communicate. The intentions of both teams were shared, and further communication is expected.
- The monthly meeting of CEOS interoperability framework was held on Aug. 23rd. Factor definition was made by avoiding duplication of topics and by reviewing the list of "included" and "excluded".
 - ① Vocabulary (Semantics)
 - ② Architecture
 - ③ Interfacing (Accessibility)
 - ④ Quality
 - ⑤ Policy

Associated group & POC for the work plan activities was also assigned. The focuses are as follows.

Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

- In terms of standardization of CEOS ARD, ISO-TC211 requested an MOU between ISO and CEOS. The message was escalated to the SIT, since the issue relates to the multiple CEOS entities.

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)

- WGISS-56 October 24-26, Paris France, hosted by CNES
- WGISS-57 TBD

Title: Jupyter Notebooks as a shareable resource for CEOS

Organizer: Esther Conway (NCEO/UKSA)

Expected participants: UKSA/NCEO, ESA, CNES, EUMETSAT, SEO, NASA Develop, UN, CSIRO Chile, University of Alaska Fairbanks , JAXA, Mexican Space Agency (others are expected)

Objective:

The purpose of the workshop will be to explore key aspects of the Jupyter Notebook technology. The technology has raised the promise of a centralised resource for a broad more inclusive range of CEOS agencies.

However, this also poses some specific technical/policy challenges which, to this end we plan to address the following in this workshop.

- Presentation of a range agency notebooks and service exemplars from WGISS and CapD. Followed by a discussion of emerging community need for discoverable and re-usable notebook based resources.
- Explore the application of CEOS Service Metadata Discovery Best Practice

https://ceos.org/document_management/Working_Groups/WGISS/Documents/WGISS%20Best%20Practices/CEOS-Service-Discovery-Best-Practices.pdf

to current agency resources including FEDEO, GitHub, Geo Knowledge Hub, GitHub/Zenodo and Agency Repositories

<https://ceos.org/document_management/Working_Groups/WGISS/Documents/WGISS%20Best%20Practices/CEOS-Service-Discovery-Best-Practices.pdf>

- Examine policies and approaches for keeping a repository current with viable/usable notebooks (how do we avoid a repository of broken things?)
- Finalise the remaining Jupyter Notebooks Best Practice topics covering
 - Notebook Access and Discovery
 - Description of Notebook technical dependencies
- Open discussion on the way forward and interaction of CapD/WGISS

Timetable: Afternoon Thursday 26th Oct – Morning Friday 27th October

Attachments

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

- None

CEOS SEC Report

(two pages max.)

Entity: WGCapD

Prepared By: Jorge Del Rio Vera (United Nations Office for Outer Space Affairs)

Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

- WGCapD ViceChair role

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)

- The group welcomed the nomination for incoming WGCapD vicechair of Julio Cesar Castillo Urdapilleta from Mexican Space Agency.
- Webinar session organized with National University of Itapua, with speakers from NASA, NOAA, Copernicus where WGCapD was invited to give a presentation. The session was declared of national interest.
- Presentation of the results of the recent SELPER training (presentation attached)
- Presentation of the upcoming UN/Austria Workshop (presentation attached)
- Presentation of the latest activities of EOTEC DevNet and the EOTEC DevNet Website: <https://eotecdev.net/>
Please register for the EOTEC DevNet Drought Working Group Meeting Kick-off: <https://eotecdev.net/taking-action-on-drought-kick-off-meeting-of-our-new-working-group/>
- WGISS/WGCapD technical session on Jupyter notebooks with the aim of preparing a catalogue and identify gaps. The meeting would be Thurs afternoon/Friday Morning of WGISS 56 <https://ceos.org/meetings/wgiss-56/> 24th – 26th Oct.

Attachments

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

Presentation on SELER training

Presentation from UNOOSA on UN/Austria Symposium

CEOS SEC Report

August 2023

Entity: WGCV

Prepared By: Philippe Goryl (ESA), Cody Anderson (USGS)

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)

- The organisation of the GSICS/WGCV Pre-Flight Calibration Workshop is progressing well. The dates are now confirmed: 19-20-21 November 2024 at ESA/ESTEC in the Netherlands. “Save the date” announcement was made; the organisation committee will meet in October to discuss the timeline and programme organisation.
- The SITSat Task Team Terms of Reference were endorsed; the group composition is under finalisation – showing large interest within the community. It will include participation of GSICS representatives. The KO will be done in September or October.
- The IVOS group will meet in September in Germany; among others, as response to JACIE/VH RODA action, the creation of a radiometric matchup data base for Very High resolution sensors will be presented and discussed.
- Fiducial Reference Measurement assessment framework is now being finalised and will be communicated soon. As reference paper was written to present the concept: Goryl, P.; Fox, N.; Donlon, C.; Castracane, P. Fiducial Reference Measurements (FRM): What are they?. *Preprints 2023*, 2023081421. <https://doi.org/10.20944/preprints202308.1421.v1>
- A summary and report of the WGCV-52 will be published in the next GSICS newsletter.
- As reminder: A new Terrain Mapping Subgroup Co-Chair is sought. All nominations welcome.
- WGCV-53 is being planned (tentatively) in Argentina, Cordoba, preferably 4-8 March. Currently confirming with CONAE.

Upcoming meetings or events

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

- CEOS WGCV IVOS meeting will be organised in DLR Germany at the end of September 2023.
- CEOS WGCV SAR subgroup workshop will be organised in DLR in October 2023.
- CEOS WGCV AC subgroup together with CEOS ACVC will organised a workshop in Brussel in October 2023 (tbc).

Attachments

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

LPV Meeting – Frascati 12-14 June 2023

CEOS SEC Report

Entity: SEO

Prepared By: Dave Borges (NASA)

**Updates on issues raised during the last CEOS SEC teleconference
(Dot points)**

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(Dot points)**

**Other highlights, activities, actions, projects, collaborations
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- CEOS Communication Team in partnership with JAXA, have published the latest CEOS Newsletter article: [CEOS at IGARSS 2023](#).
- Monthly SDG Coordination Group meeting held on Tuesday, 29 August. The CG confirmed topics for discussion at SIT TW side meeting and during SIT TW Sessions 4 and 8. Incoming SIT Chair, JAXA, has been invited to attend SDG CG meetings to ensure seamless transition of SDG CG strategic leadership.
- CEOS Communications Team is finalizing the CEOS Booth design which will be featured in the GEO Week 2023 Exhibition area. All CEOS elements are invited to contribute content and/or let Dave Borges know if you are attending in-person and wish to support the booth.
- SEO contributing to WGISS Technology Exploration Interest Group AI/ML White Paper, providing feedback and an optional standardized Use Case template that could be used by all contributors.

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

- GEO Week Ministerial Summit, Cape Town South Africa, 6-10 November.
 - EOI submitted and confirmed; SEO to host CEOS exhibition booth.