

## CEOS SEC-308 Report

**Entity:** SIT Chair Team

**Prepared By:** SIT Chair Team

---

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

- 2023 EO Handbook drafting progresses thanks to efforts of many CEOS teams. SEC will be asked for any review comments in June.

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

- None.

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

#### Carbon & Biomass

- CEOS-IMEO meeting on methane GHG observation coordination being held at Harvard on 7-8 June. Several relevant CEOS agency experts are participating as well as multiple New Space (eg GHGSat) and NGO (eg CarbonMapper, EDF) agencies. UNEP wants to see a plan for coordinating future observing assets, akin to a VC arrangement. SIT Chair team will participate and report back to the next SEC.

#### CEOS-ARD

- ARD Standards: OGC ARD Standards Working Group was approved May 3. ISO counterpart vote continues until May 23. OGC ARD SWG will have its next hybrid meeting at the 126th OGC member meeting in Huntsville, Alabama in the first week of June.
- ISO has designated the ARD series of standards to be ISO 19176. ISO 19176-1 is the first Part. CEOS will be represented in the ISO 19176 development team. CEOS-ARD team will keep a close eye on these activities as getting Part I right will be critical.
- CEOS-ARD OG and LSI members are attending and presenting at this week's ARD23 meeting. This is an industry organised ARD and related topic focused meeting. This is a critical engagement opportunity for CEOS-ARD and is a clear example of CEOS working team engagement with New Space.
- In the margins of ARD23, CEOS-ARD OG and LSI members organised a meeting around the STAC specification, with the aim of better understanding this community specification and its implications for CEOS-ARD discoverability and accessibility and CEOS data in general.

#### CEOS New Space

- CEOS New Space Task Team Meeting #5 was held on April 26.
- Team has started work on the white paper for plenary. Table of contents drafted, confirming authors, and consolidating content from past documents (think piece, working document) into the white paper.

#### EOHB 2023 for GST1

- Part 1 - aiming
- Part 2 - 5 articles received pursuing the remainder

Articles					
GEOGLAM NAP supplement		Esther, Sara - GEOGLAM			Draft received
GEOGLAM AMIS & CM4EW		Christina Justice			Draft received
GFOI/FAO SEPAL user stories and Family of resources		Erik, Inge, GFOI			Promised
IMEO/GHGSAT/EDF		Cynthia Wilson, UNEP			Draft received
Silvacarbon		Sylvia Wilson, USGS			Promised
CO2MVS/Copernicus CCS		Richard Engelen, Ruediger Lang			Draft received
GHG pilot inventories		Brendan Byrne, Dave Crisp			Draft received
Global Carbon Project		Pep Canadell, GCP			Promised
EUMETSAT and NOAA stories on Op Met data contributions		Paul C and Chuck			In discussion

- Requesting CEOS SEC review in late June - EOHB team will seek volunteers

- Texts will first be reviewed by relevant CEOS experts: WGClimate, AFOLU, GHG teams, VCs etc.
- Simon Stiell (UNFCCC EXEC SEC) agreed in principle to feature in [foreword](#) with Simonetta Cheli
- Scrolling web story plus PDF download the target formats
- SEC requested to suggest individuals within their agencies who may be willing and able to support some review (even individual sections would be helpful).
- On target for pre-GST1 release

**Upcoming meetings or events**

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

# WG Disasters CEOS SEC Report - 308

**Entity:** WG Disasters

**Prepared By:** Helene de Boissezon (CNES), Laura Frulla (CONAE), Andrew Eddy (for CNES)

---

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

- WG had prepared input for NSTT thinking piece; issue discussed during WGDisasters 19

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

- None

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

- WGDisasters 19 hosted by CONAE 18-21 April;
- Joint session (1/2 day) held with WGISS, with discussion on possible collaboration on ML/AI for EO; WGDisasters prepared to prepare use case on ML for forest fires;
- RO Demo activity in critical phase preparing use cases for cost benefit to support co-investment from partners for next phase 2024-2026;
- Volcano Demo preparing proposal for International Virtual Volcano Observatory for 2024 and beyond;
- Landslide Demonstrator preparing sustainability report for ongoing science and possible pre-commercial activity in collaboration with insurance sector;
- Seismic Demonstrator to prepare proposal for rapid seismic response activity, as continuity of previously completed Demonstrator;
- GSNL created Kahramanmaras Supersite established and many agencies providing data (ASI, CNES, CONAE, DLR, ESA ...)

## **Upcoming meetings or events**

- WGDisasters 20 to be hosted by USGS from 5 to 9 September in Gardiner, Montana;
- Participation in GEO Symposium panels (EO4DRM, GSNL) June 13 and 14.

# CEOS SEC-308 Report

18 May 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

- Continuing to seek a WGClimate representative to the GCOS Terrestrial Observation Panel for Climate (TOPC). Accepting all applicants.

## Issues requiring discussion during current CEOS SEC teleconference

- None

## Other highlights, activities, actions, projects, coll aborations

**(Dot points, e.g. outputs, new products, papers, technical reports, media, pipeline and new projects, interactions, project status changes, new opportunities)**

- Submitted article for CEOS Newsletter (JAXA) on WGClimate-18 (February)
- Presented WGClimate's 2023-2024 Work Plan, activity updates, and GHG Task Team highlights at the CGMS-51 Working Group II (24 April; virtual).
- Productive kickoff meeting on the Space Agencies' Response to GCOS IP (SARGIP), held 21 April 2023 (virtual), with GCOS Panel representatives
  - Teams contacting experts in agencies to help with answers.
  - Initial check-in meeting planned for first week of June.
  - Encouraging all CEOS agencies help support this large undertaking
- ECV Inventory restructuring: Paused work due to normal contract competition/turnover period. Will resume work once new contract is in place.

## Upcoming meetings or events

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

- WGCV-51: June 5-9. Supporting Day 4, Climate session. Von Bargaen attending
- CGMS-51 Plenary 26-28 June. Privette attending
- WGClimate-19: 16-17 October (preceding SIT TW)
- SIT Technical Workshop: 18-20 October (following WGClimate-19)
- CEOS Plenary, 14-16 November, Thailand
- COP-28, Earth Information Day, 30 Nov - 12 December, Dubai UAE

# 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)**

- WGISS-55 meeting was successfully held at CONAE in Cordoba, Argentina. Special session for CEOS Interoperability Framework was organized. WGISS contributions were discussed. Also, discussion results in CEOS New Space Task Team, CEOS Engagement with Standards Organizations, CEOS Ocean Coordination Group were shared. In the joint session with WGDisaster, the information exchange of both activities was made. The common interests for AI/ML white paper initiative and service discovery were identified.
- #4 meeting of CEOS Interoperability Framework was held on 10<sup>th</sup> May. After reporting the discussion results of the SIT-38 side event and WGISS-55, the discussions on “Focus” (Target Area) were made. Semantic (WGCV), Syntactic (WGISS), Data Architecture (CEOS ARD OG), Data Accessibility (WGISS), Data Quality (WGCV), Data Preservation (WGISS), Data Policy (SEO), and WGISS Interoperability IG (WGISS) were assigned as the Focuses. The chairs of the associated entities are requested to identify the “Champions” who will lead the activities by the end of May and the champions were requested to submit the one-page document describing the “Factors” (Topics) and overviews of their activities by the end of June.
- WGISS proposes Mirko Albani (ESA) to be a CEOS representative for GEO Infrastructure Development Task Team (GIDTT) in addition to Dave Borges.

## **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)**

- 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

## **Attachments**

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

- None



The joint symposium of WGISS/WGDisaster were successfully held in 19 April 2023 at CONAE (Cordoba Argentina).

# 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)**

- Not applicable

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

### **(Dot points)**

- WGCapD ViceChair role

## **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)**

An ad-hoc group inside WGCapD is analyzing options for improving the reusability of learning objects. The ad-hoc group has already met three times. During the last meeting (15 May), we had a short discussion on data/learning objects repositories, this discussion will continue on the week of 19<sup>th</sup> June. This ad-hoc group is working on a document describing findings and proposing alternatives.

### United Nations Needs Identification and Needs Repponse:

The WGCapD monthly meeting took place on 4 May and the discussion was centred around a document compiling needs from the presentations of UN entities that took place during the joint UN-Space/WGCapD-12. The document is work in progress and it is available [here](#). There is a form to insert resources matching the needs (form [here](#)).

➔ **Inputs through the form are very much welcomed**

CSA jointly with NASA will be conducting the training “Indigenous Mapping Workshop Australia 2023” in the beginning of June.

## **Attachments**

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

Needs document: available [here](#).

Form document: form [here](#)

# CEOS SEC Report

MAY 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 preparation of WGCV52 is progressing well. The agenda is now being consolidated. Key documents that were due for WGCV52 are almost finalised. One can mention:

- Guidelines for Cal/Val in Hyperspectral domain
- Fiducial Reference Measurement assessment process
- SITSat group Term of Reference

The organisation of the workshop of pre-flight calibration and characterisation has resumed. The perimeter of the workshop was discussed; location and dates should be proposed shortly.

The SAR subgroup is looking for a new chair who will take over from Bruce Chapman (JPL). Bruce will continue to lead the development of SARCALNET which is a major activity within WGCV.

Interoperability framework will be discussed. WGCV "is asked" to cover some topics like the 'Semantic Factor' incl. Terminology and Online Dictionary. The state of the discussion will be presented and discussed; however, the task might request resources that are currently difficult to find. This will be discussed and potentially it will be reported as issue in the next SEC reporting.

During WGCV52, a discussion will be organised around new space, in particular, on the development of calibration radiometric matchup database.

We will also consider potential use cases that WGCV could test on the CEOS EAIL platform, in particular the potential application to support DEMIX can be further explored.

## Upcoming meetings or events

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

- CEOS WGCV TMSG and DEMIX Workshop plenary meeting will be organised in July 2023 together with the geomorphometry 23 workshop:

<https://geomorphometry.org/geomorphometry-2023/>



- 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 Germany in October 2023.
- CEOS WGCV AC subgroup together with CEOS ACVC will organised a workshop in Brussel in October 2023 (tbc).
- The annual meeting of the NDACC-IRWG / TCCON / COCCON will be hosted by the Royal Belgian Institute for Space Aeronomy (BIRA-IASB) supported by the Belgian Science Policy Office (BELSPO). This event will take place from 12 to 16 June 2023 at the Radisson Blu Balmoral Hotel, Spa, Belgium.

### **Attachments**

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

# CEOS SEC Report

**Entity:** SEO

**Prepared By:** Dave Borges (NASA)

---

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

- Per SIT-38 discussion, SEO requested Secretariat feedback regarding the following three topics before or during SEC-308:
  - Defining target audience for CEOS communications efforts
  - Any additional representatives who wish to support CEOS Comms Team and development of new CEOS Communications Strategy (thanks to Katy Matthews, NOAA & Chris Barnes, USGS)
  - Communications POCs from member agencies willing to amplify CEOS communications content

SEO has not received feedback to date. CEOS Communications Strategy update process ongoing with delivery planned prior to Plenary. SEO/Communications Team open to inputs over the coming months.

## **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)**

- GEO Secretariat invited SEO to join the reconstituted GEOSS Infrastructure and Data Task Team (GIDTT). SEO has accepted this request. CEOS representation on the GIDTT will include Mirko Albani, Alex Held and Dave Borges.
- SEO attended the ARD23 Satellite Data Interoperability Workshop, which aims to advance interoperability and collaboration in Earth observation and remote sensing industry. SEO continues to support collaboration between CEOS ARD activities, the OGC ARD SWG and ISO 19176 ARD Working Group.

### **Upcoming meetings or events**

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

- GEO Open Data Open Knowledge Workshop, 15-16 June, Geneva Switzerland
- IGARSS 2023, Pasadena, CA
  - Organizing CEOS exhibition booth. Reach out to Dave Borges and Libby Rose if you wish to contribute any specific CEOS content.