

CEOS SEC-336 SIT Chair Written Report

CEOS Entity: SIT Chair Team

Prepared by: JAXA

New updates, particularly those that would benefit from CEOS SEC awareness, discussion, help and/or guidance:

- SIT TW will be kindly hosted by EUMETSAT in Darmstadt, Germany on 9-11 September 2025.
- Invitation email sent by SIT Chair on 5 June. Please check you received and your agency likely attendees did too (due to ongoing reliability issues with CEOS listserver)
- Registration link is: <https://ceosdotorg.wufoo.com/forms/z7ggbmb0p1h1fc/>
- Side meeting requests are now open:
<https://ceosdotorg.wufoo.com/forms/z1qi9k521d4e5nr/>
- Special rates obtained for 2 Darmstadt hotels. Refer to the letter.
- Contact SIT Chair Team with any issues you would like to cover in the 2025 Tech Workshop.

CEOS SEC-336 Meeting Written Report

CEOS Entity: CEO Team

Prepared by: Steven Ramage, June 2025

1. The Work Plan is now online, and it is business as usual updating the deliverables in the tracking tool.
2. A letter of response was sent to Johns Muleso Kharika, Chief, Science, Technology and Innovation Unit at UNCCD on behalf of the CEOS Chair on 6th June 2025.
3. The CEO team has been working the CEOS Chair on a Statement for COPUOS. The statement has been finalized and will be shared with the CEOS Sec prior to the meeting.
4. The CEO team has offered to join the CEOS Chair in meeting with GEO Secretariat Director at the ESA Living Planet Symposium. The CEO team has been supporting the SIT Chair who leads CEOS activities with GEO, including GEO Programme Board and Executive Committee meetings and other activities. Input has been provided to the talking points, but the CEO team would like to be in the meeting or have SIT Chair there.
5. Working Group on Capacity Building and Data Democracy
In addition to SANSA agreeing to continue as Chair for another year, ESA has nominated a new Vice Chair, Christoph Aubrecht. The next in-person meeting is now confirmed in the margins of COPUOS in Vienna, June 2025 in meeting room M6 on 30th June/1st July.
6. Discussions are ongoing with various space agencies that want to participate more in CEOS. With the Hellenic Space Centre (HSC) the CEO team has assisted the drafting of the formal letter expressing interest in becoming a CEOS Member. It is currently being reviewed by the board members of HSC, and it will be shared with the CEOS Secretariat for review. The same process has been followed by the Institute of Space Studies of Catalonia who are drafting a formal letter expressing interest as a CEOS Associate Member. The Kenyan Space Agency (KSA) has also communicated with the CEO team and received the relevant guidance. Lastly, the CEO team recently met with the Norwegian Space Agency (NOSA), and the Permanent Mission of Saudi Arabia to the United Nations in Geneva who wanted to learn more about Saudi Arabia joining CEOS.
7. Working Group Disasters
Pending more feedback on the approach for Early Warning for All from the CEOS Sec. Agenzia Spaziale Italiana (ASI) has offered to serve as Vice-Chair WG Disasters, and it is proposed that this position will be held by Antonio Montuori from ASI.
8. Working Group Climate
There was a request for support from the CEO team around capacity building and communication for the CEOS Global Stocktake Strategy (GST) document, this has been shared with WG CapD.

9. Working Group on Information Systems and Services

The CEO team continues to help with input to the CEOS Interoperability Handbook.

10. Working Group on Calibration and Validation

The CEO team will provide an update/overview at the next meeting in India.

11. The Biodiversity Study Team

Input has been provided to the BST Recommendation Outline and the Implementation Plan Outline as they prepare the results from stakeholder interviews and plan.

12. The CEO has now taken over the SDG Coordination Group and there are open calendar invitations for the next calls for the SDG CG members. Discussions have also taken place with the current lead of EO4SDG regarding the future of their activities. The CEO will be joint moderator with ESA on an SDG agora at Living Planet Symposium.

The CEOS calendar is regularly updated, and members of the CEOS Secretariat are requested to continue providing input regarding upcoming events.

Upcoming events

The following CEOS meetings take place in the coming weeks:

- WGCV-55: 8-11 July 2025 | Hyderabad, India

The next external meetings in June and July 2025 include:

- Subsidiary Body for Scientific and Technological Advice (SBSTA62): 16-26 June 2025 | Bonn, Germany
- ESA Living Planet Symposium 2025: 23-27 June 2025 | Vienna, Austria
- Committee on the Peaceful Uses of Outer Space: 2025 (COPUOS 68): 25 June - 4 July 2025 | Vienna, Austria

Online CEOS meeting calendar

Upcoming

CEOS

SIT

- **2025 SIT Technical Workshop** : September 9th - 11th, 2025 | Darmstadt, Germany

Plenary

- **39th CEOS Plenary** : November 4th - 6th, 2025 | Bath, UK

Working Groups

- **WGCV-55** : July 8th - 11th, 2025 | Hyderabad, India
- **WGISS-60** : October 13th - 17th, 2025 | Oberpfaffenhofen, Germany
- **WGClimat-23** : October 24th, 2025 | Virtual

Virtual Constellations

- **LSI-VC-18** : September 3rd - 5th, 2025 | Ispra, Italy

External

- **Subsidiary Body for Scientific and Technological Advice (SBSTA62)** : June 16th - 26th, 2025 | Bonn, Germany
- **ESA Living Planet Symposium 2025** : June 23rd - 27th, 2025 | Vienna, Austria
- **Committee on the Peaceful Uses of Outer Space: 2025 (COPUOS 68)** : June 25th - July 4th, 2025 | Vienna, Austria
- **IGARSS 2025** : August 4th - 8th, 2025 | Brisbane, Australia
- **76th International Astronautical Congress** : September 29th - October 3rd, 2025 | Sydney, Australia
- **UNFCCC COP-30** : November 10th - 21st, 2025 | Brazil
- **ESA Council Meeting at Ministerial level, CM25** : November 26th - 27th, 2025 | Bremen, Germany
- **AGU 25** : December 15th - 19th, 2025 | New Orleans, Louisiana, USA
- **WMO CM-16** : March 1st - 31st, 2026 | -
- **16th Session of Consultative Meetings on High-Level Policy on Satellite Matters (CM-16)** : March 3rd - 4th, 2026 | Geneva, Switzerland

CEOS SEC-336 Meeting Written Report

CEOS Entity: SEO

Prepared by: David Borges

New updates, particularly those that would benefit from CEOS SEC awareness, discussion, help and/or guidance:

- **CEOS L-Soft Listserv Spam/Quarantine Issue**
SEO continues to troubleshoot the Listserv issue where Microsoft flags some email traffic as spam and/or quarantine. Concurrently, SEO is doing a landscape analysis and exploring other distribution list platform options to determine if a wholesale shift is required. Mailman and Microsoft options are being investigated.
- **CEOS SDG Coordination Group Leadership Transition**
With CEOS Chair, CEOS SIT Chair, and Secretariat concurrence secured via email following SEC-335, CEOS SDG CG Implementation Leadership has transitioned from SEO to CEO Team. SEO thanks the CEO Team for their willingness to begin leading the Coordination Group.
- **Proposal for CEOS Zenodo Implementation Process**
Over the past several years, multiple CEOS groups have approached SEO and asked if CEOS has a formal process to secure DOI for appropriate CEOS documentation. SEO has developed a proposal to address these requests.

Additional points (for written reference only):

- N/A

Upcoming meetings and events (for written reference only):

- ESA Living Planet Symposium, Vienna Austria, 22-27 June
- IGARSS 2025, Brisbane Australia, 3-8 August

Proposal for CEOS Zenodo Implementation Process

Overview and Recommendation

As a collective, CEOS generates substantial documentation on Earth observation and remote sensing topics through its technical groups. This virtual library is now stored on multiple platforms, presenting challenges for discovery, consistent citation, and long-term preservation. This proposal recommends implementing Zenodo, a free digital repository operated by CERN, to establish a centralized system with automatic Digital Object Identifier (DOI) registration capabilities (<https://zenodo.org/>).

Zenodo automatically assigns DOI to all uploads, making documents immediately citable and trackable with enterprise-grade preservation at the CERN Data Centre. Many familiar institutions already use Zenodo to include GEO, the European Commission, Harvard University, etc. If accepted, this proposal offers a strategic opportunity to modernize CEOS document management while aligning with scientific best practices, with zero costs for upload, storage, and DOI registration. A phased approach beginning with pilot Working Groups would demonstrate value while increasing the visibility of CEOS as a leader in Earth observation coordination and scientific communication.

Value Proposition

Enhanced Discoverability: Comprehensive metadata and search capabilities improve how the Earth observation community, researchers, universities, and decision makers find and access CEOS documents through multiple discovery pathways.

Professional Citation Standards: Automatic DOI assignment establishes consistent citation practices, enhancing reach, professional presentation, and CEOS contributions in scientific literature, publications, grant applications, and other media.

Long-term Preservation: Documents are stored at the CERN Data Centre with multiple backup systems, ensuring permanent accessibility backed by institutional-grade infrastructure.

Community Collaboration: Shared workspaces enable CEOS groups to curate collections with flexible member roles and review processes tailored to different document sensitivities.

Cost-Free Implementation: Zero cost for upload, storage, and DOI registration while providing enterprise-level services and technical support.

Implementation Approach

Phase 1: SEO to establish CEOS community on Zenodo with designated administrators and metadata standards for documentation.

Phase 2: SEO to begin with a pilot Working Group (WGClimate) to test workflows, gather feedback, and demonstrate value before broader deployment.

Phase 3: SEO to initiate full community rollout with systematic migration of priority documents and integration of ongoing publication workflows.

Key considerations include training materials for users, quality assurance protocols for metadata consistency, and a governance framework defining review policies and access controls for different document types.

CEOS SEC-336 Meeting Written Report

CEOS Entity: WGClimat

Prepared by: Wenying Su, Vincent-Henri Peuch

New updates, particularly those that would benefit from CEOS SEC awareness, discussion, help and/or guidance:

- WGClimat attended the CGMS Plenary in Evian, France on June 3-5, 2025. WGClimat chair presented the working group's accomplishments and future plans. WMO expressed appreciation on the timely delivery of "Space agencies' response to the GCOS 2022 Implementation Plan" and the close collaboration established between WGClimat and GCOS.
- WGClimat and WGISS will discuss on Essential Climate Variables specifications, discoverability and archival, explore the possibility of using ECVs as a demonstrator for interoperability.
- Several WGClimat members will participate in the 62nd session of the Subsidiary Body for Scientific and Technological Advice (SBSTA) in Bonn, Germany.
- WGClimat UNFCCC engagement team will start drafting key messages for Earth Information Day.
- WGClimat will start drafting the CEOS-CGMS Statement on Progress in Supporting UNFCCC Needs for Global Observations for the 63rd session of the Subsidiary Body for Scientific and Technological Advice (SBSTA).
- WGClimat is in the process to update its Term of Reference.

Upcoming meetings and events (for written reference only):

- WGClimat and GHG Task Team will meet with the CGMS Working Groups, ahead of CGMS Plenary on June 2, 2025. A draft agenda has been proposed.
- A side meeting at SIT Technical Workshop 2025 will be arranged to discuss space-based ocean carbon measurements with GCOS.
- WGClimat-23 will be held as a virtual meeting on Friday October 24, 2025.
- WGClimat-24 will be held jointly with the GCOS Panels the week of February 9, 2026, in Harwell, UK.

CEOS SEC-336 Meeting Written Report

CEOS Entity: Working Group on Calibration and Validation (WGCV)

Prepared by: Cody Anderson, WGCV Chair, USGS

New updates, particularly those that would benefit from CEOS SEC awareness, discussion, help and/or guidance:

- The upcoming WGCV-55 meeting (Hyderabad, India; 8-11 July, 2025) will feature sessions dedicated to ISRO Cal/Val activities, the FRM Assessment Framework, Surface Reflectance Quality and Consistency, the CEOS-PVP, Subgroup reports, as well as strengthening collaboration with CEOS-ARD, the WGISS Interoperability Framework, and WMO GSICS. A session on Thursday 10 July is dedicated to commercial engagement, which has invited a number of local EO companies to share Cal/Val activities, challenges, and opportunities for collaboration.
 - A session planned for WGCV-55 seeks to understand what WGCV thinks it can/should do in supporting evolution of CEOS-ARD, specifically on how a future evolution of CEOS-ARD could better support: 1) Users of CEOS-ARD products to make better informed choices about the fitness for purpose; 2) Providers of CEOS-ARD products to improve the definition, generation, characterisation (initial and ongoing) and description of their products; and 3) Developers of CEOS-ARD specifications (i.e. the VCs) to accurately and clearly define fitness-for-purpose for particular Product Families.
- WGCV Members prepare for ESA's Living Planet Symposium, with presentations planned for:
 - TRUTHS and SI-Traceable Satellites (Nigel Fox, IVOS Chair)
 - Surface Reflectance Quality and Consistency (Josh Sixsmith)
 - Global Digital Elevation Models and geometric reference data (Peter Strobl, TMSG Co-chair)
 - Intercomparison Exercises in Earth Observation (Noelle Cremer, Claudia Giardino)
 - Cal/Val Park: project status and future plans (Fabrizio Niro, LPV Chair)
 - NASA-ESA Collaboration for Cal/Val of Sentinel-3 SLSTR and Earthcare MSI using vicarious buoy measurements (Steffen Dransfield)

Additional points (for written reference only):

- WGCV Members attended the Surface Characterisation and Validation from Ground-Based Networks and Space Workshop 2025 (Lille, France; 21-22 May, 2025).

Upcoming meetings and events (for written reference only):

- The joint meeting between AC-VC, WGCV ACSV, and IWGGMS was held from 9-12 June, 2025 in Takamatsu, Japan.
- The WGCV Terrain Mapping Subgroup (TMSG) Chair attended the Geomorphometry Conference last week in Perugia, Italy (9-13 June, 2025).

CEOS SEC-336 Meeting Written Report

CEOS Entity: WG on Disasters

Prepared by: L.A. Frulla, Lorant Czaran, Andrew Eddy

New updates, particularly those that would benefit from CEOS SEC awareness, discussion, help and/or guidance

- *On June 2, a teleconference was held between the CEOS SIT Chair, the CEOS Executive Support, the CEOS Executive Officer, Marie-Claire Greening from ESA, the WGDisasters chair and its SEC team, and Arijit Roy from ISRO (one of the coleads of EW4All subgroup). It was an interesting meeting and the following main decisions were taken.*
 - *The initial request set out in the 2023 letter sent by the WMO to CEOS members, which included a table of requirements, is no longer valid. This has been confirmed in several meetings held with the WMO. Therefore, there is currently no request for CEOS members.*
 - *It is considered best to hold a teleconference with some points of contact from the WMO and UNDRR to understand how the WG Disasters, or even CEOS members, can best collaborate with the initiative.*
 - *It was agreed that the idea of the workshop should be suspended for the time being.*
 - *WGDisasters believes in the importance of supporting EW4All initiative. Therefore, the subgroup that has already been formed, can remain as an internal body of the WGDisasters, carrying out the activities directed by the cochairs of the subgroup and supported by the WGDisasters leads. The first step would be to understand how to collaborate with the initiative.*
 - *The possibility of joining either to co-chair the subgroup, or to belong to it, is open to anyone from CEOS outside of WGDisasters, and even to anyone outside of CEOS (for example: WMO, UNDRR).*
- *On June 5 was held the second teleconference of WGDisasters. The projects presented their progress and all the actions were review. In general, they remain open until the WGDisasters 24 meeting in September.*

Additional points (for written reference only):

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Upcoming meetings and events (for written reference only)t

- *The WG Disasters 24 meeting will be held in Argentina in September (dates TBC) at the invitation of CONAE, in the city of San Carlos de Bariloche, Río Negro province in the south of Argentina.*

CEOS SEC-336 Meeting Written Report

CEOS Entity: WGISS

Prepared by: Tom Sohre, Chair

New updates, particularly those that would benefit from CEOS SEC awareness, discussion, help and/or guidance:

- Met with Gary Geller to discuss ongoing opportunities for WGISS support of Biodiversity activities. Agreed to have a dedicated discussion at WGISS-60.

Additional points (for written reference only):

- Published a CEOS news article (4 June) providing an overview of WGISS Connected Data Assets for data providers and data users.
- Drafted article for CEOS news highlighting progress of AHVRR recovery efforts facilitated by WGISS.
- WGISS/WGDisasters collaboration call scheduled for 18 June.
 - Focus: Discuss potential topics of mutual interest and consider whether a joint meeting in 2026 would be worthwhile
- WGISS/WGClimate collaboration telecon scheduled for 15 July.
 - Focus: ECV specifications, discoverability and archival as well as how ECVs/CDRs could be used as a demonstrator for interoperability

Upcoming meetings and events (for written reference only):

- WGISS-60, October 13-17, 2025, Oberpfaffenhofen Germany