

CEOS SEC-321 Meeting Written Report

CEOS Entity: CSA - CEOS Chair Team

Prepared by: CEOS Chair Team

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

- An invitation email was sent by CEOS Chair on 3 May regarding the upcoming Joint Workshop on Biodiversity. The workshop is scheduled to take place on 10-11 June 2024, at the UN CBD headquarters in Montréal, Canada. The event will be held in a hybrid format. Further details regarding the workshop's agenda and structure, as well as the subsequent Symposium in September, will be provided by the CEOS Chair Team in due course.
- The invitation letter for the 2024 CEOS Plenary is currently being drafted, with distribution targeted for late May / early June 2024. The CEOS Chair team is finalising details related to accommodation, social events, and visa processes before sending.
- The UN CBD COP will take place Monday, 21 October 2024 to Friday, 1 November 2024 in Colombia. This overlaps with the 2024 CEOS Plenary meeting. A discussion is required at SEC regarding potential CEOS representation at this meeting, as well as on specific objectives and goals.

Additional points (for written reference only):

- N/A

Upcoming meetings and events (for written reference only):

- Joint Workshop on Biodiversity, to be held at UN CBD headquarters in Montréal, Canada. The meeting will be in hybrid format and take place on 10-11 June 2024, with CSA support.
- CEOS Plenary will be held in Montréal, Canada on 22-24 October 2024.

CEOS SEC-321 Meeting Written Report

CEOS Entity: SIT Chair Team

Prepared by: JAXA SIT Chair Team

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

- JAXA team thanks all CEOS agencies for their constructive engagement in the SIT-39 meeting. It had an ambitious agenda and sought to establish directions for our SIT Chair term ahead. The team would welcome any feedback directly on any aspect of the meeting by email to jaxa-sit-chair-2024-25@googlegroups.com
- The various threads from SIT-39 and on the SIT priorities are being followed up.
- On climate policy impact, further opportunity for discussion among agencies and our community experts will be provided, starting with a teleconference in the next month. Refer to the [slide deck](#) prepared for SEC-321. WGClimate has been tasked to lead a GST1 lessons learned exercise and SIT Chair will coordinate an update of the CEOS GST Strategy by 2025.
- On GHG observations, follow up calls have already been held on the best practices topic and this remains under coordination. Further discussion also needed on some topics, including our interfaces to WMO G3W and IMEO. A call will be held with the GHG stakeholders from the WGClimate TT, AC-VC and others to follow up on the very productive side meeting in Tokyo.
- A call is being scheduled to ensure communication between the GHG, AFOLU and Aquatic Carbon Roadmap teams.

Additional points (for written reference only):

- None.

Upcoming meetings and events (for written reference only):

- SIT TW will be held 17 - 19 September 2024 in Sydney.
- SIT-40 will be held in the week of 7 April 2025 in Fukuoka, Japan.
- SEC will be notified of the various community teleconference dates to progress SIT Chair priorities.

CEOS SEC-321 Meeting Written Report

CEOS Entity: CEO Team

Prepared by: Steven Ramage and Irena Drakopoulou, May 2024

1. CEOS 2024-2026 Work Plan

The initial version of the Work Plan was issued on the 4th of April 2024. However, to accommodate input from various Working Groups, additional time was allocated to gather and integrate this feedback into the updated version of the Work Plan. This revised document was then distributed to the CEOS Principals on April 19 for virtual endorsement, which was scheduled for May 3, as agreed upon during SIT-39 in Tokyo. Inputs were collected and integrated into the CEOS Work Plan. Following additional requests for time to review the plan, the finalised virtually endorsed document will be shared on the 16th of May 2024.

2. CEOS Strategic Guidance Document

Per the meeting notes from the 320th CEOS Secretariat meeting, the CEO team has started discussions with the CEOS Chair on a proposed update to the CEOS Strategic Guidance Document, notably the “Introduction and Background” section.

3. GEO Executive Committee Meeting

The CEO and other CEOS colleagues attended the EXCOM meeting from 16 - 17 April 2024. A separate report is attached. Progress is being made with the GEO Post-2025 Strategy and implementation plans. One area to learn more about is the new Member Services activity and how this relates to participating organisations, such as CEOS. NB several topics discussed relate to the reporting at the last CEOS Secretariat meeting from the March GEO Programme Board.

4. WMO engagement

Following participation in the 15th Session of Consultative Meetings on High-Level Policy on Satellite Matters (CM-15) and the 3rd Session of the Commission for Observation, Infrastructure, and Information Systems (INFCOM-3), CEOS is invited to participate in the 78th Session of the Executive Council (EC-78) taking place between 10-14 June 2024 in Geneva and to provide a statement in under agenda item 5: cooperation with the United Nations and other international organisations – pending confirmation of the date/time. The challenge is moving beyond CEOS interventions in such meetings to more action on topics, such as Early Warnings for All, Global Greenhouse Gas Watch (G3W) and preparations for the 2nd Global Stocktake scheduled for 2028.

5. UNOOSA engagement

The CEOS Chair will record a statement for the 67th Session of the Committee on the Peaceful Uses of Outer Space (COPUOS). This CEOS statement (currently out for review)

includes areas of alignment from mapping the CEOS Work Plan against the UNOOSA Space 2030 Agenda (see separate attachment). The COPUOS will take place from 19-28 June 2024, in Vienna, Austria. The deadline for reviewing the document is 29th May for submission to UNOOSA before 5th June 2024.

6. A formal letter is being finalised from Johns Muleso Kharika, Chief of the Science, Technology, and Innovation Unit, UNCCD to CEOS outlining their requirements for satellite data long-term. The letter will be sent to the CEOS Chair, copying the CEO and SEO. It will then be shared with the CEOS Secretariat for information and action.
7. An in-person meeting is planned with new CEO of the Open Geospatial Consortium (OGC), Peter Rabley to discuss ARD, geospatial reporting indicators, and standards areas.

Upcoming events/invitations

SatSummit

CEO is supporting the CEOS Systems Engineering Office (SEO) and the workshop on analysis-ready data (ARD) and engaging more broadly with the EO commercial sector.

16-18 May, Washington DC, USA

World Meteorological Organisation EC-78

78th Executive Council meeting. 10-14 June, Geneva, Switzerland.

World Biodiversity Forum

CEO is attending two separate side events with GEO BON (on biodiversity observation networks) and NASA (on biodiversity and remote sensing) and meeting with members from the Ecosystem Extent Task Team demonstrator teams. 16-18 June Davos, Switzerland

International Geoscience and Remote Sensing Symposium - IGARSS 2024

The CEOS Systems Engineering Office (SEO) is hosting a CEOS booth during IGARSS and the CEO will join the team at IGARSS. 7-12 July 2024, Athens, Greece

2024 GEO Symposium & the Open Data and Open Knowledge (ODOK) Workshop

This includes several events with the GEO Programme Board at the end of the week.

23-27 September, Hangzhou, Zhejiang Province of China

World Data Forum (no decision)

CEO has been invited to participate in two sessions. Firstly, from FAO for a panel session on Earth Observations, Crop Statistics, and Food Security. Secondly, Britta Ricker, Professor from the Copernicus Institute of Sustainable Development, Utrecht University invited CEOS (via the

CEO) to be part of their panel on Sustainable Development Goals and Earth observations. If anyone plans to attend, it would be good for them to join these sessions.
18-21 Nov, Bogota, Colombia

Online meeting calendar

CEOS

SIT

- **2024 SIT Technical Workshop** : September 17th - 19th, 2024 | Sydney, Australia
- **SIT-40** : April 8th - 10th, 2025 | TBD, Japan
- **2025 SIT Technical Workshop** : September 9th - 11th, 2025 | Darmstadt, Germany

Plenary

- **38th CEOS Plenary** : October 22nd - 24th, 2024 | Montreal, Canada
- **39th CEOS Plenary** : November 4th - 6th, 2025 | Bath, UK

Working Groups

- **WGDisasters-22** : September 30th - October 4th, 2024 | Budapest, Hungary
- **WGISS-58** : October 15th - 18th, 2024 | Sioux Falls, SD, USA
- **WGCV-54** : October 15th - 18th, 2024 | Sioux Falls, SD, USA
- **Workshop on Pre-flight Calibration and Characterisation of Optical Satellite Instruments for Earth Observation** : ESA-ESTEC | November, 2024

Virtual Constellations

- **AC-VC-20** : October 14th - 18th, 2024 | College Park, MD, USA

External

- **EO for Agriculture under Pressure 2024 Workshop** : May 13th - 16th, 2024 | Frascati, Italy
- **Geolignite** : May 14th - 16th, 2024 | Montreal, Canada
- **Blue Carbon from Space Forum** : May 14th - 17th, 2024 | International Space Science Institute, Bern, Switzerland
- **SatSummit 2024** : May 16th - 17th, 2024 | Washington DC, USA
- **National Forum on Earth Observation** : May 28th - 30th, 2024 | Montreal, Canada
- **Space and Global Health Hackathon** : May 31st - June 1st, 2024 | Geneva, Switzerland
- **CGMS-52 Plenary** : June 4th - 6th, 2024 | USA
- **CGMS-52 Plenary** : June 4th - 6th, 2024 | Washington DC, USA
- **Joint Workshop on Biodiversity (supported by CSA)** : June 10th - 11th, 2024 | Montréal, Canada
- **Understanding Risk Forum 2024** : June 16th - 21st, 2024 | Himeji, Hyogo Prefecture, Japan
- **3rd World Biodiversity Forum** : June 16th - 21st, 2024 | Davos, Switzerland
- **UN COPUOS 67th Session** : June 19th - 28th, 2024 | Vienna, Austria
- **IGARSS 2024** : July 7th - 12th, 2024 | Athens, Greece
- **COSPAR 45** : July 13th - 21st, 2024 | Busan, South Korea
- **IPWG-11** : July 15th - 18th, 2024 | Tokyo, Japan
- **GPM 10th Anniversary Symposium** : July 19th, 2024 | Tokyo, Japan
- **Advancing Earth Observation Forum (AEO24)** : September 9th - 13th, 2024 | Adelaide, Australia
- **GEO Symposium and GEO Open Data and Open Knowledge Workshop** : September 23rd - 26th, 2024 | China
- **GEO Programme Board Meeting #29** : September 27th, 2024 | China
- **EUMETSAT Meteorological Satellite Conference** : September 30th - October 4th, 2024 | Würzburg, Germany
- **75th International Astronautical Congress (IAC)** : October 14th - 18th, 2024 | Milan, Italy
- **International Coordination Group for Spaceborne SAR workshop** : November 6th - 8th, 2024 | Ureshino, Japan
- **UNFCCC COP-29** : November 11th - 24th, 2024 | Baku, Azerbaijan
- **AGU24** : December 9th - 13th, 2024 | Washington DC, USA
- **IGARSS 2025** : August 4th - 8th, 2025 | Brisbane, Australia

CEOS and relevant key meetings and events 2024

Start Date	End Date	Meeting/Telecon	Location
May			
13.May.24	16.May.24	EO for Agriculture under Pressure 2024 Workshop	Frascati, Italy
14.May.24	16.May.24	Geolignite	Montreal, Canada
14.May.24	17.May.24	Blue Carbon from Space Forum :	Bern, Switzerland
16.May.24	17.May.24	SatSummit 2024	Washington DC, USA
28.May.24	30.May.24	National Forum on Earth Observation	Montreal, Canada
June			
04.Jun.24	06.Jun.24	CGMS-52 Plenary	USA
16.Jun.24	21.Jun.24	Understanding Risk Forum 2024	Himeji, Hyogo Prefecture, Japan
17.Jun.24	21.Jun.24	3rd World Biodiversity Forum	Davos, Switzerland
19.Jun.24	28.Jun.24	UN COPUOS 67th Session	Vienna, Austria
July			
07.Jul.24	12.Jul.24	IGARSS 2024	Athens, Greece
13.Jul.24	21.Jul.24	COSPAR 45	Busan, South Korea
15.Jul.24	18.Jul.24	IPWG-11	Tokyo, Japan
19.Jul.24	19.Jul.24	GPM 10th Anniversary Symposium	Tokyo, Japan
22.Jul.24	25.Jul.24	ARD24	San Francisco, USA
August			
		TBD	
September			
09.Sep.24	13.Sep.24	Advancing Earth Observation Forum (AEO24)	Adelaide, Australia
17.Sep.24	19.Sep.24	SIT Technical Workshop and Associated Side Meetings	Sydney, Australia
23.Sep.24	26.Sep.24	GEO Symposium and GEO Open Data and Open Knowledge Workshop	Hangzhou, China
27.Sep.24	27.Sep.24	GEO Programme Board Meeting #29	Hangzhou, China
30.Sep.24	04.Oct.24	WGDisasters	Budapest, Hungary
30.Sep.24	04.Oct.24	EUMETSAT Meteorological Satellite Conference	Würzburg, Germany
October			
14.Oct.24	18.Oct.24	75th International Astronautical Congress (IAC)	Milan, Italy
14.Oct.24	18.Oct.24	AC-VC-20	Maryland, USA
15.Oct.24	18.Oct.24	WGISS-58	Sioux Falls, USA
15.Oct.24	18.Oct.24	WGCV-54	Sioux Falls, USA
22.Oct.24	24.Oct.24	38th CEOS Plenary and Associated Side Meetings	Montreal, Canada
November			
06.Nov.24	08.Nov.24	International Coordination Group for Spaceborne SAR workshop	Ureshino, Japan
11.Nov.23	24.Nov.23	UNFCCC COP-29	Azerbaijan
19.Nov.24	21.Nov.24	Workshop on Optical Space Sensor Pre-flight Calibration and Characterisation	Noordwijk, Netherlands
December			
09.Dec.24	13.Dec.24	AGU24	Washington DC, USA
Legend:			
CEOS leadership participation required			
For information; CEOS leadership participation optional			

CEOS SEC-321 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:

- *From March 19 to 21, the WG Disasters-21 meeting was held. It was virtual and approximately 30 participants attended. There were presentations of all the pilot projects and demonstrators updates and the Seismic Demonstrator Proposal was approved.*
- *The Utilization Satellite Data Unit from the Vietnam National Space Center added a participant to the WG Disasters. In addition, a bilateral discussion on ISRO involvement was held and ISRO expects to contribute to WG Disaster activities in the future, including possible work on forest fires, droughts, and biodiversity impacts of disasters.*
- *A meeting was held on Friday 10th of May, with the SIT chair to explore ways of possible cooperation between WG Disasters and WMO for the EO4All initiative. In this sense, WG Disasters is already in contact with UNOOSA and GEO, so the SIT Chair will contact Rui Kotani (GEO) and Natalia Donoho (WMO) to have a meeting all together (CEOS SEO, SIT chair, WG Disasters, WMO and GEO). The objective of the meeting is to better understand the requirements and to see if other groups of CEOS could be involved with this initiative, mainly because EO4All has more partners than WMO and GEO.*

Additional points (for written reference only):

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Upcoming meetings and events (for written reference only):

- *The WG Disasters teleconference T-36 will be on Jun 5*
- *The WG Disasters 22 will be in Budapest from October 1 to 4 and will be hybrid.*

CEOS SEC-321 Meeting Written Report

CEOS Entity: Working Group on Capacity Building and Data Democracy

Prepared by: Daniel A. Matsapola, WGCapD Chair

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

- *WGCapD held its 13th Annual meeting on March 25 - 27, 2024 through virtual platforms and engaged with presentations from across the major continents of the world on various Earth Observation capacity building efforts underway.*
- *Collaborative opportunities are being explored among different CEOS WGCapD space agencies, with some joint activities across continents already bearing fruit as articulated during the May 2024 CEOS WGCapD Monthly Meeting.*

Additional points (for written reference only):

Upcoming meetings and events (for written reference only):

- USGS, NASA, and NOAA webinar titled "Opening The Aperture On Earth Science: How Open Science Initiatives Are Transforming Earth Science" on Thursday, 30 May, 2024 at 13:00 UTC (09:00 EDT)
- EOTEC DevNet Global Task Team meeting May 16, 2024, 13h00 – 14h15 UTC on Zoom platform.
- South African National Earth Observation and Space Secretariat (NEOSS) Integrated Workshop and Capacity Building Training during June 4 – 6, 2024 (08h30 – 18h00) under the theme "Empowering National Uptake: Leveraging Earth Observation Data and Knowledge" at the CSIR International Convention Centre, Pretoria
- EOTEC DevNet Webinar on June 18, 2024 at 13:00 UTC on drought management strategies, in collaboration with the UNCCD

CEOS SEC-321 Meeting Written Report

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

Prepared by: Philippe Goryl, WGCV Chair, ESA

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

- WGCV Terrain Mapping Subgroup (TMSG) is seeking nominations for the TMSG Co-chair, which remains open.

Additional points (for written reference only):

- WGCV presented their activity at the WGClimate meeting held at the end of March, in particular how to respond to the GCOS IP in terms of FRM.
- A dedicated page for the [SITSat](#) has been developed within the CEOS WGCV Cal/Val Portal. The page will serve as a platform for sharing information related to SITSats. It is still at the preliminary stage.
- Abstracts submission for the [Preflight Calibration Workshop](#) is still open. The deadline has been extended to 31 May 2024. The workshop seeks to bring together, experts from industrial and academic developers of instruments, those specifying, designing and performing calibration and characterisation as well as scientists, engineers, New Space actors, agencies and funding organisations interested in what is and/or might be possible for a next-generation instrument or future application.
- The leads from WGCV and WGISS held a telecon on 14 May to plan the upcoming joint WGCV-WGISS meeting in Sioux Falls. The discussion covered potential agenda topics, including interoperability, expressing uncertainty, the maturity matrix, the GCP Match Up database, SITSats, and CEOS-ARD. The groups also addressed logistical arrangements for the meeting. A follow-up call is scheduled for 5 June 2024 to continue the preparations.

Upcoming meetings and events (for written reference only):

- WGCV next telecon will be held on 23 May 2024.
- WGCV-54 meeting will be held in USGS, Sioux Falls, South Dakota, USA from 15-18 October 2024. A joint WGCV-WGISS session for more than half a day is being planned.
- Workshop on Pre-flight Calibration and Characterisation of Optical Satellite Instruments for Earth Observation will be held at ESTEC, Noordwijk, The Netherlands from 19-22 November 2024.

CEOS SEC-321 Meeting Written Report

CEOS Entity: Working Group on Information Systems & Services (WGISS)

Prepared by: Tom Sohre, WGISS Chair

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

- No topics for discussion from WGISS.

Additional points (for written reference only):

- WGISS Data Discovery and Access Interest Group has coordinated with SEO and NASA regarding updates to access and documentation for the International Directory Network (IDN).
 - The CEOS International Directory Network (IDN) home page and search portal serve as NASA's contribution to the Committee on Earth Observation Satellites (CEOS).
 - The IDN provides access to more than 52,000 Earth science dataset descriptions (stored in NASA's Common Metadata Repository [CMR]) that cover subject areas within Earth and environmental sciences. IDN's mission is to assist researchers, policy makers, and the public in the discovery of and access to data relevant to global change and Earth science research.
- Coordinating with WGCV regarding WGISS-58 meeting agenda.
- WGISS has identified initial volunteers from across CEOS WG's / VC's to participate in development of Handbook 2.0.
- WGISS will be updating the existing WGISS Terms of Reference (last updated 2015), specifically to address outdated stakeholder section.
- WGISS will be coordinating with SEO to determine if there is better location within the CEOS web presence for the "New Agency Dataset Availability" webpage.
- WGISS will be coordinating with SEO regarding use of centralized repository for Best Practices document reviews/publishing.

Upcoming meetings and events (for written reference only):

- WGISS-58 is planned for 15-18 October 2024 in Sioux Falls, South Dakota, USA. This will be a joint meeting with WGCV.

CEOS SEC-321 Meeting Written Report

CEOS Entity: SEO

Prepared by: Dave Borges

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

- At the request of WGISS, SEO is planning to create a new Organizational Account on GitHub for CEOS. CEOS currently has multiple different footprints on GitHub that would benefit from formalization and standardization. Any Working Groups, Virtual Constellations, or Agencies with any questions or specific requirements are asked to share with SEO before the next SEC meeting.
- Updated GEO Infrastructure Development Task Team (GIDTT) Terms of Reference and Technical Assessment documents were approved at GEO ExCom 63 in April 2024. Primary elements of the Technical Assessment document that involve CEOS directly include CEOS MIM, IDN, Jupyter Notebooks Best Practices, and Data Cube interoperability. One specific topic raised at GIDTT May monthly meeting was interest in leveraging Applications attribute field of CEOS MIM. New GIDTT Deliverables timeline:
 - November 2024: Final GEO Infrastructure and Architecture (Requirements)
 - April 2025: Evolved GEO Infrastructure Implementation Plan
 - April 2026: Demonstration and start of GEO Infrastructure Operations
- Based on SIT-39 feedback, SDG Coordination Group is re-examining priority areas where the CG could expand SDG support, if expert support is available from other areas. Two priority areas identified are Climate and Biodiversity. The CG will be reaching out to WGClimate and Ecosystem Extent Task Team to understand levels of support available. Further, the Coordination Group is well represented and contributing to a UN Committee of Experts on Global Geospatial Information Management (UN-GGIM) IAEG-SDG Working Group on Geospatial Information (WGGI) white paper to be shared at UN-GGIM 14th Session in New York in August. If additional CEOS Agencies also have national representation within UN-GGIM please let SEO know.
- SEO was approached by [Brooklands New Media](#) several months ago with request to develop a CEOS 40th Anniversary tribute. Cost is covered by paid advertising with no direct cost required of CEOS. CEOS Communications Team will have opportunity to review all products and specific paid advertisements before publication. SEO has decided to allow this company to produce the product, but any concerns can be sent to the SEO.
- SIT Chair, CEO, and SEO met with Malaysian Space Agency (MYSA) Director General Azlikamil Napih and team on 30 April in response to MYSA outreach to SEO indicating interest in increasing engagement throughout CEOS. MYSA will follow up with specific interest areas.

- SEO is supporting WGCV letter to Chile Science, Technology, Knowledge and Innovation Ministry (Minciencia) in the context of RadCalNet support. Minciencia has also indicated interest in potentially joining CEOS as an Associate Member.

Additional points (for written reference only):

- SEO is planning a training event during SatSummit conference with Radiant Earth Foundation and Auspicious, focused on cloud native geospatial topics that highlight practical applications and benefits of CEOS-ARD.
- Three papers co-authored by SEO have been accepted for inclusion by the IGARSS 2024 Program:
 - *A Generative AI Framework for Earth Observation Analysis*
 - *The CEOS Analytics Lab and Insights to enabling Interoperability with Commercial Data*
 - *Cloud Native Geospatial: Realizing the Digital Earth Vision*
- SDG Coordination Group (CG) maintains monthly coordination meetings in 2024 and has submitted updated CEOS Work Plan language and confirmed Deliverables.

Upcoming meetings and events (for written reference only):

- SatSummit 2024, Washington D.C., 15-17 May
- IGARSS 2024, Athens Greece, 8-12 July [CEOS Exhibition Booth]