

CEOS SEC-318 Meeting Written Report

CEOS Entity: CSA – CEOS Chair

Prepared by: Eric Laliberté

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

- 1) On December 20th, 2023, CEOS Chair team (CSA) had a first meeting with UNCBD & GEO BON to initiate formal collaboration. The discussion was meant to see what can be done for Biodiversity during the CSA Chairmanship, including establishing the right relationships with UNCBD and GEO. Overall the objective is to hear from UNCBD and GEO how the 3 organisations can work effectively together, for CSA to then revert to CEOS on what is needed.
- 2) The Canadian Space Agency (CSA) is using the opportunity of its CEOS Chair year as a planning phase for a potentially broader CEOS response to the topic of biodiversity.

During the 2023 CEOS Plenary, the endorsement of the [Ecosystem Extent Task Team's White Paper](#), was formalized, a productive [side meeting on biodiversity](#) took place and CSA's CEOS Chair term ([priorities paper](#)) began. Following the Plenary, CSA undertook a series of calls with all working groups in order to survey existing activities relating to biodiversity by CEOS working teams. The objectives of this exercise are to:

- Understand whether existing CEOS Working Groups, Virtual Constellations and other entities are directly or indirectly contributing to biodiversity related matters.
- Whether there are ongoing activities in the CEOS working teams that are also applicable to the biodiversity topic / community and are transferable.
- Understand the extent to which the existing CEOS structure might be able to respond to a new headline CEOS priority of biodiversity and gather opinions on the need for a new mechanism.

Additional points (for written reference only):

- None

Upcoming meetings and events (for written reference only):

CEOS Chair team is hoping to organise a workshop with UNCBD and GEO BON in late April 2024. Draft proposal was shared with SEC members. Please provide any comment/suggestions regarding content!

Workshop Proposal: Trilateral collaboration between UNCBD, GEOBon, & CEOS

This document is meant to present an initial proposal for a Joint workshop between CEOS, UNCBD & GEO Bon, to be led by the CSA¹ acting as 2024 CEOS Chair. The overarching question the 3 organisations will seek to answer is “How Earth Observation can fill the gaps to protect and conserve biodiversity effectively².”

Context:

To protect and conserve biodiversity effectively, we need accurate data, monitoring, and analysis tools. EO datasets, collected by satellites and other remote sensing technologies, have become indispensable in this regard. To that effect, the 2024 CEOS Chair team is seeking feedback from the international biodiversity community on how to increase the utility of CEOS and Earth observation for biodiversity, and help determine options for the future of the biodiversity topic within the CEOS structure.

In parallel, countries will have to develop their National Indicator & Monitoring Reporting Framework in order to meet the objectives of COP15. But countries without such a framework require assistance to meet the reporting expectations. In collaborating more closely, UNCBD, CEOS, and GEO Bon have the possibility to help by providing guidance on how to use EO data to measure and monitor essential biodiversity variables and related indicators.

Proposed Workshop format and structure:

- Dates: End of April 2024, at CSA HQ (Financial constraints to be considered)
- Targeted audience: Space Task Force, UNCBD experts committee, identified UNCBD and GEO BON Member States Representatives, ...
- Format and structure: Hybrid format, 2 days – TBD (challenging to gather all experts in person)

¹ According to CEOS process for approval of new initiative, each proposed new initiative must be sponsored or led by a CEOS entity. The CEOS sponsor of new initiative will have to prepare a presentation, in addition to the written activity description to be provided to the Secretariat, which will be sent to decision-makers at least two weeks prior to the appropriate decision meeting. The CEOS sponsor will make a brief presentation on the proposed activity during the appropriate decision meeting.

² CEOS has the following criteria for a new initiative: 1) alignment with CEOS strategic goals; 2) Benefit to internal and external holders; 3) Feasibility and affordability

Proposed Workshop Objectives:

- Agree on the scope of the future relationship between CEOS, UNCBD, GEO Bon, including on the mechanism used to formalize the relationship
- Identify specific priority collaboration areas between CEOS, UNCBD, GEO Bon that will contribute to support national members with national reporting on biodiversity
- Identify potential capacity building initiatives (ex: BON in a Box, reporting toolkit, inventory of available public & commercial data, etc)

Proposed discussion items

- Introduction to Earth Observation – How can we ensure that UNCBD Parties and GEO Bon are aware of the capabilities of Earth observation?
- EO Datasets for Biodiversity – list and description of relevant EO datasets, including their sources, accessibility, and potential applications:
 - What is needed from Earth observation to advance the study of biodiversity and help nations report on their progress towards the Global Biodiversity Framework (GBF) goals?
 - How do you combine satellite Remote Sensing with in-situ data?
 - EBV categories
- Case studies – real-world examples of how EO datasets have been used for biodiversity protection and conservation, featuring projects from different regions and ecosystems:
 - EETT Demonstrators are happening through CEOS agencies and are funded beyond 2024. They can serve as pathfinders:
 - ECCC Demonstrator - Hudson Bay Lowlands
 - Demonstrator in Australia
 - Demonstrator in Costa Rica
- Best practices and guidelines – comprehensive guidance for researchers, protection and conservation organizations and policymakers on integrating EO data into biodiversity protection efforts:
 - IUCN typology is to be used across the monitoring framework - considering countries have their own, how do we do cross walks between the two?
 - Countries are hoping to go beyond the use of EBVs, as they connect with EESV (service variables) – how EBV framework could be complemented by EESV?
- Future Collaboration and Partnerships – information on collaborative initiatives, platforms and organizations working in the field of EO and biodiversity protection and conservation:
 - Country level: many feel they do not have access to technical resources. pilot BON in a Box in CEOS?
 - How can we ensure interoperability for users of the data?
 - CEOS website, a gateway into information (country/type of data sets)?
- Future trends – exploring emerging technologies and trends in EO that hold promise for enhancing biodiversity protection

Next steps:

1. **Understanding the objectives** - Jointly define what we aim to achieve with this workshop, including tangible outcomes, intangibles outcomes and levels of participation
2. **Identifying the target audience** - Understand who will be participating in the workshop - their needs, interests, and goals will influence the type of content we create.
3. **Create the agenda** - Assemble the activities into a coherent flow (add timing to each block to manage time effectively).
4. **Developing a communication plan** - 1) Determine what participants should know about the workshop in advance; 2) Create a description of the workshop to communicate its unique value; 3) Decide how participants will enroll in the workshop and how they can find out more.

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Possible Long-term expected outcomes for CEOS

- *Compile and curate a wide range of EO datasets that are relevant to biodiversity protection and conservation including satellite imagery, climate data, land-use data, etc.*
- *Showcase the application of EO data in monitoring and managing biodiversity, including habitat mapping, species distribution, and ecosystem health assessments.*
- *Provide guidelines and best practices for researchers, conservationists, and policymakers on using EO datasets for biodiversity protection and conservation efforts.*
- *Foster collaboration and knowledge exchange among scientists, protection and conservation organizations, and government agencies in the realm of biodiversity protection.*
- *Highlight success stories and case studies from CEOS members that demonstrate the effectiveness of EO data in biodiversity protection and conservation.*

CEOS SEC-318 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:

- The SIT Chair attended the WMO Consultative Meeting on High-Level Policy on Satellite Matters (6-7 February 2024) on behalf of CEOS. Several CEOS agency Principals were also in attendance. The CEOS presentation for supporting the WMO priorities (EW4ALL, G3W, Climate, Unified Data Policy) was well received. Particularly, CEOS asked if coordination mechanisms between CEOS and WMO need to be improved. Significant discussion on WMO G3W on how CEOS can contribute should be discussed in more detail in SIT-39.
- SIT Chair Team has developed objectives and outline agenda for SIT-39 and shared with CEOS SEC. Comments and suggestions are invited. The detailed agenda (session by session) will follow in a few weeks.
- The Team is busy working with the key CEOS stakeholders on the content and speaking slots. In general we would like SIT-39 to take time to reflect on our operating context as CEOS and to consider updating strategies as circumstances may require. We would like to have fewer, longer agenda items at SIT-39 and encourage active Principal contributions.
- We welcome Principal support for the key agency speakers to attend in person at SIT-39.
- VC catch-ups are underway, with three completed to date, and four remaining. We have been unable to schedule a time with OSVW-VC, due to lack of response from the leads. We will follow up with NOAA, EUMETSAT and ISRO offline to help gather a response.

Additional points (for written reference only):

- VC catch-ups haven't highlighted any major issues to date, some key points are listed below:
 - AC-VC is planning a meeting hosted by NASA/NOAA in Q3 2024, hopefully before the CEOS Plenary. Dates TBC.
 - AC-VC is discussing developing a new white paper to talk about geostationary air quality measurements in the global south. They are hoping this effort might also bring in more people from the global south to AC-VC.
 - LSI-VC-15 will be held in Tokyo the week before SIT-39. A special workshop dedicated to engaging with commercial / New Space actors in Japanese EO is being considered. The intention will be to engage both data providers as well as data distributors. The primary focus would be to promote CEOS-ARD and welcome an ongoing dialogue on all matters related to land surface imaging.
 - At SIT-39, the LSI-VC GEOGLAM subgroup will present an update on the GEOGLAM Essential Agriculture Variables and a proposal for how a CEOS's response could

proceed. If the proposal were agreed, the subgroup will likely require additional CEOS Agency representation to carry out further planning.

- LSI-VC continues to work with WGClimate representatives on a response to needs for Land Surface Temperature (LST) Climate Data Records (CDRs). Progressing this will be one of the headlines for the LSI-VC-15 meeting.
- P-VC on track to present new Terms of Reference to SIT-39. Updates are around the three and five year horizon goals. Both Co-Leads Chris Kidd and Takuji Kubota are planning to attend SIT-39.
- P-VC will also be seeking to renew membership from key agencies where staff have rotated/retired. Will engage agency POCs to start that dialogue.
- P-VC progressing a CEOS-ARD specification for Level 3 gridded precipitation products. This is a welcome pathfinder for new types of thematic CEOS-ARD and could open up new users and applications for CEOS data. Will present more at SIT-39.
- P-VC noted a newly released version of [IMERG](#) (version 7). There is also a new version of GSMap (three years ago).
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Upcoming meetings and events (for written reference only):

- SIT-39 will be held 9 - 11 April in Tokyo. A draft agenda will be shared with the SEC in mid-February before going to CEOS in early March.
- SIT TW will be held 17 - 19 September in Sydney.



**39th Meeting of the CEOS Strategic Implementation Team (SIT-39)
9th - 11th April 2024**

Tokyo, Japan

**OBJECTIVES & OUTLINE
DRAFT V0-1**

SIT-39 is the first of the four SIT and Technical Workshop meetings to convene during the JAXA-led SIT term of 2024-25. We propose to use it to set the scene on our selected priorities, and to establish consensus on the activities and targets for the term. In addition to progressing existing and evolving CEOS business, the SIT Chair term will have a strong focus on:

- **climate policy impact for EO satellite data** and the role for CEOS and its agencies in maximising that impact;
- **greenhouse gas observations** and their coordination, reflecting the increasing importance of satellite measurements in this domain.

Substantial sessions will be organised for each topic and we strongly encourage in person representation by the relevant agency experts we rely on to drive the substance in each case. The main sessions and objectives are as follows.

Climate policy impact session

- **Take stock of the observations community interface and impact to the climate policy process** - notably the UNFCCC and GST. This includes a report from IPCC TFI on GST1.
- **Debate the way forward, new approaches and new opportunities** - including improved coordination across observation frameworks, between CEOS and WMO, between research and operational agencies and more.
- **Consider specific strategies aimed at the GST2 timeframe** to provide focus and mobilisation of community efforts. Agree whether the CEOS GST strategy actions need to be updated accordingly.
- **Hear plans for in country demonstrators** to support uptake of space datasets for national inventories and reporting.

GHG observations session

- **Hear the latest on the WMO Global Greenhouse Gas Watch (G3W)** initiative, its implementation plan and debate the opportunities for CEOS to collaborate, including through reflection in our own GHG Roadmap.
- **Agree changes needed to the CEOS GHG Roadmap** in 2024 and actions for its updating.
- **Take stock of CEOS agency changes in GHG observation continuity** and the outlook for data supply and product generation through to the GST2 timeframe.
- **Review various activities underway to document best practices and standards for measurement of GHGs** from space and seek to establish consensus on any necessary coordination and the ultimate goals for CEOS.
- **Discuss the way forward for the CEOS relationship with the International Methane Emissions Observatory (IMEO).**

AFOLU session

- Update on the development of the actions supplement for the **CEOS AFOLU Roadmap**.
- Consider lessons to be learned from **the biomass harmonisation project underway** and broader implications for space agency coordination and provision of global datasets.
- Hear about work on **National Demonstrators for uptake of EO satellite data**.
- **Discuss with GEOGLAM on their priority data needs**.

Existing business session

- Decision on **COAST Virtual Constellation** Full Proposal, Implementation Plan, and Terms of Reference.
- Update on the **CEOS Aquatic Carbon Roadmap**.
- Update on the **Biodiversity initiatives** under CEOS Chair in 2024.
- Provide an opportunity for agency **updates on commercial EO** as recommended by the New Space Task Team.
- **VC and WG updates and issues** as required.
- **CEOS relationship with ICGS-SAR**.

In addition the meeting will feature a range of other topics requested by leadership of CEOS Working Groups and Virtual Constellations.

Week at a Glance

Tuesday April 9th	Wednesday April 10th	Thursday April 11th
Side Meetings <i>SEC-320</i> <i>GHG Coordination Mtg</i> <i>Biodiversity</i>	SIT-39 Day 1 am: AFOLU session <i>Harmonisation lessons</i> <i>National demonstrator activities</i> <i>AFOLU roadmap actions</i> Existing/Emerging Business <i>Biodiversity, COAST VC, CEOS Work Plan</i> pm: Climate Policy Impact <i>COP/GST update</i> <i>Future strategies</i>	SIT-39 Day 2 am: Existing/Emerging Business <i>Commercial EO, VC & WG issues</i> pm: GHG observations <i>WMO G3W and CEOS</i> <i>Continuity issues towards GST2</i> <i>Measurement standards</i> <i>GHG Roadmap</i> <i>CEOS & IMEO</i> Existing/Emerging business <i>Aquatic Carbon Roadmap</i> <i>CEOS & ICGS-SAR</i>

CEOS SEC-318 Meeting Written Report

CEOS Entity: CEO

Prepared by: Steven Ramage, 14 February 2024

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

1. Supported requests from the Humanitarian OpenStreetMap Team (HOT) and World Food Programme (WFP) to engage with CEOS on disaster response/recovery.
2. Joined SIT Chair and other CEOS Agencies at WMO CM-15 (High-Level Policy on Satellite Matters) and met with the new WMO senior management team.
 - a. Also supporting SIT Chair with invitees for SIT-39, notably WMO and UNFCCC
3. Follow-ups made with all CEOS entities expected to contribute to the CEOS Work Plan 2024-2026.
 - a. CEOS Team met with UNOOSA a few times to discuss the Space 2030 Agenda
4. Approached by the Director of Data Initiatives at the Secretariat for the Taskforce on Nature-related Financial Disclosures (TNFD) who is leading the development of a Nature-related Public Data Facility and would like CEOS to represent EO data providers.
5. Progressing slowly with WG CapD on emerging economies, speaking with space agencies from Africa, Asia, and Latin America (existing and new, potential members).
6. Reviewed biodiversity workshop paper, COAST VC paper, and OGC standards working group proposal for geospatial reporting indicators, as well as ARD and ISO approach.
7. Supported CEOS communications (internal and external); notably 40th anniversary.
8. Met with the GEO Secretariat work programme team for induction to the work programme including aspirations, and also met with GEO BON, GEOGLAM, and GEO LDN (including an introduction to WRI regarding land use change, satellite data, and gender).
9. Working with the UK Space Agency to determine potential dates for CEOS Plenary 2025: 3-7 November has been tentatively scheduled.
10. In September 2023, the CEO (in a previous capacity as senior adviser to the United Nations) attended a [High-Level Expert Group Meeting](#) at UNOOSA in Vienna. This was organised by the UN Science Policy Business Forum (UN SPBF): Towards a Big Data Revolution for the Planet with around 20 space agencies represented. UN SBPF wants to know if any CEOS delegates would attend [UNEA-6](#) (relevant topics are climate change and biodiversity). The response is pending. CEO was invited to attend sessions and declined due to short notice and limited travel budget.

Upcoming events/invitations

Association for Geographic Information

CEO will be the keynote speaker, as previously shared.
26-27 Feb 2024, Glasgow Scotland.

Group on Earth Observations (GEO) • GEO Programme Board

CEO will join others including ESA and SIT Chair
5-7 March 2024, Geneva, Switzerland (including one-day retreat).

GEO LDN Principals Meeting

CEO invited to join the GEO LDN (partly covering for SEO). After six years of operation and as a new GEO flagship there will be a review of what's happened, achievements and challenges, as well as the way ahead, including work plans, stakeholder engagement (incl. CEOS), and an in-depth discussion of sustainability aspects like governance, services, funding and inclusion.

Costs will be covered by GIZ.
11-12 March 2024, Bonn, Germany.

GEO BON Advisory Board Meeting

First online meeting with the new board members. CEO will join.
25th March 2024, online

Open Geospatial Consortium (OGC) Board Meeting

CEO has been invited to join OGC board members as a guest (invitation to join in person was declined and all contributions will be made online). Links to work of WGISS, WG CV, and SEO. OGC is interested in a closer working relationship with CEOS.

27th March 2024, online

Geospatial Summit policy roundtable (no decision taken yet)

Invitation from the national geospatial coordination body in the UK, they are also developing a national EO Data Hub including satellite data from CEOS agencies, as well as the private sector. The UK Space Agency (UKSA) may be there, but the CEO has been invited as an international participant (representing external views). Good opportunity to meet with UKSA, as well as other UK stakeholders, e.g. the Met Office, Defra, and the National Centre for Earth Observation (NCEO). 26-27 March 2024, London, UK.

UNOOSA 6th conference on space technology for water management (no decision)

The meeting is focused on water and the water-food nexus, it's an open invitation for someone to attend in person or remotely (initially invited the CEO). Need to confirm alignment with CEOS Work Plan, e.g. biodiversity, COAST, and sustainable development goals (SDGs).
7-10 May 2024, Costa Rica.

World Biodiversity Forum (no decision)

Organised by leading bodies in biodiversity, including GEO BON who are on the organising committee. Some of the Ecosystem Extent Task Team demonstrator team from Environment and Climate Change Canada may also attend.
16-18 June Davos, Switzerland

67th Session of the Committee on the Peaceful Uses of Outer Space (COPUOS)

CEO will attend the first few days of COPUOS 2024 in Vienna to present the CEOS statement, including the results of the mapping of the CEOS Work Plan against the Space 2030 Agenda.
19-28 June 2024, Vienna, Austria

7th High-Level Forum of United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) (no decision)

Early to mid-October 2024 in Mexico City, this international forum will bring together national statistical, mapping, and space agencies, the programme is being developed in the coming months. This links closely to the SDGs, as well as the World Data Forum. A key goal would be the inclusion of satellite data in the Integrated Geospatial Information Framework (IGIF).

World Data Forum (no decision)

This is closely linked to the work of UN-GGIM and also bringing together the statistical and mapping community with space agencies. CEO was invited to be included in two submissions. 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.
18-21 Nov, Bogota, Colombia (no decision)

CEOS and relevant key meetings and events 2024

Start Date	End Date	Meeting/Telecon	Location
January			
23.Jan.24	24.Jan.24	16th European Space Conference	Brussels, Belgium
28.Jan.24	01.Feb.24	2024 AMS Annual Meeting	Baltimore, USA
29.Jan.24	09.Feb.24	UNCOPUOS STSC 61st Session	Vienna, Austria
February			
06.Feb.24	07.Feb.24	WMO consultative meeting on high-level policy on satellite matters	Geneva, Switzerland
13.Feb.24	16.Feb.24	AGU Chapman on Remote Sensing of the Water Cycle	Honolulu, USA
March			
04.Mar.24	07.Mar.24	WGISS-57	Sydney, Australia
05.Mar.24	06.Mar.24	GEO Programme Board Meeting #28	Geneva, Switzerland
05.Mar.24	08.Mar.24	WGCV-53	Córdoba, Argentina
06.Mar.24	07.Mar.24	Earth Observation for Soil Protection and Restoration workshop	Frascati, Italy
11.Mar.24	14.Mar.24	JACIE 2024	Reston, Virginia, USA
12.Mar.24	14.Mar.24	UN-SPIDER space technologies and early warning systems	Bonn, Germany
19.Mar.24	22.Mar.24	WGDIsasters-21	Buenos Aires, Argentina
25.Mar.24	27.Mar.24	WG CapD	Mexico City, Mexico
April			
03.Apr.24	05.Apr.24	LSI-VC-15	Tokyo, Japan
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
16.Apr.24	17.Apr.24	GEO Executive Committee Meeting #63	Geneva, Switzerland
23.Apr.24	26.Apr.24	EUSAR-2024	Munich, Germany
May			
14.May.24	16.May.24	Geolignite	Montreal, Canada
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	20.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
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	China
27.Sep.24	27.Sep.24	GEO Programme Board Meeting #29	China
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
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			
Legend:			
		CEOS leadership participation required	
		For information; CEOS leadership participation optional	

CEOS SEC-318 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 February Monthly meeting on February 08, 2024, in the normal schedule of first Thursday of the month or one week before CEOS SEC meeting.*

Additional points (for written reference only):

- Collaboration discussions with other CEOS Working Groups ongoing.
- Four of the 2024 – 2026 Work Plan activities have already been discussed.
- SANSa and AEM will work with CEOS CEO to engage with space agencies in Africa and Latin America respectively, with support from CEOS WGCapD community.

Upcoming meetings and events (for written reference only):

- CEOS WGCapD Annual Meeting to be hosted by the Mexican Space Agency (AEM) in Mexico City and Online (hybrid format) during March 25th – 27th, 2024.
- South African Earth Observation Stakeholder Workshop at the CSIR International Convention Centre in Pretoria on February 15th, 2024, at 06h00 – 14h00 UTC
- EOTEC DevNet Global Task Team Quarterly Check-In on February 15th, 2024, at 14h00 – 15h15 UTC on Zoom platform.

CEOS SEC-317 Meeting Written Report

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

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

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

- WGClimate Vice-Chair nomination window currently open until 6 March 2024
 - Must be from meteorological agency per Terms of Reference (rotates)
 - Position starts with ratification at 38th CEOS Plenary
- WGClimate-20 dates set: March 26-28th, Boulder, Colorado
- Developing a draft template, including CEOS-CGMS branding, for WGClimate slide sets

Additional points (for written reference only):

- Reaching out to UNFCCC SBSTA on possible WGClimate side event at COP-29
- Commenced Year 2 work on the Space Agency Response to GCOS IP
- Resumed work on Gap Analysis Report, on schedule for release at April SIT Meeting

Upcoming meetings and events (for written reference only):

- WGClimate-20, March 26-28th, Boulder (Jeff, Wenying travel)
- CEOS SIT-39, 9-11 April 2024, Tokyo (Jeff virtual, Wenying travel)
- CGMS-52 Working Group II, 22-26 April 2024, Darmstadt (Jeff, Wenying travel)
- CGMS Plenary, June 4-6: Madison, WI (Jeff travel)
- CEOS SIT Tech. Workshop. September 17-19, Sydney, Australia (Jeff travel)
 - may schedule WGClimate-21 alongside
- CEOS Plenary, Oct. 22-24, Montreal (Jeff travel)
- COP-29, Nov. 11-24, Azerbaijan (TBD)

CEOS SEC-318 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:

- The Preflight Calibration Workshop Website is live. URL: <https://atpi.eventsair.com/pre-flight-calibration-workshop/>. SEC assistance is requested to help promote the workshop.
- Publication on AGU EOS: Citation: Niro, F., M. Cosh, and J. Nickeson (2024), Trustworthy Satellite Earth Observations for Science and Society, Eos, 105, <https://doi.org/10.1029/2024EO240055>. Published on 8 February 2024. The idea was to share LPVE23 (Land Product Validation Evolution) outcomes and CEOS-WGCV-LPV activities with the wider public. The article was written in collaboration with the LPV chair and secretariat: M. Cosh and J. Nickeson: Enhancing confidence in satellite observations of terrestrial properties like land surface temperature and soil moisture requires advances in validation and data quality assessment practices.

Additional points (for written reference only):

- The last WGCV telecon took place on 7 February 2024. The primary objective was to review the draft WGCV-53 agenda and gather additional input. There was an update on the progress of the Fiducial Reference Measurement (FRM) Framework. The pilot assessments to test the applicability of the framework are underway, and the results are expected to be presented at WGCV-53.
- WGCV is consolidating inputs for CEOS Work Plan 2024-2026.
- Preparation for WGCV-53 is proceeding well, with 30 registrations for in-person attendance and 11 for virtual participation received thus far. Participating agencies include AIR-CAS, ASI, CONAE, CSIRO, DLR, EC, Geoscience Australia, ISRO, JAXA, MYSA, NASA, NRSCC and UKSA. WGCV-53 will focus on supporting the CEOS Chair's priority on Biodiversity, following up on the recommendations of the New Space Task Team white paper, presenting subgroup reports, nominating candidates for the WGCV Vice-chair position, reviewing pilot assessments of the FRM assessment framework, providing updates on the progress of the SITSat Task Team, and advancing the development of radiometry and Ground Control Points (GCP) match-up databases.
- Monthly meetings are being held to prepare the [Workshop on Pre-flight Calibration and Characterisation of Optical Satellite Instruments for Earth Observation](#) (ESA-ESTEC; November 2024). A kick-off meeting of the Scientific Committee is planned for 22 February 2024. The registration form link is available [here](#). SEC assistance is requested to spread the word about the event.
- The last SITSat Task Team ([details](#)) meeting took place on 8 February 2024 under the leadership of Nigel Fox and Yolanda Shea. The Task Team decided to establish a dedicated

SITSat web page under the CEOS Cal/Val Portal. A prototype of this webpage is planned to be ready by the SIT-TW 2024 event, demonstrating the team's commitment to enhancing collaboration and information dissemination within the community.

Upcoming meetings and events (for written reference only):

- The WGCV-53 meeting will be held in Córdoba, Argentina from 5-8 March 2024. Registration form link [here](#).
- 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-318 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):

- Email was sent on February 2 to CEOS group leads soliciting nominations for support of an Interoperability Handbook development team.
- The most recent WGISS telecon was held on February 6. The primary objective was to review the draft WGISS-57 agenda and gather additional input. Also discussed were inputs for the 2024-2026 CEOS Work Plan. Recent WGISS interest group meetings include Data Access Interest Group (Feb. 13), Interoperability (Feb. 14), and Technology Exploration (upcoming Feb. 22). WGISS members have also recently participated in LSI-VC and CEOS-ARD telecons with a focus on SpatioTemporal Asset Catalogs (STAC) collaboration.
- Preparation for WGISS-57 (March 4-7, Sydney AU) is proceeding well, with 24 registrations for in-person attendance and 11 for virtual participation received thus far. Participating agencies include JAXA, ISRO, NOAA, NASA, GA, CONAE, CSIRO, ESA, USGS, DLR, CNES, and VNSC. WGISS-57 sessions will focus on supporting the CEOS Chair Team priority on Biodiversity, review Interoperability demonstrator projects, presenting subgroup reports, strategic planning including coordination with other CEOS organizations including SEO, LSI-VC, and WGCapD.

Upcoming meetings and events (for written reference only):

- WGISS-57 will be held 4-7 March 2024 in Sydney, Australia. [Meeting information](#) is available on the WGISS website along with the [Registration link](#).
- WGISS-58 is planned for 15-18 October 2024 in Sioux Falls, South Dakota, USA.

CEOS SEC-318 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:

- As part of CEOS Communications Strategy implementation, Comms Team would like to create a “Faces of CEOS” video compilation of CEOS Principals answering several questions addressing past CEOS impact/value and future vision. Request would be CEOS Principals work with their own communications teams to produce a production quality video that can be compiled into final version.
- [CEOS Analytics Lab](#) Introduction and Overview webinar is being planned for March timeframe. WG and VC leadership are invited to express interest; attendance will be open to entire CEOS community.
- SEO is planning a training event during SatSummit conference with Radiant Earth Foundation, focused on cloud native geospatial topics to include CEOS ARD OG and OGC/ISO ARD Standards Working Group (SWG) progress. Please contact Dave Borges if any CEOS members plan to attend SatSummit or wish to contribute to the planning process. Call for speakers [submission](#) deadline is 1 March.

Additional points (for written reference only):

- SDG Coordination Group (CG) maintains monthly coordination meetings in 2024, holding first meeting on 25 January with JAXA SIT Chair and Steven Ramage, CEO, in attendance. CG is finalizing 2024-2026 Work Plan language regarding Sustainable Development Priority, 2024 Deliverables, and Pacific region engagement (GEO PIAG, SPC, Digital Earth Pacific). CG also attending regular UN-GGIM Working Group on Geospatial Information (WGGI) meetings and contributing to WGGI white paper, “Rescuing the SDGs”. Dave Borges to present on behalf of CEOS SDG CG during UN Statistical Commission (UNSC) 55 meeting on this topic.

Upcoming meetings and events (for written reference only):

- UNSC 55 “Rescuing the SDGs with Geospatial Information” Side Event, Virtual, 19 February
- SatSummit 2024, Washington D.C., 15-17 May
- SEO will host CEOS Exhibition Booth, IGARSS 2024, Athens Greece, 8-12 July