



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

**Tokyo, Japan**

**OBJECTIVES & AGENDA  
V1-0**

<https://ceos.my.webex.com/meet/ceoswebex1>

SIT-39 is the first of four SIT and Technical Workshop meetings that will be convened during the JAXA-led SIT Chair term of 2024-2025. With SIT-39, we aim to set the scene for the SIT Chair priorities endorsed by the 2023 CEOS Plenary and to build CEOS community support for the activities and targets of the two-year term. In addition, the SIT Chair team will work across CEOS to advance existing and evolving CEOS business. The JAXA SIT Chair term will have a strong focus on:

- **Climate policy impact of satellite Earth Observation data** and the role of CEOS and its agencies in maximising that impact;
- **Greenhouse Gas (GHG) observations** and their coordination, reflecting the increasing importance of satellite measurements in this domain.

Substantive sessions will be organised for each topic, and we strongly encourage in-person representation by the relevant CEOS Agency experts that CEOS relies on to drive the dialogue and decisions in each case. The SIT-39 main sessions and objectives are as follows.

**Climate Policy Impact Session**

- **Take stock of the Earth observation community's interface and impact on the climate policy process** – notably the United Nations Framework Convention on Climate Change (UNFCCC) and Global Stocktake (GST). This includes a report from the Institute for Global Environmental Strategies (IGES) on the first GST in 2023 (GST1).
- **Debate the way forward, new approaches, and new opportunities** – including improved coordination across Earth observation frameworks, between CEOS and the World Meteorological Organization (WMO), between research and operational agencies, and more.
- **Consider specific strategies aimed at the GST2 timeframe (2028)** to provide focus and mobilisation of community efforts. Agree on whether the [CEOS GST Strategy \(2021\)](#) actions need to be updated accordingly.
- **Hear plans for in-country demonstrators** to support the uptake of satellite Earth observation datasets for national inventories and reporting.

**Greenhouse Gas Observation 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 updates to the CEOS GHG Roadmap.
- **Agree on changes needed to the [CEOS GHG Roadmap \(2020\)](#)** in 2024 and the associated 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 (2028).
- **Review and discuss 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), while also acknowledging the national policy dimension

**Agriculture, Forestry, and Other Land Uses (AFOLU) Session**

- Update on the development of the **Actions Supplement for the [CEOS AFOLU Roadmap \(2023\)](#)**.
- Consider lessons to be learned from **the biomass harmonisation project underway** and the broader implications for space agency coordination and provision of global datasets.
- Hear about work on national demonstrators for the uptake of EO satellite

**Existing and Emerging Business Session**

- Discussion and potential decision on the **COAST Virtual Constellation** Full Proposal, Implementation Plan, and Terms of Reference.
- Update on the **CEOS Aquatic Carbon Roadmap**.
- Update on the **biodiversity initiatives occurring** under the direction of the 2024 CEOS Chair, CSA.
- Discuss **GEOGLAM agricultural priority data needs**.
- Provide an opportunity for CEOS Agency **updates on engagement with the commercial EO sector**, as recommended by the CEOS New Space Task Team.
- **Virtual Constellation and Working Group updates and issues**, as required.
- **CEOS relationship with the International Coordination Group for Spaceborne Synthetic Aperture Radar (ICGS-SAR)**.

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

**Week at a Glance**

Tuesday, April 9th	Wednesday, April 10th	Thursday, April 11th
<p><b>Side Meetings</b></p> <p><i>Ecosystem Extent Task Team</i></p> <p><i>CEOS Chair Biodiversity Priority</i></p> <p><i>CEOS Secretariat Meeting #320 (SEC-320, closed)</i></p> <p><i>Greenhouse Gas Coordination Meeting</i></p> <p><i>CEOS Communications Team</i></p> <p><i>Sustainable Development Goal (SDG) Coordination Group</i></p> <p><i>GEOGLAM &amp; Essential Agriculture Variables</i></p> <p><i>SilvaCarbon &amp; GEOGLAM Coordination</i></p> <p><i>ICGS-SAR &amp; CEOS Discussion (Closed)</i></p>	<p><b>SIT-39 Day 1</b></p> <p><b><u>Morning</u></b></p> <p><b>Opening Session</b></p> <p><i>Objectives, Work Plan</i></p> <p><b>AFOLU Session</b></p> <p><i>Harmonisation lessons</i></p> <p><i>National demonstrator activities</i></p> <p><i>AFOLU roadmap actions</i></p> <p><b>Existing/Emerging Business</b></p> <p><i>Biodiversity, COAST VC, CEOS Work Plan, Ecosystem Extent, GEOGLAM</i></p> <p><b><u>Afternoon</u></b></p> <p><b>Climate Policy Impact</b></p> <p><i>COP/GST update</i></p> <p><i>Future strategies</i></p>	<p><b>SIT-39 Day 2</b></p> <p><b><u>Morning</u></b></p> <p><b>Existing/Emerging Business</b></p> <p><i>Commercial EO, VC &amp; WG issues, WMO update</i></p> <p><b><u>Afternoon</u></b></p> <p><b>GHG Observations</b></p> <p><i>WMO G3W and CEOS continuity issues towards GST2</i></p> <p><i>Measurement standards</i></p> <p><i>CEOS GHG Roadmap</i></p> <p><i>CEOS &amp; IMEO relationship</i></p> <p><b>Existing/Emerging Business</b></p> <p><i>Aquatic Carbon Roadmap</i></p> <p><i>CEOS &amp; ICGS-SAR</i></p>

### SIT-39 Supporting Documents and References (TBC)

Paper	Agenda #	Guidance
CEOS 2024-2026 Work Plan	1.3	For information
AFOLU Roadmap	2.3	For information
CEOS Chair Biodiversity Priority	3.1	For information
COAST Virtual Constellation <ul style="list-style-type: none"> <li><a href="#">Terms of Reference</a></li> <li><a href="#">Implementation Plan</a></li> <li><a href="#">Full Proposal</a></li> </ul>	3.3	For decision
GEOGLAM preliminary proposal for CEOS Agency support for operational agricultural monitoring and food security needs.	3.4	For information
Updated P-VC Terms of Reference	6.1	For decision
CEOS ARD Strategy 2024	6.1	For information
CEOS GHG Roadmap 2024 update to align with changing sector (including G3W)	7.2	For information
UKSA/NPL Activity Report	7.4	For information
ICGS-SAR and CEOS Coordination (TBC)	8.4	For information

### 37<sup>th</sup> CEOS Plenary Actions Due at SIT-39

Action	Agenda #	Status
<b>Plenary Action CEOS-37-01 [Due SIT-39]</b> The CEOS AFOLU Roadmap Team within LSI-VC was tasked with creating an action supplement to track implementation of the CEOS AFOLU Roadmap endorsed by the 2023 CEOS Plenary.	2.3	Action supplement and schedule status to be discussed under item 2.3.
<b>Plenary Action CEOS-37-04 [Due SIT-39]</b> The Precipitation Virtual Constellation (P-VC) Leads were tasked with developing and presenting updated P-VC Terms of Reference for review and potential endorsement at SIT-39.	6.1	P-VC to present the updated Terms of Reference under item 6.1.
<b>Plenary Action CEOS-37-05 [Due SIT-39]</b> All CEOS Working Group Chairs and Virtual Constellation Co-leads were asked to review their key documents featured on <a href="https://ceos.org/observations">ceos.org/observations</a> and provide updates to the SIT Chair Team.	6.1	This is an ongoing task. Updates welcome at any point in time. SIT Chair will continue updating this page as needed.
<b>Plenary Action CEOS-37-06 [Due SIT-39]</b> CEOS Agencies that are interested in contributing a Demonstrator for the Ecosystem Extent mapping activity were asked to coordinate with the CEOS Ecosystem Extent Task Team Leads.	3.2	Progress update to be discussed under item 3.2.
<b>Plenary Action CEOS-37-07 [Due SIT-39]</b> Consistent with the CEOS Virtual Constellations Process Paper (Section 5), the CEOS COAST Ad Hoc Team Co-leads were tasked to develop a Full Proposal for a new COAST Virtual Constellation, including Terms of Reference and an Implementation Plan, in time for consideration and decision at the April 2024 SIT-39 meeting.	3.3	<b>Complete:</b> COAST has submitted the documents. To be further discussed under item 3.3.
<b>Plenary Action CEOS-37-08 [Due SIT-39]</b> Working with the relevant CEOS entities, the CEOS Executive Officer and	6.3	To be discussed under item 6.3

<p><i>the ESA 2022-2023 SIT Chair team will consider the CEOS New Space Task Team's recommendations and suggested deliverables (and the related discussion from the 2023 CEOS Plenary) in the development of the CEOS 2024-2026 Work Plan.</i></p>		
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**Tuesday 9<sup>th</sup> April – Side Meeting Schedule**

Time	Room 1 (40 people)	Room 2 (28 people)	Room 3 (15 people)
09:30 - 10:00	<b>Ecosystem Extent Task Team</b>	<b>Greenhouse Gas Coordination</b>	
10:00 - 10:30	POC: Gary Geller (NASA) <a href="#">Webex line</a>	POC: Stephen Ward (SIT Chair Team) <a href="#">Webex line</a>	<b>ROOM BOOKED</b> POC: Eric Laliberté (CSA)
10:30 - 11:00		- GHG Roadmap	
11:00 - 11:30	<b>Biodiversity - CEOS Organisation Discussion</b>	- Measurement standards	
11:30 - 12:00	POC: Eric Laliberté (CSA)	- CEOS-IMEO	
12:00 - 12:30	<a href="#">Webex line</a>	- WMO engagement	
		- GST2 targets for public space	
		- GHG Portal updates	
12:30 - 13:30	<b>LUNCH (self organised)</b>		
13:30 - 14:00	<b>SEC-320</b> POC: Matt Steventon (CEOS Chair Team) <a href="#">Webex line</a>	<b>Greenhouse Gas Coordination Cont'd</b> POC: Stephen Ward (SIT Chair Team) <a href="#">Webex line</a>	
14:00 - 14:30			
14:30 - 15:00	<b>GEOGLAM</b>		
15:00 - 15:30	<b>(inc SilvaCarbon cooperation)</b>		
15:30 - 16:00	POC: Alyssa Whitcraft (NASA) <a href="#">Webex line</a>		
16:00 - 16:30		<b>FAO-CEOS-GFOI</b>	<b>SDG Coordination Group</b>
16:30 - 17:00		POC: Stephen Ward (SIT Chair Team) <a href="#">Webex line</a>	POC: Flora Kerblat (CSIRO) <a href="#">Webex line</a>

## SIT-39 Day 1

Wednesday 10<sup>th</sup> April

<https://ceos.my.webex.com/meet/ceoswebex1>

<b>Arrival and Welcome Coffee</b> <i>Welcome coffee for in-person participants will be available and the meeting teleconference connection will be open for testing.</i>		<b>09:00 - 09:30</b> <i>Agenda times Tokyo (JST)</i>
<b>Session 1: Welcome and Opening Session</b> <i>Objectives: Scene-setting overview of the SIT Chair term and review of SIT-39 objectives and format. Tour de Table introductions of participants.</i> <p style="text-align: right;"><b>Session Duration: 55 min</b> <b>Session Start: 09:30 JST</b></p>		
1.1	<b>Welcome and Opening Remarks</b> <i>[for information]</i> <i>Takeshi Hirabayashi (JAXA, SIT Chair)</i> <ul style="list-style-type: none"> <li>➤ Overview of SIT Chair Priorities</li> <li>➤ <i>Tour de Table</i> introductions (by CEOS Agency Principals for their delegations)</li> </ul>	20 min
1.2	<b>SIT-39 Objectives &amp; Action Review</b> <i>[for information]</i> <i>Osamu Ochiai (JAXA, SIT Chair Team)</i> <ul style="list-style-type: none"> <li>➤ Review of agenda sessions and headline objectives</li> <li>➤ Review of select actions from the 2023 CEOS Plenary</li> </ul>	20 min
1.3	<b>CEOS 2024-2026 Work Plan</b> <i>[for information]</i> <i>Steven Ramage (CEOS Executive Officer)</i> <ul style="list-style-type: none"> <li>➤ Work Plan status and outstanding issues</li> <li>➤ Actions required</li> </ul>	15 min
<b>Session 2: Agriculture, Forestry and Other Land Use (AFOLU) Activities</b> <i>Objectives: Review actions status of the CEOS AFOLU Roadmap and hear related activities.</i> <b>Session Discussion Points:</b> <ol style="list-style-type: none"> <li>1. Consider lessons to be learned from the biomass harmonisation project underway and broader implications for space agency coordination and provision of global datasets.</li> <li>2. CEOS engagement in national demonstrator activities.</li> <li>3. Feedback on CEOS AFOLU Roadmap actions and directing any course corrections needed.</li> </ol> <p style="text-align: right;"><b>Session Duration: 1 hour 45 min</b> <b>Session Start: 10:25 JST</b></p>		
2.1	<b>Biomass Harmonisation Project and Lessons for Space Agencies</b> <i>[for discussion]</i> <i>Julie Robinson (NASA) Introduction, Laura Duncanson (UMD/NASA)</i> <ul style="list-style-type: none"> <li>➤ NASA Biomass Harmonisation Project</li> <li>➤ Lessons learned that are applicable for other global-scale products</li> </ul>	40 min

	<p>of CEOS Agencies</p> <ul style="list-style-type: none"> <li>➤ Discussion</li> </ul>	
<b>Group Photo and Break (11:05)</b>		25 min
2.2	<p><b>AFOLU National Demonstrator Activities</b> <i>[for discussion]</i>  <i>Sylvia Wilson (USGS/SilvaCarbon)</i></p> <ul style="list-style-type: none"> <li>➤ Cambodia and other work</li> <li>➤ <u>Discussion:</u> CEOS Agency engagement in national demonstrator activities</li> </ul>	<p>20 min</p> <p>10 min</p> <p>10 min</p>
2.3	<p><b>CEOS AFOLU Roadmap Action Status</b> <i>[for discussion]</i>  <i>Osamu Ochiai (LSI-VC Forests and Biomass Subgroup)</i></p> <ul style="list-style-type: none"> <li>➤ <u>CEOS-37-01:</u> <i>The CEOS AFOLU Roadmap Team within LSI-VC was tasked with creating an Action Supplement to track implementation of the CEOS AFOLU Roadmap endorsed by the 2023 CEOS Plenary.</i></li> <li>➤ Actions Supplement status and schedule</li> <li>➤ Discussion</li> </ul>	20 min
<p><b>Session 3: Existing &amp; Emerging Business</b></p> <p><i>Objectives: Progress existing and emerging business across the CEOS structure.</i></p> <p><b>Session Discussion Points:</b></p> <ol style="list-style-type: none"> <li>1. <i>Initial proposals from the CEOS Chair regarding the future of biodiversity in CEOS – including observables and organisational aspects.</i></li> <li>2. <i>CEOS support to the Ecosystem Extent Task Team Demonstrators.</i></li> <li>3. <i>Preliminary proposal for CEOS Agency support for operational agricultural monitoring and food security needs. Request for additional CEOS Agency support for the LSI-VC GEOGLAM subgroup to develop and implement a CEOS response to agriculture needs. Representation of the LSI-VC GEOGLAM subgroup.</i></li> </ol> <p><b>Session Discussion and Decision Points:</b></p> <ol style="list-style-type: none"> <li>1. <i>COAST Virtual Constellation – Full Proposal, Implementation Plan, and Terms of Reference.</i></li> </ol> <p style="text-align: right;"><b>Session Duration: 1 hour 20 min</b>  <b>Session Start: 12:10 JST</b></p>		
3.1	<p><b>CEOS Chair Biodiversity Priority</b> <i>[for discussion]</i>  <i>Eric Laliberte (CSA, CEOS Chair)</i></p> <ul style="list-style-type: none"> <li>➤ Findings related to CEOS-internal organisational aspects from consultations with CEOS Agencies, Working Groups, and Virtual Constellations.</li> <li>➤ Engagement with external stakeholders, UN Convention on Biological Diversity (CBD) Secretariat, GEO Biodiversity Observation Network (BON), and plans for a joint workshop (dates TBA): <i>“Trilateral Collaboration between UN CBD, GEO BON &amp; CEOS”.</i></li> <li>➤ Headline outcomes of the April 9 side meeting.</li> <li>➤ <u>Discussion:</u> Reactions of CEOS Principals to initial proposals from the CEOS Chair regarding the future of biodiversity in CEOS – including organisational aspects.</li> </ul>	<p>15 min</p> <p>5 min</p>
3.2	<p><b>Ecosystem Extent Task Team Demonstrators</b> <i>[for discussion]</i>  <i>Gary Geller (NASA/JPL, CEOS Ecosystem Extent Task Team Co-Lead) on behalf of Demonstrator Leads: Jason Duffe (Environment Canada), Shaun</i></p>	15 min

	<p><i>Levick (CSIRO), Sandra Luque (INRAE/CNES)</i></p> <ul style="list-style-type: none"> <li>➤ Progress update</li> <li>➤ <u>Discussion</u>: Additional requests of CEOS Agencies and Principals</li> </ul>	5 min
3.3	<p><b>Taskforce on Nature-related Financial Disclosures (TNFD)</b> <i>[for information]</i>  <i>Cathrine Armour</i></p> <ul style="list-style-type: none"> <li>• TNFD recommendations and Data Initiatives work programme</li> </ul>	10 min
3.4	<p><b>COAST Virtual Constellation</b> <i>[for decision]</i>  <i>Paul DiGiacomo (NOAA, COAST Co-Lead)</i></p> <ul style="list-style-type: none"> <li>➤ Terms of Reference</li> <li>➤ Implementation Plan</li> <li>➤ Full Proposal</li> <li>➤ <u>Discussion</u>: Proposal for a COAST Virtual Constellation – decisions and next steps.</li> </ul>	20 min  10 min  10 min
3.5	<p><b>GEOGLAM Agricultural Observation Requirements</b> <i>[for discussion]</i>  <i>Alyssa Whitcraft (LSI-VC GEOGLAM Subgroup)</i></p> <ul style="list-style-type: none"> <li>➤ GEOGLAM and Essential Agriculture Variables update</li> <li>➤ Preliminary proposal for CEOS Agency support for operational agricultural monitoring and food security needs.</li> <li>➤ Request: Additional CEOS Agency support for LSI-VC GEOGLAM subgroup to formulate and action a CEOS response to agriculture needs.</li> <li>➤ Discussion</li> </ul>	20 min         10 min
<b>Lunch (13:30 - 14:30)</b>		60 min
<p><b>Session 4: Climate Policy Impact</b></p> <p><b>Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Take stock of the Earth observation community's interface and impact on the climate policy process – notably the United Nations Framework Convention on Climate Change (UNFCCC) and Global Stocktake (GST). This includes a report from the Institute for Global Environmental Strategies (IGES) on the first Global Stocktake (GST1).</li> <li>2. Debate the way forward, new approaches, and new opportunities – including improved coordination across Earth observation frameworks, between CEOS and the World Meteorological Organization (WMO), between research and operational agencies and more.</li> <li>3. Consider specific strategies aimed at the GST2 timeframe (2028) to provide focus and mobilisation of community efforts. Agree on whether the <a href="#">CEOS GST Strategy (2021)</a> actions need to be updated accordingly.</li> </ol> <p><b>Session Discussion Points:</b></p> <ol style="list-style-type: none"> <li>1. Reflection on the effectiveness of our engagement with policy processes – notably with UNFCCC and the GST.</li> <li>2. Possible new approaches and partnerships, including a strategy towards GST2 timeframe (2028).</li> </ol> <p><b>Session Decision Points:</b></p> <ol style="list-style-type: none"> <li>1. The most promising opportunities for the 2024-25 SIT Chair Term in relation to climate policy impact and engagement, and CEOS Agency contributions.</li> </ol> <p style="text-align: right;"><b>Session Duration: 3 hours 15 min</b>  <b>Session Start: 14:30 JST</b></p>		



<b>4.1</b>	<b>Session Introduction</b> <i>[for information]</i> <i>Osamu Ochiai (JAXA, SIT Chair Team)</i> ➤ Objectives and agenda for this session	10 min
<b>4.2</b>	<b>New Approaches and Strategies for the Space-based Earth Observation Community</b> <i>[for discussion]</i> <i>Mark Dowell (European Commission) &amp; Wenying Su (WGClimate)</i> ➤ Challenges and opportunities ➤ GST2 focus ➤ WMO engagement ➤ Discussion	60 min
<b>4.3</b>	<b>Space-based Earth Observation Community's Role in the Policy Process</b> <i>[for discussion]</i> <i>Giacomo Grassi (EC-JRC, remotely from Italy)</i> ➤ TBA ➤ Discussion	20 min
<b>Break (16:00)</b>		20 min
<b>4.4</b>	<b>Space-based Earth Observation Impact on UNFCCC COP/GST Process – Reflections Following COP28/GST1</b> <i>[for discussion]</i> <i>Akibi Tsukui (IGES, remotely from UK)</i> ➤ Report ➤ Assessment and outlook ➤ Discussion	30 min
<b>4.5</b>	<b>WGClimate Perspectives and Updates</b> <i>[for information]</i> <i>Jeff Privette (NOAA, WGClimate Chair)</i> ➤ GCOS Implementation Plan Response ➤ Others	15 min
<b>4.6</b>	<b>Climate Policy Impact Closing Discussion</b> <i>[for discussion]</i> <i>Moderator: Osamu Ochiai (JAXA, SIT Chair Team)</i> ➤ Communities coordination ➤ GST2 ➤ Next steps and actions for the SIT Chair term	40 min
<b>Adjourn</b>		17:45

**18:30: Reception at [International House of Japan](#)**

**Bus transportation will be provided between venues, departing the meeting venue at 18:00.**



SIT-39 Day 2

Thursday 11<sup>th</sup> April

<https://ceos.my.webex.com/meet/ceoswebex1>

<b>Arrival and Welcome Coffee</b> <i>Welcome coffee for in-person participants will be available and the meeting teleconference connection will be open for testing.</i>		<b>09:00 - 09:30</b> <i>Agenda times Tokyo (JST)</i>
<b>Session 5: Day 1 Recap &amp; Brief Discussion, Day 2 Outlook</b> <i>Objectives: Revisit the main outcomes of Day 1 to capture any final thoughts or suggestions.</i> <b>Session Discussion Points:</b> <ol style="list-style-type: none"> <li>Further thoughts or revisiting points arising from the discussions yesterday.</li> </ol> <b>Session Decision Points:</b> <ol style="list-style-type: none"> <li>Capturing or refining any resulting actions.</li> </ol> <p style="text-align: right;"><b>Session Duration: 20 min</b> <b>Session Start: 09:30 JST</b></p>		
5.1	<b>Day 1 Recap</b> <i>[for discussion]</i> <i>Takeshi Hirabayashi (JAXA, SIT Chair)</i> <ul style="list-style-type: none"> <li>&gt; Recap</li> <li>&gt; Comments from CEOS Principals</li> </ul>	15 min
5.2	<b>Day 2 Objectives &amp; Agenda</b> <i>[for information]</i> <i>Osamu Ochiai (JAXA, SIT Chair Team)</i> <ul style="list-style-type: none"> <li>&gt; Agenda sessions and objectives</li> </ul>	5 min
<b>Session 6: Existing &amp; Emerging Business II</b> <i>Objectives: Advance existing and emerging business across the CEOS structure.</i> <b>Session Discussion Points:</b> <ol style="list-style-type: none"> <li>The ESA PolInSAR workshop produced a number of recommendations regarding requirements for multi-mission, multi-frequency Synthetic Aperture Radar (SAR) datasets over supersites, overall increased synergy of SAR satellite systems, and the need for new research sites. These requirements were discussed at LSI-VC-14 (Oct. 2023) and certain relevant outputs will be presented to CEOS Principals for awareness.</li> <li>The drivers behind the precipitation CEOS-ARD Product Family Specification and relevance to other thematic areas.</li> <li>The CEOS-ARD Strategy has been revised to reflect the latest activities and forward development path for the Framework and Specifications.</li> <li>Headlines from the SIT Chair's biannual consultations with Virtual Constellations will be presented to CEOS Principals for awareness.</li> <li>As a follow-on to the CEOS New Space Task Team, the SIT Chair has committed to continuing the dialogue around CEOS interactions with the commercial and 'New Space' sector. This session will provide an opportunity for CEOS Agencies to present their latest engagements, findings, perspectives, etc.</li> </ol> <b>Session Decision Points:</b>		

1. *Potential endorsement of the revised Precipitation Virtual Constellation (P-VC) Terms of Reference.*

**Session Duration: 1 hour 50 min**

**Session Start: 09:50 JST**

<p><b>6.1</b></p>	<p><b>Virtual Constellation/Working Group Issues &amp; Discussions</b> <i>[for decision &amp; information]</i>  <i>Various</i></p> <ul style="list-style-type: none"> <li>➤ Precipitation Virtual Constellation (P-VC) (Chris Kidd, NASA) <ul style="list-style-type: none"> <li>○ Updated P-VC Terms of Reference (<i>For Decision</i>)</li> <li>○ Overview of the first precipitation CEOS-ARD Product Family Specifications and the drivers for its development (<i>For Information</i>)</li> </ul> </li> <li>➤ Land Surface Imaging Virtual Constellation (LSI-VC): ESA PolInSAR recommendations (Steve Labahn, LSI-VC Co-Lead) (<i>For Information</i>)</li> <li>➤ CEOS-ARD Strategy 2024 (Steve Labahn, LSI-VC for Ferran Gascon, ESA, CEOS-ARD Oversight Group Lead) (<i>For Information</i>)</li> <li>➤ Recap of other Virtual Constellation issues (Osamu Ochiai, JAXA, SIT Chair Team) <ul style="list-style-type: none"> <li>○ Ocean Surface Topography (OST-VC) leadership</li> </ul> </li> </ul>	<p>45 min</p> <p>15 min</p> <p>10 min</p> <p>10 min</p> <p>10 min</p>
<p><b>6.2</b></p>	<p><b>WMO Update</b> <i>[for discussion]</i>  <i>Natalia Donoho (WMO)</i></p> <ul style="list-style-type: none"> <li>➤ 15th Session of Consultative Meetings on High-Level Policy on Satellite Matters (CM-15, February 2024) meeting outcomes</li> <li>➤ Commercial sector perspectives</li> <li>➤ Other updates of relevance to CEOS and space agencies</li> </ul>	<p>15 min</p>
<p><b>6.3</b></p>	<p><b>Commercial Sector Issues</b> <i>[for information]</i>  <i>Various</i></p> <ul style="list-style-type: none"> <li>➤ CEOS New Space Task Team recommendations and impact on the CEOS 2024-2026 Work Plan (Marie-Claire Greening, ESA)</li> <li>➤ Recap of the New Space Task Team's work in 2023 (Osamu Ochiai, JAXA SIT Chair Team)</li> <li>➤ Report on Tokyo LSI-VC industry engagement session (Steve Labahn, LSI-VC) (<i>For Information</i>)</li> <li>➤ CEOS Analytics Lab (CAL) commercial data interoperability study (Dave Borges, NASA/SEO)</li> <li>➤ USGS update</li> <li>➤ Other requested Agency updates</li> <li>➤ Discussion</li> </ul>	<p>50 min</p> <p>5 min</p> <p>5 min</p> <p>5 min</p> <p>5 min</p> <p>10 min</p> <p>10 min</p> <p>10 min</p>
<p><b>Break (11:40)</b></p>		<p>20 min</p>

**Session 7: Greenhouse Gas Observations**

**Objectives:**

1. *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 [CEOS Greenhouse Gas \(GHG\) Roadmap \(2020\)](#).*
2. *Agree on changes needed to the CEOS GHG Roadmap in 2024 and the associated actions for its updating.*
3. *Take stock of CEOS Agency changes in GHG observation continuity and the outlook for data supply and product generation through to the GST2 timeframe (2028).*
4. *Review and discuss 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.*

5. Discuss the way forward for the CEOS relationship with the International Methane Emissions Observatory (IMEO), while also acknowledging the national policy dimension.

**Session Discussion Points:**

1. Taking stock of CEOS Agency GHG activities and our collective roadmap
2. Considering opportunities with partners WMO and IMEO.
3. Debating a way forward towards GST2 (2028).

**Session Decision Points:**

1. Actions to update the CEOS GHG Roadmap for the 2024 CEOS Plenary.
2. Actions to further develop the CEOS-IMEO relationship.
3. Actions to ensure consistency across the measurement standards efforts.
4. Way forward on a GST2 target for public space agencies.
5. Actions for CEOS-WMO cooperation on G3W and more.

**Session Duration: 4 hours 45 min**

**Session Start: 12:00 JST**

<b>7.1</b>	<b>Session Introduction</b> <i>[for information]</i> <i>David Crisp (SIT Chair Team) &amp; Hiroshi Suto (JAXA, SIT Chair Team)</i> <ul style="list-style-type: none"> <li>➤ Objectives and agenda</li> </ul>	<i>10 min</i>
<b>7.2</b>	<b>CEOS Greenhouse Gas Roadmap Update</b> <i>[for discussion]</i> <i>Yasjka Meijer (ESA, CEOS Greenhouse Gas Task Team Lead)</i> <ul style="list-style-type: none"> <li>➤ 2024 update to align with changing sector (including G3W) <i>[for decision]</i></li> <li>➤ Discussion</li> </ul>	<i>30 min</i>
<b>7.3</b>	<b>International Methane Emissions Observatory (IMEO) Activities and CEOS Cooperation</b> <i>[for discussion]</i> <i>Cynthia Randles (IMEO)</i> <ul style="list-style-type: none"> <li>➤ Update on IMEO activities</li> <li>➤ Substance for CEOS cooperation</li> <li>➤ Discussion</li> </ul>	<i>30 min</i>
<b>Lunch (13:10 - 14:10)</b>		<i>60 min</i>
<b>7.4</b>	<b>Emission Measurement Best Practices &amp; Standards</b> <i>[for discussion]</i> <i>John Worden (NASA/JPL)</i> <ul style="list-style-type: none"> <li>➤ Best practices activity status and schedule</li> <li>➤ UKSA/NPL activity report</li> <li>➤ <u>Discussion:</u> Harmonising known activities (John Worden moderator) <i>[for decision]</i></li> <li>➤ <a href="#">SAFE CH4Rice (Methane) Project</a> (Shin-ichi Sobue, JAXA)</li> </ul>	<i>45 min</i>  <i>15 min</i> <i>10 min</i>  <i>10 min</i> <i>10 min</i>
<b>7.5</b>	<b>GHG Continuity Coordination and Focus</b> <i>[for discussion]</i> <i>David Crisp (SIT Chair Team) &amp; Hiroshi Suto (JAXA, SIT Chair Team)</i> <ul style="list-style-type: none"> <li>➤ Status and outlook for CEOS Agency missions</li> <li>➤ Expected contributions from commercial missions</li> <li>➤ Strategic goal for the GST2 timeframe</li> <li>➤ Discussion</li> </ul>	<i>30 min</i>
<b>7.6</b>	<b>WMO Global Greenhouse Gas Watch (G3W) and CEOS Cooperation</b> <i>[for discussion]</i> <i>Gianpaolo Balsomo (WMO/G3W, remote from Geneva)</i>	<i>30 min</i>

	<ul style="list-style-type: none"> <li>➤ Update on G3W status and schedule</li> <li>➤ Substance for CEOS cooperation</li> <li>➤ Discussion</li> </ul>	
<b>Break (15:55)</b>		20 min
7.7	<p><b>GHG Observations Closing Discussion</b> <i>[for discussion]</i>  Moderator: David Crisp (SIT Chair Team)</p> <ul style="list-style-type: none"> <li>➤ GST2 goal</li> <li>➤ Important partnerships</li> <li>➤ CEOS GHG Roadmap update</li> <li>➤ Next steps and actions for the SIT term</li> </ul>	30 min
<p><b>Session 8: Other Business and Wrap-Up</b></p> <p><b>Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Address multiple matters of business outstanding.</li> <li>2. Review discussions and next steps from SIT-39.</li> </ol> <p><b>Session Discussion Points:</b></p> <ol style="list-style-type: none"> <li>1. Next steps on the Aquatic Carbon Roadmap.</li> <li>2. CEOS communications efforts, particularly in relation to the 40<sup>th</sup> anniversary of CEOS.</li> <li>3. The relationship between CEOS and the International Coordination Group for Spaceborne Synthetic Aperture Radar (ICGS-SAR).</li> </ol> <p><b>Session Decision Points:</b></p> <ol style="list-style-type: none"> <li>1. Any support requests for the CEOS Aquatic Carbon Roadmap.</li> </ol> <p style="text-align: right;"><b>Session Duration: 1 hour 20 min</b>  <b>Session Start: 16:45 JST</b></p>		
8.1	<p><b>CEOS Aquatic Carbon Roadmap Update</b> <i>[for decision]</i>  Marie-Helene Rio (ESA, OCR-VC Co-Lead)</p> <ul style="list-style-type: none"> <li>➤ Roadmap status and schedule</li> <li>➤ <u>Discussion:</u> Connections and drivers for the Roadmap</li> </ul>	20 min  10 min 10 min
8.2	<p><b>CEOS Sustainable Development Goals (SDG) Coordination Group Update</b> <i>[for information]</i>  Dave Borges (SEO, NASA)</p>	10 min
8.3	<p><b>CEOS Communications Update</b> <i>[for information]</i>  Dave Borges (SEO, NASA)</p> <ul style="list-style-type: none"> <li>➤ CEOS 40<sup>th</sup> anniversary</li> </ul>	10 min
8.4	<p><b>International Coordination Group for Spaceborne Synthetic Aperture Radar (ICGS-SAR) and CEOS Agency Engagement</b> <i>[for discussion]</i> CSA and JAXA (TBA)</p> <ul style="list-style-type: none"> <li>➤ ICGS-SAR overview, objectives and activities</li> <li>➤ <u>Discussion:</u> Possible approach for increased coordination between CEOS and ICGS-SAR</li> </ul>	20 min  10 min 10 min

8.5	<b>NASA's Earth Science to Action Strategy</b> <i>Dr. Sid Boukabara (NASA)</i>	5 min
8.6	<b>SIT-39 Wrap-up</b> <i>[for information]</i> <i>JAXA SIT Chair Team</i> <ul style="list-style-type: none"> <li>➤ Decision and action review</li> <li>➤ Closing remarks</li> </ul>	15 min
<b>Adjourn</b>		18:05