



37th Meeting of the CEOS Strategic Implementation Team (SIT-37) 29th - 31st March 2022 - VIRTUAL ONLY

Meeting Connection Details: contact sit-chair@lists.ceos.org

AGENDA

During the 2022-2023 SIT Chair Term, the ESA SIT Chair Team will focus on global challenges with **strong UN mandates**, **GEO support**, and **high relevance for satellite Earth observations**. We will explore how CEOS can employ **new potential geometries with industry**, **new missions**, and **new data and analysis techniques** for maximum impact and continued relevance in an evolving remote sensing environment.

- **Climate & Carbon** UNFCCC, Paris Agreement and the Global Stocktake
- Sustainable Development Goals 2030 Agenda
- Disaster Risk Reduction Sendai Framework
- **Resilient Cities & Human Settlements** New Urban Agenda 2016, SDG #11 [*Emerging GEO Priority*]



The SIT-37 agenda seeks to foster *CEOS Principal-level discussion, decision making, and resource allocation and coordination* focused on realising defined two-year targets. As <u>outlined at the CEOS</u> <u>Plenary in November 2021</u>, success in supporting these challenges should translate into opportunities to engage new Earth observation users in both these areas and beyond.



SIT-37 will be tightly focused on strategic topics and discussion aimed at identifying resources to advance, elevate, and expedite existing CEOS Work Plan activities which directly support these major thrusts. This approach will be bookended later in the year by the SIT Technical Workshop, which will focus on detailed working-level task coordination in preparation for Plenary. The hope is that this approach will position the CEOS community to engage effectively at a time when lengthy virtual meetings have led to meeting fatigue and time zone challenges for all.

The SIT-37 agenda will seek to address the following:

- CEOS Chair: Discussion around the theme of *Paths to Sustainability: From Strategy to Practical Measures*, with an emphasis on evolution of R&D & demo activities to applications and services, working with GEO to engage stakeholders developing case studies, supporting the GST, AFOLU Roadmap, CEOS Biomass Protocol, and GEO-TREES.
- **Delivery and Key Relationships:** Highlighting the newly endorsed CEOS 2022-2024 Work Plan, discussing priorities emerging from the CEOS-GEO relationship (including Flagships, and Initiatives), and hearing about GEO's emerging *Resilient Cities* priority.
- **Carbon and Climate**: Consideration of the approach CEOS may take to engage with the Global Stocktake Process under the Paris Agreement, including opportunities around Agriculture, Forestry and Other Land Uses (AFOLU), greenhouse gases (GHG), an update on the CEOS Carbon Strategy, and GEO-TREES.
- **Sustainable Development Goals**: Build on discussion at the CEOS-GEO coordination meeting, consider how GEO and CEOS can work together to increase the dialogue with Custodian Agencies and





how CEOS might efficiently engage with the UN system in the same way as it has for Climate and Disasters. Brief review of progress on deliverables for 2022.

- **Disasters**: Detailed discussion of pilots and demonstrators
- **Oceans and Coasts:** Exploring coordination of the ongoing CEOS oceans and coasts-related activities including the Virtual Constellations, COVERAGE, CEOS-COAST, and the *UN Decade of Ocean Science for Sustainable Development*.
- New Space: CEOS engagement for the next decade, agency case studies, practical next steps.
- **Working Team Engagement:** Showcasing achievements, taking advantage of Principal engagement to discuss opportunities and risks, and discussing current and emerging synergies across teams.
- **Technical Workshop 2021:** Providing clarity on the support needed from Principals between SIT-37 and the Technical Workshop.

Meeting at a Glance

Session Timing

The core session timing is as follows. The meeting line will be open 30 minutes before the start of sessions. If you wish to test your IT setup (mic, speakers, screen sharing), please flag the SIT Chair Team by email (sit-chair@lists.ceos.org) or on the meeting chat.

Washington DC	UTC	Rome	Tokyo	Canberra
06:30 - 09:00	10:30 - 13:00	12:30 - 15:00	19:30 - 22:00	21:30 - 00:00

A more complete set of local times can be found <u>here</u>.

Sessions

	Tuesday 29th	Wednesday 30th	Thursday 31st
Typically 2 hour 30 minute sessions from 6:30am US East	Welcome, Opening Remarks and Overview CEOS 2022-2024 Work Plan, CEOS Chair, SEO Climate & Carbon AFOLU, Global Stocktake actions and milestones, GHG Roadmap, UNFCCC SO Synthesis, Climate Case Studies	Sustainable Development Goals Deliverables for 2022 Scope & Intent for CEOS Biodiversity Disasters Pilots, Demonstrators New Space CEOS engagement for the next decade, agency case studies, practical next steps and test cases	Working Teams Topics nominated, ARD Oversight Group, IMEO Oceans and Coasts CEOS coordination Closing Special Plenary, CEOS-GEO Coordination Meeting, Closing Discussion, Actions, Future Meetings





SIT-37 Papers

Paper	#	Guidance
<u>CEOS 2022-2024 Work Plan (deliverables.ceos.org)</u>	1.2	Information
New Space SIT-37 Background Paper v1	Session 4	Information
VC Co-lead Chats January-February 2022 Compendium of Notes	5.1	Information
CEOS ARD Oversight Group Terms of Reference v1.0 (15 March 2022)	5.1	Endorsement
Ocean Carbon From Space Workshop Website	5.2	Information
PM2.5 Monitoring White Paper (DRAFT)	5.3	Information
What can CEOS do to support the U.N. 2030 Agenda and the SDGs? (DRAFT)		
CEOS Expectations for the GEO Secretariat regarding support of the SDGs		
(DRAFT)		





Day 1 - Tuesday 29th March

Session Timing

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Arrival Contact the this arrival p	SIT Chair Team to test your audio and screen sharing before or during period.	10:00 - 10:30 Agenda times UTC	
Session 1:	Session 1: Welcome and Opening Session		
SIT-37 objec	Objectives: Brief reminder of SIT Chair priorities and SIT-37 objectives. Framing of points relevant to SIT-37 objectives from the CEOS 2022-2024 Work Plan and the CEOS-GEO dialogue. CEOS Chair update on their priorities as they relate to SIT-37, and report by the CEOS Systems Engineering Office (SEO).		
	Decision Points: 1. None identified. Session Duration: 40 mins Target Session Start: 10:30 UTC		
1.1	Welcome and Opening Remarks Simonetta Cheli/SIT Chair [presentation] > SIT Chair Priorities > Meeting Objectives	10 mins	
1.2	CEOS 2022-2024 Work Plan - Highlights Marie-Claire Greening/CEO [presentation] ➤ Status and Summary ➤ Links to SIT-37 agenda	5 mins	
1.3	Progress on CEOS Chair Priorities Selma Cherchali/CEOS Chair [presentation] ➤ CNES Priorities Update	15 mins	
1.4	SEO Report Brian Killough/SEO [presentation] ➤ SEO Activities ➤ CEOS Communications	10 mins	
Session 2:	Session 2: Climate and Carbon		





Objectives: Review of the multiplicity of activities across the CEOS structure in relation to our support to the UNFCCC, the Paris Climate Agreement and its Global Stocktake process. This includes opportunities around Agriculture, Forestry and Other Land Uses (AFOLU), greenhouse gases (GHG), and above ground biomass.

Decision Points:

- 1. Next steps on the CEOS inputs to the Systematic Observations synthesis report with UNFCCC SEC.
- 2. AFOLU Roadmap feedback, next steps, and intra-CEOS links
- 3. Latest on the GST Strategy and the resulting action status

Session Duration: 1h40m Target Session Start: 11:10 UTC

2.1	Session Overview & Context SIT Chair Team [combined session presentation]	5 mins
2.2	 WGClimate Report on COP-26 Outcomes & Use Case Studies progress Albrecht von Bargen/WGClimate > COP-26 outcomes > Use Case Studies > GCOS IP process and CEOS > UNOOSA-UKSA Space Climate mapping 	10 mins
2.3	 GHG Roadmap Update Mark Dowell/COM ➤ Update ➤ GHG-AFOLU Workshop and next steps 	10 mins
2.4	 AFOLU Roadmap Update Osamu Ochiai/JAXA, Frank Martin Seifert/ESA, Ben Poulter/NASA / LSI-VC Forest & Biomass > 2021 Recap > 2022 objectives and progress > Support > GEO-TREES: Forest Biomass Reference Network (Klaus Scipal) > Discussion inc. links to other CEOS teams 	15 mins
Break		11:50 UTC 5 mins
2.5	National Inventory User Engagement Sylvia Wilson, Joana Melo / USGS SilvaCarbon	15 mins
2.6	CEOS Strategy for the Global Stocktake Stephen Briggs/SIT Chair Team ➤ Actions update	10 mins
2.7	GST Process & Systematic Observations Synthesis Report Joanna Post/UNFCCC SEC & Frank-Martin Seifert/ESA/LSI-VC Forests and Biomass ➤ Update & Outlook for GST Process	15 mins





	 SO Report - Latest Version and Way Forward Discussion 	
2.8	Summary, outlook & coordination SIT Chair Team ➤ Discussion	15 mins
Adjourn		~12:50 UTC





Day 2 - Wednesday 30th March

Session Timing

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Arrival Contact the S this arrival p	TT Chair Team to test your audio and screen sharing before or during eriod.	10:00 - 10:30 Agenda times UTC
Objectives: Disasters. Dis Biodiversity • Show • Show • Show • Show	e identified. <u>duction</u> .	
		Duration: 1h20m n Start: 10:30 UTC





3.2	 Disasters Hélène de Boissezon/WGDisasters [presentation] ➢ Recognition of RO Demo activity in the UN General Assembly declaration on Space 2030 Agenda ➢ Plans for wildfire pilot 	20 mins
3.3	 Biodiversity Gary Geller/NASA, Marie-Josée Bourassa/CSA [DRAFT presentation] ➢ Please see this 5 min context video to watch before SIT-37: Next Steps for the Post-2020 Global Biodiversity Framework ➢ Status of biodiversity need assessment ➢ Preliminary results: Role of EO in addressing CBD needs ➢ Plan forward towards Plenary 36 	30 mins
Break		11:50 UTC 5 mins

Session 4: New Space & Future CEOS

Objectives: Reflection on the new geometries in the satellite EO sector, including increasing proportion of commercial missions, and CEOS agency arrangements for commercial data buy and partnerships - hearing agency experiences and examples and strategising how public programmes and CEOS must adapt in the decade ahead with this new context. Please refer to <u>the background paper (v1)</u> distributed ahead of SIT for further context and objectives.

Decision Points:

1. Topics for CEOS to explore further in this domain

Session Duration: 1h05 mins Target Session Start: 11:55 UTC

4.1	Scene-setting SIT Chair Team [presentation] ➤ Role of public and private EO and the changing dynamic ➤ Trends of relevance to CEOS agencies and CEOS ➤ Possible responses to explore ➤ Session objectives	15 mins
4.2	 Case studies from CEOS Agencies In response to SIT Chair invitation ahead of SIT-37 [presentation] New geometries with New Space companies Space Segment / Data Segment / Services and Applications CNES: Industry Initiatives and Partnerships (Selma Cherchali, 10 min) [presentation] COM (Mauro Facchini, 10 min) [presentation] NOAA (Steve Volz, 10 min) [presentation] 	30 mins
4.3	 Discussion on CEOS Strategy > Other examples to review > Issues raised and discussion > Candidate measures and directions > Next steps 	15 mins





4.4	Day 2 Closing Remarks SIT Chair	5 mins
Adjourn		~13:00 UTC





Day 3 - Thursday 31st March

Session Timing

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Arrival Contact the S this arrival p	10:00 - 10:30 Agenda times UTC	
Session 5:	Working Teams Business	
Groups, and a	This session will be reserved for business items nominated by Virtual Co ad hoc Teams which require decision, endorsement, and/or SIT and CEOS	
Decision Poi 1. Endo	i nts: orsement of CEOS ARD Oversight Group Terms of Reference.	
<u>Session intro</u>	Session	Duration: 45 mins n Start: 10:30 UTC
5.1	 CEOS ARD Oversight Group - Update & Outlook Ferran Gascon (ARD Oversight Group Lead) & Steve Labahn (LSI-VC Co-Lead) [presentation] > Oversight Group Background > CEOS ARD Oversight Group Terms of Reference v1.0 (15 March 2022) (decision) > CARD4L Updates (Steve Labahn, LSI-VC) > Other CEOS-ARD updates (for info) 	15 min
5.2	Update on Aquatic Carbon Marie-Helene Rio/ESA and Ewa Kwiatkowska/EUMETSAT - OCR-VC [presentation] ➤ VC-20-24: Aquatic Carbon From Space Special Issue ➤ VC-20-25: Aquatic Carbon From Space Workshop ➤ Ocean Carbon From Space Workshop Website	10 min
5.3	AC-VC Issues Ben Veihelmann/AC-VC ➤ <u>PM2.5 Monitoring White Paper (DRAFT) [presentation]</u> ➤ CEOS-IMEO Cooperation (Steve Hamburg)	WP: 5 mins





(Presentation and discussion)

Session 6: Oceans and Coasts

Objectives: Review early discussion towards optimised CEOS coordination on Oceans, following-up from CEOS Plenary. Brief update on CEOS contributions to the UN Decade of Ocean Science for Sustainable Development (2021-2030).

Decision Points:

1. None identified.

Session introduction.

		Duration: 20 mins n Start: 11:15 UTC
6.1	Oceans Coordination TeamIvan Petiteville/SIT Chair Team [presentation]➤ Potential CEOS level actions➤ Next Steps	10 min
6.2	Update on Contributions to the UN Decade Joint: Paul M. DiGiacomo/CEOS-COAST [<u>presentation</u>] and Jorge Vazquez/COVERAGE [<u>presentation</u>]	CEOS-COAST: 5 min COVERAGE: 5 min





Session 7: Closing

Objectives: Provide an opportunity for a Plenary session if required. Review session discussion, items arising, any other business, and actions. Closing remarks and future meetings.

Decision Points:

- 1. As may arise from CEOS Plenary session
- 2. Review of decision points from SIT discussion
- 3. Agreement of actions

Session introduction.

Session Duration: 1h20m Target Session Start: 11:40 UTC

Break		11:35 UTC 5 mins
7.1	 CEOS Plenary Session (Discussion) CNES/CEOS Chair ▷ CEO/DCEO continuity ▷ Future CEOS Chair nominations ▷ Other topics to be coordinated if/as they arise 	15 mins
7.2	Update on CEOS-GEO Coordination Doug Cripe/GEO Secretariat, Ivan Petiteville/SIT Chair Team [presentation] ➤ Key CEOS-GEO Coordination Meeting outcomes (report)	10 mins
7.3	 Closing Discussion SIT Chair Team Moderation ≻ Session summary slide deck [presentation] ≻ Discussion points arising or needing revisiting from earlier in SIT-37 ≻ Any other business 	30 mins
7.4	Review of Draft Decisions and ActionsSIT Chair Team➤ Decisions and Actions draft of [document]	15 mins
7.5	 Closing Remarks SIT Chair ➤ Reflections on the meeting objectives ➤ Coming meetings: SIT Chair - Working Teams, Technical Workshop, CEOS Plenary 	10 mins
Adjourn		13:00 UTC









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	SIT-37 <	SIT-TW 22 Plenary 2022	SIT-38 SIT-TW 23 Plenary 2023	
Thematic Pilots & Demonstrators Pilots	WGDIs 17 ♦ - GEO/LEO/SA Report - Wildfire Pilot - Landslide Pilo		• WEDIS 19 • - GED/LED/SAR Flood Case Studies - Wildfire Pilot integration with GED GWIS	Key Outcomes 1. Flood Best Practices Report and case studies shared with Global Flood Community 2. Increased understanding of ED benefits within global wildlife community 3. Improved definition and implementation of Landslide Demonstrator 4. Engagement of global recovery community
Demonstrators	- Volcano demo - Landslide Dei	ervatory Demo 2022 Report onstrator reports and plan for 2023+ monstrator Implementation Plan & Report onstrator and GeoLab reports	Recovery Observatory Demo 2023 Report Volcano demonstrator reports Landslide Demonstrator combining optical and radar otas - Report Seismic Demonstrator and GeoLab reports	and Integration of EO Into post disaster needs assessments 5. Long-term sustainable vision for EO contribution to volcano monitoring, and higher profile of EO contributions 6. Case studies on practical contributions of EO to landsilde management and response 7. Increased uptake of EO within global seismic community
Support to GEO Initiatives	- GEODARMA SI	n Feasibility Study atus Report vith WG DRR EO Risk Toolkit	- CEOS contribution to GEO GSNL initiative for DRR - GEODARMA Prototyping Report - first projects - CEOS contributions to WB DRR initiatives identified; links to GRAF	B. Way forward for CEOS in GEO GSNL J. Vision for next phases of GEODARMA Vision for joint collaboration between GEO DRR W0 and CEOS WGDIsasters
Support to Crosscutting ef	- CEOS MIM dat	abase - thematic content suggestions e Observatory (SCO) - project identification	- SCO - WGDIsasters project definition	 WGDisasters input to update CEOS MIM Database - solicitation to WG members WGDisasters input to global SCO community to mitigate climate disasters
Climate & Carbon		Support to G	T Chair 2022-2023 Global Challenges O on & Convention	
	SIT-37 ◀	SIT-TW 22 Plenary 2022	SIT-38 ◀ SIT-TW 23 ◀ ▶ Plenary 2023	U -C5d
COP-28 ♦ UNFCCC & COP	- COP-26 follow - ECV Inventor	stri-se	SBSTA-57	Key Outcomes 1. New versions of ECV inventory & gap analysis 2. Promotion and exploitation of ECVI 3. New CDR Use Cases
Global Stock take	updated with emissions; d campaigns - Continued en Synthesis Re - Initiate AFOL	y actions, including: GHG Roadmap Annex terrestrial and oceanic obs for biogenic ocument on focused observational gagement in UNFCCC Process including ports & Technical Assessments U Roadmap for long-term direction on land ations in support of the GST	- Engagement and feedback from national users on GSTI products and guidance - Further development of the CEOS GST Portal and the individual datasets and guidance - National GST Pilot data cube with DE Africa - Updated GHG Roadmap - EO Handbook for the 2023 Global Stock take	 Implementation of CEOS Strategy to Support UNFCCC GST Deepende engagement with national inventory users 2023 EO Handbook for GST1 National GST Data Cube Pilot with DE Africa country CEOS AFOLU Roadmap first version Updated CEOS GST Data Portal
GCOS 4º gcos sr		- Engagement with GCOS in development of the new (Report and 4th Implemen representation of CEOS c	GCOS 4th Status Atation Plan to ensure 4 th GCOS IP	11. CEOS inputs to the updated GCOS Status Report & Implementation Plan
CEOS Projects		- Explore relationship & reqts with - Support uptake and application support for in-situ sites\ - Support new harmonised biomas - Support for the GEO-TREES initia	s dataset from CEOS agencies	 Potential CEOS relationship with the International Methane Emissions Observatory & New Space GHG missions Successful evolution and application of the (CEOS Biomass Protocol (with CEOS Chair) New harmonised biomass dataset Progress on GEO-TREES (with CEOS Chair)

