

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 geometries with industry, new missions, and new data and analysis techniques** for maximum impact and continued relevance in a changing sector.

- **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 **Principal-level discussion, decision making, and resource allocation and coordination** focused on realising defined two year targets. As [outlined at CEOS Plenary 2021](#), 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 escalate, elevate, and expedite existing CEOS Work Plan activities which directly support these major thrusts. This will be bookended later in the year by the SIT Technical Workshop, which will focus on more detailed working-level task coordination in preparation for Plenary. The hope is that this approach will help participants to engage most effectively at a time when lengthy virtual meetings have led to meeting fatigue, time zone challenges, and disengagement.

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 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 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 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

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06:30 - 09:00	10:30 - 13:00	12:30 - 15:00	19:30 - 22:00	21:30 - 00:00

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Sessions

	Tuesday 29th	Wednesday 30th	Thursday 31st
<i>Typically 2 hour 30 minute sessions from 6:30am US East</i>	Welcome, Opening Remarks and Overview 2022-2024 CEOS Work Plan, CEOS-GEO Coordination Meeting, CEOS Chair, SEO Climate & Carbon AFOLU, Global Stocktake actions and milestones, GHG Roadmap, UNFCCC SO Synthesis, Climate Case Studies, IMEO	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 Oceans and Coasts CEOS coordination Closing Special Plenary (if needed), Closing Discussion, Actions, Future Meetings

SIT-37 Papers

Paper	#	Guidance
CEOS Work Plan 2022-2024 (deliverables.ceos.org)	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

Day 1 - Tuesday 29th March

Session Timing

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Arrival Contact the SIT Chair Team to test your audio and screen sharing before or during this arrival period.		10:00 - 10:30 Agenda times UTC
Session 1: Welcome and Opening Session <i>Objectives:</i> Brief reminder of SIT Chair priorities and SIT-37 objectives. Framing of points relevant to SIT-37 objectives from the 2022-2024 CEOS Work Plan and the CEOS-GEO dialogue. CEOS Chair update on their priorities as they relate to SIT-37, and update from CEOS Systems Engineering Office (SEO). <i>Decision Points:</i> 1. None identified.		
		Session Duration: 30 mins Target Session Start: 10:30 UTC
1.1	Welcome and Opening Remarks Simonetta Cheli/SIT Chair <ul style="list-style-type: none"> ➤ SIT Chair Priorities ➤ Meeting Objectives 	10 mins
1.2	2022-2024 CEOS Work Plan - Highlights Marie-Claire Greening/CEO <ul style="list-style-type: none"> ➤ Status and Summary ➤ Links to SIT-37 agenda 	5 mins
1.3	Progress on CEOS Chair Priorities Selma Cherchali/CEOS Chair <ul style="list-style-type: none"> ➤ CNES Priorities Update 	15 mins
1.4	SEO Report Brian Killough/SEO <ul style="list-style-type: none"> ➤ SEO Activities ➤ CEOS Communications 	10 mins
Session 2: Climate and Carbon <i>Objectives:</i> Review of the multiplicity of activities right 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: 1h55m
Target Session Start: 11:00 UTC

2.1	Session Overview & Context <i>SIT Chair Team</i>	<i>5 mins</i>
2.2	WGClimate Report on COP-26 Outcomes & Use Case Studies progress <i>Albrecht von Barga/WGClimate</i> <ul style="list-style-type: none"> ➤ COP-26 outcomes ➤ Use Case Studies ➤ GCOS IP process and CEOS ➤ UNOOSA-UKSA Space Climate mapping 	<i>10 mins</i>
2.3	GHG Roadmap Update <i>Mark Dowell/COM</i> <ul style="list-style-type: none"> ➤ Update ➤ GHG-AFOLU Workshop and next steps 	<i>10 mins</i>
2.4	AFOLU Roadmap Update <i>Osamu Ochiai/JAXA, Frank Martin Seifert/ESA, Ben Poulter/NASA / LSI-VC Forest & Biomass</i> <ul style="list-style-type: none"> ➤ 2021 Recap ➤ 2022 objectives and progress ➤ Support ➤ GEO-TREES: Forest Biomass Reference Network (Klaus Scipal) ➤ Discussion inc. links to other CEOS teams 	<i>15 mins</i>
Break		11:40 UTC <i>5 mins</i>
2.5	National Inventory User Engagement <i>Sylvia Wilson, Joana Melo / USGS SilvaCarbon</i>	<i>15 mins</i>
2.6	CEOS Strategy for the Global Stocktake <i>Stephen Briggs/SIT Chair Team</i> <ul style="list-style-type: none"> ➤ Actions update 	<i>10 mins</i>
2.7	GST Process & Systematic Observations Synthesis Report <i>Jo Post/UNFCCC SEC & Frank-Martin Seifert/ESA/LSI-VC Forests and Biomass</i> <ul style="list-style-type: none"> ➤ Update & outlook for GST Process 	<i>15 mins</i>

	<ul style="list-style-type: none"> ➤ SO Report latest and way forward ➤ Discussion 	
2.8	<p>Summary, outlook & coordination <i>SIT Chair Team</i></p> <ul style="list-style-type: none"> ➤ Discussion 	<i>15 mins</i>
Adjourn		~13:05 UTC

Day 2 - Wednesday 30th March

Session Timing

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Arrival Contact the SIT Chair Team to test your audio and screen sharing before or during this arrival period.		10:00 - 10:30 Agenda times UTC
Session 3: Global Agendas - CEOS priorities <i>Objectives:</i> Review progress and provide input on CEOS support to existing commitments: SDGs and Disasters. Discussion on possible future support for CEOS around the topic of biodiversity. Biodiversity Item 3.3 Objectives: <ul style="list-style-type: none"> • Show why EO is essential for biodiversity monitoring • Show CEOS agencies it is worthwhile for them to do more • Show example needs and gaps that RS can fill and tie to key orgs e.g. CBD Decision Points: <ol style="list-style-type: none"> 1. None identified. <p style="text-align: right;">Session Duration: 1h20m Target Session Start: 10:30 UTC</p>		
3.1	SDGs Brian Killough/SEO, Laurent Durieux/GEO <ul style="list-style-type: none"> ➢ Outcomes from SDG discussion at CEOS-GEO Coordination Meeting ➢ GEO-coordinated regular three-way conversation with custodian agencies ➢ CEOS engagement with top level UN agencies on SDG (analogue to COP/UNFCCC and Sendai engagements) 	30 mins
3.2	Disasters Hélène de Boissezon/WGDisasters <ul style="list-style-type: none"> ➢ 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	30 mins

	<ul style="list-style-type: none"> ➤ 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 	
Break		11:50 UTC 5 mins
<p>Session 4: New Space & Future CEOS</p> <p><i>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 the background paper (v1) distributed ahead of SIT for further context and objectives.</i></p> <p>Decision Points:</p> <ol style="list-style-type: none"> 1. Topics for CEOS to explore further in this domain <p style="text-align: right;">Session Duration: 1h05 mins Target Session Start: 11:55 UTC</p>		
4.1	<p>Scene-setting <i>SIT Chair Team</i></p> <ul style="list-style-type: none"> ➤ 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	<p>Case studies from CEOS Agencies <i>In response to SIT Chair invitation ahead of SIT-37</i></p> <ul style="list-style-type: none"> ➤ <i>New geometries with New Space companies</i> ➤ <i>Space Segment / Data Segment / Services and Applications</i> ➤ <i>CNES: Industry Initiatives and Partnerships (Selma Cherchali, 10 min)</i> ➤ <i>COM (Mauro Facchini, 10 min)</i> ➤ <i>NOAA (Steve Volz, 10 min)</i> 	30 mins
4.3	<p>Discussion on CEOS Strategy</p> <ul style="list-style-type: none"> ➤ Other examples to review ➤ Issues raised and discussion ➤ Candidate measures and directions ➤ Next steps 	15 mins
4.4	<p>Day 2 Closing Remarks <i>SIT Chair</i></p>	5 mins
Adjourn		~13:00 UTC

Day 3 - Thursday 31st March

Session Timing

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Arrival Contact the SIT Chair Team to test your audio and screen sharing before or during this arrival period.		10:00 - 10:30 Agenda times UTC
Session 5: Working Teams Business <i>Objectives:</i> This session will be reserved for business items nominated by Virtual Constellations, Working Groups, and ad hoc Teams which require decision, endorsement, and/or SIT and CEOS Principal attention. <i>Decision Points:</i> <ol style="list-style-type: none"> Endorsement of CEOS ARD Oversight Group Terms of Reference. <p style="text-align: right;">Session Duration: 45 mins Target Session Start: 10:30 UTC</p>		
5.1	CEOS ARD: Oversight Group Update & General Status Ferran Gascon (ARD Oversight Group Lead) & Steve Labahn (LSI-VC Co-Lead) <ul style="list-style-type: none"> ➤ 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 <ul style="list-style-type: none"> ➤ 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 [presentation] <ul style="list-style-type: none"> ➤ PM2.5 Monitoring White Paper (DRAFT) ➤ CEOS-IMEO Cooperation (Steve Hamburg) (Presentation and discussion) 	WP: 5 mins IMEO: 15 mins

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.

Decision Points:

1. None identified.

Session Duration: 20 mins
Target Session Start: 11:15 UTC

<p>6.1</p>	<p>Oceans Coordination Team <i>Ivan Petiteville/SIT Chair Team</i></p> <ul style="list-style-type: none"> ➤ Potential CEOS level actions ➤ Next Steps 	<p><i>10 min</i></p>
<p>6.2</p>	<p>Update on Contributions to the UN Decade <i>Joint: Paul M. DiGiacomo/CEOS-COAST [presentation] and Vardis Tsontos and Jorge Vazquez/COVERAGE</i></p>	<p><i>CEOS-COAST: 5 min</i> <i>COVERAGE: 5 min</i></p>

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 arising from CEOS Plenary session
2. Review of decision points from SIT discussion
3. Agreement of actions

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

Break		11:35 UTC <i>5 mins</i>
7.1	CEOS Plenary Session (Discussion) <i>CNES/CEOS Chair</i> <ul style="list-style-type: none"> ➤ CEO/DCEO continuity ➤ Future CEOS Chair nominations ➤ Other topics to be coordinated if/as they arise 	<i>15 mins</i>
7.2	CEOS-GEO Coordination Update <i>Doug Cripe/GEO Secretariat, Ivan Petiteville/SIT Chair Team</i> <ul style="list-style-type: none"> ➤ Key CEOS-GEO Coordination Meeting outcomes (report) 	<i>10 mins</i>
7.3	Closing Discussion <i>SIT Chair Team Moderation</i> <ul style="list-style-type: none"> ➤ Session summary slide deck [presentation] ➤ Discussion points arising or needing revisiting from earlier in SIT-37 ➤ Any other business 	<i>30 mins</i>
7.4	Review of Draft Actions <i>SIT Chair Team</i> <ul style="list-style-type: none"> ➤ Decisions and actions document (link TBA) 	<i>15 mins</i>
7.5	Closing Remarks <i>Simonetta Cheli/SIT Chair</i> <ul style="list-style-type: none"> ➤ Reflections on meeting objectives ➤ Coming meetings: SIT Chair - Working Teams, Technical Workshop, CEOS Plenary 	<i>10 mins</i>
Adjourn		13:00 UTC

SIT Chair Prospectus Timelines

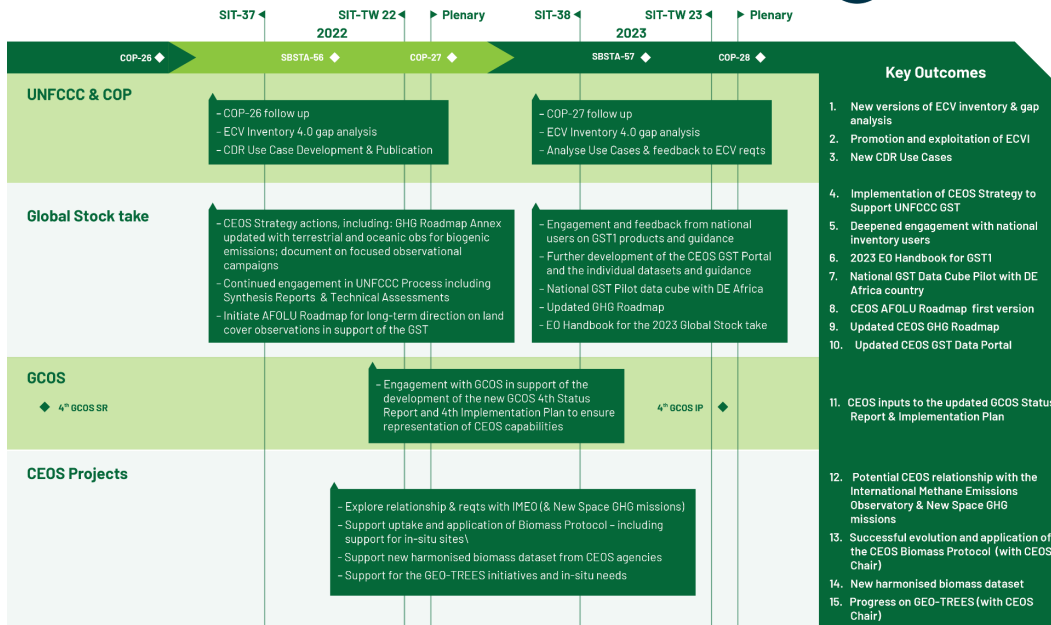
ESA CEOS SIT Chair 2022-2023 Support to Global Challenges Disasters

Disasters



Climate & Carbon

**ESA CEOS SIT Chair 2022-2023
Support to Global Challenges
Climate, Carbon & Convention**



SDGs

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