

**35th Meeting of the CEOS Strategic Implementation Team (SIT-35)
25th-26th March 2020**

VIRTUAL ONLY

ceos.org/meetings/sit-35

OBJECTIVES AND SCOPE

During the 2020-2021 SIT Chair Term, the CSIRO/GA SIT Chair is focussing on the original vision for SIT, aiming to foster ***Principal-level discussion and decision making*** to bring resources to address the significant coordination challenges presented by the harmonisation of observing systems across space agencies. The approach to be taken is one of heightened attention on fewer priorities that reflect the major thrusts across civil EO programmes, priority needs identified during the previous SIT Chair term, recent CEOS Chair priorities, and requests from CEOS partners such as GEO and GCOS. A key goal of SIT-35 will be to secure in-principle support from CEOS Principals for concrete activities to be scoped in the lead up to the SIT Tech Workshop, to be debated and refined in detail during the SIT TW, and then presented to all Principals at the Plenary.

SIT-35 will focus 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. SIT-35 will also trial a new type of session - ‘Pitches’ - which seek to inspire new contributions by providing an opportunity to briefly present potential new activities that CEOS should be aware of, or may be able to make a significant contribution to. SIT-35 will also include side meetings and a session to address the necessary on-going business of running CEOS. This will be bookended later in the year by the ***SIT Technical Workshop, which will focus on more detailed working-level task coordination***. In addition to its function as a forum for CEOS Plenary preparations, it is expected that the Technical Workshop will provide opportunities for deeper dives into aspects of the CEOS Work Plan and priority tasks that would benefit most from face-to-face discussion.

During 2019 as SIT Vice Chair the team has listened across all CEOS meetings, as well as in multi-lateral and bi-lateral discussions with Principals, Agencies, and Working Team members to formulate priorities. These were presented at the 2019 Technical Workshop and 2019 CEOS Plenary, including during dedicated side meetings. The outcomes of this process can be found in the Plenary Presentation, with a summary of the priority areas below: [CSIRO/GA SIT Chair 2020-2021 Prospectus](#).

Meeting at a Glance

	Wednesday 25th	Thursday 26th
First Session (00:00 - 02:00 Hours Elapsed)	Introduction; CEOS-COASTS; SDGs; SEO Report	ARD; CEOS-GEO Coordination; Working Team Engagement
Break (02:00 - 02:20 Hours Elapsed)	20 mins	
Second Session (02:20 - 04:00 Hours Elapsed)	Climate, Carbon and Biomass; External Request Process	Work Plan; Chair Business; Closing

The SIT-35 **Virtual-Only** agenda includes the following:

- **CEOS-COAST Study Team:** Progress report, including on forward work plan for the Study Team.
- **CEOS Work Plan 'Deep Dive':** Ensuring Principals have visibility of the breadth and depth of CEOS activities; Opportunity for 'deep dives' in to key updates/requests/issues for specific Work Plan items that require Principal attention.
- **Working Team Status Review:** A Review of Working Team issues not addressed by other topics and sessions.
- **GEO Flagships/Initiatives and CEOS-GEO Coordination:** Update from GEO Secretariat, CEOS support to GEO Flagships/Initiatives (GEOGLAM, GFOI, GEO-LDN), debrief from the CEOS-GEO bilateral, and consideration of additional support Working Teams may be able to offer to GEO.
- **CEOS Chair Priorities:** Hear from CEOS Chair on the status of their priorities, GTOS status, and priorities and plans for Plenary.
- **Technical Workshop 2020:** Brief update on plans and format, discussion of Principal support for key topics.

In addition, sessions will be held on the three SIT Chair priorities identified at 2019 CEOS Plenary.

Carbon and Biomass Explore more integrated and proactive engagement among space agencies, the convention community, and the national inventories community, with a view to enhanced and accelerated policy relevance of CEOS agency data. The SIT-35 discussion will invite CEOS Principals to:

- ensure development of prototype GHG products are on track for the first global stocktake process in 2023;
- consider creation of a CEOS Roadmap on AFOLU observations, to complement the existing GHG Roadmap;
- discuss engagement of the end users from relevant communities through dedicated events in 2020 (e.g. TW, JRC Workshop); and
- discuss how to realise the benefits of the forthcoming CEOS Biomass Protocol (developed by the WGCV LPV).

Sustainable Development Goals Share Principals views during a '*tour de table*' on existing challenges in relation to data coordination and methodology development support for the SDGs, and discuss how CEOS Agencies can best coordinate in support of the SDG process. Receive a brief report of the SDG AHT on progress against the [Work Plan for the SDGs](#) endorsed at CEOS Plenary, including on the coordination of individual agency contributions to GEO's SDG Toolbox (e.g. best practice, methods, demonstrations, ARD products). The SIT-35 discussion will invite CEOS Principals to:

- acknowledge existing efforts to support GEO (EO4SDG);
- reinforce willingness to coordinate contributions to technical work required on identified 'low hanging fruit' SDGs, either via GEO or a CEOS mechanism; and,
- discuss CEOS support for the SDG AHT in its transition towards the Plenary by either establishing a permanent mechanism, or disbanding the AHT with a clear alternative plan (e.g. agency support via GEO EO4SDG).

Analysis Ready Data SIT-35 is the first major milestone since the endorsement of the [CEOS ARD Strategy](#) at the 2019 CEOS Plenary, and is an important opportunity to maintain momentum, and assess, direct and consider resources that have been proposed by CEOS groups. The SIT-35 discussion will invite CEOS Principals to:

- identify opportunities to harness the CEOS ARD strategy outside of the land domain such as oceans and atmosphere;
- discuss feedback on the first draft/outline of a paper on private industry interactions with CEOS ARD which will serve as the basis for industry consultation and workshops;
- hear initial plans for and discuss the CEOS-Industry Workshop on CEOS ARD – planned for September 2020; and,
- consider support for proposals for CARD4L pilots and the associated trial supply of CARD4L.

SIT-35 Papers

The following papers will be posted on the SIT-35 website prior to the meeting:

- Draft CEOS Work Plan 2020-2022 (latest version for information)
- CEOS COASTS Work Plan (status update)
- External Requests Process Paper (status update)
- Project Plan for the GHG Roadmap (for endorsement TBC)
- CEOS ARD Strategy (for reference)
- ARD Commercial Sector Engagement Paper (draft for discussion)
- SST-VC White Paper (for discussion under CEOS Work Plan Deep Dive)
- CEOS Water Strategy (for discussion under CEOS Work Plan Deep Dive)

SIT-35 Virtual-Only Agenda Outline

Day 1 - Wednesday 25th	Day 2 - Thursday 26th
Welcome and Introductions	CEOS Analysis Ready Data Strategy
CEOS-COAST Study Team	CEOS-GEO Coordination including GEO Flagships and Initiatives
SDGs	Working Team Status Review <i>(VCs, WGs, Ad-hoc Teams)</i>
SEO Report	
Break (20 mins)	Break (20 mins)
Climate, carbon and biomass	CEOS Work Plan and 'Deep Dive'
External Requests Process	Closing Session: CEOS Chair, TW plans; Plenary session; actions

SIT-35 Virtual Only: Agenda Day 1 - Wednesday 25th March

*Note: All times are 'elapsed time', with 00:00 being the start of the meeting on a particular day, 02:00 being two hours into the meeting etc. All participants must be connected **15 minutes before** the start of the agenda.*

Times as follows:

Location	US East	Rome	Delhi	Tokyo	Australia
Times	07:00 – 11:00	12:00 – 16:00	16:30 – 20:30	20:00 – 24:00	22:00 – 02:00

Session 1: Opening; COASTS; SDGs; SEO Report	
00:00 - 00:20 <i>20min</i>	<p>1.1 Welcome and Introductions (A Held, A Lewis, SIT Co-Chairs)</p> <ul style="list-style-type: none"> - SIT Chair perspectives on SIT-35, introduction of priorities, agenda overview - <i>Tour de table</i> introductions
00:20 - 00:55 <i>35min</i>	<p>1.2 CEOS COAST Study Team Update (P DiGiacomo, COAST Study Team)</p> <ul style="list-style-type: none"> - Presentation by COAST Study Team (<i>10min</i>) <ul style="list-style-type: none"> - Potential priorities for pilots - Work Plan: schedule, deliverables, and resources - Principal and Working Team perspectives (<i>25m interventions</i>)
00:55 - 01:45 <i>50min</i>	<p>1.3 Sustainable Development Goals (A Held, SIT Co-Chair)</p> <ul style="list-style-type: none"> - Priority Indicators (A Held, SIT Co-Chair) (<i>15min presentation</i>) <ul style="list-style-type: none"> - Why is CEOS in the SDG business - Rationale for CEOS Action on <u>these specific indicators</u> - Proposed Deliverables: Sample Tools (e.g. Python notebooks), Good Practice Guides with blessing/collaboration/support of UN Custodian, Data Supply Analysis and Strategy - <i>Tour de Table</i> interventions to determine agency contributions (<i>15m</i>) - Update on Broader CEOS SDG Activity and links to GEO (M Paganini, SDG AHT) (<i>10min presentation</i>) <ul style="list-style-type: none"> - <i>Interventions</i> for agency perspectives (<i>10m</i>)
01:45 - 02:00 <i>15min</i>	<p>1.4 SEO Report (B Killough, CEOS SEO)</p> <ul style="list-style-type: none"> - Recent SEO activities
02:00 - 02:20	Break

Session 2: Climate, Carbon and Biomass; External Requests

<p>02:20 - 03:50 <i>1h30min</i></p>	<p>2.1 Climate, Carbon and Biomass (A Held, SIT Co-Chair)</p> <ul style="list-style-type: none"> - Session overview (<i>5 min presentation</i>) - Updates on technical activities (<i>20 min, presentations</i>) <ul style="list-style-type: none"> - GCOS (A Rea, WMO) - GHG Task Team & Roadmap Status Update (M Dowell, EC-JRC) - WGClimate (J Schulz, WGClimate Chair) - CEOS Biomass Protocol (<i>15 min presentation</i>) <ul style="list-style-type: none"> - Briefing & pitch (L Duncanson, Biomass Protocol) - Interventions (<i>15min</i>) - UNFCCC relationship & policy relevance of EO (<i>15 min, presentations</i>) <ul style="list-style-type: none"> - Relationship heritage (J Schulz, WGClimate) - AFOLU Roadmap (O Ochiai, JAXA) - Policy-driven mission planning example (M Dowell, EC) - Interventions (<i>15min</i>) - Wrap-up (<i>5 min</i>) <ul style="list-style-type: none"> - Future CEOS activities on carbon and biomass (SIT Chair Team)
<p>03:50 - 04:00 <i>10min</i></p>	<p>2.2 CEOS External Requests Process Paper (B Killough, CEOS SEO)</p> <ul style="list-style-type: none"> - Presentation (<i>5min</i>) <ul style="list-style-type: none"> - Update on activity - Recommendations on next steps - Interventions (<i>5min</i>)

Close

SIT-35 Virtual Only: Day 2 - Thursday 26th March

*Note: All times are 'elapsed time', with 00:00 being the start of the meeting on a particular day, 02:00 being two hours into the meeting etc. All participants must be connected **15 minutes before** the start of the agenda.*

Times as follows:

Location	US East	Rome	Delhi	Tokyo	Australia
Times	07:00 – 11:00	12:00 – 16:00	16:30 – 20:30	20:00 – 24:00	22:00 – 02:00

Session 3: Analysis Ready Data; CEOS-GEO; Working Team Engagement

00:00 - 00:40
40min

3.1 CEOS Analysis Ready Data (ARD): Beyond Land? Beyond Government? (A Lewis, SIT Co-Chair)

- CARD4L Journey and Lessons Learnt (*4min presentation*)
 - What needs to happen next, including possible pilot projects
- CEOS ARD Strategy: Land, Ocean, Atmosphere (*4min presentation*)
 - Opportunities for ARD in The Deep (and Shallow) Blue Sea (**P di Giacomo**, COAST Study Team; **V Tsontos**, COVERAGE) (*4min presentation*)
- *Tour de Table 1: Principal Perspectives on opportunities for the CEOS ARD agenda beyond land (12min)*
 - What 'ARD-like' activities are already showing results in Oceans and Atmosphere?
 - Where might CEOS ARD for Oceans add value?
 - Where might CEOS ARD for Atmosphere add value?
 - What might possible pilot projects look like?
- CEOS ARD Strategy: Working with the private sector (*4min presentation*)
 - Introduction of paper on Private Industry Interactions
 - Update on planned Industry Workshop at LSI-VC-10
 - Lessons from Landsat Collection 2 and the LandsatNext Architecture Study Team (**S Labahn**, LSI-VC; **J Lacey**, USGS) (*5min presentation*)
- *Tour de Table 2: Principal Perspectives on Engaging the Private Sector in CEOS ARD (10min)*
 - How can CEOS engage data providers for mutual benefit?
 - CEOS ARD collections in the commercial cloud: What are the opportunities and challenges?
 - Looking forward: what might global, sustained, CEOS ARD collections look like?

	<ul style="list-style-type: none"> - Wrap up and Next Steps <ul style="list-style-type: none"> - Planned Discussions at SIT Technical Workshop
00:40 - 01:20 40min	<p>3.2 GEO Flagships/Initiatives and CEOS-GEO Coordination (A Lewis, SIT Co-Chair)</p> <ul style="list-style-type: none"> - GEOSEC Report (D Cripe, GEOSEC) (5min presentation) <ul style="list-style-type: none"> - GEO follow-up on the Canberra Declaration - Debrief from 2020 CEOS-GEO Bilateral (K Sawyer, CEO) (5min presentation) <ul style="list-style-type: none"> - Requests for CEOS - Selected Flagships/Initiatives <ul style="list-style-type: none"> - CEOS Support to GEOGLAM (I Jarvis, LSI-VC GEOGLAM Subgroup) (5min presentation) <ul style="list-style-type: none"> - CEOS Membership on the GEOGLAM Advisory Committee - CEOS Support to GFOI (F-M Seifert, LSI-VC Forest & Biomass Subgroup) (5min presentation) - CEOS Support to GEO-LDN (N Sims, CSIRO TBC) (5min presentation) - Principal and Working Team perspectives (15min interventions) <ul style="list-style-type: none"> - Opportunities to enhance and increase support for highlighted and other GEO Flagships and Initiatives - Wrap-up
01:20 - 02:00 40m	<p>3.3 Working Team Status and Engagement (A Lewis, SIT Co-Chair)</p> <p><i>Context: the CEOS Working Teams are the Virtual Constellations, Working Groups and Ad Hoc Teams. Building on the work of NOAA as 2018-2019 SIT Chair, the CSIRO/GA SIT Chair Team has been exploring new approaches to connecting with the Working Teams to ensure they feel valued and engaged, and that their forward work plans are informed by overarching CEOS strategy.</i></p> <ul style="list-style-type: none"> - SIT Chair Presentation (15m) <ul style="list-style-type: none"> - Approach to engagement with Working Teams - Thematic Observations coordination deliverables - Key outcomes from VC one-on-ones - Outcomes of Working Team All Hands call - Approach to Working Team Day at Technical Workshop 2020 <ul style="list-style-type: none"> - SIT Chair Proposal - Interventions from Working Teams and Principals (25m)
02:00 - 02:20	Break

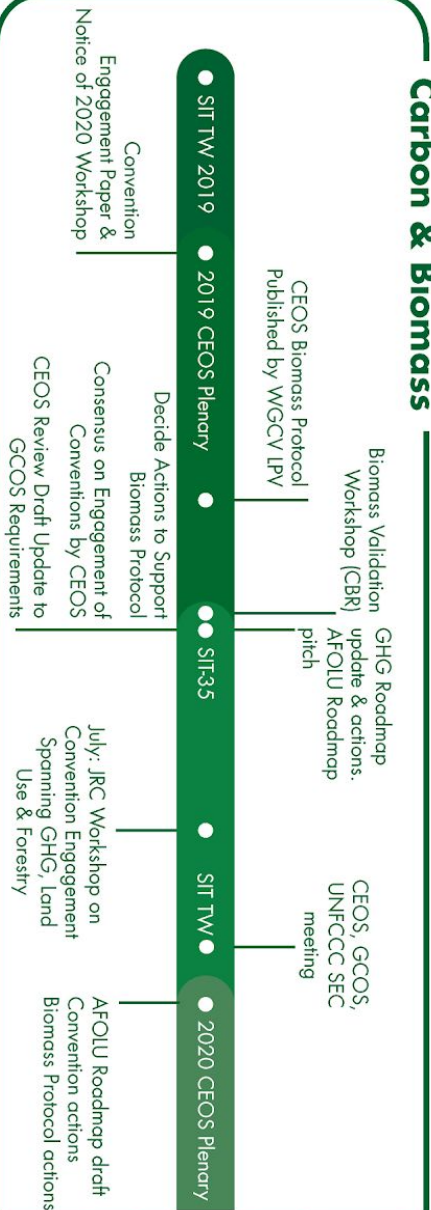
Session 4: Work Plan; Chair Business; Closing

<p>02:20 - 03:10 <i>60m</i></p>	<p>4.1 CEOS Work Plan Deep Dive (K Sawyer, CEO)</p> <ul style="list-style-type: none"> - Review of recently released CEOS Work Plan (highlighting links to GEO and other external stakeholders) <i>(10m presentation)</i> <ul style="list-style-type: none"> - Includes identified updates/requests/issues for specific CEOS Work Plan items requiring Principal attention. - Specific work plan items for discussion: <ul style="list-style-type: none"> - CEOS Water Strategy: Its future in the context of an obsolete GEOSS Water Strategy (D Cripe, GEO Secretariat) <i>(3 minute presentation)</i> <ul style="list-style-type: none"> - <i>Interventions (8 min)</i> - SST-VC White Paper: Delivering on the vision (Ed Armstrong, SST-VC) <i>(4 minute presentation)</i> <ul style="list-style-type: none"> - <i>Interventions (8 min)</i> - CEOS support for disaster risk reduction (D Green, WGDisasters) <i>(4 minute presentation)</i> <ul style="list-style-type: none"> - <i>Interventions (7 min)</i>
<p>03:20 - 03:30 <i>10min</i></p>	<p>4.2 CEOS Plenary Session (CEOS Chair)</p> <ul style="list-style-type: none"> - GTOS Membership (reconsideration of 2019 Plenary action CEOS-33-07) <ul style="list-style-type: none"> - Presentation by Chair <i>(5min)</i> - Interventions <i>(5min)</i>
<p>03:30 - 03:40 <i>10min</i></p>	<p>4.3 CEOS Chair Update (CEOS Chair)</p> <ul style="list-style-type: none"> - Update on Chair Priorities and Plenary - Final Remarks
<p>03:40 - 03:45 <i>5min</i></p>	<p>4.4 Any Other Business (A Held, A Lewis, SIT Co-Chairs)</p> <ul style="list-style-type: none"> - Items as arising
<p>03:45 - 03:55 <i>10min</i></p>	<p>4.5 Recap of Decisions and Actions (A Held, A Lewis, SIT Co-Chairs)</p>
<p>03:55 - 04:00 <i>5min</i></p>	<p>4.6 SIT Chair Closing Remarks (A Held, A Lewis, SIT Co-Chairs)</p> <ul style="list-style-type: none"> - Plans for CEOS SIT Tech Workshop - Adjourn

SIT Chair Prospectus Timelines (Through CEOS Plenary 2020)



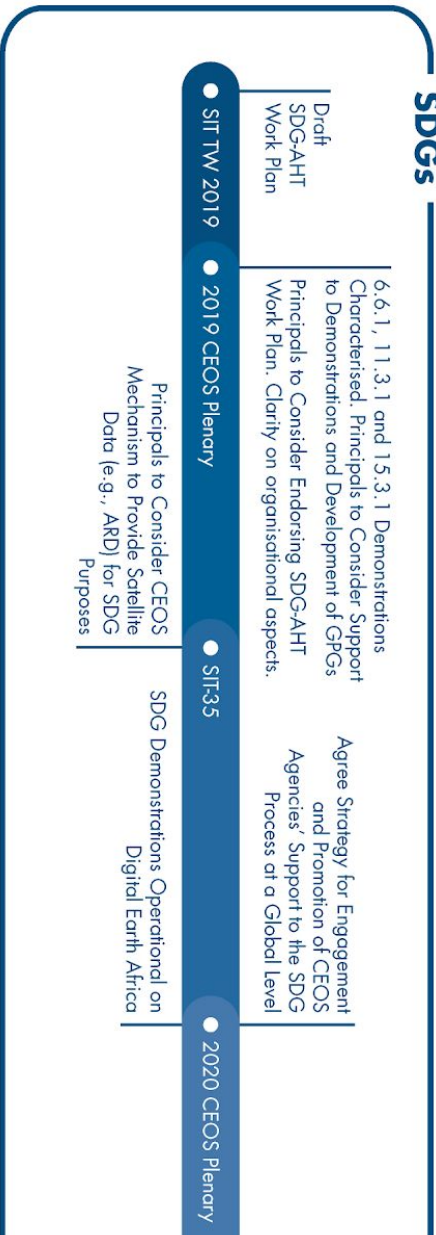
Carbon & Biomass



Key Outcomes

1. Prototype atmospheric CO₂ and CH₄ flux inventory to inform the bottom-up inventories for 2023 Global Stocktake.
2. CEOS input to updated GCOS Requirements (GCOS IP complete late 2022).
3. New relationships with convention and inventories communities. More integrated and proactive engagement of UNFCCC & IPCC for CEOS. Recognition of EO data in Global Stocktake, national practices, etc.
4. New CEOS AFOLU Roadmap, to complement the GHG Roadmap.
5. Accelerated policy relevance of CEOS biomass datasets making best use of the GEOI and GEOGLAM frameworks and through support for CEOS Biomass Protocol

SDGs



Key Outcomes

1. A clear and comprehensive statement of what CEOS will do to support the SDGs over the period 2020-2021 (SDG-AHT Work Plan).
2. Demonstration of CEOS Agencies' ability to support reporting on numerous SDG indicators.
3. Good Practice Guidelines (GPGs) for numerous SDG indicators.
4. A clear CEOS mechanism for coordinated provision of satellite data for SDG purposes.
5. Clarity on the future of highlevel CEOS engagement on the SDGs (e.g., with UN, GEO, NSOs). Clarity on working organisational aspects.
6. A long-term (post-2021) strategy for CEOS support to the SDGs.

