

**2020 CEOS Strategic Implementation Team Technical Workshop (SIT TW 2020)**  
**8<sup>th</sup>-10<sup>th</sup> and 15<sup>th</sup>-17<sup>th</sup> September 2020**

**VIRTUAL ONLY**

<http://ceos.org/meetings/2020-sit-technical-workshop/>

**GoToMeeting Connection:** 715-232-077 (note: more details in protocols document)  
**Meeting protocols:** Download from the workshop website

**OBJECTIVES AND SCOPE**

During SIT-35 the 2020-2021 SIT Chair Team focused 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. This is bookended by the *SIT Technical Workshop, which focuses on more detailed working-level task coordination and preparation for CEOS Plenary*.

Accordingly, a series of sessions have been planned, with key objectives including:

- Supporting progress of the CEOS Chair priorities for 2020 [[SIT-35 update](#)];
- Showcasing the work of the Working Teams and identifying related Plenary issues;
- Supporting new initiatives and activities arising from the Working Teams (e.g., CEOS-COAST);
- Supporting those activities related to CEOS relationships (e.g., GEO and its activities, GCOS, UNFCCC);
- Sharing and understanding progress against the CEOS Work Plan 2020-2022;
- Progression of the three priority areas outlined in the [CSIRO/GA SIT Chair 2020-2021 Prospectus](#): Analysis Ready Data (ARD), Sustainable Development Goals (SDGs), and Carbon and Biomass; and,
- Providing overall assurance that issues are ready to be discussed at CEOS Plenary 2020.

In addition, and in light of recent CEOS Agency announcements and the deployment of the [COVID-19 Earth Observing Dashboard](#), a special session on COVID-19 and Space will be included. While this topic does not map to an existing CEOS activity or Plenary outcome, a brief discussion session is scheduled to establish if further CEOS coordination could be beneficial.

Each of the Workshop sessions outlined below will be open to all, though attendance by all to every session is not expected. Each session will be convened and attended by the SIT Chair, though for some sessions the lead has been delegated. It is expected that the majority of participants will attend the Opening Session, and the Final Review. CEOS Principals considering attendance may gain maximum value from attending these higher-level cross-cutting sessions.

Because this year's Workshop will be held virtually, the formal sessions will be focused on coordination and preparation for the CEOS Plenary. Groups are welcome and encouraged to organise their own side discussions and meetings in preparation for the Workshop to progress their core business.

### Week 1: 8<sup>th</sup>-10<sup>th</sup> September 2020

UTC	Tuesday 8th	Wednesday 9th	UTC	Thursday 10th
1030 - 1125	<b>1.1: <a href="#">Opening TW Session</a></b> Introduction Objectives Agenda and Format Overview	<b>2.1: <a href="#">Sustainable Development Goals</a></b>	1030 - 1040	<b>3.1 <a href="#">Working Teams Session Scene Setter</a></b>
1125 - 1220	<b>1.2: <a href="#">CEOS Chair Session</a></b>		1040 - 1200	<b>3.2: <a href="#">Working Groups Showcase</a></b>
			1200 - 1220	<b>3.3: <a href="#">Virtual Constellations Showcase</a></b>
1220 - 1240	<b>Break</b>			
1240 - 1335	<b>1.3: <a href="#">COVID and EO from Space</a></b>	<b>2.2: <a href="#">Analysis Ready Data: Beyond Land</a></b>	1240 - 1430	<b>3.4: <a href="#">Virtual Constellations Showcase</a> (cont)</b>
1335 - 1430	<b>1.4: <a href="#">CEOS-COAST</a></b>			

### Week 2: 15<sup>th</sup>-17<sup>th</sup> September 2020

UTC	Tuesday 15th	UTC	Wednesday 16th	Thursday 17th
<b>1015-1245</b>	<b>4.1 <a href="#">Carbon and Biomass (External)</a></b> 0615-0845 US East 1215-1445 Europe 2015-2145 Oz East	1030 - 1125	<b>5.1: <a href="#">GEO Session</a></b>	<b>6.1: <a href="#">CEO Continuity</a></b>
		1125 - 1220		<b>6.2: <a href="#">SIT TW 2020 Final Review</a></b> Wrap Ups from Session Leads Discussion Actions to Plenary
	<b>UTC 1245-1300: Break</b>	1220 - 1240	<b>Break</b>	
<b>1300-1430</b>	<b>4.2: <a href="#">Carbon and Biomass (Internal)</a></b> 0900-1030 US East 1500-1630 Europe 2200-2330 Oz East	1240 - 1335	<b>5.2: <a href="#">Analysis Ready Data: CEOS Strategy and Industry Engagement</a></b>	<b>6.2: <a href="#">SIT TW 2020 Final Review</a></b> (Continued) Wrap Ups from Session Leads Discussion Actions to Plenary
		1335 - 1430		

**Session Timing** (note: exception for Tuesday 15th)

US East	UTC	Europe	India	Australia East
0630 - 1030	1030 - 1430	1230 - 1630	1600 - 2000	2030 - 0030

**Session Agendas**

Overview and details for each session including the title, co-leads, outcomes, links to existing actions.

**Tuesday 8th September**

<p><b>Number: Title</b> [duration: UTC time] <i>Session Prep Lead</i> <i>Session Chairs</i></p>	<p><b>1.1: Technical Workshop Opening Session</b> [55 minutes: UTC 1030 - 1125, <a href="#">slides</a>] <i>G. Dyke/SIT Chair Team</i> <i>A. Held/CSIRO/SIT Co-Chair, A. Lewis/GA/SIT Co-Chair</i></p>
<p><b>Plenary outcomes to support:</b></p>	<ul style="list-style-type: none"> <li>- Frames the role and expectations of the Technical Workshop as the key forum for preparation for CEOS Plenary.</li> </ul>
<p><b>Objectives for proposed TW session:</b></p>	<ul style="list-style-type: none"> <li>- Frame the overall discussion</li> <li>- Identify Plenary outcomes targeted</li> <li>- Outline the agenda</li> <li>- Reminder of SIT Chair priorities, progress, activities</li> <li>- Reminder of the CEOS Work Plan status and related workshop outcomes</li> </ul>
<p><b>Agenda:</b></p>	<ol style="list-style-type: none"> <li>1. Opening Presentation (A. Lewis, A. Held) [25 minutes] <ul style="list-style-type: none"> <li>- Welcome and introductions</li> <li>- Technical Workshop and objectives: Mapping to Plenary outcomes</li> <li>- Overview of workshop agenda</li> <li>- SIT Chair priorities: Progress, activities</li> <li>- Reminder of open actions (SIT, Plenary)</li> </ul> </li> <li>2. CEOS Work Plan (K. Sawyer/CEO) [10 minutes] <ul style="list-style-type: none"> <li>- Status and related workshop outcomes</li> <li>- Deliverable tracking tool and process for updates</li> </ul> </li> <li>3. SEO Report (B. Killough/SEO) [10 minutes] <a href="#">slides</a></li> <li>4. Opening Comments/Questions (All) [10 minutes]</li> </ol>

<p><b>Number: Title</b> [duration: UTC time] <i>Session Prep Lead</i> <i>Session Chair</i></p>	<p><b>1.2: CEOS Chair Session</b> [55 minutes: UTC 1125 - 1220] <i>CEOS Chair Team</i> <i>CEOS Chair</i></p>
<p><b>Plenary outcomes to</b></p>	<ul style="list-style-type: none"> <li>- Framing of overall Plenary objectives and agenda</li> </ul>

**FINAL**

<b>support:</b>	<ul style="list-style-type: none"> <li>- DRAFT Plenary objectives here: <a href="https://docs.google.com/document/d/1WkgJHKDnRSU9hmrcOqWdMr_rDVTZLGlekyQWO-othU/edit?usp=sharing">https://docs.google.com/document/d/1WkgJHKDnRSU9hmrcOqWdMr_rDVTZLGlekyQWO-othU/edit?usp=sharing</a></li> <li>- Progressing the 2020 CEOS Chair Initiatives</li> </ul>
<b>Objectives for proposed TW session:</b>	<ul style="list-style-type: none"> <li>- Review the status of the CEOS Chair priority topics for 2020</li> <li>- Update on plans for CEOS Chair 2022</li> <li>- Addressing other Plenary and CEOS Chair topics not addressed in other Workshop sessions</li> </ul>
<b>Agenda:</b>	<ol style="list-style-type: none"> <li>1. Review of CEOS Chair Priority Topics for 2020 <ul style="list-style-type: none"> <li>- Achievements, outputs, impacts, plans for continuity [20 minutes, presenter R. Kumar/CEOS Chair Team]</li> </ul> </li> <li>2. Plenary Agenda and Outcomes [10 minutes]</li> <li>3. CEOS Chair 2022 [10 minutes]</li> <li>4. Discussion and Questions [10-15 minutes]</li> </ol>

<b>Number: Title</b> <b>[duration: UTC time]</b> <i>Session Prep Lead</i> <i>Session Chair</i>	<b>1.3: COVID and Earth Observation from Space</b> <b>[55 minutes: UTC 1240 - 1335]</b> <i>A. Koch/COM, I. Petiteville/ESA, O. Ochiai/JAXA</i> <i>M. Facchini/COM</i>
<b>Plenary outcomes to support:</b>	<i>Currently no related CEOS Plenary outcome. May seed a Plenary discussion.</i>
<b>Objectives for proposed TW session:</b>	<ul style="list-style-type: none"> <li>- Hear from CEOS Agencies with COVID-related activities</li> <li>- See real use-cases on how data has been used for policy / decision-making</li> <li>- Initial views on the current and potential role of the CEOS coordination framework in enabling and supporting response and recovery</li> <li>- Identify any topics that would merit Plenary discussion</li> <li>- Discuss CEOS sponsorship of the IAC COVID-19 session</li> </ul>
<b>Agenda:</b>	<ol style="list-style-type: none"> <li>1. Updates from CEOS Agencies on COVID-related activities [5 minutes each] <ul style="list-style-type: none"> <li>- RACE Dashboard – ESA [I. Petiteville]</li> <li>- NASA-ESA-JAXA Dashboard – [M. Falkowski/NASA, S. Sobue/JAXA]</li> <li>- Copernicus activities – COM [A. Koch]</li> <li>- NOAA activities – NOAA [M. Goldberg]</li> <li>- Initiative EUM/CNES/LATMOS [D. Coppens/EUMETSAT]</li> </ul> </li> <li>2. Questions, discussion, and Plenary way forward [30 minutes]</li> </ol>

<b>Number: Title</b> <b>[duration: UTC time]</b> <i>Session Prep Lead</i> <i>Session Chair</i>	<b>1.4: CEOS-COAST</b> <b>[55 minutes: UTC 1335 - 1430]</b> <i>P. DiGiacomo/NOAA, M-B. Neely/NOAA</i> <i>Paul DiGiacomo/NOAA/COAST Lead</i>
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<b>Plenary outcomes to support:</b>	Decisions on short and mid-term CEOS-COAST pilots and activities; Longer-term strategy.
<b>Objectives for proposed TW session:</b>	<ul style="list-style-type: none"> <li>- Status update on CEOS-COAST pilot activities</li> <li>- Planning and proposals for CEOS-COAST Phase II activities in 2021, and discussion to support Plenary decisions and outcomes (approval for Phase II continuation)</li> <li>- Discuss a Coastal Strategy for CEOS</li> <li>- Discuss options for post-Plenary continuity of the CEOS-COAST activity (incl. potential links with the SDG-AHT).</li> </ul>
<b>Agenda:</b>	<ol style="list-style-type: none"> <li>1. CEOS-COAST Pilots Update [20 minutes, presenter <i>M-B. Neely</i>]</li> <li>2. Post-Plenary Continuity and Longer-Term Strategy [20 minutes, P. DiGiacomo]</li> <li>3. Discussion and Questions [20 minutes]</li> </ol>

### Wednesday 9th September

<b>Number: Title</b> <b>[duration: UTC time]</b> <i>Session Prep Lead</i> <i>Session Chairs</i>	<b>2.1: Sustainable Development Goals <a href="#">[slides]</a></b> <b>[1 hour 50 minutes: UTC 1030 - 1220]</b> <i>F. Kerblat/CSIRO</i> <i>A. Held/CSIRO/SDG AHT Co-lead and M. Paganini/ESA/SDG AHT Co-Lead/6.6.1 Co-Lead</i>
<b>Plenary outcomes to support:</b>	<ul style="list-style-type: none"> <li>- Approval of SDG Data Supply Analysis and Strategy</li> <li>- Discussions and decision on strategic priorities (activities) for CEOS to support SDG process: <ul style="list-style-type: none"> <li>- Supporting GEO in its progress towards SDG (through SEC and across all work plan activities)</li> <li>- Contributing to GEO SDG Toolkits (EO4SDG) by providing CEOS products, access to tools and more</li> </ul> </li> <li>- Decision on the continuity of the SDG AHT (AHT renewed, transformed into a permanent mechanism, or dismantled?)</li> </ul>
<b>Objectives for proposed TW session:</b>	<ul style="list-style-type: none"> <li>- Review of Data Supply Analysis and Strategy document and ensure it's ready for information/endorsement at the Plenary</li> <li>- Update all on each sub-team progress, in particular demonstrating mature SDG Requirements Tables for each of the 4 indicators/teams</li> <li>- Showcase SDG monitoring applications (algorithms development) using CEOS tools (e.g. ODC)</li> <li>- Refine the list of data, guides and tools to be provided to the GEO SDG Toolkits - incl. future activities (main CEOS contribution to GEO on SDG)</li> <li>- Agree on the preferred option for the future SDG outlook to be proposed at the Plenary (SDG AHT co-leads)</li> </ul>
<b>Agenda:</b>	<ol style="list-style-type: none"> <li>1. Welcome and overview of the session [10 minutes, session co-leads] including recall of the <a href="#">Data Supply Analysis and Strategy document</a> for presentation to the Plenary</li> <li>2. Progress reports from each sub-team [5 minutes each]</li> </ol>

	<ol style="list-style-type: none"> <li>a. Water (6.6.1): M. Paganini/ESA, A. Carbonniere/CNES</li> <li>b. Urbanization (11.3.1): A. Kavvada/NASA, N. Mudau/SANSA</li> <li>c. Marine pollution (14.1.1): E. Smail/NOAA/CEOS-COASTS</li> <li>d. Land degradation (15.3.1): N. Sims/CSIRO, U. Heiden/DLR <a href="#">[slides]</a></li> </ol> <ol style="list-style-type: none"> <li>3. Questions &amp; Answers [15 minutes]</li> <li>4. Showcase SDG applications (algorithms development) using ODC technology [10 minutes, B.Killough/SEO and A.Lewis/SIT Co-Chair] <a href="#">[slides]</a></li> <li>5. CEOS contributions to SDG Toolkits [15 minutes, led by SDG AHT co-leads, SEO and A.Kavvada/NASA]             <ol style="list-style-type: none"> <li>a. including GEO needs and requests, and development of a list of proposed data flows available from CEOS (draft in the Data Supply Analysis and Strategy document)</li> </ol> </li> <li>6. Continuity of the SDG AHT [30 minutes, SDG AHT co-leads]             <ol style="list-style-type: none"> <li>a. Discuss 3 options (presented to SDG AHT: see document for info <a href="#">here</a>)</li> <li>b. Agree on the preferred one(s) to be proposed at the Plenary for decision</li> </ol> </li> </ol>
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<p><b>Number: Title</b> [duration: UTC time] <i>Session Prep Lead</i> <i>Session Chairs</i></p>	<p><b>2.2: CEOS Analysis Ready Data: Beyond Land</b> <a href="#">[slides]</a> <b>[1 hour 50 minutes: UTC 1240 - 1430]</b> <i>E. Armstrong/NASA/SST-VC, A. Siqueira/GA, M. Steventon/SIT Chair Team</i> <i>E. Armstrong/NASA/SST-VC and A. Held/CSIRO/SIT Co-Chair (Supported by LSI-VC Leads.)</i></p>
<p><b>Plenary outcomes to support:</b></p>	<p>Advance the discussion around an expansion of the CEOS Analysis Ready Data Definition and effort beyond the land domain and assign leads for each of the domains.</p>
<p><b>Objectives for proposed TW session:</b></p>	<ul style="list-style-type: none"> <li>- Review outcomes from the SST-VC ocean domain ARD survey and what CEOS ARD for SST might look like.</li> <li>- Have an understanding from CEOS-COAST on how CEOS ARD might fit into their work.</li> <li>- Share the work on the USGS Aquatic Reflectance Demonstration Product and related Product Family Specification (C. Barnes/USGS, N. Pahlevan/NASA).</li> <li>- Explore what changes may be needed to the CARD4L Framework to allow it to go 'beyond land', and agree on those steps.</li> <li>- Present and discuss the proposal to have LSI-VC work with other VCs to generalise the CARD4L Definition so that it is applicable to all domains.</li> <li>- Identify options to expand the CEOS ARD for Land Framework to Oceans and Atmosphere. Identify leads from non-land areas (Coasts, Ocean, Atmosphere) to work through CEOS ARD for those areas.</li> </ul>
<p><b>Draft Agenda:</b></p>	<ol style="list-style-type: none"> <li>1. Session introduction, context, welcome [SIT Chair]</li> <li>2. SST-VC perspectives on CEOS ARD and findings from the ocean domain ARD survey [VC-20-22] [E. Armstrong/SST-VC]</li> <li>3. AC-VC possible contributions to CEOS ARD in the Atmosphere domain [D. Loyola and J. Al-Saadi/AC-VC]</li> <li>4. CEOS-COAST &amp; CEOS ARD [P. Di Giacomo/NOAA/CEOS-COASTS]</li> <li>5. Aquatic Reflectance Demonstration Product and Product Family</li> </ol>

	<p>Specification [C. Barnes/USGS, N. Pahlevan/NASA]</p> <p>6. Beyond Land: Options to expand the CEOS ARD for Land Framework to Oceans and Atmosphere [Chair: E. Armstrong/SST-VC]</p> <ol style="list-style-type: none"> <li>a. Testing the Definition</li> <li>b. Additions to the framework (e.g., advisory notes).</li> <li>c. Options to trial the framework for Coastal, Ocean and Atmosphere data products.</li> </ol> <p>7. Reporting out to Plenary / Wrap-up.</p>
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### Thursday 10th September

Please note that with a large number of presentations and discussion to get through in Session 3, we will proceed on a 'ready basis' for this Session to make the most of time savings from earlier presenters. If you aren't online for your slot, we will make all efforts to return to your item when you are able to join. However, this may require some flexibility and agility on the day.

<b>Number: Title</b> <b>[duration: UTC time]</b> <i>Session Prep Lead</i> <i>Session Chair</i>	<b>3.1: Working Teams Session Scene Setter</b> <a href="#">[slides]</a> <b>[10 minutes: UTC 1030-1040]</b> <i>J. Ross/GA/SIT Chair Team Coordinator</i> <i>J. Ross</i>
<b>Plenary outcomes to support:</b>	N/A
<b>Objectives for proposed TW session:</b>	- Provide insight into collaboration and communication across Working Teams and CEOS Leadership.
<b>Format, Session(s):</b>	- Presentation
<b>Agenda:</b>	1. Scene Setter for Working Teams Session [10 minutes, J. Ross]

<b>Number: Title</b> <b>[duration: UTC time]</b> <i>Session Prep Lead</i> <i>Session Chair</i>	<b>3.2: Working Groups Showcase</b> <a href="#">[slides]</a> <b>[1 hour 20 minutes: UTC 1040-1200]</b> <i>K. Sawyer/CEO and CEOS Chair Team</i> <i>R. Kumar/ISRO/CEOS Chair Team</i>
<b>Plenary outcomes to support:</b>	Opportunity for WGs to identify issues and highlights for exposure at Plenary.
<b>Objectives for proposed TW session:</b>	- Hear the latest highlights from the WGs, including in relation to CEOS Work Plan Deliverables - Identify WG-related highlights, and topics and issues for Plenary
<b>Format, Session(s):</b>	- 10min/WG x 5 WGs plus 5min discussion time for each

<b>Agenda:</b>	<ol style="list-style-type: none"> <li>1. Session Introduction [R. Kumar]</li> <li>2. WGCapD [N. Searby/NASA] incl. <a href="#">[slides]</a> <ul style="list-style-type: none"> <li>- CEOS branded webinar plans</li> </ul> </li> <li>3. WGDisasters [D. Green/NASA] incl.           <ul style="list-style-type: none"> <li>- Generic Recovery Observatory Demonstrator Proposal</li> <li>- GEO/LEO/SAR Flood Pilot Proposal</li> <li>- Updated WGDisasters EO DRM Strategy Document</li> </ul> </li> <li>4. WGISS [R. Woodcock/CSIRO] incl.           <ul style="list-style-type: none"> <li>- Earth Analytics Interoperability Lab (with SEO)</li> </ul> </li> <li>5. WGCV [C. Ong/CSIRO] incl.           <ul style="list-style-type: none"> <li>- Uptake of RadCalNet</li> <li>- CARD4L review process</li> </ul> </li> <li>6. WGClimate (J. Schulz/EUMETSAT and W. Su/NASA) incl.           <ul style="list-style-type: none"> <li>- Use cases for Climate Data Records</li> </ul> </li> </ol>
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<b>Number: Title</b> <b>[duration: UTC time]</b> <i>Session Prep Lead</i> <i>Session Chair</i>	<b>3.3: Virtual Constellations Showcase <a href="#">[slides]</a></b> <b>[2 hours 10 minutes: UTC 1200-1220 and UTC 1240-1430]</b> <i>K. Sawyer/CEO and G. Dyke/SIT Chair Team</i> <i>Jonathon Ross/GA/ SIT Chair Team Coordinator</i>
<b>Plenary outcomes to support:</b>	Opportunity for VCs to showcase their work and identify any highlights or issues for the SIT Chair to flag at Plenary.
<b>Objectives for proposed TW session:</b>	<ol style="list-style-type: none"> <li>1. Hear the latest highlights from the VC, including in relation CEOS Work Plan Deliverables</li> <li>2. Identify VC-related Plenary highlights, topics and issues</li> </ol>
<b>Agenda:</b>	<p><b>BEFORE BREAK</b></p> <ol style="list-style-type: none"> <li>1. Welcome [7 min, J.Ross]</li> <li>2. P-VC [9 min presentation + 4 min discussion, C. Kidd/NASA] <a href="#">[slides]</a></li> </ol> <p><b>AFTER BREAK</b></p> <ol style="list-style-type: none"> <li>3. AC-VC [9 min presentation + 4 min discussion, B. Veihelmann/ESA] <a href="#">[slides]</a></li> <li>4. LSI-VC [9 min presentation + 4 min discussion; Presenter: Z. Szantoi/COM-JRC]</li> <li>5. SST-VC [9 min presentation + 4 min discussion, E Armstrong/NASA]</li> <li>6. OST-VC [9 min presentation + 4 min discussion, A. Sylvestre-Baron/CNES]</li> <li>7. OSVW-VC [9 min presentation + 4 min discussion, Presenter R. Kumar/ISRO]</li> <li>8. OCR-VC [9 min presentation + 4 min discussion, M.-H. Rio/ESA]</li> <li>9. Cross cutting activity: COVERAGE [9 min presentation + 4 min discussion, V. Tsontos/COVERAGE Team] <a href="#">[slides]</a></li> <li>10. VC and WG Discussion Time [~20 minutes, all]           <ul style="list-style-type: none"> <li>- Thematic Observing Strategies webpage update</li> </ul> </li> </ol>



Tuesday 15th September

<p><b>Number: Title</b> [duration: UTC time] <i>Session Prep Lead</i> <i>Session Chairs</i></p>	<p><b>4.1 and 4.2: Carbon and Biomass</b> [4 hours: UTC 1015-1245, UTC 1300-1430] <i>S. Ward/SIT Chair Team</i> <i>A. Lewis/GA/SIT Co-Chair (Session 1) and A. Held/CSIRO/SIT Co-Chair (Session 2)</i></p>
<p><b>Plenary outcomes to support:</b></p>	<ul style="list-style-type: none"> <li>- Endorsement of the CEOS Biomass Protocol</li> <li>- Consideration of the implementation measures to support implementation of the CEOS Biomass Protocol</li> <li>- GHG Roadmap</li> <li>- Consideration of the AFOLU Roadmap and debate of actions</li> <li>- Discussion of the opportunity presented by the UNFCCC Global Stocktake and decision on engagement actions</li> <li>- Update on the key GCOS processes and documents and CEOS response</li> </ul>
<p><b>Objectives for proposed TW session:</b></p>	<ul style="list-style-type: none"> <li>- Further engagement of UNFCCC SEC, including more specificity on how CEOS and agencies should engage in all aspects of the GST process</li> <li>- Refreshed input from GCOS and identification of any issues for Plenary - discuss additional efficiencies in requirement setting process</li> <li>- Report on the Biomass Protocol and confirmation of readiness for Plenary endorsement</li> <li>- Review of the implementation measures for support to the Biomass Protocol and discussion on tuning the pitch to Principals</li> <li>- Review of the draft AFOLU Roadmap and determination of pitch at Plenary. Including suggestions from GFOI.</li> <li>- Update on the GHG Roadmap and hearing any issues to raise with Plenary</li> <li>- Discuss synergies between GHG and AFOLU activities and support to Conventions (prep. for a 2021 Workshop)</li> <li>- Update from WGClimate, notably on ECVI 3.0 and SBSTA plans</li> </ul>
<p><b>Format, Session(s):</b></p>	<p>This session has a significant participation external to CEOS. Invitees include: UNFCCC SEC, GCOS, and GFOI. It is proposed to split the time into two sessions, with the first focused on discussions with our guests, and the second more on internal reporting and Plenary planning.</p> <p>Timing will be:  <b>Session 1: 0615-0845 US East</b>  15 mins break  <b>Session 2: 0900-1030 US East</b></p>
<p><b>Agenda:</b></p>	<p><b>Session 1</b></p> <ol style="list-style-type: none"> <li>1. Introduction (SIT Chair Team, 5m)</li> <li>2. Heritage and context (WGClimate, 10m)</li> <li>3. Brief GST Process Update (UNFCCC SEC, 10m)</li> <li>4. Brief GCOS Process Update (GCOS, 10m)</li> <li>5. CEOS AFOLU Roadmap (O. Ochiai/JAXA, 10m)</li> <li>6. GHG Roadmap (M. Dowell/COM, 5m)</li> <li>7. GHG - AFOLU synergies (M. Dowell/COM, 10m)</li> <li>8. Discussion: Climate Data Requirements &amp; Policy processes - optimising the space agency contribution (1h 30m) <ul style="list-style-type: none"> <li>- GST process</li> </ul> </li> </ol>

	<ul style="list-style-type: none"> <li>- GCOS requirements process [moderated by M. Dowell and J. Schulz/WGClimate]</li> </ul> <p><b>Session 2 (Plenary agenda item prep)</b></p> <ul style="list-style-type: none"> <li>9. Biomass Protocol &amp; Implementation (L. Duncanson/NASA, 30 m)</li> <li>10. WGClimate: ECVI 3.0 and Use Case development (J. Schulz, 20m)</li> <li>11. GHG Roadmap (M Dowell, 15m)</li> <li>12. AFOLU Roadmap (O. Ochiai, 20m)</li> <li>13. Wrap up (SIT Chair, 15m)</li> </ul>
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### Wednesday 16th September

<p><b>Number: Title</b> <b>[duration: UTC time]</b> <i>Session Prep Lead</i> <i>Session Chair</i></p>	<p><b>5.1: GEO Session</b> <b>[1 hour 50 minutes: UTC 1030 - 1220]</b> <i>A. Siqueira/GA/SIT Chair Team, D. Cripe/GEOSEC and F. Franziskakis/GEOSEC</i> <i>A. Siqueira/GA/SIT Chair Team and D. Cripe/GEOSEC</i></p>
<p><b>Plenary outcomes to support:</b></p>	<ul style="list-style-type: none"> <li>- Ongoing stewardship of CEOS-GEO relationship</li> <li>- Requests from GEO are well understood and response from CEOS is endorsed at Principal level</li> <li>- Agreed key messages for CEOS to communicate to GEO post Plenary</li> <li>- Principal visibility and buy-in to CEOS's role in the GEO Knowledge Hub Implementation Plan</li> </ul>
<p><b>Objectives for proposed TW session:</b></p>	<ul style="list-style-type: none"> <li>- To have an update on GEO priorities and directions</li> <li>- To understand which areas CEOS contributes to the GEO work programme</li> <li>- To have an overview of emerging requests for support from the CEOS community</li> <li>- To work with GEO to understand and ensure requests to CEOS Plenary are clear and feasible</li> <li>- To identify key messages that CEOS may wish to communicate to GEO</li> <li>- To understand future planned CEOS-GEO actions around global data flows including how GEO can encourage opening up data. In particular the use of in-situ data for training machine-to-machine EO data models.</li> <li>- To understand and discuss GEO Knowledge Hub and the implications for CEOS, in particular, ARD collections in commercial clouds</li> </ul>
<p><b>Agenda:</b></p>	<ol style="list-style-type: none"> <li>1. Session introduction, context, welcome [3 min, A. Siqueira]</li> <li>2. Update on GEO priorities and directions [10 min, G. Camara/GEOSEC and D. Cripe/GEOSEC]</li> <li>3. CEOS contributions to the GEO Work Programme incl. focus topics: <ul style="list-style-type: none"> <li>- CEOS and the GEO Working Groups [12 min] <ul style="list-style-type: none"> <li>- Capacity Development</li> <li>- Disaster Risk Reduction</li> <li>- Climate Change</li> <li>- Data</li> </ul> </li> <li>- CEOS and thematically focussed GEO Work Programme activities [10 min, Kerry Sawyer]</li> <li>- Panelists [20 min]: <ul style="list-style-type: none"> <li>- CEOS support for GEO-DARMA [I. Petiteville/ESA]</li> </ul> </li> </ul> </li> </ol>

	<ul style="list-style-type: none"> <li>- CEOS support for GFOI [O. Ochiai/JAXA]</li> <li>- CEOS support for GEOGLAM [I. Jarvis/GEOGLAM]</li> </ul> <p>4. Emerging requests for support from CEOS [10 minutes, D. Cripe]</p> <ul style="list-style-type: none"> <li>- Analysis Ready Data and commercial cloud providers</li> </ul> <p>5. CEOS-GEO actions around global data flow [15 minutes, G. Camara]. Exploring:</p> <ul style="list-style-type: none"> <li>- How GEO can encourage opening up data, in particular, the use of in-situ data for training machine-to-machine EO data models</li> <li>- Machine-to-machine Open Data Cubes</li> <li>- ARD support for cloud credits/computing environment programmes (e.g. EBV production)</li> </ul> <p>6. GEO Knowledge Hub and its links to CEOS [10 minutes, F. Franziskakis/GEOSEC and P. De Salvo/GEOSEC]</p> <p>7. Discussion [20 min] including</p> <ul style="list-style-type: none"> <li>- Thoughts on a possible CEOS statement to GEO Week 2020</li> </ul>
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<p><b>Number: Title</b> [duration: UTC time] <i>Session Prep Lead</i> <i>Session Chairs</i></p>	<p><b>5.2: CEOS Analysis Ready Data Strategy and Early Progress</b> <a href="#">[slides]</a> <b>[1 hour 50 minutes: UTC 1240 - 1430]</b> <i>A. Siqueira/GA/SIT Chair Team, M. Steventon/SIT Chair Team</i> <i>Z. Szantoi/COM/LSI-VC Co-Lead and A. Lewis/GA/LSI-VC Co-Lead</i></p>
<p><b>Plenary outcomes to support:</b></p>	<ul style="list-style-type: none"> <li>- Report on progress of the CEOS ARD Strategy</li> <li>- Endorsement of the <i>CEOS Analysis Ready Data – Involving the Private Sector</i> paper</li> <li>- Endorsement of CEOS Interoperability Terminology v1.0 (WGISS)</li> <li>- Report on current and planned CEOS ARD pilots</li> </ul>
<p><b>Objectives for proposed TW session:</b></p>	<ul style="list-style-type: none"> <li>- Take stock of the CEOS ARD Strategy and progress, and identify any highlights or challenges to be taken to Plenary (e.g., commitments for agencies to submit datasets and engage in the assessment process).</li> <li>- Review the CEOS Analysis Ready Data – Involving the Private Sector paper prior to submission for endorsement at Plenary.</li> <li>- Review WGISS work on CEOS Interoperability Terminology and discuss issues to be addressed to allow endorsement at Plenary.</li> <li>- Demonstrate results from CEOS ARD (Landsat Collection-2) (provisional) applied for Modified Normalised Difference Water Index (MNDWI).</li> </ul>
<p><b>Agenda:</b></p>	<ol style="list-style-type: none"> <li>1. Session introduction, context, welcome [10 minutes, A.Lewis and Z.Szantoi]</li> <li>2. CEOS ARD Strategy Progress Update [40 minutes, A. Lewis]             <ol style="list-style-type: none"> <li>a. Roadmap</li> <li>b. CEOS ARD framework update (Advisory Notes)</li> </ol> </li> <li>3. Private sector paper engagement: lessons, feedback and next steps [15 minutes, A. Siqueira]</li> <li>4. Interoperability terminology report [15 minutes, R. Woodcock/WGISS Chair]</li> <li>5. Pilot: DE Africa Trial of CEOS ARD (water indices) [15 minutes, A. Lewis]</li> <li>6. Wrap-up (15 min)</li> </ol>

Thursday 17th September

<b>Number: Title</b> <b>[duration: UTC time]</b> <i>Session Prep Lead</i> <i>Session Chair</i>	<b>6.1: CEO Continuity [<a href="#">DRAFT CEO Terms of Reference</a>]</b> <b>[55 minutes: UTC 1030 - 1125]</b> <i>CEOS Chair Team</i> <i>CEOS Chair</i>
<b>Plenary outcomes to support:</b>	Prepare for the CEOS Plenary organisational matters discussion in relation to CEOS Executive Officer (CEO) continuity.
<b>Objectives for proposed TW session:</b>	<ul style="list-style-type: none"> <li>- Confirm plans for CEO continuity going into CEOS Plenary</li> <li>- Socialise any changes to CEOS governing documents under consideration for near-term actions (e.g. <a href="#">CEO Terms of Reference</a>)</li> <li>- Identify actions to be taken between TW and Plenary, including any 'virtual endorsements' that may be necessary</li> <li>- Initial discussion on longer-term changes that may be needed to CEOS Governing Documents, e.g., to support a "Resource Pooling" approach</li> </ul>
<b>Agenda:</b>	<ol style="list-style-type: none"> <li>1. Discussion of <a href="#">proposed changes to the CEO ToR</a> to meet immediate needs [CEOS Chair to facilitate]</li> <li>2. Discussion of longer term options for assuring CEO continuity [CEOS Chair to facilitate]</li> </ol>

<b>Number: Title</b> <b>[duration: UTC time]</b> <i>Session Prep Lead</i> <i>Session Chair</i>	<b>6.2: SIT Technical Workshop 2020 Final Review [<a href="#">slides</a>]</b> <b>[2 hours 45 minutes: UTC 1125 - 1220, UTC 1240 - 1430]</b> <i>G. Dyke/SIT Chair Team</i> <i>A. Held/CSIRO/SIT Co-Chair, A. Lewis/GA/SIT Co-Chair</i>
<b>Plenary outcomes to support:</b>	<ul style="list-style-type: none"> <li>- All Plenary objectives</li> <li>- Update on External Request Process Paper (ERPP) and the New Initiatives Process Paper (NIPP) which will be presented at Plenary for endorsement.</li> </ul>
<b>Objectives for proposed TW session:</b>	<ul style="list-style-type: none"> <li>- Provide a wrap-up for the Technical Workshop pitched to an audience of CEOS Agency Points of Contact preparing their Agencies and Principals for CEOS Plenary.</li> <li>- Finalise any outstanding points that weren't resolved or addressed during the other Workshop sessions.</li> <li>- As necessary, confirm CEOS statements/key messages for COP and GEO in the coming months.</li> <li>- Review actions coming out of the Workshop to Plenary.</li> </ul>
<b>Format, Session(s):</b>	<ul style="list-style-type: none"> <li>- Summary presentations for the Workshop session leads, maximum of 10 minutes presentation and 10 minutes discussion each.</li> <li>- Each presentation is to be linked to the Plenary outcomes the session was intended to support.</li> </ul>
<b>Agenda:</b>	<ol style="list-style-type: none"> <li>1. SIT Chair Remarks (10 minutes, A. Lewis and A. Held)           <ul style="list-style-type: none"> <li>- CEOS Plenary Objectives Reminder</li> </ul> </li> </ol>

	<p><i>Review of Workshop Outcomes by Session Chairs</i> <i>Mirroring CEOS Plenary Objective Ordering</i></p> <ol style="list-style-type: none"> <li>2. 2020 CEOS Chair Initiatives (10+10 minutes, CEOS Chair)</li> <li>3. Carbon and Biomass (10+10 minutes, S. Ward/SIT Chair Team)</li> </ol> <p><u>Four Plenary Outcomes covered:</u></p> <ul style="list-style-type: none"> <li>- <a href="#">GHG Roadmap</a></li> <li>- AFOLU Roadmap</li> <li>- CEOS Biomass Protocol</li> <li>- UNFCCC Global Stocktake</li> </ul> <ol style="list-style-type: none"> <li>4. CEOS-COAST (10+10 minutes, P. DiGiacomo/NOAA)</li> <li>5. CEOS ARD Strategy (10+10 minutes, A. Siqueira/GA/SIT Chair Team)</li> <li>6. Sustainable Development Goals (10+10 minutes, A. Held, M. Paganini SDG AHT)</li> <li>7. Working Teams (10+10 minutes, CEOS Chair Team, A. Held/CSIRO/SIT Co-Chair)</li> <li>8. Pending session outcomes: COVID-19 (A. Koch/COM)</li> <li>9. Other CEOS Business</li> </ol> <ul style="list-style-type: none"> <li>- <a href="#">External Request Process Paper (ERPP)</a> and the <a href="#">New Initiatives Process Paper (NIPP)</a> [5 minutes, B. Killough/SEO] [<a href="#">slides</a>]</li> <li>- AOB [5 minutes]</li> </ul> <ol style="list-style-type: none"> <li>10. Review of Actions to Plenary (10 minutes, SIT Chair Team)</li> </ol> <ul style="list-style-type: none"> <li>- <a href="#">Decisions and Actions</a></li> </ul> <ol style="list-style-type: none"> <li>11. CEOS Plenary Update (15 minutes, CEOS Chair)</li> <li>12. SIT Chair Closing Remarks (15 minutes, A. Lewis and A. Held)</li> </ol>
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## SIT Chair Prospectus Timelines (Through CEOS Plenary 2020)

