

**2019 CEOS Plenary Objectives**  
**October 14<sup>th</sup> – 16<sup>th</sup>, 2019**  
**Hanoi, Vietnam**

**\*\* ATTENDANCE AS PART OF OFFICIAL CEOS AGENCY DELEGATION ONLY \*\***

CEOS Plenary focuses on decisions to be made by Principals to advance and direct the various initiatives underway within the numerous subsidiary groups that are active in support of CEOS objectives. The Plenary agenda is dictated by the priority business underway in these groups and is informed by the outcomes and discussions of the September 2019 CEOS SIT Technical Workshop.

Specific objectives of the 33<sup>rd</sup> CEOS Plenary include:

1. Present the achievements of the **2019 CEOS Chair Initiative**; which integrated a number of ongoing CEOS activities, data, algorithms, and training/capacity building in support of forest and rice crop monitoring for the Mekong Delta region; and detail the next steps and evolution of this sustained platform.
2. Review the various **CEOS climate activities** and provide direction where required. Several topics are anticipated:
  - a. The definition and implementation of an integrated global carbon observing system including a targeted observing system for monitoring the column concentrations of CO<sub>2</sub>, CH<sub>4</sub> and other greenhouse gases from space. The implementation roadmap will be presented for endorsement and staff resource requirements presented for consideration.
  - b. Consideration of the *Convention Engagement Paper* and way forward for a workshop on convention engagement spanning greenhouse gases, land use, and forestry.
  - c. Other CEOS Carbon Strategy actions that have been taken forward by various CEOS groups.
  - d. Consider endorsement of new CEOS Carbon Strategy activities for inclusion in the 2020-2022 CEOS Work Plan.
  - e. Version 3.0 of the ECV Inventory Gap Analysis Report and Coordinated Action Plan, including the preservation, discovery and access of Climate Data Records (CDRs) and Essential Climate Variables (ECVs).
  - f. Consider endorsement of the space agency statement to SBSTA 51.
  - g. Consideration of possible CEOS activities in relation to biomass mission coordination.
3. Consider endorsement of the **"Air Quality Constellation Validation Needs"** document and its recommendations for implementation.
4. Chart the next steps for CEOS Analysis Ready Data through consideration (for endorsement) of the comprehensive **CEOS Analysis Ready Data Strategy** prepared by the SIT Vice Chair Team.
5. Consider endorsement of the GEOGLAM *Ad Hoc* Working Group's response to the updated GEOGLAM observational requirements.
6. Evaluate and provide direction for the **CEOS Virtual Constellations and Working Groups** and their activities, and in particular consider new Working Group Vice-Chairs and refreshed Terms of Reference, where necessary. Topics anticipated include:

- a. Consider endorsement of an updated Terms of Reference for the Working Group on Disasters.
7. Provide guidance on **CEOS support to other key stakeholder initiatives** where required, such as the United Nations Sustainable Development Goals (SDGs) – and the way forward organisationally within CEOS.
8. Consider **CEOS organisational matters** as necessary:
  - a. CEOS Executive Officer contingency plan (if no nominees).
  - b. The proposals for a new Working Group and a merged Virtual Constellation for the ocean domain.
  - c. Way forward for current *Ad Hoc* Teams (GEOGLAM, SDCG, SDG).
  - d. The Virtual Constellation leadership rotation proposal.
  - e. Proposed *Ad Hoc* Team (AHT) initiation cycle.

## Week at a Glance

Monday October 14	Tuesday October 15	Wednesday October 16
Side Meetings (see below)	CEOS Core Business Climate & Carbon Agency & Partner Updates	EO Data Access, Delivery, and Interoperability  Working Groups, Virtual Constellations and <i>Ad Hoc</i> Teams

## Monday, October 14<sup>th</sup> – Side Meeting Schedule

Time	Room		
	West Lake	Da Nang	Pacifica Buffet
8:00 – 9:00			
9:00 – 10:00	CEOS SEC-256		
10:00 – 11:00			
11:00 – 12:00	SIT Chair 2020-21 Prospectus Town Hall		
12:00 – 13:00			Lunch Buffet Open
13:00 – 14:00	2020 CEOS Chair Priorities		
14:00 – 15:00		GEO-LEO-SAR Flood Pilot	
15:00 – 16:00	CEOS European Coordination Meeting		
16:00 – 17:00			

Note: CEOS Agency bilateral meetings are not shown here.

## Agenda

<b>Tuesday, October 15<sup>th</sup></b> Plenary Day 1, Room: Pacific Ballroom			
<b>08:00 — Registration</b>			
<b>Session 1: CEOS Core Business</b>			
<b>1.1</b>	09:00	CEOS Chair Introduction - Welcome and Opening Remarks - <i>Tour de Table</i> - Membership Requests (None)	P. A. Tuan <i>CEOS Chair</i>
<b>1.2</b>	09:15	Vietnam Academy of Science and Technology (VAST) Welcome (TBD)	Presenter is TBD
<b>1.3</b>	09:20	Review of the Status of Actions ( <i>For Information</i> ) - 32 <sup>nd</sup> CEOS Plenary (Oct. 2018) - 2019 SIT Technical Workshop (Sept. 2019) - SIT-34 (Apr. 2019)	S. Hosford <i>CEOS Executive Officer</i>
<b>1.4</b>	09:35	CEOS Three-Year Work Plan (CEOS 2019-2021 WP) ( <i>For Information</i> ) - Schedule and Deadlines for the Annual Update - CEOS Work Plan Progress Report [ <a href="#">Document</a> ]	S. Hosford <i>CEOS Executive Officer</i>
<b>1.5</b>	09:50	Contingency Plan in the Absence of a New CEOS Executive Officer ( <i>For Information</i> )	Incoming CEOS Chair
<b>1.6</b>	10:05	2019 CEOS Chair Initiative ( <i>For Information</i> ) - Achievements - Societal Benefits for the Region - Next Steps and Evolution	P. A. Tuan <i>CEOS Chair</i>
<b>10:20 — Break &amp; Photo</b>			
<b>Session 2: Climate &amp; Carbon</b>			
<b>2.1</b>	10:50	Update: Global Climate Observing System (GCOS) ( <i>For Information</i> ) - 4 <sup>th</sup> Assessment Cycle - Status Report and Implementation Plan Update - CEOS Engagement/Inputs	C. Richter <i>WMO/GCOS</i>
<b>2.2</b>	11:05	CEOS/CGMS Joint Working Group on Climate - Version 3.0 of the ECV Inventory Gap Analysis Report and Coordinated Action Plan	J. Schulz <i>Joint CEOS/CGMS</i>

		<i>(Preparation for Virtual Endorsement After CEOS Plenary)</i> - Space Agency Statement to SBSTA 51 <i>(For Endorsement)</i>	WGClimate
<b>2.3</b>	11:30	CEOS Carbon Strategy - Action Status <i>(For Information)</i> - Proposed New Activities <i>(For Endorsement)</i>	M. Dowell COM
<b>2.4</b>	11:50	Architecture for Monitoring Carbon Dioxide and Methane from Space - WGClimate Greenhouse Gas Roadmap <i>(For Endorsement)</i> - Greenhouse Gas Team Staff Resource Requirements <i>(For Information)</i> - Paper: Improved Synergies on CEOS Engagement with UNFCCC/SBSTA: Support to the Convention on Aspects Relating to Systematic Observations, Greenhouse Gas Monitoring, and Support to Agriculture, Forestry and Other Land Use <i>(For Information)</i>	A. v. Bargaen / D. Crisp / M. Dowell / J. Schulz
<b>2.5</b>	12:15	2019 Refinement of the IPCC Guidelines for GHG Inventories <i>(For Information)</i>	K. Tachi JAXA
<b>2.6</b>	12:30	Update on CEOS Contributions to Forest Carbon Monitoring (GFOI/SDCG) <i>(For Information)</i> - Possible CEOS Activities in Relation to Biomass Mission Coordination - SDCG Continuity	O. Ochiai / S. Ward SDCG
<b>12:45 — Lunch</b> Room: Pacifica Buffet			

Session 3: Agency & Partner Updates			
<b>3.1</b>	13:45	Update: Group on Earth Observations <i>(For Information)</i>	G. Camara GEO Secretariat
<b>3.2</b>	14:00	Continuity of CEOS Representation on the GEO Programme Board and ExCom <i>(For Information)</i>	K. Sawyer SIT Chair Team
<b>3.3</b>	14:10	GEO Programme Board Report <i>(For Information)</i>	K. Sawyer SIT Chair Team
<b>3.4</b>	14:20	GEO ExCom Report <i>(For Information)</i>	A. Held SIT Vice Chair

<b>3.5</b>	14:30	CEOS Statement to the GEO-XVI Plenary ( <i>For Information</i> )	Presenter is TBD
<b>3.6</b>	14:40	Agency and Partner Updates ( <i>5-10 Minutes Each, For Information</i> ) <ul style="list-style-type: none"> <li>- NOAA (C. Wooldridge)</li> <li>- ESA</li> <li>- USGS (S. Labahn/J. Lacey)</li> <li>- EUMETSAT (P. Counet)</li> <li>- Roshydromet (Z. Andreeva) [<a href="#">Presentation</a>]</li> <li>- JAXA (K. Tachi)</li> </ul>	
<b>15:40 — Break</b>			
<b>3.7</b>	16:00	Agency and Partner Updates ( <i>Continued...</i> ) <ul style="list-style-type: none"> <li>- UKSA (B. Archer)</li> <li>- NASA (S. Cauffman)</li> <li>- NIER [<a href="#">Presentation</a>]</li> <li>- KMA [<a href="#">Presentation</a>]</li> <li>- VNSC</li> <li>- GA (T. Dhu)</li> <li>- CNES (S. Cherchali)</li> <li>- Roscosmos (A. Kuklin)</li> <li>- ISRO (PG Diwakar)</li> <li>- WMO (F. Belda)</li> </ul>	
<b>18:00 — Adjournment</b>			

**Wednesday, October 16<sup>th</sup>**

Plenary Day 2, Room: Pacific Ballroom

**Session 4: EO Data Access, Delivery, and Interoperability**

<b>4.1</b>	09:00	Report: WGISS <ul style="list-style-type: none"> <li>- Handover to the New WGISS Chair</li> <li>- WGISS Vice Chair Nomination (<i>For Endorsement</i>)</li> </ul>	M. Albani <i>WGISS Chair</i>
<b>4.2</b>	09:15	Status Report: CEOS Analysis Ready Data for Land (CARD4L) ( <i>For Information</i> )	S. Labahn <i>LSI-VC</i>
<b>4.3</b>	09:30	A Broader CEOS ARD Strategy ( <i>For Endorsement</i> ) [ <a href="#">Document</a> ]	A. Lewis <i>SIT Vice Chair</i>
<b>10:00 — Break</b>			

**Session 5: Working Groups, Virtual Constellations and Ad Hoc Teams**

<b>5.1</b>	10:30	Report: WGCV ( <i>For Information</i> )	C. Ong <i>WGCV Chair</i>
<b>5.2</b>	10:45	Report: WGCapD [ <a href="#">Presentation</a> ] - Handover to the New WGCapD Chair - WGCapD Vice Chair Nomination ( <i>For Endorsement</i> )	P. Chauhan <i>WGCapD Chair</i>
<b>5.3</b>	11:00	Report: WGDisasters - Updated Terms of Reference ( <i>For Endorsement</i> ) [ <a href="#">Document</a> ] - WGDisasters Vice Chair Nomination ( <i>For Endorsement</i> )	S. Zoffoli <i>WGDisasters Chair</i>
<b>5.4</b>	11:15	Report: CEOS Ad Hoc Working Group on GEOGLAM [ <a href="#">Presentation</a> ] - Response to the Updated GEOGLAM Observational Requirements ( <i>For Endorsement</i> ) [ <a href="#">Document</a> ] - Ad Hoc Working Group Continuity ( <i>For Information</i> )	I. Jarvis
<b>5.5</b>	11:30	Report: Sustainable Development Goals (SDG) Ad Hoc Team ( <i>For Information</i> ) [ <a href="#">Presentation</a> ] - SDG-AHT Continuity [ <a href="#">Information Note</a> ] [ <a href="#">Work Plan on SDGs</a> ]	A. Held <i>SDG-AHT Co-Lead</i>
<b>5.6</b>	11:45	AC-VC Air Quality Constellation Validation Needs and Recommendations for Implementation ( <i>For Endorsement</i> ) [ <a href="#">Document</a> ] [ <a href="#">Presentation</a> ]	D. Crisp
<b>12:00 – Lunch</b> Room: Pacifica Buffet			
<b>5.7</b>	13:00	Virtual Constellations - Productivity, Activities, Accomplishments ( <i>For Information</i> ) - Issues, Discussion Points, and Decision Processes ( <i>For Information</i> ) - Leadership Changes ( <i>For Information</i> ) - Approach for Coastal Observations and Applications Study Team (COAST) ( <i>For Decision</i> ) [ <a href="#">Document</a> ] - Leadership Succession Proposal ( <i>For Endorsement</i> ) [ <a href="#">Document</a> ] [ <a href="#">Track-changed Version</a> ] [ <a href="#">Summary Document</a> ]	S. Volz <i>SIT Chair</i>

<b>5.8</b>	13:30	Results of Study Teams Considering a New Working Group and a Merged Virtual Constellation for the Oceans ( <i>For Decision</i> ) - Study Team Findings and Outcomes from SIT Technical Workshop <a href="#">[WGST Document]</a> <a href="#">[OVCMST Document]</a>	S. Volz <i>SIT Chair</i>
<b>5.9</b>	14:00	<i>Ad Hoc</i> Team Initiation Cycle ( <i>For Endorsement</i> ) <a href="#">[Document]</a> <a href="#">[Track-changed Version]</a> <a href="#">[Summary Document]</a>	S. Volz <i>SIT Chair</i>
<b>5.10</b>	14:15	<i>Ad Hoc</i> Team Continuity Decisions ( <i>For Decision</i> ) - SDCG-GFOI - <i>Ad Hoc</i> Working Group on GEOGLAM - SDG <i>Ad Hoc</i> Team	S. Hosford <i>CEOS Executive Officer</i>

### Session 6: Other CEOS Business

<b>6.1</b>	14:30	Report: CEOS Missions, Instruments, and Measurements (MIM) Database ( <i>For Information</i> )	I. Petiteville <i>ESA</i>
<b>6.2</b>	14:45	Report: CEOS Systems Engineering Office (SEO) ( <i>For Information</i> )	B. Killough <i>SEO</i>

### Session 7: Closing Business

<b>7.1</b>	15:00	Overview of CEOS Leadership ( <i>For Information</i> ) - Future CEOS Chairs - CEOS Executive Officer (CEO) - CEOS Deputy Executive Officer (DCEO)	P. A. Tuan <i>CEOS Chair</i>
<b>15:20 — Break</b>			
<b>7.2</b>	15:45	SIT Chair Handover	S. Volz <i>SIT Chair</i>  A. Held <i>SIT Vice Chair</i>
<b>7.3</b>	15:50	CSIRO/GA SIT Chair 2020-2021 Prospectus ( <i>For Information</i> )	A. Held <i>SIT Chair</i>
<b>7.4</b>	16:05	CEOS Chair Handover	<i>2019 &amp; 2020 CEOS Chairs</i>
<b>7.5</b>	16:10	Presentation by the 2020 CEOS Chair, ISRO - 2020 CEOS Chair Priorities & CEOS Agency Contribution Opportunities ( <i>For Information</i> )	<i>2020 CEOS Chair</i>

<b>7.6</b>	16:25	Review: 2019 CEOS Plenary Decisions & Actions	<i>2019 CEOS Chair Team</i>
<b>7.7</b>	16:45	Closing Remarks	<i>2019 CEOS Chair</i>
<b>17:00 — Adjournment</b>			

<b>Meetings Open Only to the CEOS Secretariat and CEOS Troika Members</b>		
Room: Pacific Ballroom		
17:15	257 <sup>th</sup> CEOS Secretariat Meeting (SEC-257)	Led by the 2020 CEOS Chair
17:45	CEOS Troika	Led by the 2020 CEOS Chair
<b>18:15 — Adjournment</b>		

**Thursday, October 17<sup>th</sup>**

**Ha Long Bay Tour – Tentative Schedule**

- 08:30** Pick-up at Pan Pacific Hotel.
- 11:30** Arrive at Tuan Chau, Ha Long tourism harbour.
- 12:00** Start cruise to Ha Long Bay. Lunch will be served during the cruise.
- 13:15** Visit Thien Cung Grotto.
- 16:15** Return to Ha Long tourist wharf and catch the bus back to Hanoi.
- 19:30** Arrive at Pan Pacific Hotel.