



2019 SIT Technical Workshop

September 11-12, 2019

Fairbanks, Alaska

AGENDA v1.1

<http://ceos.org/meetings/2019-sit-technical-workshop/>

Objectives

The annual SIT Technical Workshop is CEOS's opportunity to assess progress in completing our objectives in preparation for the CEOS and GEO Plenaries, and UNFCCC COP and SBSTA Meetings. Outcomes of the SIT Technical Workshop will include recommendations to be taken to the CEOS Plenary for decision. As such, all agenda items for the SIT 2019 Technical Workshop are for *information/discussion*.

The theme of the 2019 SIT Technical Workshop is "CEOS operations in the global community." The 2019 SIT Technical Workshop will focus on **preparations for CEOS Plenary**, particularly **follow-up and continuity of themes initiated at SIT-33 and pursued at the 2018 SIT Technical Workshop, 32nd CEOS Plenary, and SIT-34**. Throughout the past 18 months, we have discussed potential changes in leadership transition for the Virtual Constellations (VCs), enhanced coordination among VCs and between VCs, Working Groups (WGs), and *ad hoc* Teams (AHTs), and a path to maturation for the AHTs. At SIT-34, we spent considerable time discussing these items and the *Concept Paper for Restructuring CEOS Virtual Constellations and Creation of a New Working Group Addendum to Strategic Directions and Partnerships for CEOS Discussion Paper, V1*, both still relevant documents. At the 2019 SIT Technical Workshop, we will present results from the two Study Teams created at SIT-34 in response to discussions from the Concept Paper – Working Group Study Team (WGST) and Ocean Virtual Constellation Merger Study Team (OVCMST) – and review proposals for recommended way forward for presentation at 33rd CEOS Plenary.

The objectives of the 2019 Workshop include:

- Continue **Virtual Constellation (VC)/Working Group (WG)/ad hoc Team (AHT) coordination discussions**, from the VC/WG/AHT Day, July-August Tag-ups, and SIT-34, with a focus on identifying SIT- and Plenary-level actions required to support the optimization of resource allocation and utilization, and on sustaining tangible outputs.
- Discuss **Ocean Virtual Constellation Merger Study Team (OVCMST) and Working Group Study Team (WGST) outcomes** and identify SIT- and Plenary-level actions required.
- Discuss proposed language changes to CEOS Strategic Guidance for **VC leadership rotation and AHT life cycles** as actioned at SIT-34. Additionally, determine which AHTs will request renewal during annual review of their mandates at Plenary.
- Update on the way forward for **CEOS on the coordination of climate observations including on greenhouse gases (GHGs)** (e.g., Greenhouse Gases from Space, joint CEOS-CGMS activities, the ECV Inventory and gap analysis, IPCC Inventories).
- Update on the way forward on **data-related activities** including CEOS and Open DataCube activities, and LSI-VC's work on Analysis Ready Data (ARD), and CARD4L (e.g., potential expansion beyond land).
- An update and discussion around the **CEOS approach to key partnerships**, including CGMS, WMO, and GEO.

The Workshop will take place over two days, Wednesday and Thursday, 11 and 12 September, and will be preceded by a dedicated VC/WG/AHT Day on Monday, 9 September and a side meeting day on Tuesday, 10 September.

Monday 9 th	Tuesday 10 th	Wednesday 11 th	Thursday 12 th
9:00am – 4:30pm Virtual Constellation/ Working Group/ad hoc Team Working Day <i>Invited Participants Only</i>	9:00am – 5:00pm Side Meetings (see below)	9:00am – 5:45pm SIT Technical Workshop Day 1 <i>External User Environment and Partnerships and Collaboration, Study Team Outcomes, Reports from Working Groups</i>	9:00am – 4:40pm SIT Technical Workshop Day 2 <i>Reports from Virtual Constellations, Reports from Ad Hoc Teams, Other CEOS Activities and Work Planning, CEOS Business and Prep for CEOS Plenary</i>

Tuesday, 10 September 2019

Location: Wood Center, University of Alaska, Fairbanks

Registration: 8:30 – 9:00

2019 SIT TW Side Meeting Schedule			TUESDAY 10 September 2019	
Time	Meeting Room C (20)	Meeting Room D (32)	Meeting Room E (32)	Meeting Room F (20)
9:00 AM			SEC-254 Meeting POC: S. Volz <i>Invited Participants</i>	
9:30 AM				
10:00 AM				
10:30 AM		SDG AHT POC: F. Kerblat	GHG Roadmap/Carbon Strategy POC: M. Dowell	
11:00 AM	GEO/LEO/SAR Integration POC: D. Borges			
11:30 AM				
12:00 PM		Incoming CEOS Chair Priorities POC: R. Kumar		
12:30 PM				
1:00 PM		SIT Vice Chair Prospectus Feedback POC: A. Held		
1:30 PM				
2:00 PM				
2:30 PM		SEO/CEOS Data Cube POC: B. Killough <i>Invited Participants</i>		
3:00 PM				
3:30 PM				
4:00 PM				
4:30 PM				
5:00 PM				
5:30 PM				
For more information on any side meeting, please contact listed POC				
C, D, E = Telecom capabilities; F is large table				
Tours: Poker Flat Range (9:00-12:00) and Permafrost Tunnel (2:00-5:00)				

Wednesday, 11 September 2019

Sessions: External User Environment and Partnerships and Collaboration, Study Team Outcomes, Reports from Working Groups

Location: Wood Center, University of Alaska, Fairbanks

Registration: 8:30 – 9:00

Session 1: Welcome and Introduction			
#	Time <i>Duration</i>	Topic	Presenter
1.1	9:00 – 9:05 <i>5 min</i>	Welcome	Steve Volz , SIT Chair (NOAA)
1.2	9:05 – 9:15 <i>10 min</i>	<i>Tour de Table</i> Introductions	All
1.3	9:15 – 9:30 <i>15 min</i>	Welcoming Remarks <ul style="list-style-type: none"> – University of Alaska, Fairbanks – Fairbanks Command and Data Acquisition Station (FCDAS) 	Larry Hinzman , Vice Chancellor for Research (UAF) Robert McCoy , Director, Geophysical Institute (UAF) Larry Ledlow , FCDAS Manager (NOAA)
1.4	9:30 – 9:50 <i>20 min</i>	CEOS SIT Chair Introduction <ul style="list-style-type: none"> – Review of Workshop Objectives and Adoption of Agenda – Continuity of SIT Chair Themes – SIT-34 Outcomes Recap and Action Status – OVC MST and WGST Progress Summary 	Steve Volz , SIT Chair (NOAA)
1.5	9:50 – 10:00 <i>10 min</i>	Review of CEOS Chair Priorities <ul style="list-style-type: none"> – Mekong Initiative – CEOS Plenary Objectives 	Lam Dao Nguyen , CEOS Chair Team (VNSC)
1.6	10:00 – 10:30 <i>30 min</i>	VC/WG/AHT Working Day Outcomes <ul style="list-style-type: none"> – Main Outcomes – Items for Consideration – Possible Plenary Decisions 	VC/WG Day Nominee(s)
1.7	10:30 – 10:45 <i>15 min</i>	Work Planning <ul style="list-style-type: none"> – CEOS 2019-2021 Work Plan Status – Linkages to GEO Work Programme 	Steven Hosford , CEO (ESA/CNES)

Group Photo and Coffee Break: 10:45 – 11:05, 20 minutes

Session 2: External User Environment

Discussion Points – Highlight important partnerships and collaborations and identify what external user community expects of CEOS. How do technical components of CEOS look to these user aggregators to influence CEOS work? Scope community to determine “customers” and partners with emphasis on how we work collaboratively and what we have accomplished and need to accomplish.

#	Time Duration	Topic	Presenter
2.1	11:05 – 11:15 10 min	Session Introduction	Steve Volz , SIT Chair (NOAA)
2.2	11:15 – 11:30 15 min	Global Climate Observing System (GCOS) <ul style="list-style-type: none"> – Essential Climate Variables (ECVs) – Climate Change Convention Engagement – 2019 IPCC Guidelines 	Carolyn Richter , GCOS Secretariat*
2.3	11:30 – 11:45 15 min	Global Ocean Observing System (GOOS) <ul style="list-style-type: none"> – Essential Ocean Variables (EOVs) 	GOOS Secretariat*
2.4	11:45 – 12:00 15 min	Group on Earth Observations (GEO) <ul style="list-style-type: none"> – 2020-2022 GEO Work Programme and Connections to CEOS – Overview of Key GEO Initiatives with Significant CEOS Contributions 	Doug Cripe , GEO Secretariat
2.5	12:00 – 12:15 15 min	WMO Realignment <ul style="list-style-type: none"> – What do Changes to WMO Structure Mean to CEOS? 	Werner Balogh , WMO Space Programme
2.6	12:15 – 12:25 10 min	Perspective on Arctic Initiatives <ul style="list-style-type: none"> – Links between Global and Regional Satellite Programs 	Hajo Eicken (UAF)
2.7	12:25 – 12:45 20 min	Discussion Time <ul style="list-style-type: none"> – Other Essential Variables and Themes – Actions to be Completed before CEOS and GEO Plenaries – Recommended Plenary Decisions 	All

Lunch: 12:45 – 1:45, 60 minutes

Session 3: Study Team Outcomes

Discussion Points – A Working Group Study Team (WGST) and Ocean Virtual Constellation Merger Study Team (OVCMST) were stood up at SIT-34 and have worked to prepare a report with proposed concept and recommended way forward to potentially present to Plenary

#	Time Duration	Topic	Presenter
3.1	1:45 – 1:55 10 min	Session Introduction <ul style="list-style-type: none"> – Summary of SIT-34 Discussion – Study Team Charters 	Steve Volz , SIT Chair (NOAA)

Session 3: Study Team Outcomes

Discussion Points – A Working Group Study Team (WGST) and Ocean Virtual Constellation Merger Study Team (OVCMST) were stood up at SIT-34 and have worked to prepare a report with proposed concept and recommended way forward to potentially present to Plenary

#	Time Duration	Topic	Presenter
3.2	1:55 – 2:20 25 min	Working Group Study Team (WGST) Update <ul style="list-style-type: none"> – Preliminary Findings, Options, and Recommendations – Steps towards Plenary 	Brian Killough, WGST Representative (NASA) Mark Dowell, WGST Representative (COM)
3.3	2:20 – 2:35 15 min	Ocean Virtual Constellation Merger Study Team (OVCMST) Update <ul style="list-style-type: none"> – Preliminary Findings, Options, and Recommendations – Steps towards Plenary 	Ken Casey, OVCMST Representative (NOAA)
3.4	2:35 – 3:25 50 min	Discussion Time <ul style="list-style-type: none"> – Actions to be Completed before CEOS and GEO Plenaries – Recommended Plenary Decisions 	All

Coffee Break: 3:25 – 3:40, 15 minutes

Session 4: Reports from Working Groups

#	Time Duration	Topic	Presenter
4.1	3:40 – 3:55 15 min	Working Group Climate (WGClimate) <ul style="list-style-type: none"> – Space Agency Statement to SBSTA 51 and Preparations for COP-25 – GCOS and ECV Inventory Gap Analysis 	Jörg Schulz, WGClimate Chair (EUMETSAT)
4.2	3:55 – 4:05 10 min	GHG Roadmap <ul style="list-style-type: none"> – Roadmap Document and Targets – Actions 	Mark Dowell (COM), David Crisp (NASA)
4.3	4:05 – 4:15 10 min	CEOS Carbon Strategy Update <ul style="list-style-type: none"> – Convention Engagement – Status Report on Last 36 Months – Future Effort and Next Phase 	Mark Dowell (COM)
4.4	4:15 – 4:30 15 min	Working Group on Information Systems and Services (WGISS)	Mirko Albani, WGISS Chair (ESA)
4.5	4:30 – 4:45 15 min	Working Group on Calibration and Validation (WGCV)	Cindy Ong, WGCV Chair (CSIRO)
4.6	4:45 – 5:00 15 min	Working Group on Disasters (WGDisasters) <ul style="list-style-type: none"> – Draft Terms of Reference Review 	David Green, WGDisasters Vice Chair (NASA)

Session 4: Reports from Working Groups

#	Time <i>Duration</i>	Topic	Presenter
4.7	5:00 – 5:15 15 min	WGCapD Capacity Building Activities	Lauren Childs-Gleason , WGCapD (NASA)
4.8	5:15 – 5:25 10 min	Discussion Time <ul style="list-style-type: none"> – Actions to be Completed before CEOS and GEO Plenaries – Recommended Plenary Decisions 	All

Wrap-Up

#	Time <i>Duration</i>	Topic	Presenter
	5:25 – 5:45 20 min	Wrap-up <ul style="list-style-type: none"> – Day One Summary – Day Two Preview 	Steve Volz , SIT Chair (NOAA)

Adjourn

Evening Free

Thursday, 12 September 2019

Sessions: Reports from Virtual Constellations, Reports from Ad Hoc Teams, Other CEOS Activities and Work Planning, CEOS Business and Prep for CEOS Plenary.

Location: Wood Center, University of Alaska, Fairbanks

Registration: 8:30 – 9:00

Session 5: Reports from Virtual Constellations			
#	Time <i>Duration</i>	Topic	Presenter
5.1	9:00 – 9:15 <i>15 min</i>	Atmospheric Composition Virtual Constellation (AC-VC) – Tangible Outcomes – Plenary Decisions Required	Jay Al-Saadi , AC-VC Co-Lead (NASA)*
5.2	9:15 – 9:30 <i>15 min</i>	Ocean Colour Radiometry Virtual Constellation (OCR-VC) – Tangible Outcomes – Plenary Decisions Required	Ewa Kwiatkowska , OCR-VC Co-Lead (EUMETSAT)*
5.3	9:30 – 9:45 <i>15 min</i>	Ocean Surface Topography Virtual Constellation (OST-VC) – Tangible Outcomes – Plenary Decisions Required	François Montagner (EUMETSAT)
5.4	9:45 – 10:00 <i>15 min</i>	Ocean Surface Vector Wind Virtual Constellation (OSVW-VC) – Tangible Outcomes – Plenary Decisions Required	Raj Kumar , OSVW-VC Co-Lead (ISRO)
5.5	10:00 – 10:15 <i>15 min</i>	Precipitation Virtual Constellation (P-VC) – Tangible Outcomes – Plenary Decisions Required	Gail Skofronick-Jackson , P-VC Co-Lead (NASA)
5.6	10:15 – 10:30 <i>15 min</i>	Sea Surface Temperature Virtual Constellation (SST-VC) – Tangible Outcomes – Plenary Decisions Required	Ken Casey , SST-VC Co-Lead (NOAA)
5.7	10:30 – 10:45 <i>15 min</i>	Land Surface Imaging Virtual Constellation (LSI-VC) – Joint Meeting Outcomes – CARD4L	Steve Labahn , LSI-VC Co-Lead (USGS)

Coffee Break: 10:45 – 11:00, 15 minutes

Session 5: Reports from Virtual Constellations – con't

#	Time <i>Duration</i>	Topic	Presenter
5.8	11:00 – 11:10 <i>10 min</i>	Advancement of the COVERAGE Initiative	Jorge Vazquez , COVERAGE (NASA/JPL)
5.9	11:10 – 11:20 <i>10 min</i>	VC Leadership Rotation – Review of Proposed Language for VC Leadership Rotation	Kerry Sawyer , SIT Chair Team (NOAA)
5.10	11:20 – 11:40 <i>20 min</i>	Discussion Time – Actions to be Completed before CEOS and GEO Plenaries – Recommended Plenary Decisions	All

Session 6: Reports from Ad Hoc Teams/Working Group

#	Time <i>Duration</i>	Topic	Presenter
6.1	11:40 – 11:50 <i>10 min</i>	Space Data Coordination Group (SDCG) for Global Forests Observations Initiative (GFOI) – SDCG New WP Targets – Representation, Structure and Capacity	Osamu Ochiai , GFOI Lead for CEOS (JAXA) Stephen Ward , SDCG Secretariat
6.2	11:50 – 12:00 <i>10 min</i>	GEO Global Agricultural Monitoring (GEOGLAM) <i>ad hoc</i> Working Group – <i>CEOS Response to GEOGLAM Requirements (AGRI-4)</i> for Plenary Endorsement	Brad Doorn , GEOGLAM AHWG Co-Lead (NASA)
6.3	12:00 – 12:10 <i>10 min</i>	Sustainable Development Goals (SDGs) <i>ad hoc</i> Team – Progressing Pilot Support to Indicators 6.6.1, 11.3.1, and 15.3.1 – Governance and Future Outlook	Marc Paganini , SDG AHT Co-Lead (ESA) Alex Held , SDG AHT Co-Lead (CSIRO)
6.4	12:10 – 12:30 <i>20 min</i>	<i>Ad hoc</i> Team (AHT) Lifecycles – Mandate Renewal and Reporting – Coordination Prior to Plenary Decision – SDCG, GEOGLAM AHWG, SDG AHT	Kerry Sawyer , SIT Chair Team (NOAA)
6.5	12:30 – 1:00 <i>30 min</i>	Discussion Time – Actions to be Completed before CEOS and GEO Plenaries – Recommended Plenary Decisions	All

Lunch: 1:00 – 2:00, 60 minutes

Session 7: Other CEOS Activities

#	Time Duration	Topic	Presenter
7.1	2:00 – 2:10 10 min	GEO-LEO Activities Update – Planned Trajectory	Mitch Goldberg , SIT Chair Team (NOAA)
7.2	2:10 – 2:20 10 min	Observations for Coasts – Discussion on CEOS Coastal Strategy	Paul DiGiacomo , SIT Chair Team (NOAA)
7.3	2:20 – 2:35 15 min	Data Cubes as an Analysis Ready Tool – ARD Use-cases – Data Cube Prototypes and Digital Earth Africa – Support to GEO-Amazon Project	Brian Killough , SEO (NASA)
7.4	2:35 – 2:45 10 min	GEO Plenary Preparations – CEOS Participation at GEO	Steven Hosford , CEO (ESA/CNES)
7.5	2:45 – 2:55 10 min	Upcoming Changes to CEOS Representation in GEO	Steven Hosford , CEO (ESA/CNES)

Session 8: CEOS Business and Prep for CEOS Plenary

#	Time Duration	Topic	Presenter
8.1	2:55 – 3:15 20 min	WGST and OVCMST Next Steps – Preparing for Plenary – Changes to CEOS Documentation	Steve Volz , SIT Chair (NOAA)
8.2	3:15 – 3:30 15 min	CEOS Leadership Continuity – CEO/DCEO and 2021 CEOS Chair	Lam Dao Nguyen , CEOS Chair Team (VNSC)
8.3	3:30 – 3:45 15 min	CEOS SIT Vice Chair Priorities for 2020-2021 SIT Chair Term – <i>CEOS Analysis Ready Data Strategy</i> for Plenary Endorsement	Alex Held , SIT Vice Chair (CSIRO)
8.4	3:45 – 3:55 10 min	Incoming CEOS Chair Objectives	Raj Kumar , Incoming CEOS Chair Team (ISRO)
8.5	3:55 – 4:05 10 min	CEOS Plenary Preparations – Logistics – New Membership – Other Plenary Decision Items	Lam Dao Nguyen , CEOS Chair Team (VNSC)
8.6	4:05 – 4:15 10 min	AOB	All
8.7	4:15 – 4:30 10 min	Review of Actions – Highlight Workshop Actions to Plenary for Decision	SIT Chair Team
8.8	4:30 – 4:40 10 min	SIT Chair Closing Remarks	Steve Volz , SIT Chair (NOAA)

Adjourn