**2018 SIT Technical Workshop**

**September 13-14 2018**

**EUMETSAT, Darmstadt, Germany**

**AGENDA v2.0**

<http://ceos.org/meetings/2018-sit-technical-workshop/>

**Objectives**

The 2018 SIT Technical Workshop will focus on **preparations for CEOS Plenary**, as well as ensuring **follow-up and continuity of issues raised at SIT-33** in Boulder; namely focusing on VC and WG continuity, sustainability, and outputs, and **continuing development of CEOS relationships** with CGMS, GEO, and WMO. The discussion paper circulated prior to SIT-33 remains a useful reference for the Workshop discussions, as well as across the full two-year NOAA SIT Chair term. 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 are for information/discussion.

The objectives of the 2018 Workshop include:

* Continue **Virtual Constellation (VC)/Working Group (WG) coordination discussions**, from the VC/WG Day, July tag-ups, and SIT-33, 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.
* Review the **progress of the *ad hoc* Teams (AHTs)** since SIT-33, and identify SIT and Plenary level actions required. Revisit the topic of AHT lifecycles, both in general, and with a focus on preparing for the annual renewal of their mandates at Plenary.
* Update on the way forward for **CEOS on the coordination of climate observations including on greenhouse gasses (GHGs)** (*e.g.,* AC-VC papers, joint CEOS-CGMS activities), the ECV Inventory and gap analysis, IPCC Inventories).
* Update on the way forward on **data-related activities** including the evolution of the Future Data Architectures (FDA) AHT and its activities, CEOS and Open Data Cubes activities, and LSI-VC’s work on Analysis Ready Data (ARD), and CARD4L (including potential expansion beyond land).
* An update and discussion around the **CEOS approach to key partnerships**, including CGMS, WMO, and GEO.
* Address **CEOS organizational matters**, including leadership continuity, CEOS Chair transition, and improvements to the annual CEOS Work Plan update process and status of deliverables in preparation for CEOS and GEO Plenaries.

The Workshop will take place over two days, Thursday 13 and Friday 14 September and will be preceded by a dedicated VC/WG Day on Tuesday, 11 September and a side meeting day on Wednesday 12 September.

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| Tuesday 11th | Wednesday 12th | Thursday 13th | Friday 14th  |
| 9:00am – 5:00pmVirtual Constellation and Working Group Day*Invited Participants Only* | **9:00am – 5:00pm****Side Meetings*****(see next page)*** | **9:00am – 5:40pm****SIT Technical Workshop Day 1***Intro and Welcome**Climate and Carbon**Data**User Engagement Activities* | **9:00am – 4:30pm****SIT Technical Workshop Day 2***Oceans and Water Cycle**VC, WG, and AHT Sustainability**Partnerships**Work Planning and Close* |
| **6:00pm – 7:00pm****Icebreaker / Reception** | **7:15pm – 9:45pm****Hosted Dinner** |

**Wednesday, 12 September 2018**

***Registration: 8:30 – 9:00***



***Icebreaker/Hosted Reception: 6:00 -7:00***

**Location: TBD (EUMETSAT Foyer or EUMETSAT Canteen)**

**Thursday, 13 September 2018**

***Sessions:*** *Welcome and Introduction; Climate and Carbon Observations; Data; and, User Engagement Activities.*

***Location:*** *Council Room/STG-AFG*

***Registration: 8:30 – 9:00***

| *Session 1: Welcome and Introduction* |
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| # | Time*Duration* | Topic | Presenter |
| 1.1 | 9:00 – 9:05*5 min* | Welcome | Steve **Volz**, SIT Chair (NOAA) |
| 1.2 | 9:05 – 9:10*5 min* | EUMETSAT DG Welcome | Alain **Ratier**, Director General (EUMETSAT) |
| 1.3 | 9:10 – 9:20*10 min* | *Tour de Table* Introductions | **All** |
| 1.4 | 9:20 – 9:35*15 min* | SIT Chair Introduction* Review of Workshop objectives and adoption of agenda
* Continuity of SIT Chair themes
* SIT-33 outcomes recap and action status
 | Steve **Volz**, SIT Chair (NOAA) |
| 1.5 | 9:35 – 9:45*10 min* | Review of Chair Priorities* CO2 and GHGs
* Data
 | Mauro **Facchini**, CEOS Chair Team (COM) |
| 1.6 | 9:45 – 10:15*30 min* | Review of VC/WG Day Outcomes* Main outcomes
* Items for consideration during the Workshop
* Possible Plenary decisions
 | VC/WG Day Nominee(s)  |

***Group Photo and Coffee Break: 10:15 – 10:35, 20 minutes***

| *Session 2: Climate and Carbon Observations* |
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| # | Time*Duration* | Topic | Presenter |
| 2.1 | 10:35 – 10:45*10 min* | Session Introduction | Steve **Volz**, SIT Chair (NOAA) |
| 2.2 | 10:45 – 11:00*15 min* | Working Group Climate (WGClimate)* Space Agency statement to SBSTA 49 and preparations for COP-24
* GCOS and ECV Inventory gap analysis
* Actions ***SIT 33-07*** and ***CEOS-31-01***
 | Jörg **Schulz**, WGClimate Chair (EUMETSAT) |
| 2.3 | 11:00 – 11:10*10 min* | CEOS Chair Greenhouse Gas (GHG) Workshop* Interfaces Between CEOS Agencies and the GHG Monitoring System
* Laying the foundation for an international effort on CO2 and GHG monitoring system
 | Mark **Dowell**, CEOS Chair Team (COM) |
| 2.4 | 11:10 – 11:30*20 min* | CEOS Carbon Strategy * Carbon data portal prototype
* Cal/Val and production of biomass products
* Colombia Data Cube prototype
* CGMS coordination
* Action ***SIT 33-12***
 | Mark **Dowell**, CEOS Chair Team (COM) |
| 2.5 | 11:30 – 11:45*15 min* | AC-VC* GHG White Paper
* Air Quality Constellation
* Actions ***SITTWS-2017-17 and 2017-18***
 | Ben **Veihelmann**, AC-VC Co-Lead (ESA)David **Crisp,** AC-VC (NASA) |
| 2.6 | 11:45 – 11:55*10 min* | IPCC Guidelines and Way Forward* 2019 IPCC Guidelines for National Greenhouse Gas Inventories
 | Akiko **Suzuki** (JAXA) |
| 2.7 | 11:55 – 12:20*25 min* | Discussion Time* Confirmation of next steps that need to be completed before CEOS and GEO Plenaries
* Plenary decisions recommended/required
 | **All** |

***Lunch: 12:20 – 1:20, 60 minutes***

| *Session 3: Data* |
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| # | Time*Duration* | Topic | Presenter |
| 3.1 | 1:20 – 1:30*10 min* | Session Introduction | Steve **Volz**, SIT Chair (NOAA) |
| 3.2 | 1:30 – 1:40*10 min* | CEOS Chair FDA Workshop | Michael **Berger**,CEOS Chair Team (COM) |
| 3.3 | 1:40 – 2:00*20 min* | Future Data Architecture (FDA)* Continuity
* Next Steps
 | Nic **Hanowski**, FDA AHT Co-Lead (ESA) |
| 3.4 | 2:00 – 2:15*15 min* | Analysis Ready Data (ARD)* Joint meeting outcomes
* CARD4L and Data processing with connections to LEO-GEO. Action ***SIT 33-14***
* CEOS ARD Strategy and LSI-VC-5-13
 | Jenn **Lacey**, LSI-VC Co-Lead (USGS) |
| 3.5 | 2:15 – 2:30*15 min* | Working Group on Information Systems and Services (WGISS)* WGISS activities in support of ARD generation and delivery
 | Mirko **Albani**, WGISS Chair (ESA) |
| 3.6 | 2:30 – 2:50*20 min* | Data Cubes* CEOS, Open Data Cube, and other Data Exploitation Platforms
* ARD Requirements
 | Brian **Killough**, SEO (NASA) |
| 3.7 | 2:50 – 3:00*10 min* | Working Group on Calibration and Validation (WGCV)* WGCV activities in support of FDA and ARD
 | Kurt **Thome,** WGCV Chair (NASA) |
| 3.8 | 3:00 – 3:30*30 min* | Discussion Time* Confirmation of next steps that need to be completed before CEOS and GEO Plenaries
* Plenary decisions recommended/required
 | **All** |

***Coffee Break: 3:30 – 3:45, 15 minutes***

| *Session 4: User Engagement Activities* |
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| # | Time*Duration* | Topic | Presenter |
| 4.1 | 3:45 – 3:55*10 min* | SIT Chair Introduction | Steve **Volz**, SIT Chair (NOAA) |
| 4.2 | 3:55 – 4:10*15 min* | Support to SDGs | Marc **Paganini**, SDG AHT Co-Lead (ESA) |
| 4.3 | 4:10 – 4:25*15 min* | Observations for Disasters* Expansion of GEO-DARMA Flood Pilot to Lower Mekong. Action ***SIT 33-03***
 | Simona **Zoffoli**, WGDisasters Chair (ASI) |
| 4.4 | 4:25 – 4:40*15 min* | Observations for Forests* Support to GFOI Phase 2
* GFOI Data Component
* Discussion on structure and capacity
 | Osamu **Ochiai**, GFOI Lead for CEOS (JAXA) |
| 4.5 | 4:40 – 4:55*15 min* | Observations for Agriculture* GEOGLAM Requirements Summary
* CEOS GEOGLAM AHWG Strategic Response Plan
 | Brad **Doorn**, GEOGLAM AHWG Co-Lead (NASA) |
| 4.6 | 4:55 – 5:20*25 min* | Discussion Time* Confirmation of next steps that need to be completed before CEOS and GEO Plenaries
* Plenary decisions recommended/required
 | **All** |

| *Wrap-Up* |
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| # | Time*Duration* | Topic | Presenter |
|  | 5:20 – 5:40*20 min* | Wrap-up* Day one summary
* Day two preview
 | Steve **Volz**, SIT Chair (NOAA) |

***Adjourn: 5:40***

***Hosted Dinner: 7:15 – 9:45***

**Full details to be provided**

* **Dress: Casual/”rustic” (no business attire allowed)**
* **Cuisine: French**
* **Transportation:**
	+ **Bus pick-up at Prinz Heinrich Hotel (downtown Darmstadt) at 6:30**
	+ **Bus pick-up at Best Western Plaza Hotel (near EUMETSAT) at 6:45**
	+ **Travel to destination ~25 minutes**

**Friday, 14 September 2018**

***Sessions:*** *Oceans and Freshwater; VC, WG, and AHT Sustainability; Partnerships; and, Work Planning and Close.*

***Location:*** *Council Room/STG-AFG*

***Registration: 8:30 – 9:00***

| *Session 5: Oceans and Water Cycle* |
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| # | Time*Duration* | Topic | Presenter |
| 5.1 | 9:00 – 9:10*10 min* | Session Introduction | Steve **Volz**, SIT Chair (NOAA) |
| 5.2 | 9:10 – 9:20*10 min* | Advancement of the COVERAGE Initiative | Vardis **Tsontos**, COVERAGE (NASA) |
| 5.3 | 9:20 – 9:30*10 min* | SST-VC* Tangible outcomes
* Plenary decisions required
 | Anne **O’Carroll**, SST-VC Co-Lead (EUMETSAT) |
| 5.4 | 9:30 – 9:40*10 min* | OST-VC* Tangible outcomes
* Plenary decisions required
 | Remko **Scharroo**, OST-VC Co-Lead (EUMETSAT) |
| 5.5 | 9:40 – 9:50*10 min* | OSVW-VC* Tangible outcomes
* Plenary decisions required
 | Stefanie **Linow**, OSVW-VC Co-Lead (EUMETSAT) |
| 5.6 | 9:50 – 10:00*10 min* | OCR-VC* Tangible outcomes
* In consultation with LSI-VC, update on Water Feasibility Study. Action ***SIT 33-08***
* Plenary decisions required
 | Ewa **Kwiatkowska**, OCR-VC Co-Lead (EUMETSAT) |
| 5.7 | 10:00 – 10:10*10 min* | P-VC* Tangible outcomes
* Plenary decisions required
 | Steve Neeck, P-VC Co-Lead (NASA) |
| 5.8 | 10:10 – 10:20*10 min* | Freshwater from Space* Workshop plans update
* Action ***CEOS-31-05***
 | *Alex* ***Held****, SIT Vice Chair**(CSIRO)\** |
| 5.9 | 10:20 – 10:50*30 min* | Discussion Time* Confirmation of next steps that need to be completed before CEOS and GEO Plenaries
* Plenary decisions recommended/required
 | **All** |

***Coffee Break: 10:50 – 11:05, 15 minutes***

| *Session 6: VC, WG, and AHT Sustainability* |
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| # | Time*Duration* | Topic | Presenter |
| 6.1 | 11:05 – 11:15*10 min* | Session Introduction* Tangible outcomes
* Optimization of resource utilization
* Consistency and efficiency
* Mission Planning inputs
 | Steve **Volz**, SIT Chair (NOAA) |
| 6.2 | 11:15– 11:35*20 min* | CEOS Resources Utilization* Actions ***SIT 33-01*** and ***SIT 33-05***
 | Steve **Volz**, SIT Chair (NOAA) |
| 6.3 | 11:35 – 11:55*20 min* | *Ad hoc* Team (AHT) Lifecycles* Mandate renewal and reporting
* Coordination prior to Plenary decision
* SDCG, GEOGLAM AHWG, FDA AHT, SDG AHT
* Action ***SIT 33-11***
 | Stephen **Ward**, SIT Chair Team |
| 6.4 | 11:55 – 12:20*25 min* | Discussion Time* Resource limitation
* Confirmation of next steps that need to be completed before CEOS and GEO Plenaries
* Plenary decisions recommended/required
 | **All** |
| *7.4\** | 12:20 – 12:30*10 min* | WGCapD Capacity Building Activities | Nancy **Searby**, WGCapD Vice Chair (NASA) |

***Lunch: 12:30 – 1:30, 60 minutes***

| *Session 7: Partnerships* |
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| # | Time*Duration* | Topic | Presenter |
| 7.1 | 1:30 – 1:40*10 min* | Session Introduction | Steve **Volz**, SIT Chair (NOAA) |
| 7.2 | 1:40 – 1:50*10 min* | Engagement with GEO* Work Programme
* Priorities: Climate, Disasters, SDGs
* GEO-XV Plenary
 | Kerry **Sawyer**, SIT ChairTeam(NOAA) |
| 7.3 | 1:50 – 2:05*15 min* | GEO-LEO Activities Update* Actions ***SIT 33-15*** and ***SIT 33-16***
 | Dan **Lindsey** (NOAA) |
| \*7.4 |  | See Above |  |
| 7.5 | 2:05 – 2:35*30 min* | Discussion Time* Confirmation of next steps that need to be completed before CEOS and GEO Plenaries
* Plenary decisions recommended/required
 | **All** |

***Coffee Break: 2:35 – 2:50, 15 minutes***

| *Session 8: Work Planning and Closing* |
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| # | Time*Duration* | Topic | Presenter |
| 8.1 | 2:50 – 2:55*5 min* | Session Introduction | Steve **Volz**, SIT Chair (NOAA) |
| 8.2 | 2:55 – 3:10*15 min* | Work Planning* CEOS 2018-2020 Work Plan Status
* CEOS 2019 process improvements
* Linkages to GEO Work Programme
 | Steven **Hosford**, CEO (ESA/CNES) |
| 8.3 | 3:10 – 3:25*15 min* | Plenary Decision Items* New membership
* VC/WG/AHT consistency and efficiencies
* Others as arising
 | Steve **Volz**, SIT Chair (NOAA), Mauro **Facchini**, CEOS Chair Team (COM) |
| 8.4 | 3:25 – 3:40*15 min* | AOB | **All** |
| 8.5 | 3:40 – 3:55*10 min* | Review of Actions* Highlight Workshop actions to Plenary
 | SIT Chair Team |
| 8.6 | 3:55 – 4:05*10 min* | Incoming CEOS Chair Objectives | Vu Anh **Tuan**, Incoming CEOS Chair Team (VNSC) |
| 8.7 | 4:05 – 4:15*10 min* | CEOS Plenary Preparations | Astrid **Koch**, CEOS Chair Team (COM) |
| 8.8 | 4:15 – 4:30*15 min* | SIT Chair Closing Remarks | Steve **Volz**, SIT Chair (NOAA) |

***Adjourn: 4:30***

**VC, WG, AHT Agenda Items**



**CEOS Work Plan Mapping**

Excel spreadsheet on CEOS website - *CEOS Deliverables-SITTW2018AgendaMapping*