**The 34th Meeting of the CEOS Strategic Implementation Team (SIT-34)**

**3rd – 4th April 2019**

**The Mayfair at Coconut Grove, Miami, FL USA**

**FINAL AGENDA v2.0**

[**ceos.org/meetings/sit-3**](http://ceos.org/meetings/sit-33/)**4**

At SIT-34, we will continue themes initiated at SIT-33 and pursued both at the 2018 SIT Technical Workshop and the 32nd CEOS Plenary. Throughout the past year, we have discussed potential changes in leadership transition for 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 intend to continue those threads, and focus on the following objectives in the context of the Deliverables committed to in the 2019-2021 CEOS Work Plan:

* **Critical assessment results of the Virtual Constellations (VCs)**, including ongoing activities, tangible outputs, Constellation management, continuity, and VC proposals around leadership rotation (*Plenary Action CEOS-32-12*). The results will lead to recommended changes to how CEOS structures its VC activities, engagement of CEOS through the VCs with partners such as GEO and CGMS, and how to evolve and take the next step towards greater interoperability between datasets from multiple satellites and agencies. Identify areas of concern for further attention, action, and follow-up at SIT Technical Workshop and CEOS Plenary 2019, and into the next CEOS SIT Chair Term.
* Defining the **way forward for existing *ad hoc* Teams (AHTs)**, including consideration of options for continuity of CEOS activities in support of the Global Forest Observations Initiative (GFOI), GEO Global Agricultural Monitoring (GEOGLAM), and Sustainable Development Goals (SDG) (*Plenary Actions CEOS-32-13 and CEOS-32-11*). Considering lessons learned from the trajectory of current and past AHTs, we will discuss a road map for future AHTs, including an initial two-year AHT cycle for start-up and evaluation. For the AHT for SGDs, we will also determine if CEOS can focus on three or four SDGs/indicators that are most ready to use EO data.
* Continuing the discussion from the 2018 SIT Technical Workshop of **a CEOS Coastal Strategy** to enhance VC/WG/AHT efforts focused on coastal research and observations, and coordination across Ocean elements and the land/ocean boundary, particularly delta regions and the related observational datasets.
* Consider the progress of activities to **enhance the utility of new observations from satellites** exploring the development of LEO/GEO combined products and data processing capabilities (*Plenary Actions CEOS-32-09 and CEOS-32-10*).
* Drafting language to support **potential changes to CEOS Governance, Processes, and organization** resulting from discussions on VCs and AHTs and the formal processes CEOS will mandate for them (the items referenced above). Perform a health update on assessment of what is working well within CEOS and reflect upon CEOS internal issues such as structure, efficiency, number of entities and activities, resource allocation; CEOS external issues such as communication, interaction with key stakeholders; and strategy for global priorities like caring for our planet, SDGs, carbon, etc. Consider proposals for further discussion at 2019 SIT TW, and possible recommendation for decision(s) at 33rd CEOS Plenary (*Plenary Action CEOS-32-15*).
* Support **VNSC Mekong Initiative,** again with the LEO/GEO, AHT, and coastal strategy items identified referenced above.
* Address other **CEOS Plenary Actions due at SIT-34**, including the way forward on CEOS-CGMS coordination on GHG monitoring (*CEOS-32-05*), and CEOS Analysis Ready Data (ARD) Strategy (*CEOS-32-06*).

Additionally, we will continue discussion on key activities addressing decisions and actions from the 32nd CEOS Plenary including an initial presentation of 2020-2021 SIT Chair priorities from the SIT Vice Chair and progress ongoing CEOS commitments and support to other global initiatives such as climate activities. A 2019 update of the *Strategic Directions and Partnerships for CEOS Discussion Paper*, originally produced for SIT-33, is provided as a supporting document to the agenda.

The VCs have, since their inception, been focused on specific observing targets or themes (ocean vector winds, precipitation, sea surface temperature, etc.), tied to a small set of technologies or singular measurement technology. The global satellite observing system has expanded significantly over the past 10+ years, and the selection of satellites has been informed in part by CEOS VC reports and assessments. On the first subject above, enhanced communication and integration across VCs and between VCs and WGs, we will continue the discussion of a possible future trajectory for the CEOS VCs. At the September 2018 SIT Technical Workshop, we discussed the value of data integration and calibration across the ocean-based VCs, and the role of the WGCV supporting multiple VCs with common practices and calibration.

At SIT 34, the SIT Chair will present for discussion the concept of broader thematic based Virtual Constellations organized around the land, ocean, and atmosphere themes. This approach could better enable CEOS to support the community and user needs that draw on products and information from across different existing VCs. This concept will be highlighted throughout the SIT 34 agenda, as we review and consider the 2019-2021 Work Plan, and the individual contributions and plans from all the CEOS working elements.

The agenda is structured such that **Day 1 (Wednesday, April 3rd)** is focused on revisiting the big picture of CEOS organizational matters, including sustainability and continuity of working-level capabilities, *i.e.,* WGs, VCs, and deployment of AHTs; review of CEOS Work Planning and Partner activities; observations for end users; and consideration of ongoing alignment with progressing the 'Challenges, Opportunities, and Strategic Direction' outlined in Section 7 of the [*CEOS Strategic Guidance* document](http://ceos.org/document_management/Publications/Governing_Docs/CEOS_Strategic-Guidance_Nov2013.pdf).

**Day 2 (Thursday, April 4th)** will open with data-related matters, followed by consideration of oceans and freshwater, a revisit of the organizational matters discussion including confirmation of candidate and required updates to CEOS governance, review of the main discussion points, actions, and additional and any other business.

**Tuesday, April 2nd** is reserved for side meetings.

**Week-at-a-Glance**

|  |  |  |
| --- | --- | --- |
| Tuesday 2nd | Wednesday 3rd | Thursday 4th |
| 8:15am – 6:00pm  SIT-34 Side Meetings  *Detailed agenda below* | **9:00am – 5:45pm**  **SIT-34 Day 1**  *Intro, Organizational Matters (P1), Work Planning, Partnerships, Observations for End Users* | **9:00am – 4:30pm**  **SIT-34 Day 2**  *Data, Oceans and Freshwater, Organizational Matters (P2), Review of main discussion points, AOB, Actions, Closing* |
| *Evening Free* | ***Evening Free*** | ***Evening Free*** |

**Tuesday, 2 April 2019**

***Side Meetings***

*The Mayfair at Coconut Grove, 3000 Florida Avenue, Miami FL, 33133*

*\*\*Please note – lunch is not provided on 2 April\*\**



**Wednesday, 3 April 2019**

*The Mayfair at Coconut Grove, 3000 Florida Avenue, Miami FL, 33133*

***Breakfast: 7:30 – 8:30 in the Havana Room (provided to registered SIT-34 participants)***

***Registration: 8:30 – 9:00 in the Crystal Ballroom***

| *Crystal Ballroom* | | | |
| --- | --- | --- | --- |
| *Session 1: Welcome and Introduction* | | | |
| # | Time  *Duration* | Topic | Presenter |
| 1.1 | 9:00 – 9:10  *10 min* | Opening Remarks *Information* | Steve **Volz**, SIT Chair (NOAA) |
| 1.2 | 9:10 – 9:25  *15 min* | *Tour de Table* Introductions *Information* | **All** |
| 1.3 | 9:25 – 9:35  *10 min* | 2019 CEOS Chair Remarks  *Information*  and Initiatives Update | Pham Anh **Tuan**, CEOS Chair (VNSC/VAST) |
| 1.4 | 9:35 – 9:50  *15 min* | Keynote Presentation  *Information* | To be announced |
| 1.5 | 9:50– 10:30  *40 min* | SIT Chair 2018-2019 *Information*  Priorities and SIT-34 Objectives   * Review of Agenda * Updates to SIT-33 Strategic Directions and Partnerships Discussion Paper * Strategic Guidance Reminder * Challenge for SIT-34 Participants | Steve **Volz**, SIT Chair (NOAA) |
| 1.6 | 10:30 – 10:40  *10 min* | Status of Open Actions *Information* | Kerry **Sawyer**, SIT Chair Team (NOAA) |
| 1.7 | 10:40 – 11:00  *20 min* | Discussion *Discussion* | **All** |

***Group Photo and Coffee Break: 11:00 – 11:20, 20 minutes***

| *Session 2: Organizational Matters – Part I*  *Discussion Points – Introduce a discussion on the sustainability of current CEOS working-level groups that progress the implementation of CEOS priorities and Strategic Directions, i.e. VCs, WGs, AHTs. Frame the discussion by reviewing current CEOS Work Planning, resource allocation, leadership continuity, and then consider the sustainability of current efforts. Carry out an initial discussion leading into substantive discussion afternoon of Day 2.* | | | | | |
| --- | --- | --- | --- | --- | --- |
| # | | Time  *Duration* | Topic | Presenter | |
| 2.1 | | 11:20 – 11:30  *10 min* | Session Introduction *Information*   * VC, WG, and AHT Sustainability | Steve **Volz**, SIT Chair (NOAA) | |
| 2.2 | 11:30 – 11:50  *20 min* | | CEOS Work Plan 2019-2021 *Information*   * Review and Framing for SIT-34   ***SITTW-2018-08***  ***SITTW-2018-09*** | | Steven **Hosford**, CEO (ESA/CNES) |
| 2.3 | | 11:50 – 12:00  *10 min* | CEOS Resources *Information*   * CEOS Agency Support to Services/Infrastructure * Distribution of Resources across CEOS Working-level teams (VCs, WGs, AHTs) | Kerry **Sawyer**, SIT Chair Team (NOAA) | |
| 2.4 | | 12:00 – 12:25  *25 min* | Sustainability Discussion *Discussion*  Part One   * Working Groups * Virtual Constellations * *Ad Hoc* Teams   ***Plenary Action CEOS-32-11***  ***Plenary Action CEOS-32-12***  ***Plenary Action CEOS-32-13***  ***CEOS Plenary Decision 08***  ***CEOS Plenary Decision 09*** | Steve **Volz**, SIT Chair (NOAA) | |

| *Session 3: Partnerships*  *Discussion Points – Hear the latest directions from GEO, GCOS, WMO, and consider how CEOS engages with the Work Programme and GEO Week 2019 (Plenary, Ministerial). Updates on CEOS partner-related efforts GEO-LEO, and via the WGCapD.* | | | | |
| --- | --- | --- | --- | --- |
| # | Time  *Duration* | | Topic | Presenter |
| 3.1 | | 12:25 – 12:35  *10 min* | Session Introduction *Information* | Steve **Volz**, SIT Chair (NOAA) |
| 3.2 | | 12:35 – 12:45  *10 min* | Global Climate Observing *Information*  System (GCOS) Update | *Carolin* ***Richter****, GCOS Secretariat Director\** |
| 3.3 | | 12:45 – 1:00  *15 min* | Group on Earth Observations *Information*  (GEO) Update   * 2020-2022 GEO Work Programme Development * Requests of CEOS | Craig **Larlee**, GEO Secretariat |

***Lunch: 1:00 – 2:00 in the Havana Room (provided to registered SIT-34 participants)***

| *Session 3: Partnerships (cont.)*  *Discussion Points – Hear the latest directions from GEO, GCOS, WMO, and consider how CEOS engages with the Work Programme and GEO Week 2019 (Plenary, Ministerial). Updates on CEOS partner-related efforts GEO-LEO, and via the WGCapD.* | | | | |
| --- | --- | --- | --- | --- |
| # | Time  *Duration* | | Topic | Presenter |
| 3.4 | 2:00 – 2:10  *10 min* | | CEOS Engagement with GEO *Information*   * Mapping CEOS Activities to the 2017-2019 GEO Work Programme * CEOS Participation in GEO Entities * Sustaining Existing Support | Kerry **Sawyer**, SIT Chair Team (NOAA)  Steven **Hosford**, CEO (ESA/CNES) |
| 3.5 | 2:10 – 2:20  *10 min* | | GEO Amazon Credits *Information*   * Technical Advisory Role for GEO Credit Program Proposals * SEO/GEO Proposal to Prototype Sentinel-1/Sentinel-2 Data Pipeline | Brian **Killough**, SEO (NASA) |
| 3.6 | 2:20 – 2:30  *10 min* | | GEO-XVI Plenary and *Information*  Ministerial | Jonathon **Ross**, SIT Vice Chair Team (GA) |
| 3.7 | | 2:30 – 2:40  *10 min* | GEO-LEO Activities Update *Information*  ***Plenary Action CEOS-32-09***  ***Plenary Action CEOS-32-10***  ***SITTW-2018-14***  ***SITTW-2018-15*** | Mitch **Goldberg**, SIT Chair Team (NOAA) |
| 3.8 | | 2:40 – 2:50  *10 min* | World Meteorological *Information*  Organization (WMO) Update   * WIGOS 2040 * Future Data Management Approach * Implementing the Climate Architecture | Werner **Balogh**, WMO Space Programme |
| 3.9 | | 2:50 – 3:00  *10 min* | Working Group on Capacity *Information*  Building and Data Democracy (WGCapD) | Nancy **Searby**, WGCapD Vice Chair (NASA) |
| 3.10 | 3:00 – 3:25  *25 min* | | Discussion *Discussion* | **All** |

***Coffee Break: 3:25 – 3:40, 15 minutes***

| *Session 4: Observations for End Users*  *Key Questions and Discussion Points – Review CEOS user engagement in the areas of climate, disasters, agriculture, forests, and the SDGs. Look for common elements and determine if there is a sustained approach to meet user needs with existing organizational structure. If not possible to meet user needs with current construct, do we propose another?* | | | | |
| --- | --- | --- | --- | --- |
| # | | Time  *Duration* | Topic | Presenter |
| 4.1 | | 3:40 – 3:50  *10 min* | Session Introduction *Information* | Steve **Volz**, SIT Chair (NOAA) |
| 4.2 | | 3:50 – 4:05  *15 min* | Observations for Climate *Information*   * CEOS and GCOS * CEOS Carbon Strategy * Space Climate Observatory (SCO)   ***Plenary Action CEOS-32-05***  ***CEOS Plenary Decision 05*** | Jörg **Schulz**, WGClimate Chair (EUMETSAT) |
| 4.3 | | 4:05 – 4:15  *10 min* | Space Climate Observatory *Information* | Selma **Cherchali** (CNES) |
| 4.4 | | 4:15 – 4:25  *10 min* | Atmospheric Composition *Information*  Virtual Constellation (AC-VC)   * GHG Monitoring   ***Plenary Action CEOS-32-05*** | Jay **Al-Saadi**, AC-VC Co-Lead (NASA)  Dave **Crisp** (NASA) |
| 4.5 | | 4:25 – 4:35  *10 min* | Observations for Disasters *Information* | Simona **Zoffoli**,WGDisasters Chair (ASI) |
| 4.6 | | 4:35 – 4:45  *10 min* | Observations for Agriculture *Information* | Brad **Doorn**, GEOGLAM AHWG Co-Lead (NASA) |
| 4.7 | | 4:45 – 4:55  *10 min* | Observations for Forests *Information* | Osamu **Ochiai**, GFOI Lead for CEOS (JAXA)  Stephen **Ward**, SDCG Secretariat |
| 4.8 | | 4:55 – 5:05  *10 min* | Observations for SDGs *Information* | Marc **Paganini**, SDG AHT Co-Lead (ESA)  Alex **Held**, SDG AHT Co-Lead (CSIRO) |
| 4.9 | 5:05 – 5:30  *25 min* | | Discussion *Discussion* | **All** |

| *Wrap-up* | | | | |
| --- | --- | --- | --- | --- |
| # | | Time  *Duration* | Topic | Presenter |
|  | 5:30 – 5:45  *15 min* | | Wrap-up *Information*   * Day One Summary * Day Two Preview * Homework | Steve **Volz**, SIT Chair (NOAA) |

***Adjourn***

***Evening Free***

**Thursday, 4 April 2019**

*The Mayfair at Coconut Grove, 3000 Florida Avenue, Miami FL, 33133*

***Breakfast: 7:30 – 8:30 in the Havana Room (provided to registered SIT-34 participants)***

| *Crystal Ballroom* | | | | |
| --- | --- | --- | --- | --- |
| *Recap* | | | | |
| # | | Time  *Duration* | Topic | Presenter |
|  | 9:00 – 9:10  *10 min* | | Synopsis from Day One *Information*   * Actions from Day One | Steve **Volz**, SIT Chair (NOAA) |

| *Session 5: Data*  *Discussion Points – Hear the latest on WGISS activities (including progression of Future Data Architecture themes), WGCV, and review progress on ARD both within LSI-VC, and in CEOS more broadly.* | | | | |
| --- | --- | --- | --- | --- |
| # | | Time  *Duration* | Topic | Presenter |
| 5.1 | | 9:10 – 9:20  *10 min* | Session Introduction *Information* | Steve **Volz**, SIT Chair (NOAA) |
| 5.2 | | 9:20 – 9:30  *10 min* | Working Group on *Information*  Information Systems and Services (WGISS) | Mirko **Albani**, WGISS Chair (ESA) |
| 5.3 | | 9:30 – 9:40  *10 min* | Working Group on *Information*  Calibration and Validation (WGCV) | Cindy **Ong**, WGCV Chair (CSIRO) |
| 5.4 | | 9:40 – 9:50  *10 min* | Analysis Ready Data (ARD) *Information*   * Broader ARD inputs from VCs/WGs/AHTs   ***Plenary Action CEOS-32-06*** | Adam **Lewis**, LSI-VC Co-Lead, SIT Vice Chair (GA) |
| 5.5 | | 9:50 – 10:00  *10 min* | Land Surface Imaging *Information*  Virtual Constellation (LSI-VC) | Adam **Lewis**, LSI-VC Co-Lead, SIT Vice Chair (GA) |
| 5.6 | 10:00 – 10:25  *25 min* | | Discussion *Discussion* | **All** |

| *Session 6: Oceans and Water Cycle*  *Discussion Points – Hear the latest on CEOS Ocean VCs and consider how to stimulate collaborative activity amongst these VCs. Review plans for freshwater monitoring, including SIT Vice Chair’s plans for related activities. Refer to updated strategy paper for how Ocean VCs can engage in this session.* | | | |
| --- | --- | --- | --- |
| # | Time  *Duration* | Topic | Presenter |
| 6.1 | 10:25 – 10:35  *10 min* | Session Introduction *Information*   * Main Points from VC Telecons | Steve **Volz**, SIT Chair (NOAA) |
| Oceans VCs | | | |
| 6.2 | 10:35 – 10:45  *10 min* | Ocean Colour Radiometry *Information*  Virtual Constellation (OCR-VC) | *Ewa* ***Kwiatkowska****, OCR-VC Co-Lead (EUMETSAT)\** |
| 6.4 | 10:45 – 10:55  *10 min* | Ocean Surface Topography *Information*  Virtual Constellation (OST-VC) | *Remko* ***Scharoo****, OST-VC Co-Lead (EUMETSAT)\** |
| 6.5 | 10:55 – 11:05  *10 min* | Ocean Surface Vector Wind *Information*  Virtual Constellation (OSVW-VC) | Paul **Chang**, OSVW-VC Co-Lead (NOAA) |
| 6.6 | 11:05 – 11:15  *10 min* | Sea Surface Temperature *Information*  Virtual Constellation (SST-VC) | Ken **Casey**, SST-VC Co-Lead (NOAA) |

***Coffee Break: 11:15 – 11:30, 15 minutes***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Session 6: Oceans and Water Cycle (cont.)*  *Discussion Points – Hear the latest on CEOS Ocean VCs and consider how to stimulate collaborative activity amongst these VCs. Review plans for freshwater monitoring, including SIT Vice Chair’s plans for related activities. Refer to updated strategy paper for how Ocean VCs can engage in this session.* | | | | |
| # | | Time  ***Duration*** | Topic | Presenter |
| 6.7 | | 11:30 – 11:40  *10 min* | COVERAGE *Information* | *Eric* ***Lindstrom****, COVERAGE (NASA)\** |
| 6.8 | | 11:40 – 11:50  *10 min* | Observations for Coasts *Information*   * Discussion on CEOS Coastal Strategy * GEO Blue Planet and Coasts Connections | Paul **DiGiacomo**, SIT Chair Team (NOAA) |
| 6.9 | 11:50 – 12:10  *20 min* | | Discussion *Discussion* | **All** |
| Water Cycle | | | | |
| 6.10 | | 12:10 – 12:20  *10 min* | Precipitation *Information*  Virtual Constellation (P-VC) | *Gail* ***Skofronick-Jackson*** *P-VC Co-Lead (NASA)\** |
| 6.11 | | 12:20 – 12:30  *10 min* | Observations for Water *Information* | Paul **DiGiacomo**, SIT Chair Team (NOAA) |
| 6.12 | | 12:30 – 12:40  *10 min* | Freshwater from Space *Information*   * Next Steps | Alex **Held**, SIT Vice Chair (CSIRO) |
| *Session 6: Oceans and Water Cycle (cont.)* | | | | |
| 6.13 | 12:40 – 1:00  *20 min* | | Discussion *Discussion* | **All** |

***Lunch: 1:00 – 2:00 in the Havana Room (provided to registered SIT-34 participants)***

| *Session 7: Organizational Matters – Part II*  *Discussion Points – Revisit discussion around sustainability of CEOS working-level efforts, structures, governance, effectiveness in addressing Strategic Directions. Identify actions to take the next steps, including candidate and required updates to governance and processes. This session is the most important session of SIT-34 and expectation that Principals or their proxies will be present.* | | | | |
| --- | --- | --- | --- | --- |
| # | | Time  *Duration* | Topic | Presenter |
| 7.1 | | 2:00 – 2:10  *10 min* | Session Introduction *Information* | Steve **Volz**, SIT Chair (NOAA) |
| 7.2 | 2:10- - 2:20  *10 min* | | Revisit CEOS Agency Data *Information*  Policies | Brian **Killough**, SEO (NASA) |
| 7.3 | 2:20 – 2:45  *25 min* | | Discussion *Discussion*  ***Plenary Action CEOS-32-11***  ***Plenary Action CEOS-32-12***  ***Plenary Action CEOS-32-13***  ***CEOS Plenary Decision 08***  ***CEOS Plenary Decision 09*** | **All** |
| 7.4 | | 2:45 – 2:55  *10 min* | Required Updates to CEOS *Information*  Governance and Processes  ***Plenary Action CEOS-32-15*** | Steven **Hosford**, CEO (ESA/CNES) |

| *Session 8: AOB, Review of Main Points/Actions, Closing Remarks*  *Discussion Points – Review, revisit, and confirm main discussion points and actions. Address additional and any other business. Hear plans for SIT Technical Workshop 2019.* | | | | |
| --- | --- | --- | --- | --- |
| # | | Time  *Duration* | Topic | Presenter |
| 8.1 | | 2:55 – 3:15  *20 min* | Review and Discussion of *Information*  Main Points   * Revisit of SIT Chair Strategic Directions and Partnerships | Steve **Volz**, SIT Chair (NOAA) |
| 8.2 | | 3:15 – 3:25  *10 min* | Any Other Business *Information*   * Agreed Agenda Additional Items | **ALL** |
| 8.3 | | 3:25 – 3:35  *10 min* | 2020-2021 SIT Chair *Information*  Proposed Priorities | Alex **Held**, SIT Vice Chair (CSIRO) |
| 8.5 | | 3:35 – 3:45  *10 min* | Plans for 2019 SIT Technical *Information*  Workshop | Albert **DeGarmo**, SIT Chair Team (NOAA) |
| 8.4 | | 3:45 – 4:05  *20 min* | Way Forward to 2019 SIT *Discussion*  Technical Workshop   * VC/WG Next Steps * Upcoming VC/WG/AHT Meetings | Steve **Volz**, SIT Chair (NOAA) |
| 8.6 | | 4:05 – 4:20  *15 min* | Review of SIT-34 Actions *Discussion* | SIT Chair Team Secretariat |
| 8.7 | 4:20 – 4:30  *10 min* | | SIT Chair Closing Remarks | Steve **Volz**, SIT Chair (NOAA) |

***Adjourn***

***Afternoon Coffee Available***

***Evening Free***