**2017 CEOS Plenary & Side Meetings**

**18 – 20 October 2017**

**Rapid City, South Dakota, USA**

CEOS Plenary focuses on decisions to be made by Principals to progress 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 discussions held at the preceding SIT Technical Workshop in September.

Specific objectives of the 31st CEOS Plenary include:

1. Reviewing the various **CEOS climate activities** and providing direction and endorsement where required. Several themes and topics are anticipated:

*Global Climate Observing System (GCOS)*

* 1. Data transfer and accessibility, climate indicators, regional activities and adaptation, and contributions to the 2015 Paris Agreement.

*CEOS-CGMS Working Group on Climate*

1. The Essential Climate Variable (ECV) gap analysis report and the coordinated action plan;
2. The space agency response to the GCOS IP;
3. Space agency statement to SBSTA 47; and,
4. Nomination of the new WGClimate Vice-Chair.

*UNFCCC/IPCC Engagement*

1. 2019 IPCC Guidelines for National Greenhouse Gas Inventories.
   1. Agriculture, Forestry and Other Land Uses (AFOLU).
2. Assessing progress of, and providing direction on, **CEOS carbon efforts**:
   1. The CEOS Carbon Strategy actions that have been taken forward by various CEOS groups;
   2. AC-VC greenhouse gas constellation white paper;
   3. Debate and decide the way forward on an activity around the broader coordination of carbon observations, concluding the discussion initiated at SIT Technical Workshop and laying the groundwork for the 2018 CEOS Chair initiative on the topic; and,
   4. GFOI/SDCG
3. To review progress of, and provide direction on, the **CEOS thematic acquisition strategies**. This will cover:
   1. **Observations for agriculture** (incl. GEOGLAM); and,
   2. **Observations for disasters** (incl. WGDisasters, GEO-DARMA)
      1. Including the potential endorsement of the WGDisasters Geohazard Laboratory Implementation Plan
4. Establishing broader understanding of the various activities related to **water observations**, and achieving clarity on the priorities and way forward for CEOS in relation to GEOGLOWS, COVERAGE, AquaWatch, and GEO Blue Planet.
5. Reviewing the recommendations of the **Future Data Architectures (FDA) *Ad-hoc* Team**, and:
   1. Making a decision on how CEOS should take the various FDA activities forward within the CEOS structure and Work Plan;
   2. Reviewing progress on existing FDA pilots; and,
   3. Initiating the 2018 CEOS Chair’s follow-on FDA initiative.
6. Evaluating and providing direction for the **CEOS Virtual Constellations and Working Groups** and their activities, in particular:
   1. The coordination of CEOS land surface imaging activities (LSI-VC/SDCG/GEOGLAM);
   2. The Moderate Resolution Interoperability (MRI) Initiative established by the 2017 CEOS Chair (LSI-VC);
   3. The situation regarding the current and future passive microwave constellation for sea surface temperature (SST-VC); and,
   4. Endorsing new Working Group Vice-Chairs, where necessary.
7. Reviewing progress of, and providing guidance on, **CEOS support to other key stakeholder initiatives**, such as the United Nations Sustainable Development Goals (SDGs).
8. Revisit the CEOS coordinated engagement strategy for International Financial Institutions (IFIs), following the anticipated discussion at SIT Technical Workshop.

**Week at a Glance**

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| **Wednesday, October 18** | **Thursday, October 19** | **Friday, October 20** |
| **Side Meeting Timetable TBC** | *Morning 09:00 – 13:00*  **Core Plenary Business**   * CEOS Chair Introduction * 30th CEOS Plenary Actions * CEOS 3-Year Work Plan Annual Update   **Climate Session**   * Essential Climate Variables (ECVs) Inventory * GCOS IP Space Agency Response * COP-23 CEOS/CGMS Presence * SBSTA 47 Space Agency Statement * WGClimate Vice-Chair Nomination * Global Climate Observing System (GCOS) Update   **Carbon Session**   * CEOS Carbon Strategy Actions * AC-VC Greenhouse Gas Constellation * 2019 IPCC Guidelines for National Greenhouse Gas Inventories * GFOI/SDCG * Synthesis of Carbon Observations Discussions in CGMS * Broader Coordination of Carbon Observations   *Afternoon 14:00 – 17:30*  **Agency and Partner Updates**   * GEO Update * GEO Programme Board Report * GEO-XIV Plenary Preparations * GEO Executive Committee Report * International Financial Institutions (IFIs) * Agency Reports   **Agriculture Session**   * GEOGLAM   **Disasters Session**   * WGDisasters * GEO-DARMA | *Morning 09:00 – 13:00*  **Water Session**   * Overview of Existing Water Activities and CEOS Engagement * Priorities and Way Forward for CEOS   **EO Data Access, Delivery & Interoperability Session**   * FDA Strategy & Recommendations * FDA Pilot Outcomes * Way Forward in the CEOS Structure * CEOS Analysis Ready Data (ARD) * CEOS Data Cube * Moderate Resolution Interoperability (MRI) Initiative   **UN Sustainable Development Goals (SDGs)**   * SDG-AHT   *Afternoon 14:00 – 17:30*  **WGs and VCs**   * WGISS, WGCV, WGCapD * Virtual Constellation Issues, Discussions, Decisions * COVERAGE * LSI-VC / SDCG / GEOGLAM Coordination   **Other CEOS Business**   * MIM Database * SEO Report   **Closing Session**   * CEOS Ad-Hoc Teams Continuation * SIT Chair Handover * CEO Handover * 2019 CEOS Chair Recommendation and Decision * Future CEOS Chairs Discussion * CEOS Chair Handover * CEOS Chair Priorities for 2018 * Plenary Decisions and Actions |

**Agenda**

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| **Thursday October 19th**  *Plenary Day 1* | | | | | |
| ***08:00 — Registration*** | | | | | |
| **Session 1: Core Business** | | | | | |
| **1.1** | 09:00 | CEOS Chair Introduction   * Welcome and Opening Remarks * Plenary Themes * *Tour de Table* | F. Kelly  CEOS Chair | | |
| **1.2** | 09:20 | 30th CEOS Plenary Actions Status | J. Ross  CEO | | |
| **1.3** | 09:35 | CEOS 3-Year Work Plan Annual Update Schedule | J. Ross  CEO | | |
| **Session 2: Climate** | | | | | |
| **2.1** | 09:50 | Essential Climate Variables (ECVs) Inventory   * Gap Analysis Report (For Endorsement) * Coordinated Action Plan (For Endorsement)   GCOS IP Space Agency Response (For Information)  COP-23 CEOS/CGMS Presence (For Information/Discussion)  SBSTA 47 Space Agency Statement (For Endorsement)  WGClimate Vice-Chair Nomination (For Decision) | | P. Lecomte  CEOS-CGMS WGClimate Chair | |
| **2.2** | 10:20 | Global Climate Observing System (GCOS) – Facilitating Data Transfer and Free Accessibility | | C. Richter  GCOS | |
| ***10:35 — Break & Photo*** | | | | | |
| **Session 3: Carbon** | | | | |
| **3.1** | 11:00 | CEOS Carbon Strategy Actions | | M. Dowell  COM |
| **3.2** | 11:20 | AC-VC Greenhouse Gas Constellation | | Name TBD  AC-VC |
| **3.3** | 11:40 | 2019 IPCC Guidelines for National Greenhouse Gas Inventories | | Name TBD  JAXA |
| **3.4** | 12:00 | GFOI/SDCG | | M. Shimada / S. Ward  SDCG |
| **3.5** | 12:20 | Synthesis of Carbon Observations Discussions in CGMS | | Name TBD  EUMETSAT |
| **3.6** | 12:40 | Broader Coordination of Carbon Observations | | Name TBD |
| ***13:00 — Lunch*** | | | | |
| **Session 4: Agency and Partner Updates** | | | | |
| **4.1** | 14:00 | GEO Update | | B. Ryan  GEO |
| **4.2** | 14:10 | GEO Programme Board Report | | J. Ross  CEO |
| **4.3** | 14:15 | GEO-XIV Plenary Preparations and Inputs | | J. Ross  CEO |
| **4.4** | 14:20 | GEO Executive Committee Report | | S. Briggs  SIT Chair |
| **4.5** | 14:30 | International Financial Institutions (IFIs) | | S. Coulson? |
| **4.X** | 14:40 | TBD | | TBD |
| ***16:00 — Break*** | | | | |
| **Session 5: Agriculture** | | | | |
| **5.1** | 16:20 | GEOGLAM   * Key topics | | Name TBD |
| **Session 6: Disasters** | | | | |
| **6.1** | 16:40 | WGDisasters   * Disaster Risk Management Pilot Initiative Final Reports (For Decision) * Report on Follow-on Actions for the Volcano and Seismic DRM Pilots (For Decision) * Recovery Observatory Operational Plan (For Decision) * GEO GSNL Proposal (Southern Andes Supersite) and Biennial Reports (Ecuador and New Zealand Supersites) (For Decision) * New WGDisasters Vice-Chair (For Decision) | | S. Chalifoux  WGDisasters Chair |
| **6.2** | 17:00 | GEO-DARMA   * Progress Status | | I. Petiteville Lead Coordinator for GEO-DARMA |
| ***17:20 — Adjourn*** | | | | |

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| Friday October 20th *Plenary Day 2* | | | | | |
| Session 7: Water | | | | | |
| **7.1** | | 08:30 | | Overview of Existing Water Activities and CEOS Engagement   * Water Resources * Oceans * UN: SDGs and World Water Data Initiative * CEOS Work Plan Action Status Summary | SIT Chair TBC  Water PoC TBC |
| **7.2** | | 09:00 | | Discussion   * Priorities and Way Forward for CEOS * Work Plan for 2018-2020 | SIT Chair TBC  Water PoC TBC |
| Session 8: Earth Observation (EO) Data Access, Delivery, and Interoperability | | | | | |
| **8.1** | | 09:30 | | Future Data Architectures (FDA) Strategy & Recommendations (For Information)   * FDA-AHT Final Report * Strategic Discussion Narrative Paper | S. Labahn / A. Held / N. Hanowski  FDA-AHT |
| **8.2** | | 09:50 | | FDA Pilot Outcomes (For Information) | B. Killough  SEO / FDA-AHT |
| **8.3** | | 10:10 | | FDA Way Forward in the CEOS Structure / Work Plan (For Discussion and Decision)   * Tasks and Responsibilities * Staff Resourcing Plan * FDA-AHT Continuation / Conclusion | S. Labahn / A. Held / N. Hanowski  FDA-AHT |
| ***10:30 — Break*** | | | | | |
| **8.4** | | 10:50 | | CEOS Analysis Ready Data for Land (CARD4L) Status (For Information)  Broader CEOS ARD Strategy (For Discussion) | A. Lewis  LSI-VC |
| **8.5** | | 11:10 | | CEOS Data Cube (CDC)   * Decision/Discussion Points | B. Killough  SEO / FDA-AHT |
| **8.6** | | 11:30 | | Moderate Resolution Interoperability (MRI) Initiative   * Decision/Discussion Points | G. Fosnight  LSI-VC |
| **Session 9: UN Sustainable Development Goals (SDGs)** | | | | | |
| **9.1** | | | 11:50 | SDG-AHT   * Compendium of Existing CEOS Agencies’ Engagement and Activities in the SDG Framework (For Information) * Implementation Plan (For Decision) | Name TBD  SDG-AHT |
| **9.2** | | | 12:10 | *Tour de Table*: CEOS Agency SDG Activities (with the UN/NSOs/government agencies/etc.) |  |
| ***12:30 — Lunch*** | | | | | |
| **Session 10: Working Groups and Virtual Constellations** | | | | | |
| **10.1** | | 13:30 | | WGISS   * Decision/Discussion Points… | A. Mitchell  WGISS Chair |
| **10.2** | | 13:50 | | WGCV   * Decision/Discussion Points… | K. Thome  WGCV Chair |
| **10.3** | | 14:10 | | WGCapD   * Decision/Discussion Points… | P. Sibandze  WGCapD Chair |
| **10.4** | | 14:30 | | Virtual Constellation Issues, Discussions, Decisions   * CEOS Work Plan Action Status * Areas of Uncertainty, Bottlenecks * Sea Surface Temperature Passive Microwave Radiometer Continuity (Discussion, 10 mins) * Air Quality Constellation Validation Needs (TBC) * Total Ozone Dataset Validation and Harmonization Papers (VC-2, TBC) | J-L. Fellous  SIT Chair Team |
| **10.5** | | 15:00 | | COVERAGE | Name TBD |
| **10.6** | | 15:20 | | LSI-VC / SDCG / GEOGLAM Coordination Recommendations | Name TBD  LSI-VC |
| ***15:40 — Break*** | | | | | |
| **Session 11: Other CEOS Business** | | | | | |
| **11.1** | | | 16:00 | Missions, Instruments, and Measurements (MIM) Database Report | I. Petiteville  ESA |
| **11.2** | | | 16:10 | Systems Engineering Office (SEO) Report   * Key topics… | B. Killough  SEO |
| **Session 12: Closing Business** | | | | | |
| **12.1** | | 16:20 | Recap of Decisions on One-Year Extensions of the CEOS *Ad-Hoc* Teams and WG Leadership Succession | F. Kelly  CEOS Chair | |
| **12.2** | | 16:25 | SIT Chair Handover   * Outgoing Chair’s Presentation * Incoming SIT Chair Priorities Presentation | S. Briggs  SIT Chair  S. Volz  SIT Vice Chair | |
| **12.3** | | 16:45 | CEO Handover | J. Ross  CEO  Name TBC | |
| **12.4** | | 16:55 | 2019 CEOS Chair Recommendation and Decision + Future CEOS Chairs Discussion | F. Kelly  CEOS Chair | |
| **12.5** | | 17:00 | CEOS Chair Handover | F. Kelly  2017 CEOS Chair  P. Brunet  2018 CEOS Chair | |
| **12.6** | | 17:05 | 2018 CEOS Chair Presentation   * 2018 CEOS Chair Priorities * 2018 Plenary Video | P. Brunet  2018 CEOS Chair | |
| **12.7** | | 17:20 | 2017 CEOS Plenary Decisions and Actions Recap | F. Kelly  2017 CEOS Chair | |
| **12.8** | | 17:40 | Closing Remarks | F. Kelly  2017 CEOS Chair | |
| ***17:45 — Adjourn*** | | | | | |
| **Closed SEC/Troika Meetings**  Location: TBC | | | | | | |
| 17:55 | | | | 230th CEOS Secretariat Meeting (SEC-230) | Chaired by COM | |
| 18:25 | | | | Troika Meeting #2 (USGS, COM, VAST, NOAA) | Chaired by COM | |
| ***18:45 — Adjourn*** | | | | | | |

**Teleconference Connections TBA**

*Side Meetings*

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