**2023 CEOS Plenary Objectives & Agenda**

**14-16 November 2023**

**HYBRID MEETING – Remote Connection Details on Last Page**

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

Each year, the CEOS Plenary focuses on decisions to be made by Principals in consultation with the CEOS community to advance the mission, vision, and objectives of CEOS across the wide range of activities undertaken by its 5 Working Groups, 7 Virtual Constellations, and various subsidiary groups including *ad hoc* teams. The 2023 CEOS Plenary agenda is based on the priority business underway, and it is informed by the outcomes and discussions of the SIT-38 meeting (March 2023) and the CEOS SIT Technical Workshop (October 2023). In addition, the Plenary provides a forum for consideration of new activities in consideration of existing commitments, priorities, resourcing needs, and CEOS Agency engagement.

**Objectives**

Specific objectives of the 2023 CEOS Plenary include:

1. **Review the outcomes of the GISTDA 2023 CEOS Chair theme**: *“Space Technology for Better Environments, Economies, and Humanity”*.
2. **Decisions will be made on the potential endorsement of nominees for the role of Vice Chair of three CEOS working groups: WGCapD, WGISS, and WGDisasters. Each of these nominations is for a two-year term as WG Vice Chair, followed by a two-year term as WG Chair.**
3. Provide an opportunity for CEOS Principals to hear updates from **CEOS Working Groups (WGs) and Virtual Constellations (VCs)**. Evaluate the following specific items:
   1. WGClimate:
      * Provide a status update on the Merged Gap Analysis Report (the 2021 and 2022 analyses of existing/planned Climate Data Records (CDRs) and planned space architecture vs. select Essential Climate Variables (ECVs), e.g., Carbon-related).
      * Inform CEOS Principals of the new reporting approach of the Space Agency Response to the GCOS IP (SARGIP) (i.e., stratified delivery plan, with dates of completion varying by Action).
      * Provides a status update on the forthcoming taxonomy of time series names and definitions (e.g., CDR, FCDR, etc.) with distinguishing features.
      * Provide a COP28 report for CEOS Principal awareness.
      * Consider endorsement of the **Joint CEOS-CGMS Space Agency Statement to the UNFCCC Subsidiary Body for Scientific and Technological Advice (SBSTA) at COP-28**.
   2. WGDisasters:
      * Decision: G-VEWERS: Global Volcano Early Warning and Eruption Response from Space (CEOS Work Plan Action DIS-20-05)
      * Decision: Pre-Op RO : Pre-operational Recovery Observatory (CEOS Work Plan Action DIS-22-02)
      * For Information: Report on use cases for operationalization of EO at a local level (CEOS Work Plan Action DIS-22-03)
   3. WGISS:
      * Consider endorsement of the **CEOS Interoperability Framework Roadmap**.
   4. OCR-VC: Confirm resourcing across CEOS to develop an **Aquatic Carbon Roadmap** as a counterpart to the Greenhouse Gas and AFOLU Roadmaps.
4. New Space: Consider endorsement of the **New Space Task Team White Paper and recommendations**.
5. Climate & Carbon: Consider:
   1. Potential endorsement of the **CEOS Agriculture, Forestry and Other Land Use (AFOLU) Roadmap**.
   2. **Actions to address issues and obstacles impacting the Greenhouse Gas Roadmap**, as identified at the SIT Technical Workshop.
   3. CEOS Agency engagement with the **WMO Global Greenhouse Gas Watch (GGGW).**
   4. The **CEOS-UNFCCC Secretariat interface**.
   5. Strategies and actions to increase the **climate policy relevance** of CEOS space agency EO data.
6. Ecosystem Extent / Biodiversity: Consider endorsement of the **Ecosystem Extent Task Team’s white paper and recommendations**; discuss next steps, including the demonstrator effort.
7. Discuss the outputs of the **CEOS Ocean Coordination Group (OCG)** – two documents for information (*Needs Assessment for Ocean Coordination Activities for Upcoming Satellite Missions and the List of IOC and Ocean Decade Planned Deliverables from CEOS VCs/WGs/Ad Hoc Teams*), and seek consensus to end the OCG with the delivery of these outputs to the CEOS Plenary. Decide whether further related actions are necessary.
8. Consistent with the CEOS Virtual Constellation Process Paper, consider the Initial Proposal and Terms of Reference for the **CEOS Coastal Observations Applications Services and Tools (COAST)** *Ad Hoc* Team to transition to a COAST Virtual Constellation at SIT-39 in April, 2024. If this CEOS Plenary approves, COAST will be asked to submit a Final Proposal and an Implementation Plan for endorsement at SIT-39.
9. Consider endorsing the new **CEOS Communications Strategy**.
10. Discuss the evolution plan of the **CEOS Missions, Instruments and Measurements (MIM) Database** and provide feedback to help shape it, in particular, future support to CEOS Working Groups and Virtual Constellations.
11. Consider the **application for CEOS Associate membership by Environment and Climate Change Canada (ECCC)**.
12. Welcome the **Japan Aerospace Exploration Agency (JAXA) as SIT Chair for 2024-2025**.
13. Consider endorsement of the **National Aeronautics and Space Administration (NASA) for the role of SIT Vice Chair in 2024 and 2025, followed by SIT Chair in 2026 and 2027.**
14. Consider **endorsement of the United Kingdom Space Agency (UKSA) as the 2025 CEOS Chair (one-year term)**
15. Welcome the **Canadian Space Agency (CSA, Canada) as 2024 CEOS Chair (one-year term)** and discuss CSA’s proposed theme and priorities for the coming year.

**Week at a Glance**

The Plenary meeting will take place over two days, from November 15-16, and will be preceded by a side meeting day on November 14. A ‘Week at a Glance’ overview can be found below.

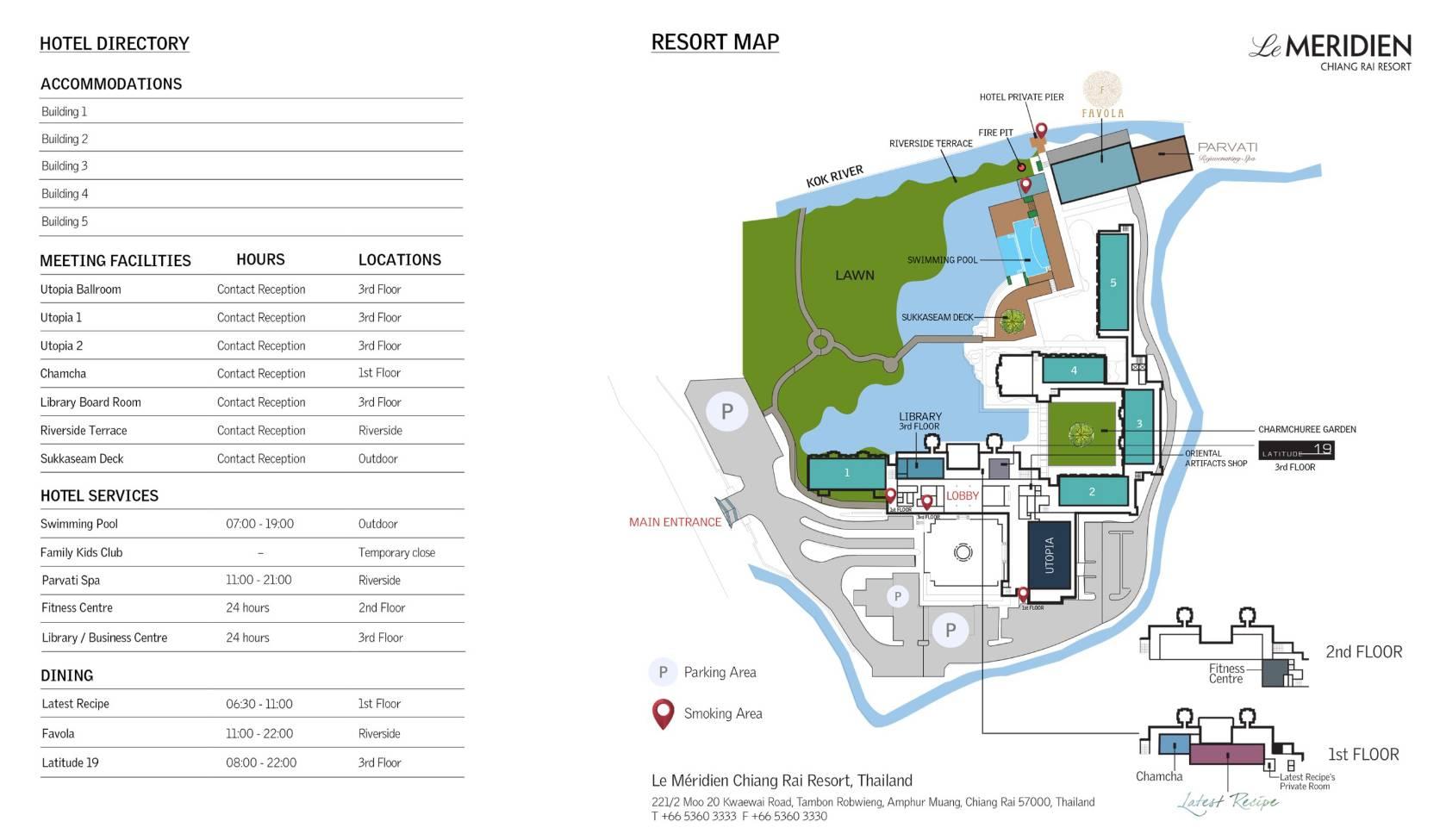
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| --- | --- | --- | --- |
| **Tuesday, November 14** | **Wednesday, November 15** | **Thursday, November 16** | **Friday, November 17** |
| Special Side Event: Satellite Earth Observation & Carbon Accounting  CEOS Side Meetings:   * Ecosystem Extent Task Team Co-lead Planning (closed) * CEOS Secretariat (314) (closed) * Canadian Space Agency Biodiversity Priority * Methane Analysis Standards Framework * SDG Coordination Group * ESA-JAXA SIT Chair Handover (closed) | Welcome and Core Business  Special Topics  Carbon, Climate, GHG  CEOS Working Groups  GEO Topics  CEOS Agency Reports  CEOS Virtual Constellations  CEOS Troika Meeting (closed) | New Space  Biodiversity  Oceans and Coasts  Other Business  CEOS Agency Reports  CEOS Leadership Transitions and Closing Business  CEOS Secretariat (315) (closed) | **CEOS 2023 “Unseen Space” Exploration** |
| **Welcome Reception** | **Hosted Dinner** |

**Documents and Supporting Materials**

* 4.1: [CEOS\_AFOLU\_roadmap\_FINAL\_V1.0.pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS_AFOLU_roadmap_FINAL_V1.0.pdf)
* 4.6: [CEOS\_AquaticCarbonRoadmap\_support\_paper\_plenary\_2023\_v1.docx](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS_AquaticCarbonRoadmap_support_paper_plenary_2023_v1.docx)
* 5.1: [ECCC Letter for CEOS Associate Membership October 12, 2023.pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/ECCC%20Letter%20for%20CEOS%20Associate%20Membership%20October%2012%202023.pdf)
* 6.2: [Nomination Letter for WGISS Vice Chair: Nitant Dube of ISRO](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/WGISS-VC-Nominiation_Nitant%20(1).pdf)
* 6.2: [Interoperability Framework and Roadmap.pptx](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/Interoperability%20Framework%20and%20Roadmap.pptx)
* 6.3: [Nomination Letter for WGCapD Vice Chair: Julio César Castillo Urdapilleta of AEM](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/AEM%20WGCapD.pdf)
* 6.4: [Nomination Letter for WGDisasters Vice Chair: Lôrânt Czârân of UNOOSA](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/UNOOSA%20letter_CEOS_28%20July%202023.pdf)
* 6.4: [G-VEWERS proposal.docx](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/G-VEWRES%20proposal.docx)
* 6.4: [WGDisasters\_Plenary\_2023\_Pre-Operational-RO proposal.pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/WGDisasters_Plenary_2023_Pre-Operational-RO%20proposal.pdf)
* 6.5: [CEOS-CGMS\_Statement\_for\_SBSTA59-For Plenary Endorsement.pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS-CGMS_Statement_for_SBSTA59-For%20Plenary%20Endorsement.pdf)
* 6.5: [CEOS-CGMS\_Statement\_for\_SBSTA59-For Plenary Endorsement - Redlined changes.docx](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS-CGMS_Statement_for_SBSTA59-For%20Plenary%20Endorsement%20-%20Redlined%20changes.docx)
* 7.1: [GEO Post 2025 Strategy Full Document.pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/GEO%20Post%202025%20Strategy%20Full%20Document.pdf)
* 7.1: [Cape Town Ministerial Declaration.pdf](https://drive.google.com/file/d/1QjLkGHq8Igte7FtiK0fLCRtJTIFcjkT9/view?usp=drive_link)
* 7.2: [GEOWeek2023\_CEOS\_Statement.pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/GEOWeek2023_CEOS_Statement.pdf)
* 9.1: [Ecosystem\_Extent\_TT\_White\_Paper\_V1.0.pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/Ecosystem_Extent_TT_White_Paper_V1.0.pdf)
* 10.1: [10.1\_CEOS OCG deliverables transmission memo\_v1.1\_Oct 26 2023.pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/10.1_CEOS%20OCG%20deliverables%20transmission%20memo_v1.1_Oct%2026%202023.pdf)
* 10.1: [CEOS OCG - IOC and UN Ocean Decade Activities - List of Activities.pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS%20OCG%20-%20IOC%20and%20UN%20Ocean%20Decade%20Activities%20-%20List%20of%20Activities.pdf)
* 10.1: [CEOS OCG - Upcoming Ocean-related Missions Oct\_19\_2023.pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS%20OCG%20-%20Upcoming%20Ocean-related%20Missions%20Oct_19_2023.pdf)
* 10.2: [10.2a\_CEOS\_COAST\_VC\_WP\_November\_2023\_V1.1.pdf](https://drive.google.com/file/d/1yX286Vl7q-nMNIYJAAfR1750ijj0O78Y/view?usp=drive_link)
* 10.2: [10.2b\_COAST\_VC\_TermsofReference\_Oct2023\_V1.3.pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/10.2b_COAST_VC_TermsofReference_Oct2023_V1.3.pdf)
* 11.1: [CEOS Communication Strategy 2023 v1.0.pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS%20Communication%20Strategy%202023%20v1.0.pdf)
* 12.1: [CEOS\_SIT\_Cover\_Letter\_NSTT\_White\_Paper.pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS_SIT_Cover_Letter_NSTT_White_Paper.pdf)
* 12.1: [New Space White Paper v1.0.docx](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/New%20Space%20White%20Paper%20v1.0.docx.pdf)
* 14.1: [20230731 UKSA self-nomination- CEOS Chair 2025 (1).pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/20230731%20UKSA%20self-nomination-%20CEOS%20Chair%202025%20(1).pdf)
* 14.2: [NASA\_CEOS SIT Vice Chair and SIT Chair Nomination\_2023 April 11 Executed (1).pdf](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/NASA_CEOS%20SIT%20Vice%20Chair%20and%20SIT%20Chair%20Nomination_2023%20April%2011%20Executed%20(1).pdf)
* 14.5: [CSA CEOS Chair Priorities 2024 v1.0 – 7 November 2023](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CSA%20CEOS%20Chair%20Priorities%202024%20v1.0%20_7%20November%202023.pdf)

**Side Meeting Schedule (Tuesday, November 14)**

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| **Time** | **Utopia 1 (Room #1)**  **20-30 people** | **Utopia 2 (Room #2)**  **80 seats** | **Chamcha (Room #3)**  **25 seats** | **Library Boardroom (Room #4)**  **10 seats** |
| **09:00 – 09:30** | **Special Side Event: Satellite Earth Observation & Carbon Accounting**  [Workshop Agenda](https://docs.google.com/document/d/1Avx_H4BV5AfkrI51_ODP3AtmCd-x7jAL/edit?usp=sharing&ouid=117023330514006103074&rtpof=true&sd=true)  *All CEOS members are invited to this side event. Lunch will be provided* |  |  | **CEOS Ecosystem Extent Task Team (EETT) Co-lead Planning** (closed)  Attendance by invitation only.  POC: Gary Geller (NASA/JPL) |
| **09:30 – 10:00** |  |  |
| **10:00 – 10:30** |  |  |
| **10:30 – 11:00** |  |  |
| **11:00 – 11:30** |  |  |
| **11:30 – 12:00** |  |  |
| **12:00 – 12:30** |  |  | **EETT Open House:** Drop in to meet the co-leads, ask questions, or share your thoughts |
| **12:30 – 13:00** |  |  |
| **13:00 – 13:30** | **Lunch**  *Please go to the special side event in Utopia 1 to receive your lunch tokens.* | | | |
| **13:30 – 14:00** |
| **14:00 – 14:30** |  | **CEOS SEC-314** (closed)  Attendance is by invitation only.  POC: Poramet Thuwakham (GISTDA), Matt Steventon |  |  |
| **14:30 – 15:00** |  |  |  |
| **15:00 – 15:30** |  | **Canadian Space Agency Biodiversity Priority**  POC: [csa-ceos-chair-2024@googlegroups.com](mailto:csa-ceos-chair-2024@googlegroups.com)  [Agenda](https://docs.google.com/document/d/1QkhqKLvdGPhGSGCpoX3_3qV6Ipwb8leJxATwxuuzu7A/edit?usp=sharing) | **Methane Analysis Standards Framework**  POC: Beth Greenaway (UKSA) | *Room booked for closed meeting*  *POC: Youshay Rizvi (NASA)* |
| **15:30 – 16:00** |  |  |
| **16:00 – 16:30** |  | **SDG Coordination Group**  POC: Flora Kerblat (CSIRO) | **ESA-JAXA SIT Chair Handover** (closed)  Attendance is by invitation only.  POC: Marie-Claire Greening (ESA) |  |
| **16:30 – 17:00** |  |  |
| **17:00 – 17:20** |  |  |  |
| **17:30 – 20:00** | **Welcome Reception (Shuttle bus transportation to venue departs at 17:30. Meet in the lobby 10 mins before departure.)**  Location: [Toke-Tong](https://maps.app.goo.gl/sjjaVsSRFfofjSVH9) | | | |



**2023 CEOS PLENARY AGENDA**

**Day 1: Wednesday, November 15**

Location: Plenary Room (Utopia Ballroom)

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| --- | --- | --- | --- |
| **Arrival / Teleconference Open** | | | **30 min before start time** |
| **Session 1: Welcome and Core Business**  **Moderator: Pakorn Apaphant (GISTDA)** | | | |
| 1.1 | 09:00 | Welcome, Opening Remarks, Agency Introductions, and Summary of Objectives *(Pakorn Apaphant, 2023 CEOS Chair; For Information)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/1.1_Apaphant_%20Welcome_v0.1.pptx)]   * Review of Matters for Decision and Endorsement | 15 min |
| 1.2 | 09:15 | CEOS Executive Officer (CEO) Report *(Marie-Claire Greening; For Information)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/1.2_Greening_CEOReport_v1.0.pptx)]   * CEOS organisation, roles and responsibilities * 2023-2025 CEOS Work Plan progress | 15 min |
| 1.3 | 09:30 | Update on the next CEOS Executive Officer (CEO) *(Paul Counet, EUMETSAT; For Information)* | 10 min |
| **Session 2: Special Topics**  **Moderator: Pakorn Apaphant (GISTDA)** | | | |
| 2.1 | 09:40 | 2023 CEOS Chair Priorities – Report on Outcomes *(Pakorn Apaphant, 2023 CEOS Chair; For Information)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/2.1_Apaphant_2023CEOSChairPrioritiesOutcomes_V1.0.pptx)] | 15 min |
| 2.2 | 09:55 | THEOS-II and GISTDA SPHERE Platform *(CEOS Chair Team; For Information)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/2.2_Suepa_GISTDA%20Updates_V1.0%20copy.pdf)] | 15 min |
| **Session 3: CEOS Agency Reports**  **Moderator: Tanita Suepa (GISTDA)** | | | |
| 3.1 | 10:10 | CEOS Agency Reports *(5 minutes each, For Information):*   1. [European Commission](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/3.1.1%20Facchini%20European%20Commission%20presentation%20v1.pptx) (Mauro Facchini) 2. [NIER](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/3.1.2_KIM_GEMSstatus2023_v2.pptx) (Goo Kim) 3. [CSA](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/3.1.3_Laliberte_CSA%20Agency%20Report_v1.pptx) (Éric Laliberté) 4. [USGS](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/3.1.4_Stryker_Labahn_USGS%20Agency%20Report.pptx) (Steve Labahn) 5. [NOAA](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/3.1.5_NOAA%20Agency%20Report%20v1.0.pptx) (Steve Volz) 6. [UKSA](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/3.1.6_Greenaway_UKSA_Report.pptx) (Beth Greenaway) | 25 min |
| **10:35: Group Photo + Break** | | | **20 min** |
| **Session 4: Carbon, Climate, Greenhouse Gas (GHG)**  **Moderator: Wenying Su (NASA)** | | | |
| 4.1 | 10:55 | CEOS Agriculture, Forestry and Other Land Use (AFOLU) Roadmap Update and Issues (Osamu Ochiai, JAXA on behalf of Ben Poulter, NASA and the AFOLU Roadmap Team) [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/4.1_Poulter_AFOLU.pptx)]   * For Discussion: Roadmap and actions * For Endorsement: Consider endorsement of the [CEOS AFOLU Roadmap](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS_AFOLU_roadmap_FINAL_V1.0.pdf) | 20 min |
| 4.2 | 11:15 | WMO Global Greenhouse Gas Watch *(Natalia Donoho, WMO; For Information)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/4.2_Donoho_WMO_GGGW_v1.pptx)] | 15 min |
| 4.3 | 11:30 | CEOS-UNFCCC Interface (Jeff Privette & Wenying Su (WGClimate); SIT Chair and Incoming SIT Chair Teams) [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/4.3%20CEOS-UNFCCC%20Interface_.pptx)]   * Recap headlines from SIT Technical Workshop and discussion * For Discussion: Possible actions to improve the CEOS-UNFCCC Secretariat interface. * For Discussion: Strategies and actions to increase the climate policy relevance of CEOS space agency EO data. | 20 min |
| 4.4 | 11:50 | GHG Satellite Mission Portal *(ESA MIM team; For Information)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/4.4_Ward_GHGPortal.pptx)] | 10 min |
| 4.5 | 12:00 | CEOS Greenhouse Gas (GHG) Roadmap *(Wenying Su, NASA; For Information)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/4.5_Su_GHG_ROADMAP.pptx)] | 20 min |
| 4.6 | 12:20 | Aquatic Carbon Roadmap [[doc](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS_AquaticCarbonRoadmap_support_paper_plenary_2023_v1.docx)] [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/4.6_Rio_Aquatic_Carbon_Roadmap.pptx)]   * For Discussion: 2-3 page justification paper and roadmap outline * Review resources needed to develop an Aquatic Carbon Roadmap as a counterpart to the Greenhouse Gas and AFOLU Roadmaps and consider commitments. * For Decision: Confirm the three leads identified (Hiroshi Murakami (JAXA), Laura Lorenzoni (NASA) and Marie-Helene Rio (ESA) * For Decision: Confirmation of contributors and resources across CEOS to support the development of the CEOS Aquatic Carbon Roadmap. | 20 min |
| 4.7 | 12:40 | Session wrap up, summary of actions and decisions *(For Information)* | 5 min |
| **12:45: Lunch** | | | **60 min** |
| **Session 3 (Cont.): CEOS Agency Reports**  **Moderator: Pakorn Apaphant (GISTDA)** | | | |
| 3.2 | 14:00 | CEOS Agency Reports *(5 minutes each, For Information):*   1. [NASA](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/3.2.1_Agency%20Reports_NASA_2023%20CEOS%20Plenary.pptx) (Karen St. Germain) 2. [ESA](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/3.2.2_Cheli_ESA%20Agency%20Report.pptx) (Simonetta Cheli) 3. [WMO](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/3.2.3_Donoho_WMO_Report_v1.pptx) (Natalia Donoho) 4. [EUMETSAT](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/3.2.4_Evans_EUMETSAT%20Agency%20Report.pptx) (Paul Counet) 5. [ROSCOSMOS](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/3.2.5_Ganina_Rososmos_%20report_v3.pptx) (Tamara Ganina) 6. [CNES](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/3.2.6_Cherchali_CNES_EO_Program_vf.pdf) (Selma Cherchali) 7. [JAXA](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/3.2.7_JAXA_CEOS_2023_20231108.pptx) (Takeshi Hirabayashi) | 45 min |
| **Session 5: Applications for CEOS Membership**  **Moderator: Pakorn Apaphant (GISTDA)** | | | |
| 5.1 | 14:45 | Environment and Climate Change Canada (ECCC) nomination to become a CEOS Associate Member *(Mr. David Harper, ECCC; 10 mins presentation + 10 mins for decision)* [[letter](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/ECCC%20Letter%20for%20CEOS%20Associate%20Membership%20October%2012%202023.pdf)] [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/5.1_Harper_ECCC_11022023_final.pptx)] | 20 min |
| **Session 6: CEOS Working Group Reports**  **Moderator: Pakorn Apaphant (GISTDA)** | | | |
| 6.1 | 15:05 | Working Group on Calibration & Validation (WGCV) *(Philippe Goryl, ESA; For Information)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/6.1_Goryl_WGCV_v1.pptx)] | 20 min |
| 6.2 | 16:00 | Working Group on Information Systems & Services (WGISS) *(Makoto Natsuisaka, JAXA and Tom Sohre, USGS)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/6.2_Natsuisaka_WGISS_v1.1.pptx)] [[roadmap](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/Interoperability%20Framework%20and%20Roadmap.pptx)]   * For Endorsement: Consider endorsement of the CEOS Interoperability Framework Roadmap. * For Endorsement: Nomination for WGISS Vice Chair (Nitant Dube of ISRO; [Letter](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/WGISS-VC-Nominiation_Nitant%20(1).pdf)) | 20 min |
| **16:20: Break** | | | **15 min** |
| **Session 7: Group on Earth Observations (GEO) Topics**  **Moderator: Marie-Claire Greening (CEOS Executive Officer)** | | | |
| 7.1 | 16:35 | Group on Earth Observations (GEO) Secretariat Report *(Yana Gevorgyan, GEO Secretariat Director; For Information)* [[Post 2025 Strategy](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/GEO%20Post%202025%20Strategy%20Full%20Document.pdf)] [[Ministerial Declaration](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/Cape%20Town%20Ministerial%20Declaration.pdf)]   * For Information: Post-2025 Strategy and Vision * Discussion (5 min) | 15 min |
| 7.2 | 16:50 | CEOS Support to GEO Governance and the GEO Work Programme *(Marie-Claire Greening, CEOS Executive Officer; For Information)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/7.2_Greening_CEOSGEO_v1.0.pptx)] [[doc](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/GEOWeek2023_CEOS_Statement.pdf)] | 10 min |
| **Session 6 (continued): CEOS Working Group Reports**  **Moderator: Pakorn Apaphant (GISTDA)** | | | |
| 6.4 | 17:00 | Working Group on Disasters (WGDisasters) *(Helene de Boissezon, CNES)* [[doc](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/G-VEWRES%20proposal.docx)] [[RO doc](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/WGDisasters_Plenary_2023_Pre-Operational-RO%20proposal.pdf)] [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/6.4_2023_WGDisasters_Plenary_2023_v2.pdf)]   * For Endorsement: Nomination for WGDisasters Vice Chair (Lôrânt Czârân of UNOOSA; [Letter](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/UNOOSA%20letter_CEOS_28%20July%202023.pdf)) * For Decision: G-VEWERS: Global Volcano Early Warning and Eruption Response from Space (DIS-20-05) * For Decision: Pre-Op RO : Pre-operational Recovery Observatory (DIS-22-02) * Report on use cases for operationalization of EO at a local level (DIS-22-03) | 15 min |
| 6.3 | 17:15 | Working Group on Capacity Building and Data Democracy (WGCapD) *(Jorge Del Rio Vera, UNOOSA)* ​​[Slides]   * For Endorsement: Nomination for WGCapD Vice Chair (Julio César Castillo Urdapilleta of AEM; [Letter](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/AEM%20WGCapD.pdf)) | ​​15 min |
| **Adjournment of Day 1** | | | **18:00** |

**Day 2: Thursday, November 16**

Location: Plenary Room (Utopia Ballroom)

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| **Teleconference Open** | | | **30 min before start time** |
| 6.5 | 08:30 | CEOS/CGMS Working Group on Climate (WGClimate) *(Jeff Privette, NOAA)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/6.5_Privette_WGClimate_1.1.pptx)] [[doc](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS-CGMS_Statement_for_SBSTA59-For%20Plenary%20Endorsement.pdf)]   * Provide a status update on the Merged Gap Analysis Report (the 2021 and 2022 analyses of existing/planned Climate Data Records (CDRs) and planned space architecture vs. select Essential Climate Variables (ECVs), e.g., Carbon-related). * Inform CEOS Principals of the new reporting approach of the Space Agency Response to the GCOS IP (SARGIP) (i.e., stratified delivery plan, with dates of completion varying by Action). * Provide a status update on the forthcoming taxonomy of time series names and definitions (e.g., CDR, FCDR, etc.) with distinguishing features. * Provide a report on COP28 for the awareness of CEOS Principals. * For Endorsement: Consider endorsement of the Joint CEOS-CGMS Space Agency Statement to the UNFCCC Subsidiary Body for Scientific and Technological Advice (SBSTA) at COP-28. | 15 min |
| **Session 8: CEOS Virtual Constellation Updates** | | | |
| 8.1 | 08:45 | Virtual Constellation Synthesis Report *(Ivan Petiteville, ESA SIT Chair Team; For Information)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/8.1_VC-Update_Petiteville_v0.pptx)] | 15 min |
| **Session 9: Biodiversity**  **Moderator: Éric Laliberté (CSA)** | | | |
| 9.1 | 09:00 | Ecosystem Extent Task Team *(Gary Geller, NASA/JPL)* [[doc](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/Ecosystem_Extent_TT_White_Paper_V1.0.pdf)] [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/9.1_9.2_Geller_EcoExtentTT_V1.0.pptx)]   * Overview of the task from the 2022 CEOS Plenary * White Paper summary (including recommendations) * For Endorsement: Consider endorsement of the Ecosystem Extent Task Team’s white paper | 20 min |
| 9.2 | 09:20 | Overview of the Ecosystem Extent Task Team Demonstrator Effort *(Gary Geller, NASA/JPL; For Information)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/9.1_9.2_Geller_EcoExtentTT_V1.0.pptx)] | 10 min |
| **Session 10: Oceans and Coasts**  **Moderator: Chuck Wooldridge (NOAA)** | | | |
| 10.1 | 09:20 | CEOS Ocean Coordination Group (OCG) *(Katy Matthews, NOAA)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/10.1_Matthews_OCG_Nov%202023.pptx)] [[memo](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/10.1_CEOS%20OCG%20deliverables%20transmission%20memo_v1.1_Oct%2026%202023.pdf)] [[doc](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS%20OCG%20-%20IOC%20and%20UN%20Ocean%20Decade%20Activities%20-%20List%20of%20Activities.pdf)] [[doc](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS%20OCG%20-%20Upcoming%20Ocean-related%20Missions%20Oct_19_2023.pdf)]   * *Needs Assessment for Ocean Coordination Activities for Upcoming Satellite Missions* * *List of IOC and Ocean Decade Planned Deliverables from CEOS VCs/WGs/Ad Hoc Teams* * For Discussion: Outputs of the CEOS Ocean Coordination Group (OCG) * For Decision: Confirm the end of the OCG with the delivery of these outputs to the CEOS Plenary and/or decide whether any further related actions are necessary. | 20 min |
| 10.2 | 09:40 | Coastal Observations Applications Services and Tools (COAST) Ad Hoc Team *(Steve Volz, NOAA)*  [[WP doc](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/10.2a_CEOS_COAST_VC_WP_November_2023_V1.1.pdf)] [[ToR](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/10.2b_COAST_VC_TermsofReference_Oct2023_V1.3.pdf)] [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/10.2_Volz_COAST_Nov%202023_Vers_1.1.pptx)]   * Draft white paper on the establishment of a COAST VC * Draft Terms of Reference for a COAST VC * For Discussion: Initial Proposal and Terms of Reference for the establishment of a COAST Virtual Constellation (VC) to engage with the existing CEOS ocean VCs. If approved, COAST will develop a Final Proposal and Implementation Plan for CEOS to make a final decision at SIT-39 (April 2024). * For Decision: Approach for the conclusion of the activities of the CEOS Coastal Observations Applications Services and Tools (COAST) *Ad Hoc* Team * For Decision: Agree on the way forward for the proposal to consider the establishment of a COAST Virtual Constellation at SIT-39 in March, 2024. | 20 min |
| **Session 11: Other Business**  **Moderator: Pakorn Apaphant (GISTDA)** | | | |
| 11.1 | 10:00 | CEOS Systems Engineering Office (SEO) Annual Report *(Dave Borges, SEO/NASA)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/11.1_Borges_SEO_Report_v2.pptx)]   * For Endorsement: Consider endorsement of the new [CEOS Communications Strategy](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS%20Communication%20Strategy%202023%20v1.0.pdf) * Plan for continuity of the CEOS Sustainable Development Goals (SDG) Coordination Group * GEO Pacific Island Advisory Group (PIAG) update | 20 min |
| **10:20: Break + Buffer** | | | **30 min** |
| 11.2 | 10:45 | CEOS Missions, Instruments and Measurements (MIM) Database Report *(ESA)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/11.2_ESA_MIM_Database.pptx)]   * Evolution plan of the CEOS Missions, Instruments and Measurements (MIM) Database * For Discussion: Provide feedback to help shape MIM evolution, in particular the future support to CEOS Working Groups and Virtual Constellations | 15 min |
| 11.3 | 11:00 | 2023 Earth Observation Handbook: Space Data for the Global Stocktake *(Simonetta Cheli and Stephen Ward, ESA SIT Chair Team; For Information)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/11.3_ESA_EOHandbook.pptx)] | 10 min |
| 11.4 | 11:10 | CEOS Analysis-Ready Data (CEOS-ARD) Update *(Steve Labahn & Peter Strobl, LSI-VC Co-Leads on behalf of Ferran Gascon, ESA, CEOS-ARD Oversight Group Lead; For Information)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/11.4_Labahn_Strobl_CEOS-ARD.pptx)] | 15 min |
| **Session 12: New Space** | | | |
| 12.1 | 11:25 | New Space Task Team *(Ivan Petiteville, ESA SIT Chair Team)* [[letter](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CEOS_SIT_Cover_Letter_NSTT_White_Paper.pdf)] [[doc](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/New%20Space%20White%20Paper%20v1.0.docx.pdf)] [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/12.1_Petiteville_NewSpaceTaskTeam_v0.4.pptx)]   * For Endorsement: Consider endorsement of the CEOS New Space Task Team’s White Paper and recommendations. * For Decision: Decide whether to develop an actions supplement for the purpose of tracking implementation. * For Discussion: Next steps, topic continuity, follow up activities, etc. | 30 min |
| **Session 13: CEOS Agency Reports Continued**  **Moderator: Tanita Suepa (GISTDA)** | | | |
| 13.1 | 11:55 | CEOS Agency Reports *(5 minutes each, For Information):*   * 1. [UNOOSA](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/13.1.1_UNOOSA%20Report.pptx) (Jorge Del Rio Vera)   2. [SANSA](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/13.1.2_Sangoni_SANSA_VFin.pptx) (Asanda Sangoni​)   3. [ASI](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/13.1.3%20ASI_report.pptx) (Laura Candela)   4. [Portuguese Space Agency](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/13.1.4_2023_CEOS_Plenary_Portuguese_S_Agency.pdf) (Hugo Costa)   5. [CAST](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/13.1.6_Lijia%20Fan(CAST)_System%20Design%20and%20Application%20of%20High%20Resolution%20Multimode%20Imaging%20Satellite.pptx) (Jun Dai) | 25 min |
| **12:50: Lunch** | | |  |
| **Session 13: CEOS Agency Reports Continued**  **Moderator: Tanita Suepa (GISTDA)** | | | |
| 13.1 | 13:40 | CEOS Agency Reports *(5 minutes each, For Information):*   * 1. [UNESCAP](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/UNESCAP_Presentation.pdf) (Keran Wang / Hamid Mehmood)   2. [ISRO](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/13.1.7_Jaiswal_Agency%20ISRO_v1.pptx) (Rajeev Jaiswal)   3. [DLR](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/13.1.8_Schmdit_DLR-Report_v2.pdf) (Klaus Schmidt) | 15 min |
| **Session 14: CEOS Leadership Transitions and Closing Business**  **Moderator: Pakorn Apaphant (GISTDA)** | | | |
| 14.2 | 13:55 | Nomination for CEOS SIT Chair for the two-year term of 2026-2027 [[letter](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/NASA_CEOS%20SIT%20Vice%20Chair%20and%20SIT%20Chair%20Nomination_2023%20April%2011%20Executed%20(1).pdf)]   * For Endorsement: Consider the nomination of the National Aeronautics and Space Administration (NASA) for the role of SIT Vice Chair (2024-2025) then SIT Chair (2026-2027) | 10 min |
| 14.3 | 14:05 | ESA SIT Chair Term Report *(Simonetta Cheli, ESA SIT Chair)* [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/14.3_Cheli_SIT-Chair-Report.pptx)]   * SIT Chair transition to JAXA | 15 min |
| 14.1 | 14:20 | Nomination for 2025 CEOS Chair [[letter](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/20230731%20UKSA%20self-nomination-%20CEOS%20Chair%202025%20(1).pdf)]   * For Endorsement: Consider endorsement of the nomination of the United Kingdom Space Agency (UKSA) for the role of 2025 CEOS Chair (one-year term) | 10 min |
| 14.4 | 14:30 | JAXA SIT Chair Term Prospectus 2024-2025 [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/14.4_JAXA%20Incoming%20SIT%20Chair_Hirabayashi_v2.pptx)] | 15 min |
| 14.5 | 14:45 | CSA 2024 CEOS Chair Presentation *(Éric Laliberté, CSA 2024 CEOS Chair)* [[doc](https://ceos.org/document_management/Meetings/Plenary/37/Supporting%20Documents/CSA%20CEOS%20Chair%20Priorities%202024%20v1.0%20_7%20November%202023.pdf)] [[slides](https://ceos.org/document_management/Meetings/Plenary/37/Presentations/14.5%20Laliberte%202024%20CEOS%20Chair%20Priorities.pptx)]   * For information: Priority themes | 15 min |
| 14.6 | 15:00 | CEOS Chair Transition + Photo *(GISTDA 2023 CEOS Chair Team and CSA 2024 CEOS Chair Team)* | 10 min |
| **15:10: Break** | | | **15 min** |
| 14.7 | 15:25 | Review of Preliminary Action and Decision Record *(GISTDA 2023 CEOS Chair Team)* | 10 min |
| 14.8 | 15:35 | Closing Remarks *(GISTDA 2023 CEOS Chair Team)* | 5 min |
| **Adjournment of Day 2 and the 37th CEOS Plenary** | | | **15:40** |

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| **Meeting Open Only to the CEOS Secretariat**  Location: Utopia 1  15:50: 315th CEOS Secretariat Meeting (SEC-315)  *Led by the 2024 CEOS Chair, CSA*  16:20: Adjournment |

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| **Hosted Dinner (18:00 – 21:00)**  *Participants are invited to wear white/light coloured shirt/blouse for the reception.*  **Shuttle bus transportation to venue departs at 17:15**  Location: [Bhu Bhirom](https://maps.app.goo.gl/Vyj9QGyjxCXyfKAu5) |

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### 2023 CEOS Plenary Teleconference Lines

### CEOS Plenary 2023 will be held as a hybrid meeting, allowing attendance both in-person (encouraged) and remotely via teleconference. Side meeting remote attendance will be at the discretion of side meeting organisers, and the lines below serve as the default for each side meeting room.

### Please Note: Connecting via the web link is strongly encouraged as this will provide a much richer online experience. The phone numbers have also been found to sometimes change, so if you run into problems with a particular number, please try another or just stick with the web link. We will do our best to keep the phone numbers up to date.

The Plenary meeting will be held over two days, from November 15-16, 2023. The meeting will commence at 9am local time (Thailand), which corresponds to the following times elsewhere in the world. Refer [here](https://www.timeanddate.com/worldclock/fixedtime.html?iso=20231115T09&p1=28) for other regions.

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| **Los Angeles** | **Washington D.C.** | **London** | **Rome** | **Local Time** | **Ahmedabad** | **Tokyo** | **Canberra** |
| 18:00 | 21:00 | 02:00 | 03:00 | **09:00** | 07:30 | 11:00 | 13:00 |

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