



## The 33<sup>rd</sup> Meeting of the CEOS Strategic Implementation Team (SIT-33)

24<sup>th</sup>-25<sup>th</sup> April 2018

University of Colorado

Boulder, CO, USA

### AGENDA v2

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

At SIT-33, we intend to focus on two of the 2018-2019 SIT Chair Priorities:

- Ensuring the efficient execution of existing SIT responsibilities addressing Working Group (WG) and Virtual Constellation (VC) continuity, sustainability, and outputs, including: undertaking gap analyses for each VC, to support ongoing and likely upcoming strategic Agency observatory decisions; seeking observations from VCs and WGs on best practices and possible modifications to existing practices; and supporting the activities of the CEOS *ad hoc* Team on Sustainable Development Goals by identifying targets and indicators relevant to each VC. Specifically, we will address the outcomes of the VC and WG Questionnaires that were shared with the current and one-generation removed leaders of the VCs and WGs in January.
- Improving and clarifying CEOS relationships with CGMS, GEO, and WMO by identifying coordinated activities and, where appropriate, holistic interaction emphasizing the unique values of each organization. We will address a mapping of CEOS priorities with the 2017-2019 GEO Work Programme, identifying areas where support and commitment from CEOS agencies is requested, as well as how those activities are captured in the CEOS 2018-2019 Work Plan, which will also be endorsed at SIT-33.

Additionally, we will continue discussion on key activities addressing decisions and actions from the 31<sup>st</sup> CEOS Plenary including the Water Feasibility Study, CEOS freshwater observation strategy, and the advancement of ongoing CEOS commitments and support to other global initiatives such as climate activities.

The *Strategic Directions and Partnerships for CEOS Discussion Paper* is provided as supporting document to the agenda.

The agenda is structured such that **Day 1 (Tuesday 24<sup>th</sup>)** is focused on the transfer of information, communicating agency near-term and long-term future plans, emerging activities, and building common understanding of implementation activities across CEOS through the Virtual Constellations and Working Groups.

**Day 2 (Wednesday 25<sup>th</sup>)** is focused on broader strategic discussions, linkages across CEOS work, mapping the work of CEOS to other partners (e.g. GEO), and concluding CEOS business.

**Monday 23<sup>rd</sup>** is reserved for side meetings.

## Week-at-a-Glance

Monday 23 <sup>rd</sup>	Tuesday 24 <sup>th</sup>	Wednesday 25 <sup>th</sup>	Thursday 26 <sup>th</sup>
9:00am – 5:30pm	9:00am – 6:00pm	9:00am – 4:40pm	9:00am – 5:00pm
<b>SIT-33 Side Meetings</b> <i>Detailed agenda below</i>	<b>SIT-33 Day 1</b> <i>Intro, Work Planning, VCs, WGs, Emerging</i>	<b>SIT-33 Day 2</b> <i>AHTs, Partnerships, Plenary, Review and Close</i>	<b>FDA Big Data Workshop</b> <i>CEOS Chair led, separate agenda <a href="#">online</a></i>
	7:00 pm <i>SIT-33 Reception</i>		

## Monday, 23 April 2018

Side Meetings

1665 Central Campus Mall, University of Colorado, Boulder, Boulder Colorado 80309

SIT-33 Side Meeting Schedule					MONDAY 23 APRIL 2018				
Time	S274 (~35)	W230 (~15)	340 (~15)	Auditorium (~110)					
7:00 AM									
7:30 AM									
8:00 AM									
8:30 AM									
9:00 AM									
9:30 AM	<b>CEOS SEC-236</b>								
10:00 AM									
10:30 AM	<b>Carbon/GHG/Climate</b> POC: M. Dowell	<b>GEO-LEO/NMA</b> POC: C. Wooldridge							
11:00 AM									
11:30 AM									
12:00 PM									
12:30 PM									
1:00 PM		<b>EU Coordination Meeting</b> POC: A. Koch							
1:30 PM	<b>SDG AHT</b> POCs: A. Held/F. Kerblat/E. Wood								
2:00 PM		<b>EU-U.S. CCG</b> POC: A. Koch							
2:30 PM									
3:00 PM		<b>EU-Aus CCG</b> POC: A. Koch							
3:30 PM	<b>GFOI/SDCG</b> POC: O. Ochiai								
4:00 PM									
4:30 PM									
5:00 PM									
5:30 PM									
<b>DOORS LOCKED AT 6:00 PM</b>									

## Tuesday, 24 April 2018

*Implementation status, sharing of information, building common understanding.*  
University Memorial Center Room: 235, 1669 Euclid Avenue Boulder, CO 80309

### Registration: 8:30 – 9:00

<b>Session 1: Welcome and Introduction</b>				
#	Time <i>Duration</i>	Topic		Presenter
1.1	9:00 – 9:05 <i>5 min</i>	Opening Remarks	<i>INFORMATION</i>	Steve <b>Volz</b> , SIT Chair (NOAA)
1.2	9:05 – 9:20 <i>15 min</i>	Welcome	<i>INFORMATION</i>	Eric <b>Kihn</b> , Director NCEI-CCOG
1.3	9:20 – 9:30 <i>10 min</i>	<i>Tour de Table</i> Introductions	<i>INFORMATION</i>	<b>All</b>
1.4	9:30 – 9:40 <i>10 min</i>	SIT Chair 2018-2019 Priorities and SIT-33 Objectives	<i>INFORMATION</i>	Steve <b>Volz</b> , SIT Chair (NOAA)
1.5	9:40 – 9:50 <i>10 min</i>	CEOS Chair Remarks, Introduction, and Overview	<i>INFORMATION</i>	Mauro <b>Facchini</b> , CEOS Chair (COM)
1.6	9:50 – 10:10 <i>20 min</i>	U.S. Decadal Survey	<i>INFORMATION</i>	Graeme <b>Stephens</b> , (CIRA)
1.7	10:10 – 10:40 <i>30 min</i>	Discussion on Future Mission Planning <ul style="list-style-type: none"> <li>– Copernicus Next Generation</li> <li>– JAXA Global EO Contributions</li> <li>– NOAA Satellite Observing System Architecture (NSOSA)</li> <li>– NASA Future Missions/Architecture</li> <li>– Australian National Space Agency</li> </ul>	<i>DISCUSSION</i>	<b>All</b>

**Group Photo and Coffee Break: 10:40 – 11:00, 20 minutes**

## Session 2: Work Planning

As a part of the core CEOS business and mission, and in the frame of CEOS support to GEO, review existing Work Plans to try and identify opportunities for coordination and optimization.

### Key Questions:

How do SIT-33 discussions related to the CEOS Work Plan and GEO Work Programme?

What areas can CEOS be expected to contribute in the future and how do these relate to the CEOS Work Plan?

#	Time Duration	Topic		Presenter
2.1	11:00 – 11:10 10 min	Return to First Principles – Refresher on CEOS Mission and Strategic Goals and Objectives	INFORMATION	Kerry Sawyer, SIT Chair Team (NOAA)
2.2	11:10 – 11:25 15 min	CEOS Work Plan 2018-2020 – Review and Framing for SIT-33	INFORMATION	Steven Hosford, CEO (ESA/CNES)
2.3	11:25 – 11:40 15 min	CEOS Priorities and the 2017-2019 GEO Work Programme – Mapping CEOS Activities – Sustaining existing Support – Land Degradation Neutrality Initiative Proposal	INFORMATION	Kerry Sawyer, SIT Chair Team (NOAA)
2.4	11:40 – 12:00 20 min	Discussion – Areas where CEOS Agencies will be Asked to Support GEO WP – How to Capture in the CEOS WP	DISCUSSION	All

## Session 3: Virtual Constellations

Support tangible and sustainable outcomes from CEOS Virtual Constellations by providing an opportunity to air key issues, identify barriers to progress, and discuss ways to overcome those barriers. Reflect on findings from the recent VC questionnaires and telecons.

### Key Questions:

How does CEOS best ensure continuity and sustainability of VCs?

What outputs are the VCs delivering? What additional outputs are needed or could they deliver?

What are the gaps within and between VCs that need to be addressed? How can they be addressed?

What obstacles are being raised by the VCs? And can they be resolved? If so, how?

Can, and how can the work of the VCs be mapped to future CEOS agency mission planning processes?

#	Time Duration	Topic		Presenter
3.1	12:00 – 12:20 20 min	Session Introduction – VC Questionnaire Process and Outcomes – CEOS Priorities for WGs and VCs – Identify Challenges Faced by the Groups in Sustaining and Improving their Activity	INFORMATION	Steve Volz, SIT Chair (NOAA)

#	Time <i>Duration</i>	Topic		Presenter
3.2	12:20 – 12:30 <i>10 min</i>	SST-VC: Sea Surface Temperature	<i>DECISION</i>	Ken <b>Casey</b> , SST-VC Co-Lead (NOAA)
<i>Plenary Action 31-07 SIT TWS Action 2017-19</i>				
3.3	12:30 – 12:40 <i>10 min</i>	OSVW-VC: Ocean Surface Vector Wind	<i>INFORMATION</i>	Eric <b>Lindstrom</b> (NASA)
3.4	12:40 – 12:50 <i>10 min</i>	OCR-VC: Ocean Colour Radiometry	<i>INFORMATION</i>	<b>TBA</b>
3.5	12:50 – 1:00 <i>10 min</i>	OST-VC: Ocean Surface Topography	<i>DECISION</i>	Eric <b>Lindstrom</b> (NASA)
<i>SIT TWS Action 2017-16</i>				

**Lunch: 1:00 – 2:15, 75 minutes**

### **Session 3: Virtual Constellations (continued)**

	Time <i>Duration</i>	Topic		Presenter
3.6	2:15 – 2:25 <i>10 min</i>	P-VC: Precipitation	<i>INFORMATION</i>	Steve <b>Neeck</b> , P-VC Co-Chair (NASA)*
3.7	2:25 – 2:35 <i>10 min</i>	AC-VC: Atmospheric Composition	<i>DISCUSSION</i>	Jay <b>Al-Saadi</b> , AC-VC Co-Chair (NASA)
<i>SIT TWS Action 2017-15</i>				
3.8	2:35 – 2:45 <i>10 min</i>	LSI-VC: Land Surface Imaging	<i>DISCUSSION</i>	Jenn <b>Lacey</b> , LSI-VC Co-Chair (USGS)
<i>Plenary Action 31-06</i>				
3.9	2:45 – 2:50 <i>5 min</i>	Discussion – Main Discussion to Follow WG Session	<i>DISCUSSION</i>	<b>All</b>

## Session 4: Working Groups

Support tangible and sustainable outcomes from CEOS Working Groups by providing an opportunity to air key issues, identify barriers to progress, and discuss ways to overcome those barriers. Reflect on findings from the recent WG questionnaires and telecons.

### Key Questions:

How does CEOS best ensure continuity and sustainability of WGs?

What outputs are the WGs delivering? What additional outputs are needed or could they deliver?

What obstacles are being raised by the WGs? And can they be resolved? If so, how?

Can and how can, the work of the WGs support the VCs, as well as current and future CEOS Work Plan and GEO Work Programme items?

#	Time Duration	Topic		Presenter
4.1	2:50 – 3:00 10 min	Session Introduction – WG Questionnaire Process and Outcomes – CEOS Priorities for WGs and VCs	INFORMATION	Steve <b>Volz</b> , SIT Chair (NOAA) Mark <b>Dowell</b> , CEOS Chair Team (COM)
4.2	3:00 – 3:10 10 min	WGCapD: Working Group on Capacity Building and Data Democracy	INFORMATION	Nancy <b>Searby</b> , WGCapD Vice Chair (NASA)
4.3	3:10 – 3:20 10 min	WGCV: Working Group on Calibration and Validation	INFORMATION	Kurt <b>Thome</b> , WGCV Chair (NASA)
4.4	3:20 – 3:40 20 min	WGDisasters: Working Group on Disasters – Introduction of Demonstrators	DISCUSSION	Simona <b>Zoffoli</b> , WGDisasters Chair (ASI)
4.5	3:40 – 3:50 10 min	WGISS: Working Group on Information Systems and Services	INFORMATION	Mirko <b>Albani</b> , WGISS Chair (ESA)
4.6	3:50 – 4:05 15 min	WGClimate: CEOS/CGMS Working Group on Climate – Gap Analysis Report and Coordinated Action Plan	DISCUSSION	Jörg <b>Schulz</b> , WGClimate Chair (EUMETSAT)

*Plenary Action 31-01*

**Coffee Break: 4:05 – 4:20, 15 minutes**

## Session 3/4: Virtual Constellations and Working Groups Wrap-up

#	Time Duration	Topic		Presenter
3.10/ 4.7	4:20 – 4:50 30 min	VC and WG Discussion – Sustaining Activity – WG Framework Support to VCs – Support to Agency Mission Planning – Broader Observing Strategy – 2018 Activities	DISCUSSION	<b>All</b>

## Session 5: Emerging and On-going Activities

Review of several emerging opportunities for CEOS engagement from the GEO Work Programme, as well as across the community.

### Key Questions:

What are the requirements of new and emerging activities around aquatic ecosystems and freshwater observations from space? Can these be addressed by CEOS capabilities, and if so, should they? How?

What are the next steps that CEOS can be taking in support of the Paris Declaration?

How is CEOS engaging with the IPCC Inventories process?

What, if any, new CEOS resources and Partnerships may be required to support engagement in these emerging activities?

#	Time Duration	Topic		Presenter
5.1	4:50 – 4:55 5 min	Feasibility Study for Aquatic Ecosystem Observations	<i>DISCUSSION</i>  <i>Plenary Action 31-04</i>	Alex <b>Held</b> , SIT Vice Chair (CSIRO)
5.2	4:55 – 5:05 10 min	Freshwater from Space Observation Strategy	<i>DECISION</i>  <i>Plenary Action 31-05</i> <i>Plenary Decision D-04</i>	Alex <b>Held</b> , SIT Vice Chair (CSIRO)
5.3	5:05 – 5:15 10 min	Paris Declaration	<i>INFORMATION</i>	Selma <b>Cherchali</b> (CNES)
5.4	5:15 – 5:30 15 min	Proposed CEOS Way Forward with the Paris Declaration	<i>DISCUSSION</i>	Jörg <b>Schulz</b> , WGClimate Chair (EUMETSAT)
5.5	5:30 – 5:40 10 min	IPCC Engagement Update	<i>INFORMATION</i> <i>SIT TWS Action 2017-06</i>	Akiko <b>Suzuki</b> (JAXA)
5.6	5:40 – 6:00 20 min	Discussion – Way Forward on New Activities	<i>DISCUSSION</i>	<b>All</b>

## Adjourn

**7:00 pm: Hosted Reception at Carelli's Restaurant**

## Wednesday, 25 April 2018

*Strategic discussion, planning and linking of work, mapping to partnership priorities.*

*University Memorial Center Room: 235, 1669 Euclid Avenue Boulder, CO 80309*

### Recap

#	Time <i>Duration</i>	Topic		Presenter
	9:00 – 9:10 <i>10 min</i>	Synopsis from Day One	<i>INFORMATION</i>	Steve <b>Volz</b> , SIT Chair (NOAA)

### Session 6: Ad Hoc Teams

*Review progress and key issues being faced by CEOS Ad Hoc Teams (AHTs) and discussion on sustainability of the AHTs and plans for the future.*

#### **Key Questions:**

*What concrete steps can be taken in support of FDA activities? And how does this related to existing Work Plans? What is required to promote and systematically generate ARD?*

*What are the next steps for CEOS in supporting the advancement of the SDGs?*

*How does CEOS sustain and progress its commitments to GEO Flagships such as GFOI (via SDCG), and GEOGLAM (via the AHT)? What resources and actions are required?*

#	Time <i>Duration</i>	Topic		Presenter
<b>6.1</b>	9:10 – 9:30 <i>20 min</i>	Session Introduction – Review of Structure and Discussion of Sustained Approach to Future of AHTs	<i>INFORMATION</i>	Steve <b>Volz</b> , SIT Chair (NOAA) Mauro <b>Facchini</b> , CEOS Chair (COM)
<b>6.2</b>	9:30 – 9:45 <i>15 min</i>	FDA: <i>Ad Hoc</i> Team on Future Data Architectures – Take Stock of Progress on ARD	<i>INFORMATION</i>	Nicolaus <b>Hanowski</b> , FDA AHT Co-Lead (ESA)
<b>6.3</b>	9:45 – 10:00 <i>15 min</i>	SDG: <i>Ad Hoc</i> Team on Sustainable Development Goals – CEOS Actions Related to the SDG – CEOS Relation with all the UN Agencies – GEO Report on Engaging UNOOSA <i>SIT TWS Action 2017-21</i>	<i>DISCUSSION</i>	Alex <b>Held</b> , SDG AHT Co-Lead (CSIRO) Eric <b>Wood</b> , SDG AHT Co-Lead (USGS) Barb <b>Ryan</b> , GEO Secretariat Director
<b>6.4</b>	10:00 – 10:15 <i>15 min</i>	SDCG: <i>Ad Hoc</i> Space Data Coordination Group for the Global Forest Observations Initiative (SDCG for GFOI) – Resourcing Action Follow-up	<i>DISCUSSION</i>	Osamu <b>Ochiai</b> , GFOI Lead for CEOS (JAXA)



#	Time <i>Duration</i>	Topic	Presenter
6.5	10:15 – 10:25 <i>10 min</i>	GEOGLAM: <i>Ad Hoc</i> Working Group on the Group on Earth Observations (GEO) Global Agricultural Monitoring (GEOGLAM) Initiative	<i>INFORMATION</i> Brad <b>Doorn</b> , GEOGLAM AHT Co-Lead (NASA)
6.6	10:25 – 10:40 <i>15 min</i>	Discussion	<i>DISCUSSION</i> <b>All</b>

## **Coffee Break: 10:40 – 11:00, 20 minutes**

### **Session 7: Partnerships**

How should CEOS be developing its partnerships, in particular with CGMS, GEO, and GCOS, to advance and reinforce common interests.

#### **Key Questions:**

How does CEOS effectively and efficiently take its carbon actions forward?

Could GEO-LEO combined products be promoted within CGMS?

What is the joint CEOS-GCMS way forward on GHG monitoring?

How does CEOS support GEO and its various sub-entities? Are there improvements to be made in this support?

#	Time <i>Duration</i>	Topic	Presenter
7.1	11:00 – 11:10 <i>10 min</i>	Session Introduction – SIT Chair Objectives	<i>INFORMATION</i> Steve <b>Volz</b> , SIT Chair (NOAA)
7.2	11:10 – 11:30 <i>20 min</i>	Carbon – Review of GHG White Paper – Review Options for CEOS-CGMS Collaboration on GHG Monitoring – GEO Carbon Initiative	<i>DECISION</i> Mark <b>Dowell</b> , CEOS Chair Team (COM) David <b>Crisp</b> (NASA)
			<i>SIT TWS Action 2017-05</i> <i>SIT TWS Action 2017-08</i> <i>SIT TWS Action 2017-17</i> <i>SIT TWS Action 2017-18</i>
7.3	11:30 – 11:40 <i>10 min</i>	GCOS Update	<i>INFORMATION</i> Stephen <b>Briggs</b> , GCOS
7.4	11:40 – 11:55 <i>15 min</i>	GEO/LEO Combined Products – Potential Focus with CGMS – GEO Capabilities for Research	<i>INFORMATION</i> Dan <b>Lindsey</b> (NOAA)
	<b>11:57</b>	<b>Sentinel-3B Launch</b>	

#	Time <i>Duration</i>	Topic		Presenter
7.5	12:10 – 12:20 <i>10 min</i>	International Financial Institutions and Overseas Development Aid Action Item Closure	<i>DECISION</i>	<b>Stephen Coulson (ESA)*</b>
			<i>Plenary Action 31-03 Plenary Decision D-02 SIT TWS Action 2017-23</i>	
7.6	12:20 – 12:30 <i>10 min</i>	GEO Update	<i>INFORMATION</i>	<b>Barb Ryan, GEO Secretariat Director</b>
7.7	12:30 – 12:40 <i>10 min</i>	Support to GEO – CEOS Participation in GEO Entities (e.g., Programme Board and Subgroups, Executive Committee, Steering Committees)	<i>DECISION</i>	<b>Steven Hosford, CEO (ESA/CNES)</b>

**Lunch: 12:40 – 2:00, 80 minutes**

### **Session 7: Partnerships (continued)**

#	Time <i>Duration</i>	Topic		Presenter
7.8	2:00 – 2:30 <i>30 min</i>	Discussion – Potential CEOS-CGMS collaboration – Preparations for CGMS-46 (ARD, WGISS, Carbon, Joint GHG Proposal) – WMO Proposal for Climate Constellation – Ensure Mutual Benefit of Partnerships	<i>DISCUSSION</i>	<b>All</b>

### **Session 8: CEOS Plenary**

#	Time <i>Duration</i>	Topic		Presenter
8.1	2:30 – 2:40 <i>10 min</i>	Plenary Business Items – Endorsement of WGCapD Terms of Reference – Endorsement of WGClimate Terms of Reference – WGClimate Gap Analysis and Action Plan	<i>DECISION</i>	<b>Mauro Facchini, CEOS Chair (COM)</b>
8.2	2:40 – 3:00 <i>20 min</i>	Planning for CEOS Plenary – What Decisions to Need to be Brought to Plenary	<i>DISCUSSION</i>	<b>Steve Volz, SIT Chair (NOAA) Mauro Facchini, CEOS Chair (COM)</b>

### Session 9: Review of Main Points, AOB, CEOS Leadership, Closing

#	Time <i>Duration</i>	Topic		Presenter
9.1	3:00 – 3:20 <i>20 min</i>	Review and Discussion of Main Points <ul style="list-style-type: none"> <li>– Revisit of SIT Chair Strategic Directions and Partnerships</li> <li>– VC/WG Next Steps to TWS</li> <li>– Partnership Next Steps: Carbon, GEO/LEO</li> <li>– Supporting GEO Items Arising for Discussion</li> </ul>	<i>DISCUSSION</i>	Steve <b>Volz</b> , SIT Chair (NOAA) <b>All</b>
9.2	3:20 – 3:30 <i>10 min</i>	Any Other Business <ul style="list-style-type: none"> <li>– Agreed Agenda Additional Items</li> </ul>	<i>DISCUSSION</i>	<b>All</b>

**Coffee Break: 3:30 – 3:50, 20 minutes**

### Session 9: Review of Main Points, AOB, CEOS Leadership, Closing (continued)

#	Time <i>Duration</i>	Topic		Presenter
9.3	3:50 – 4:00 <i>10 min</i>	CEOS Leadership Status/Issues <ul style="list-style-type: none"> <li>– CEOS Chair</li> <li>– SIT Chair / Vice Chair</li> <li>– VCs</li> <li>– WGs</li> <li>– AHTs</li> </ul>	<i>DISCUSSION</i>	Steven <b>Hosford</b> , CEO (ESA/CNES)
9.4	4:00 – 4:10 <i>10 min</i>	Purpose and Objectives of Big Data Workshop	<i>INFORMATION</i>	Martin <b>Ditter</b> , CEOS Chair Team (COM)
9.5	4:10 – 4:20 <i>10 min</i>	Review of SIT-33 Actions	<i>DISCUSSION</i>	SIT Chair Secretariat
9.6	4:20 – 4:40 <i>20 min</i>	SIT Chair Closing Remarks <ul style="list-style-type: none"> <li>– Plans and Outlook for SIT Technical Workshop</li> </ul>	<i>INFORMATION</i>	Steve <b>Volz</b> , SIT Chair (NOAA)

**Adjourn**

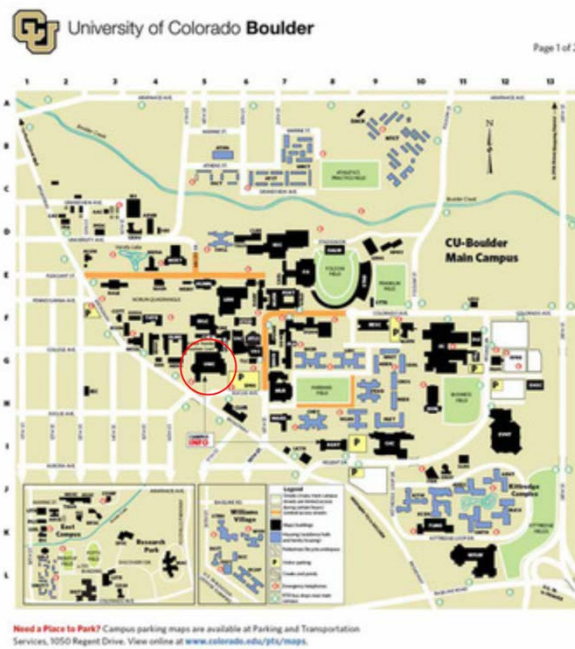
## Location

A logistics package can be downloaded from the SIT-33 website.

- SIT-33 website: [ceos.org/meetings/sit-33](https://ceos.org/meetings/sit-33)
- Logistics Information package: [click here](#).

SIT-33 will take place at:

University Memorial Center Room: 235  
1669 Euclid Avenue Boulder, CO 80309





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