

12th Meeting of the CEOS Virtual Constellation for Land Surface Imaging (LSI-VC) 8-9 September 2022 ESA/ESRIN, Frascati, Italy

For the first time since late 2019, the LSI-VC will once again meet in person at ESA/ESRIN in Frascati, Italy. A lot has changed in the past few years, with great progress made on CEOS Analysis-Ready Data in particular. LSI-VC-12 will serve as an opportunity to assess progress on all areas of work and chart the next steps for a variety of topics. Specific objectives of the meeting are detailed below.

Objectives

- 1. Reaffirm the high-level vision and objectives of the LSI-VC.
- 2. Consider endorsement of the following new CEOS-ARD for Land (CARD4L) Product Family Specifications (PFS):
 - a. Nighttime Lights Surface Radiance
 - b. Ocean Radar Backscatter
- 3. Confirm the PFS update process, drivers, requirements, cadence, versioning, and linkage to the template PFS work of the CEOS-ARD Oversight Group.
- 4. Discuss establishment of a broader team for CEOS-ARD assessments, for the purpose of redundancy. If endorsed, consider potential candidates and action a follow up with WGCV.
- 5. Discuss the need for, and specifics of, a CEOS Interoperability Framework. Refer to the <u>discussion</u> <u>paper</u> for details. Issue a recommendation from the LSI-VC perspective to CEOS leads, as input for the discussion at the 2022 SIT Technical Workshop.
- 6. Consider the latest on the CEOS Agriculture, Forestry and Other Land Use (AFOLU) Roadmap and LSI-VC's eventual response. Decide on mechanisms that need to be in place to effectively respond to these forthcoming requirements.
 - a. Discuss and agree any inputs that should be raised during the AFOLU Roadmap meeting on September 12.
- 7. Hear an update on GEOGLAM and the Essential Agricultural Variables (EAVs) and discuss how LSI-VC and CEOS Agencies can provide support. Formulate respective action items.
- 8. Discuss CEOS engagement with standards organisations. Refer to the <u>discussion paper</u> for details. Review and agree SIT Technical Workshop side meeting objectives as well as LSI-VC inputs to that discussion.
- 9. Hear updates on LSI-VC agencies' missions and datasets related to land surface imaging and analysis-ready data.
- 10. Review the <u>proposal for CEOS-ARD impact report/website</u> and brainstorm case studies and inputs. Identify contributors and set a deadline for initial outputs.
- 11. Discuss upcoming meetings of relevance and confirm CEOS representation and strategy for each.



Meeting Papers

- 4.1: Demonstrating the Value of CEOS-ARD Case Study Compendium
- 7.1: CEOS Interoperability Framework Discussion Paper
- 10.1: SIT TW 2022 Side Meeting on CEOS Engagement with Standards Organisations

Agenda

Thursday September 8

Session 1: Welcome and Introductions					
09:00	Welcome and Introductions Review of meeting objectives Roundtable of introductions	LSI-VC Leads			
09:15	Action Review	M. Steventon			
Session 2: CEOS-ARD for Land (CARD4L)					
09:30	New PFS: Nighttime Lights Surface Radiance Overview NASA Black Marble dataset and assessment Decision: endorsement of the new PFS	B. Killough			
09:50	New PFS: Ocean Radar Backscatter Overview Motivation and applications Decision: endorsement of the new PFS	C. Albinet			
10:10	 CARD4L Assessments Overview of progress and outlook <u>Discussion:</u> Increasing redundancy and speed for assessments <u>Decision:</u> potential candidates and action a follow up with WGCV 	M. Thankappan			
10:30	 PFS update process Drivers, requirements (terminology, consistency across PFS), cadence, versioning, and linkage to the template PFS work of the CEOS-ARD Oversight Group. Decision: confirm PFS update criteria and process. 	A. Siqueira			
	10:50 – Break (20 mins)				



Session 3: Agend	y Updates on Land Surface Imaging and Analysis-Ready Data			
11:10	JAXA	T. Tadono		
11:25	AEM	A. Guzman		
11:40	USGS	S. Labahn		
11:55	ESA	F. Gascon		
12:10	EC	P. Strobl		
12:25	GA	A. Siqueira		
12:40	NASA	M. Carroll		
12:55	NOAA	K. Gallo		
13:10	Buffer time			
13:20 – Lunch (40 mins)				
14:10	ISRO	Haripriya S.		
14:25	GISTDA	S. Moukomla		
Session 4: CEOS-ARD Impact Report / Website				
14:40	Proposal: Demonstrating the Value of CEOS-ARD — Case Study Compendium • Discussion paper • Mockup demonstration	M. Steventon		
14:55	<u>Discussion:</u> Brainstorm case studies and inputs for a CEOS-ARD impact report / website. Identify contributors and set a deadline for initial outputs.	All		
Session 5: Commercial (New Space) Engagement Strategy				
15:10	<u>Discussion:</u> Commercial (New Space) Engagement Strategy	S. Labahn / T. Stryker / A. Siqueira		
15:40 – Break (20 mins)				
16:00	 Additional discussion time Day 1 wrap-up Review of actions 	All		



17:00 – Adjourn

Friday September 9

Session 6: LSI-V	Session 6: LSI-VC Vision and Objectives				
09:00	Review Existing LSI-VC Direction, Tasks, Achievements Terms of Reference CEOS Work Plan CEOS-ARD Strategy v2.0	LSI-VC Leads & Sec			
09:15	 Forward LSI-VC Vision and Objectives <u>Discussion and decision:</u> Overall vision <u>Discussion and decision:</u> High-level objectives <u>Discussion and decision:</u> LSI-VC main threads of work <u>Decision:</u> Actions to update LSI-VC Terms of Reference and CEOS Work Plan tasks? 	LSI-VC Leads & Sec			
10:20 – Break (20 mins)					
Session 7: Interoperability Work Thread: CEOS Interoperability Framework					
10:40	Introduction: Proposed CEOS Land Surface Imaging Interoperability Framework • Discussion Paper	P. Strobl			
10:55	 Questions from the discussion paper Decision: Issue a recommendation from the LSI-VC perspective to CEOS leads, as input for the discussion at SIT Technical Workshop. 	All			
Session 8: Requirements Work Thread: Forests, Biomass, AFOLU Roadmap					
12:00	Forests & Biomass Subgroup Updates	F.M. Seifert			
12:15	AFOLU Roadmap Update	O. Ochiai or S. Ward			
12:30	 Discussion Future LSI-VC response to the AFOLU Roadmap Discuss LSI-VC mechanisms that need to be in place to effectively respond to these forthcoming requirements 	All			



 <u>Decision:</u> agree any inputs that should be raised during the AFOLU Roadmap meeting on September 12 GFOI Data Component: Terms of Reference and leadership 					
13:20 – Lunch (40 mins)					
Session 9: Requirements Work Thread: GEOGLAM and EAVs					
GEOGLAM Subgroup Updates Capacity development In situ Product validation workshop New operational activities	A. Whitcraft				
Essential Agricultural Variables (EAVs)	A. Whitcraft				
Discussion CEOS and LSI-VC response to the EAVs and any other GEOGLAM observation requirements Formulate respective action items	All				
15:00 – Break (10 mins)					
Session 10: CEOS Engagement with Standards Organisations					
 Discussion on CEOS Engagement with Standards Organisations Discussion paper Decision: Review and agree SIT Technical Workshop side meeting objectives as well as LSI-VC inputs to that discussion 	All				
Session 11: Closing					
Upcoming meetings of relevance • Decision: confirm CEOS representation and objectives	All				
Review of Actions	LSI-VC Sec				
Wrap-up, Meeting Adjournment	LSI-VC Leads				
17:00 – Adjourn					
	the AFOLU Roadmap meeting on September 12 GFOI Data Component: Terms of Reference and leadership 13:20 – Lunch (40 mins) Ements Work Thread: GEOGLAM and EAVs GEOGLAM Subgroup Updates Capacity development In situ Product validation workshop New operational activities Essential Agricultural Variables (EAVs) Discussion CEOS and LSI-VC response to the EAVs and any other GEOGLAM observation requirements Formulate respective action items 15:00 – Break (10 mins) Engagement with Standards Organisations Discussion on CEOS Engagement with Standards Organisations Discussion paper Decision: Review and agree SIT Technical Workshop side meeting objectives as well as LSI-VC inputs to that discussion g Upcoming meetings of relevance Decision: confirm CEOS representation and objectives Review of Actions Wrap-up, Meeting Adjournment				