



CEOS SIT Technical Workshop & Side Meetings 11th 14th September 2017 ESA/ESRIN, Frascati, Italy

The SIT Technical Workshop is intended to review CEOS progress against the CEOS 2017-2019 Work Plan, to prepare topics for CEOS 2017 Plenary, and consolidate CEOS contributions and reporting to major 2017 events and their key stakeholders.

Specific objectives of the 2017 SIT Technical Workshop, structured around expected outcomes from the CEOS 2017-2019 Work Plan (in particular those due in 2017), and actions from SIT-32 and the 30th CEOS Plenary, include:

- 1. Advancement of the CEOS Virtual Constellations (VCs) and Working Groups (WGs)
 - a. Consult with VCs and WGs, including a dedicated day (Tuesday 12th), and identify areas for coordination and cooperation within and between the groups.
 - b. Identify key issues for the VCs and WGs that require coordination prior to discussion and decision as an input to CEOS Plenary.
- 2. Revisit progress against the 2016-2017 CEOS SIT Chair term priorities, including:
 - a. Ensuring the successful advancement of ongoing CEOS commitments and deliverables, identifying and addressing issues and obstacles impacting each priority initiative;
 - b. Ensuring full access to, and exploitation of Copernicus Sentinel data;
 - c. Furthering develop, with the joint CEOS-CGMS WGClimate and through GCOS, the relationships with IPCC and UNFCCC required to support observation of climate indicators in support of the Paris Agreement;
 - d. Maintaining and improving effectiveness of our strategic partnerships, including with UN agencies, Development Banks, international programmes and agencies; the effective functioning of GEO, and CEOS within it, is a high priority in this; and,
 - e. Supporting the initiatives proposed by the CEOS Chairs in 2016 and 2017.
- 3. Review the proposed way forward recommended by the Future Data Architectures Ad-hoc Team (AHT), and provide guidance to the Co-Chairs.
- 4. Review the discussion from the first trial joint meeting between LSI-VC, SDCG, and the GEOGLAM at hoc Working Group.
- 5. Review and discuss a proposed way forward (incl. possible Plenary decision) on CEOS agency coordination in engaging the International Finance Institutions (IFIs).
- 6. Review progress and status across key thematic areas of the Expected Outcomes, and items due for decision or action at Plenary:
 - a. Climate Monitoring, Research, and Services (incl. WGClimate, COM CEOS Chair priority)
 - b. Carbon Observations (incl. CO_2/GHG observations, GFOI and SDCG, Carbon Strategy)

c. Observations for Agriculture (incl. GEOGLAM)

- d. Observations for Disasters (incl. WGDisasters, GEODARMA)
- e. Observations for Water (incl. COVERAGE, Blue Planet, GEOGLOWS)
- f. Capacity Building, Data Access, Availability and Quality (incl. WGCapD, WGISS, WGCV)
- 7. Support to Other Key Stakeholder Initiatives and Outreach to Key Stakeholders.
 - a. GEO-XIV Plenary
 - b. Reporting to COP-23
 - c. UN Sustainable Development Goals (SDG) process (incl. SDG AHT)
- 8. Discussion of CEOS organisational matters for coordination prior to the 2017 CEOS Plenary.
- 9. Identification of main discussion points, items for decision/disposition, and anticipated outcomes of Plenary.





Week at a Glance

Week of Monday 11th September 2017

Monday 11 th		Tuesday 12 th		Wednesday 13 th	Thursday 14 th
SDG	GEOGLAM	VC-WG Day (including Carbon Strategy Session)		SIT Tech Workshop	SIT Tech Workshop
	FDA AHT (internal)				
IFI So	IFI Session				
		CEOS SEC	Side Meetings		
		Welcome (Cocktail		
				Host Dinner	





Monday 11th September – Side Meetings

Morning Reception: 09:00 – 09:30, Old Reception

Coffee breaks: 10:30-11:00 and 15:30-16:00, Old Reception

Time	Meeting	Room	Point of Contact
09:30 - 13:00	SDG Side Meeting	Magellan	M Paganini, E Wood
10:00 - 11:00	MRI Internal Meeting	Room Cook	J Lacey, E Fosnight
11:00 - 12:00	GEOGLAM Side Meeting	Room Cook	B Doorn / S Cherchali
12:00 - 13:00	FDA AHT (internal meeting)	Room Cook	S Labahn
13:00 - 14:00	Lunch	ESRIN Cafeteria	
14:00 - 18:00	International Financing Institutions (IFI) Session	Magellan	SIT Chair







Tuesday 12th September – VC/WG Day, Magellan Room

NOTE: The VC/WG Day meeting attendance is by invitation only in an effort to keep the group size manageable and promote open discussion. Attendance should preferably be restricted to representatives of VCs and WGs, SIT Chair, Vice Chair and CEOS Chair team members, CEO and SEO. A small working room will be made available to the CEOS persons not participating in the VC/WG Day if required.

Morning Reception: 08:30 – 09:00, Old Reception

GoToMeeting connection: See appendix.				
Time*	Meeting	Point of Contact		
09:00 - 12:30	Magellan Room Session 1 – Water Moderators: S Neeck, S Chalifoux and P Chang/C Donlon (TBC) Coffee/Tea Break Session 2 – Extension of ARD concept to Atmosphere and Ocean Moderators: A Mitchell, J Lacey/A Lewis, A O'Carroll, and K Casey INVITATION ONLY	JL Fellous		
12:30 - 13:30	Lunch	ESRIN Cafeteria		
13:30 - 15:00	Magellan Room Session 3 – Climate/Carbon Moderators: M Dowell, P Lecomte/S Plummer, and D Crisp (TBC) INVITATION ONLY	JL Fellous		
15:15 - 16:15	CEOS SEC-227 (Magellan)	CEOS Chair		





16:15 - 18:00	Engagement with UNFCCC and IPCC Side Meeting (<i>Magellan</i>)	JAXA

Reception: Welcome cocktail at ESRIN

Antil Adopted





Wednesday 13 th September Workshop Day 1 Magellan Room			
08:30 – 09:00 Reception			
	Session 1	Workshop Opening	
	1: 09:00 – 09:20	 SIT Chair Introduction Review of Workshop objectives and adoption of agenda Continuity of SIT Chair themes <i>Tour de Table</i> 	S Briggs
	2: 09:20 – 09:35	 Incoming Themes for 2018 CO₂ [M Dowell] Laying the foundation the satellite component of an international CO2 and GHG emission monitoring system Data [M Ditter] Conclude the initial study of Future Data access and analysis Architectures (FDA) with recommendations for a "Generation 2020" of operational systems and their global interoperability. 	M Dowell, D Ditter
	Session 2	CEOS Chair Initiatives	
3:	09:35 - 09:55	FDA Objectives and Implementation Planning Review of vision and expected outcomes of FDA process; Implementation Plan and Plenary inputs [FOR DISCUSSION]	S Labahn, Nic Hanowski
4:	09:55 - 10:15	Moderate Resolution Interoperability Initiative A framework to be developed will be generally applicable and address factors including radiometry, geometry, data formats, browse information, metadata, data access, metrics and reporting for optical image data of 10-100m resolution. [FOR DISCUSSION] CEOS-WP: Section 3.8, Obj/Dev VC-29, VC-30	E Fosnight
5:	10:15 - 10:30	Analysis Ready Data Satellite data that have been processed to a minimum set of requirements and organized into a form that allows immediate analysis with a minimum of additional user effort, and interoperability both through time and with other datasets; [FOR ENDORSEMENT: CARD4L specification]	A Lewis/LSI-VC





CEOS-WP: Section 3.6, Obj/Dev FDA-7

6: 10:30 – 10:40	 CEOS and Open Data Cubes Update on the open source CEOS Data Cube and Open Data Cube initiatives; plans for 2018 release [FOR DISCUSSION] CEOS-WP: Section 3.6, Obj/Dev FDA-2 thu FDA-7 Status update Plans for 2018 release 	SEO/B Killough
10:40 - 11:00	Break and Photo	
Session 3	GEO and Related Thematic Areas	
7: 11:00 – 11:10	GEO Status Report Update on recent developments in GEO's top three focus areas: SDG, Climate, and Disasters [FOR DISCUSSION]	A Obregon
8: 11:10 – 11:20	GEO Programme Board Report Update and CEOS perspective on recent GEO Programme Board meeting [FOR DISCUSSION]	J Ross
9: 11:20 – 11:30	GEO Executive Committee Report Update from the CEOS rep on the GEO ExCom [FOR DISCUSSION]	S Briggs
10: 11:30 - 12:10	CEOS Water Coordination Overview of current CEOS Work Plan Water support; summary of water discussion during VC/WG day; relation to current GEO Water action [FOR DISCUSSION] GEOGLOWS development and expectations Discussion CEOS-WP: Section 3.5, Obj/Dev WAT-4, WAT-6; Section 3.9, Obj/Dev BP-1 thru BP-4	SIT Chair S Cherchali
11: 12:10 - 12:25	GEO Global Agricultural Monitoring Initiative (GEOGLAM) Report on CEOS support to GEOGLAM; future GEOGLAM satellite data requirements [FOR DISCUSSION] CEOS-WP: Section 3.3, AGRI-4, AGRI-8, AGRI-9	B Doorn
12: 12:25 – 12:45	GFOI and SDCG Update on CEOS support to GFOI including implications of	S Ward/CEOS Alternate





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		the CGMS) to be in position for a virtual approval by the beginning of October. [FOR DISCUSSION]	
19:	15:35 - 15:55	Space Agency Response to the GCOS IP Review of status and plans to finalise the Space Agency Response to the updated GCOS IP; outcomes of the WGClimate writing meeting held prior to TWS. [FOR DISCUSSION] CEOS-WP: Section 3.1, CMRS-19	P Lecomte
20:	15:55 - 16:15	SBSTA 47 and COP-23 Reporting Review of plans for Space Agency Report to SBSTA 47 and COP-23 [FOR DISCUSSION AND VIRTUAL ENDORSEMENT IN SEPTEMBER] CEOS-WP: Section 3.1, CMRS-19	P Lecomte, M Dowell
	16:15 - 16:30	Break	
	Session 5	VC/WG Updates	
21:	16:30 - 18:00	 Synthesis Report from VC/WG Day VC-WG Day outcomes (JL Fellous Specific Issues AC-VC: AQ/GHG constellation coordination; Unmet measurement goals; data access policies (J Al-saadi/B Veihelman and D Crisp) CEOS-WP: Section 3.8, VC-2, VC-3 SST-VC: Passive Microwave Radiometer Continuity (K Casey) OSVW-VC: Building a strong case for operation continuity (P Chang) CEOS-WP: Section 3.8, VC-14 Leadership changes and issues WGDisasters WGISS OST-VC Review of key issues for coordination before CEOS Plenary (JL Fellous) 	JL Fellous, Nominated Presenters TBC
	18:00	Adjourn	

Host dinner: La Collinetta <u>http://www.lacollinettaeventi.com/</u>





		Thursday 14th Septe Workshop Day 2 Magellan Room	ember	
		08:30 - 09:00	Reception	
		Session 6	Partnership Initiatives	
	22:	09:00 - 09:45	 SDG Ad Hoc Team Report Compendium progress report Stocktake of CEOS activities related to SDGs based on Agency inputs; draft to be presented at Plenary Draft Implementation Plan To be presented for approval at Plenary [FOR DISCUSSION] CEOS-WP: Section 3.9, Obj/Dev: SDG-1 	M Paganini, E Wood
	23:	09:45 - 10:30	Discussion on GEO/CEOS Engagement with International Financing Institutions (IFI) Engagement Presentation of IFI session outcomes from the Monday before TWS; review of the opportunity for both IFI and CEOS; potential Plenary recommendations and 2018 activities [FOR DISCUSSION]	SIT Chair
		10:30 - 10:45	Break	
		10.30 10.43		
		Session 7	SIT Chair Priorities	
	24:	10:45 - 11:30	 Review of 2016-2017 SIT Chair Outcomes Ensuring the successful advancement of ongoing CEOS commitments Ensuring Copernicus Sentinel data access and uptake Follow-up to the Paris Agreement Strategic partnerships 	SIT Chair
-		Y	 Supporting to CEOS Chair initiatives Ensuring coherence of CEOS and GEO actions 	
	25:	11:30 - 11:45	Incoming SIT Chair Priorities Presentation of 2018-2019 priorities from NOAA as incoming SIT Chair	SIT Vice Chair





	Session 8	CEOS Organisational Issues, Plenary, Workshop Closing
26:	11:45 - 12:00	Preparations for the 2017 CEOS PlenaryF KellyReview by CEOS Chair of the main agenda items andIogistical details for CEOS Plenary
27:	12:00 - 12:30	 CEOS Organisational Matters Future CEOS Chairs from Europe/Africa and Asian regions Future SIT Chair and Vice Chair CEO and Deputy CEO VC and WG leadership
28	12:30 - 13:00	Discussion on all points above
	13:00 - 14:15	Lunch
29:	14:15 – 15:15	Additional discussion time - For issues raised during the meeting that require further discussion or a revisit to resolve
30:	15:15 - 15:30	 Any Other Business Issues arising or raised during the meeting.
31:	15:30 - 15:45	Review of Actions from the SIT Technical SIT Chair Team Workshop for the 2017 CEOS Plenary
32:	15:45 - 16:00	SIT Chair Closing Remarks S Briggs
*	16:00	Adjourn





2017-2019 CEOS Work Plan – SIT Technical Workshop Agenda Item Cross Reference

Agenda Item	Торіс	WP Section	Objective/Deliverable
3	FDA	3.6	FDA-1 through FDA-7
4	MRI	3.8	VC-29, VC-30
5	ARD	3.6	FDA-7
6	FDA / Data Cubes	3.6	FDA-2 through FDA-5
10	Water	3.5	WAT-4, WAT-5
10	Water	3.9	BP-1 through BP-4
11	Agriculture (GEOGLAM)	3.3	AGRI-4, AGRI-8, AGRI-9
12	GFOI and SDCG	3.2	CARB-4, CARB-5
15-16	Carbon Strategy	3.2	CARB-12 through CARB-19
17	IPCC Guidelines	3.2	CARB-17
18	ECVs	3.1	CMRS-12
19	GCOS Response	3.1	CMRS-19
20	SBSTA/COP Reporting	3.1	CMRS-19
21	AC-VC AQ/GHG	3.8	VC-2, VC-3
21	OSVW continuity	3.8	VC-14
22	SDGs	3.9	SDG-1

CMRS: Climate Monitoring, Research, and Services	CARB: Carbon Observations, Including Forested Regions	AGRI: Observations for Agriculture	DIS: Observations for Disasters	WAT: Observations for Water
CMRS-12: Item 18	CARB-4: Item 12	AGRI-4: Item 11	DIS-10: -	WAT-3: Item 10
CMRS-13: -	CARB-5: Item 12	AGRI-8: Item 11	DIS-12: -	WAT-4: Item 10
CMRS-14: -	CARB-12: Item 16	AGRI-9: Item 11	DIS-13: -	WAT-6: -
CMRS-15: -	CARB-13: Item 16		DIS-15: -	
CMRS-16: -	CARB-14: Item 16	•		
CMRS-17: -	CARB-15: Item 16			
CMRS-19: Item 19, 20	CARB-16: Item 16	K V		
CMRS-20: -	CARB-17: Item 16, 17			
CMRS-21: -	CARB-18: Item 16			
	CARB-19: Item 16			

FDA: Future Data Architectures	CB: Capacity Building	DATA, CV: Data Access, Availability and Quality	VC: Advancement of the CEOS Virtual Constellations	SDG, BP,BON, POL: Support to Other Key Stakeholders OUT, ORG: Outreach and Organisational
FDA-1: Item 3	CB-4: -	DATA-2: -	VC-2: Item 21	SDG-1: Item 22
FDA-2: Item 3, 6	CB-10: -	DATA-8: -	VC-3: Item 21	BP-1: Item 10
FDA-3: Item 3, 6	CB-11: -	DATA-9: -	VC-9: -	BP-2: Item 10
FDA-4: Item 3, 6	СВ-12: -	DATA-10: -	VC-14: Item 21	BP-3: Item 10
FDA-5: Item 3, 6	СВ-13: -	DATA-11: -	VC-15: -	BP-4: Item 10
FDA-6: Item 3	CB-15: -	DATA-12: -	VC-17: -	BON-4: -
FDA-7: Item 3, 5	СВ-17:-	CV-1: -	VC-18: -	BON-5: -
	СВ-19: -	CV-3: -	VC-19: -	POL-1: -
	CB-20: -	CV-9: -	VC-26: -	OUT-1: -
	СВ-21: -	CV-13: -	VC-27: -	OUT-2: -
	СВ-22: -	CV-14: -	VC-29: Item 4	ORG-7: -
		CV-15: -	VC-30: Item 4	
		CV-16: -	VC-31: -	
			VC-32: -	
			VC-33: -	
			VC-34: -	





GoToMeeting Details

2017 SIT Technical Workshop – Applies VC/WG Day and Both Workshop Days Please join my meeting from your computer, tablet or smartphone. <u>https://global.gotomeeting.com/join/457299213</u>

You can also dial in using your phone. Access Code: 457-299-213Phone numbers Australia: $\pm 61.2.8355.1038$ Canada: $\pm 1.(647).497-9373$ France: $\pm 33.157.329.481$ Germany: $\pm 49.69.5880.7802.72$ Italy: $\pm 39.0.230.57.81.80$ Norway: $\pm 47.24.05.54.97$ Switzerland: $\pm 41.445.1124.85$ United Kingdom: $\pm 44.20.3713.5011$ United States: $\pm 1.(646).749-3117$

Joining from a video-conferencing room or system? Dial: 67.217.95.2##457299213 Cisco devices: <u>457299213@67.217.95.2</u>

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