

Week at a Glance

Monday 4th	AM: GFOI Early Warning Task Force PM: SDCG Early Warning
Tuesday 5th	AM: SDCG-12 PM: SDCG-12
Wednesday 6th	AM: Joint with LSI-VC and GEOGLAM PM: SDCG-12
Thursday 7th	AM: SDCG-12 PM: Joint with LSI-VC and GEOGLAM
Friday 8th	AM: Joint with LSI-VC and GEOGLAM PM: Travel

Logistics and Social

Monday - Friday	Please bring passport daily for access to ESRIN.
Monday - Friday	ESA shuttle bus leaves from Frascati (Piazza di Roma, close to the newspaper stand. It has usually an ESA sign behind the windscreen) 8:05, 8:30 and 9:05. 8:30 bus suggested for the meeting participants. Return buses at 17:20, 18:15 and 19:00. Priority will be given to ESA staff but if places are available also visitors can ride.
Wednesday - Friday	Dedicated joint meeting bus from Frascati to ESRIN - details TBA at meetings.
Wednesday PM	20:00 - Ara Anua (http://www.ristorantearaana.it/contact)

GoToMeeting SDCG MONDAY - TUESDAY

MONDAY-TUESDAY	BRIAN ACCOUNT (MONDAY - TUESDAY) https://global.gotomeeting.com/join/652404989 United States: +1 (646) 749-3129 Australia: +61 2 9087 3604 Austria: +43 1 2530 22520 Belgium: +32 28 93 7018 Canada: +1 (647) 497-9350 Denmark: +45 32 72 03 82 Finland: +358 923 17 0568 France: +33 170 950 594 Germany: +49 692 5736 7317 Ireland: +353 15 360 728 Italy: +39 0 230 57 81 42 Netherlands: +31 207 941 377 New Zealand: +64 9 280 6302 Norway: +47 21 93 37 51 Spain: +34 932 75 2004 Sweden: +46 853 527 827 Switzerland: +41 225 4599 78 United Kingdom: +44 330 221 0088 Access Code: 652-404-989 Audio PIN: Shown after joining the meeting Meeting ID: 652-404-989
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GoToMeeting SDCG WEEDSAY - THURSDAY

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Monday 4th September

GFOI Early Warning Task Force and SDCG

Location: ESA/ESRIN, Frascati, Italy

Meeting Room: Building 1, Room D



Arrival	30	13:00	13:30
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Monday's Objectives:

- GFOI Early Warning Task Force Meeting to take place Monday morning in the same room focused on user needs assessment (SDCG members welcome to attend, agenda maintained separately).
- Afternoon will be a follow-on to the morning meetings allowing SDCG to focus on the space data elements of a potential GFOI Alert proposal.
- What activities are already underway or planned within the different organisations?
- What scope we see for collaboration?
- Sketch out some objectives for a GFOI ALERT effort?
- Identify what resources people can bring to it?
- Establish roles going forward to mobilise this (like a task team)?

Session 1: SDCG Early Warning Support **Session Chair: S Ward**

Session 1 Objective:
6. Further develop concepts around Early Warning (e.g. GFOI ALERT) via a dedicated session.

#	Item	Presenter(s)	Duration	Start	End	Notes
1	Welcome and Introductions - Session objectives and background	S Ward	15	13:30	13:45	
2	Summary from of GFOI Early Warning Task Force AM session	A Rosenqvist or TF Rapporteur	15	13:45	14:00	
3	JJ-FAST overview	Masato Hayashi (JAXA)	20	14:00	14:20	Via GoToMeeting
4	INPE DETER (TBC)		10	14:20	14:30	
5	GFW and WRI Early Warning Activities	INPE (by A Rosenqvist) Rachael Petersen, Mikaela Weisse	20	14:30	14:50	
6	GOFC-GOLD heritage in EW activities	J Reiche	20	14:50	15:10	
7	Quick tour of space agencies present on heritage & interest in an EW collaboration through GFOI	All	20	15:10	15:30	
	Break		15	15:30	15:45	
8	Recap of GFOI ALERT discussions	S Ward	10	15:45	15:55	
9	Discussion on a viable GFOI activity, its components and the CEOS role and capacity <i>User Needs; Guidance; supporting R&D; demo; data possibilities</i>	All	30	15:55	16:25	
10	Data Cube Support to GFOI Early Warning Objectives	B Killough	10	16:25	16:35	
11	Closing Discussion - Next Steps and Way Forward	All	25	16:35	17:00	
	Adjourn			17:00		

ESA Staff bus to Frascati: 17:20, 18:15 and 19:00



Tuesday 5th September

Space Data Coordination Group for GFOI - SDCG-12



Location: ESA/ESRIN, Frascati, Italy

Meeting Room: Building 1, Room D

Registration / Arrival	30	8:45	9:15
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Tuesday's Objectives:
 - Tuesday will feature a review of the main threads of the SDCG 2017-2019 Work Plan around core data streams, space data services, and component coordination.

Session 2: Introduction Session Chair: S Ward

Session 2 Objectives:
 - Provide participants with a status update on GFOI and revisit the status of tasks and outcomes from the SDCG 3-Year (2017-2019) Work Plan across the four main work threads: baseline observations, GFOI Space Data Services, R&D, and GFOI Component Coordination and Country Engagement.
 2. Revisit the status of tasks and outcomes from the SDCG 3-Year (2017-2019) Work Plan across the four main work threads: baseline observations, GFOI Space Data Services, R&D, and GFOI Component Coordination and Country Engagement.

#	Item	Presenter(s)	Duration	Start	End	Notes
12	Welcome and Introductions - Agenda overview	FM Seifert	10	9:15	9:25	
13	GFOI Status Overview	S Ward	10	9:25	9:35	
14	2017-2019 Work Plan Outcomes Status Summary - SDCG-11 actions status	G Dyke	10	9:35	9:45	

Session 3: Baseline Global Observation Scenario Session Chair: FM Seifert

Session 3 Objectives:
 7. Review the implementation and status of the Global Baseline Strategy, and assess required updates.
 11. Revisit progress of the various data stream specific coordination actions (e.g. INPE, CONAE, CNES, JAXA, etc.)

#	Item	Presenter(s)	Duration	Start	End	Notes
15	Session Overview - Status Overview of 3-Year Work Plan Tasks and Outcomes	FM Seifert	5	9:45	9:50	
16	Core Mission Status: Landsat - Systematic global acquisitions and long-term archive - Support to GFOI requirements	E Fosnight	10	9:50	10:00	Core mission status presentations to SDCG should focus on GFOI requirements, whereas LSI-VC presentations should be institutionally focused.
17	Core Mission Status: Sentinel-1 and -2: - Systematic global Acquisitions and long-term archive - Copernicus Global Land Service (GLS) REDD+ service - Support to GFOI requirements - Sentinel ARD for CEOS Pilots	FM Seifert	20	10:00	10:20	Core mission status presentations to SDCG should focus on GFOI requirements, whereas LSI-VC presentations should be institutionally focused.
18	Core Dataset Status: ALOS-2 PALSAR-2 - Annual global 25m mosaics	A Rosenqvist	10	10:20	10:30	
19	Core Data Stream Status: SAOCOM	CONAE	10	10:30	10:40	Inputs being coordinated with CONAE.
20	COVE Report on CBERS-4 Coverage - Follow-up on letter to INPE	B Killough	10	10:40	10:50	
21	Discussion - Core data streams and data sets	All	25	10:50	11:15	
	Break		20	11:15	11:35	

Session 4: Space Data Services Session Chair: B Killough

Session 4 Objectives:
 Review and progress the implementation of the Space Data Services, including Data Cube pilots and outcomes.
 9. Review and progress the implementation of the Space Data Services, including the Data Cube and pilot efforts.

#	Item	Presenter(s)	Duration	Start	End	Notes
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22	Session Overview - Status Overview of 3-Year Work Plan Tasks and Outcomes	B Killough	10	11:35	11:45	
23	CEOS Data Cube - Overall status - Country pilots and new country interactions - COVE tool - new functionality	B Killough	45	11:45	12:30	
24	Discussion	All	15	12:30	12:45	
	Lunch		60	12:45	13:45	
25	ALOS-2 ScanSAR data provision	S Ward or A Rosenqvist	15	13:45	14:00	On behalf of Shinichi Sobue
26	Discussion - Space Data Services implementation and pilots - SEPAL-Space Data Services connection - SDCG feedback on Data Cube tools	All	30	14:00	14:30	
	Break		20	14:30	14:50	
Session 5: Data Coordination Topics		Session Chair: G Fosnight				
Session 5 Objectives:						
<i>Discussion of CEOS data coordination topics around how the space agencies should approach GFOI Phase 2, and how SDCG should approach the apparent harmonisation with other land cover topics within CEOS (e.g. with LSI-VC and GEOGLAM). Update on FAO activities.</i>						
<i>3. Confirmation of the role of the Space Data component for GFOI Phase 2.</i>						
<i>4. Discussion to clarify SDCG's position on and potential support to the Data User Advisory Group (DUAG).</i>						
<i>8. Discuss of the follow-up to the Global Data Flows study in a dedicated joint session with the CEOS land community.</i>						
27	Report from GFOI Leads and FAO - General GFOI Phase 2 Update (on behalf of Leads) - Data User Advisory Group (DUAG) - SEPAL - Other FAO activities	A Pekkarinen	40	14:50	15:30	Tom Harvey/GFOI Office to provide DUAG PPT to review, including criteria for a chair so SDCG could suggest names.
28	Discussion: Space Agency Approach to GFOI Phase 2 - Future USG involvement - Evolving role of data coordination - DUAG - Closure of SDCG SEC	S Ward Discussion Lead	40	15:30	16:10	
29	Prep Discussion for Joint meeting with LSI-VC and GEOGLAM - Objectives and topics - What to stress about Global Data Flows study	S Ward	30	16:10	16:40	
30	Closing Discussion	All	20	16:40	17:00	
	Adjourn			17:00		

ESA Staff bus to Frascati: 17:20, 18:15 and 19:00



Wednesday 6th September

Space Data Coordination Group for GFOI - SDCG-12



Location: ESA/ESRIN, Frascati, Italy

Meeting Room: Cook Room

Lunch	60	13:00	14:00			
Wednesday's Objectives:						
<ul style="list-style-type: none"> - Review SDCG support to the GFOI R&D component. - Discuss how to interact with CEOS Future Data Architectures (FDA) activity, Analysis Ready Data (ARD) efforts, Moderate Resolution Interoperability (MRI), and/or Harmonised Landsat-Sentinel (HLS) efforts. 						
Session 6: Element-3: Support to GFOI R&D						
Session Chair: A Rosenqvist						
Session 6 Objectives:						
<p>Discuss support to GFOI R&D component and their new Work Plan, interactions with GOFC-GOLD and research teams, and confirm agency plans for data supply in support of the Element 3 acquisition strategy. Consider, with the MGD component, the inclusion of a chapter on early warning in the MGD.</p> <p>5. Discuss current data supply and future support to GFOI R&D component and their new Work Plan, and update the status of agency plans for data supply in support of the Element 3 acquisition strategy.</p>						
#	Item	Presenter(s)	Duration	Start	End	Notes
31	Session Overview - Status Overview of 3-Year Work Plan Tasks and Outcomes - Element-3 document update summary - R&D group update on data provision status	A Rosenqvist	15	14:00	14:15	
32	Agency updates on data provision in support of the EI-3 strategy	ASI, CNES, CSA, DLR & JAXA agency reps	50	14:15	15:05	
33	Discussion - Futurewatch: NovaSAR, NISAR, BIOMASS updates - Implementation/actions - Next Steps	All	25	15:05	15:30	Stephen and Ake to update on 'Futurewatch' missions.
Break			20	15:30	15:50	
Session 7: CEOS Joint Topic - Detailed Discussion						
Session Chair: S Ward						
Session 7 Objective:						
<ul style="list-style-type: none"> - Discuss how to interact with CEOS Future Data Architectures (FDA) activity, Analysis Ready Data (ARD) efforts, Moderate Resolution Interoperability (MRI), and/or Harmonised Landsat-Sentinel (HLS) efforts. 						
#	Item	Presenter(s)	Duration	Start	End	Notes
34	Discussion - CEOS Future Data Architectures - Analysis Ready Data - Moderate Resolution Imagery - Harmonised Landsat-Sentinel	All	60	15:50	16:50	
Adjourn				16:50		

ESA Staff bus to Frascati: 17:20, 18:15 and 19:00

[Joint meeting bus: click here.](#)

Joint Meeting Dinner Ara Anua

20:00

<http://www.ristorantearaanua.it/contatti/>



Thursday 7th September

Space Data Coordination Group for GFOI - SDCG-12



Location: ESA/ESRIN, Frascati, Italy

Meeting Room: Cook Room

Registration / Arrival	30	8:45	9:15
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Thursday's Objectives:

- Thursday will be the closing session of SDCG-12, and a chance to take stock of the discussion through the first day of the joint meetings
- (Note: GD and BK in separate sessions)

Session 8: Review Joint Session Discussion

Session Chair: FM Seifert

Session 8 Objectives:

1. Take the opportunity to engage with the broader CEOS land surface community on a range of topics including analysis ready data, sensor interoperability, pilot activities, global data flows, future data architectures, and land surface imaging requirements.
10. Review the outcomes of the joint sessions and discuss potential plans for future joint CEOS thematic coordination meetings.

#	Item	Presenter(s)	Duration	Start	End	Notes
35	Discussion	All	90	9:15	10:45	Finalise SDCG-12 report to joint meeting, to be 15 minutes on Friday morning
	- Joint meeting topics of relevance					
	- Drafting of SDCG report to joint meeting					
	- SDCG views on future coordination in CEOS and with LSI-VC					
	- Implications for SDCG Work Plan 2018-2020					
	Break		15	10:45	11:00	

Session 9: SDCG-12 Closing Discussions

Session Chair: FM Seifert

Session 9 Objectives:

- Review SDCG-12 main conclusions and actions. Preparatory discussion for SIT Technical Workshop and CEOS Plenary.
12. Prepare required SDCG inputs for SIT Technical Workshop and CEOS Plenary.

36	Extra Discussion time	All	60	11:00	12:00	
37	Review of Main SDCG-12 Discussion Points and Outcomes	S Ward, All	15	12:00	12:15	
38	Future Meetings	All	15	12:15	12:30	
	- SDCG-13 and SDCG-14					
	- GFOI Plenary 2018					
39	Discussion	All	15	12:30	12:45	
	- SIT Technical Workshop Inputs					
	- CEOS Plenary Inputs					
40	Review of SDCG-12 Actions	S Ward, All	10	12:45	12:55	
41	Closing Remarks	FM Seifert	5	12:55	13:00	
	Adjourn / Lunch		60	13:00	14:00	

ESA Staff bus to Frascati: 17:20, 18:15 and 19:00

[Joint meeting bus: click here.](#)

Space Data Coordination Group Meeting (SDCG-12)

4th-8th September 2017, ESA/ESRIN, Frascati, Italy

Meeting Objectives

The SDCG-12 meeting will be structured around the outcomes and tasks defined in the **group's 3-Year (2017-2019) Work Plan**. SDCG-12 will be held jointly with two other CEOS groups (LSI-VC and the Ad Hoc Working Group on GEOGLAM), and will comprise both dedicated SDCG sessions, as well as sessions joint with the other groups to address issues of common interest. The following are the objectives for SDCG-12:

1. Take the opportunity to **engage with the broader CEOS land surface community** on a range of topics including analysis ready data, sensor interoperability, pilot activities, global data flows, future data architectures, and land surface imaging requirements.
2. Revisit the status of tasks and outcomes from the **SDCG 3-Year (2017-2019) Work Plan** across the four main work threads: baseline observations, GFOI Space Data Services, R&D, and GFOI Component Coordination and Country Engagement.
3. Confirmation of the role of the **Space Data component for GFOI Phase 2**.
4. Discussion to clarify SDCG's position on and potential support to the **Data User Advisory Group (DUAG)**.
5. Discuss current data supply and future support to **GFOI R&D component and their new Work Plan**, and update the status of agency plans for data supply in support of the Element 3 acquisition strategy.
6. Further develop concepts around **Early Warning (e.g. GFOI ALERT)** via a dedicated session.
7. Review the implementation and status of the **Global Baseline Strategy**, and assess required updates.
8. Discuss of the follow-up to the **Global Data Flows study** in a dedicated joint session with the CEOS land community.
9. Review and progress the **implementation of the Space Data Services**, including the Data Cube and pilot efforts.
10. Review the **outcomes of the joint sessions** and discuss potential plans for future joint CEOS thematic coordination meetings.
11. Revisit progress of the various **data stream specific coordination actions** (e.g. INPE, CONAE, CNES, JAXA, etc.)
12. Prepare required SDCG inputs for **SIT Technical Workshop and CEOS Plenary**.

SDCG 3-Year Work Plan Outcomes for 2017 - 2019

Baseline Global Data Acquisitions

#	Outcome	2017	2018	2019
1	Multiple annual global coverages by 2016 of the world's forested areas	Multiple global annual coverages of the world's forested areas from a suite of core mission sensors	Multiple global annual coverages of the world's forested areas by several core mission sensors	Multiple global annual coverages of the world's forested areas by several core mission sensors
2	Efficient and effective global flows of data	Implement processes and tools for efficient and effective global flows of data based on the 2016 study	Efficient and effective global flows of data for development of GFOI standard products	Efficient and effective global flows of data for development of GFOI standard products
3	Global coverage with consistent information products	Identify Space Agency and expert partner information product initiatives relevant to GFOI and MDG (e.g. ongoing evolution of the Landsat product roadmap towards Collections and surface reflectance, development of Sentinel-2 surface reflectance products)	Inclusion of GFOI requirements in agency data-related initiatives	Integrate flows of information products as they become available

GFOI Space Data Services

#	Outcome	2017	2018	2019
4	Space Data Services closely integrated with new MGD and SilvaCarbon activities	Continued definition of approach with FAO, World Bank, and SilvaCarbon on tools and service delivery and mainstreaming Establish integration of Space Data Services with the MGD Portal and MGD 2.0.	Implementation of service delivery in coordination with FAO, World Bank, and SilvaCarbon	Close integration with MGD and SilvaCarbon components, FAO and World Bank
5	A program of space data capacity building meetings	Further workshops at SDCC and SilvaCarbon events with country prioritisation defined by agreement with SilvaCarbon, FAO, and World Bank and endorsed by the GFOI Lead Team	Continued meetings with priority countries	Space data meetings including national space data needs assessments for all priority countries
6	Ensured on-going coverage	Archive characterisation support and on-going coverage support provided for countries attending 2017 meetings	Ensured on-going coverage for priority countries with semi-automated tools for archive characterisation	Ensured on-going coverage for priority countries with semi-automated tools for archive characterisation
7	Interoperable satellite data discovery tools	Implementation of interoperable data discovery tools including Landsat, Sentinel-1 and -2, CBERS	Interoperable satellite data discovery tools for all core data streams	Interoperable satellite data discovery tools for all core data streams
8	Assembly & delivery of core data streams	Assembly & delivery of core data streams emphasizing direct download	Assembly & delivery of core data streams emphasizing direct download	Assembly & delivery of core data streams emphasizing direct download

#	Outcome	2017	2018	2019
9	Integration of space data within the GFOI Methods and Guidance	Finalisation of methodology to derive GFOI standard products using space data and reflection in the MGD.	Integration of space data within the GFOI MGD Portal, including agreement on the derivation of GFOI standard products using space data	Integration of space data within the GFOI MGD Portal, including agreement on the derivation of GFOI standard products using space data
10	Conclude pilots investigating fundamental issues around the provision of cloud computing	Develop pilots investigating fundamental issues around the provision of cloud computing Identification of operational pathways Closer collaboration between SDCG and FAO on Data Cube and SEPAL 2.0	Conclude pilots investigating fundamental issues around the provision of cloud computing Transition of initial pilots to operations	Operational initiation of cloud computing instances and systematic transition and handover to operating partners
11	Creation of a model national GFOI cloud computing search, storage and processing system	Colombian national Data Cube project established Initiate within the ESA Forestry TEP a demonstration of a sub-national system for Mexico (late 2017)	Colombian Data Cube transitioned to operational ESA Forestry TEP demonstration of a sub-national system for Mexico underway (Autumn 2018)	Goal of model national systems building on the experience of the pilots with Data Cube and ESA TEP

Space Data Support to GFOI Research & Development (Element 3)

#	Outcome	2017	2018	2019
12	Development and updates of the Element-3 strategy document	Update(s) of the Element 3 strategy document as required, to reflect progress of the GFOI R&D Coordination Component, status of engagement of SDCC data stream providers.	Update(s) of document as required	Update(s) of document as required
13	Providing the satellite data required to progress the GFOI priority R&D topics	Coordinate contacts and communications between SDCC data stream providers and GFOI research groups. Acquisitions and distribution of satellite data	Acquisitions and distribution of satellite data	Acquisitions and distribution of satellite data
14	Maintain engagement with (public, hybrid, and commercial) data providers, through a management and accountability framework implemented in conjunction with an SDCC mechanism for brokering space data requests in support of GFOI R&D activities.	Promote engagement of interested commercial data providers. Assess data requests from potential new GFOI R&D teams. Consolidated reporting from the space agencies and the R&D teams and migration of successful R&D outcomes into the MGD.	Assess data requests from potential new GFOI R&D teams. Consolidated reporting from the space agencies and the R&D teams and migration of successful R&D outcomes into the MGD.	Assess data requests from potential new GFOI R&D teams. Consolidated reporting from the space agencies and the R&D teams and migration of successful R&D outcomes into the MGD.

GFOI Component Coordination and Country Engagement

#	Outcome	2017	2018	2019
15	Delivery of a coherent customer experience for GFOI countries	Coordinated plan for providing the most efficient provision of GFOI deliverables to countries – developed by the Space Data, MGD and Capacity Building Component Leads Develop at least two GFOI ‘end-to-end’ country engagement pilots involving all GFOI components	Effective coordination among GFOI Components for engaging and supporting follow-up with priority countries	Effective coordination among GFOI Components for engaging and supporting follow-up with priority countries
16	Space data support and services provided to all priority countries	FAO and SilvaCarbon will help define the priority countries for GFOI support and deliverables	As dictated by the country prioritisation above, in collaboration with FAO, World Bank, SilvaCarbon, and GFOI Lead Team	Capacity to provide space data support and services to all priority countries
17	Effective management of country interfaces	Development of simple Excel-based database for internal SDCG purposes Establish <i>modus operandi</i> in collaboration with FAO and GFOI Leads for country engagement	Transition to GFOI Office as appropriate	Effective management of country interfaces in coordination with FAO and SilvaCarbon via a country relationship database