

Space Data Coordination Group Meeting (SDCG-9)

22nd-26th February 2016, ESA/ESRIN, Frascati, Italy

Meeting Objectives

The SDCG-9 meeting will be structured around the outcomes and tasks defined in the **group's 3-Year (2015-2017) Work Plan**. It will be co-located with the 2016 GFOI Open Forum (<http://www.gfoi.org/2016-gfoi-plenary-and-open-forum/>), which will bring together the leadership, components, and key stakeholders of the GFOI community, and presents an opportunity for broad cooperation and coordination across all efforts. The following are the objectives for SDCG-9:

1. Take the opportunity of the whole of GFOI community meeting to **interact with GFOI leadership and the new Programme Office, across the components**, as well as with stakeholders such as **The World Bank**. Discuss the impact of the Paris Agreement on GFOI and its Space Data Coordination component.
2. Revisit the status of tasks and outcomes from the **SDCG 3-Year (2015-2017) Work Plan** across the four main work threads: baseline observations, GFOI Space Data Services, R&D, and GFOI Component Coordination and Country Engagement.
3. Confirm progress and evolution of the **Work Plan**, as well as the **evolution of the plan for 2016-2018**.
4. Review the implementation and status of the **Global Baseline Strategy**, and assess required updates to reflect new data streams.
5. Discussion of a mature draft of the **Global Data Flows Study**, and agreement of a plan for finalisation. Expose the results to the GFOI Open Forum and seek feedback and suggestions.
6. Review and progress the **implementation of the Space Data Services**, including the SDMS, SEPAL, and the Kenya and Colombian pilot Data Cube efforts. Launch the **Space Data Portal** and initiate feedback from user countries.
7. Discuss early outcomes and planning for 2016 from the new **GFOI R&D** governance arrangements, interactions with GOF-C-GOLD and research teams, and Element 3 acquisition strategy status and way forward.
8. Confirm progress towards **integration with the MGD**, including MGD 2.0 and the web portal.
9. Confirm status of interaction with **SilvaCarbon and FAO** on country interaction, and overall component coordination and support. Review the proposed coordinated component plans and outcomes for 2016-17 and confirm the SDCG role, and the plans for the related engagement of countries in particular.
10. Confirm **revisions to the SDCG 3-Year (2016-2018) Work Plan**.
11. During a **joint session with LSI-VC**, discuss common themes across the groups, e.g. including next generation data distribution architectures, and Analysis Ready Data.
12. Prepare **required SDCG inputs for CEOS SIT-31**.



Monday 22nd February
Space Data Coordination Group for GFOI - SDCG-9



Location: ESA/ESRIN
EXEC: Room G
Joint SDCG - LSI-VC: Magellan

SDCG EXEC Meeting (EXEC, SEC, and SEO only)		90	10:30	12:00		
Session 1: Joint Discussions between SDCG and LSI-VC			Session Chairs: LSI-VC Co-Chairs, SDCG EXEC			
Session 1 Objective:						
<i>11. During a joint session with LSI-VC, discuss common themes across the groups, e.g. including next generation data distribution architectures, and Analysis Ready Data.</i>						
#	Item	Presenter(s)	Duration	Start	End	Notes
	LSI-VC to furnish agenda		120	13:00	15:00	
	Break		30	15:00	15:30	
	LSI-VC to furnish agenda		120	15:30	17:30	
	Adjourn			17:30		

Icebreaker Social at ESRIN
 Bus to Frascati

60	17:30	18:30
	18:45	



Wednesday 24th February
Space Data Coordination Group for GFOI - Plenary



Location: ESA/ESRIN

Magellan

Space Data Component Presentation to Plenary

Accessing and Analysing Space Data 11:20-13:00

Objectives:

1. Promote awareness of the space data deliverables and support available through GFOI
2. Take the opportunity to solicit feedback and engage new stakeholders in reviewing and applying these deliverables
3. Promote increased cooperation among GFOI partners on information system efforts

#	Item	Presenter(s)	Duration	Start	End	Notes
1	Introduction and overview of the Space Data component heritage and outputs	S Briggs (ESA/ CEOS Lead for GFOI)	10	11:20	11:30	
2	Space Data Services and National Pilots	B Killough (NASA)	10	11:30	11:40	
3	Space Data Portal	S Ward (SDCG SEC)	5	11:40	11:45	
4	Future directions, inc. Global Data Flows	G Fosnight (USGS)	10	11:45	11:55	
5	Open Foris and SEPAL	A Pekkarinen	10	11:55	12:05	
6	ESA Forestry TEP	T Häme (VTT)	10	12:05	12:15	
7	Copernicus capabilities and requirements capture	J Yagüe (GMV)	10	12:15	12:25	
8	GFW: Cooperation with DigitalGlobe and Urthecast	F Stolle (WRI)	10	12:25	12:35	
9	Discussion		25	12:35	13:00	



Thursday 25th February

Space Data Coordination Group for GFOI - SDCG-9



Location: ESA/ESRIN

Meeting Room: Cook

Registration / Arrival	30	8:30	9:00
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Thursday's Objective:

1. Take the opportunity of the whole of GFOI community meeting to interact with GFOI leadership and the new Programme Office, across the components, as well as with stakeholders such as The World Bank. Discuss the impact of the Paris Agreement on GFOI and its Space Data Coordination component.

Session 2: GFOI Space Data Services

Session Chairs: B Killough

Session 2 Objective:

6. Review and progress the implementation of the Space Data Services, including the SDMS, SEPAL, and the Kenya and Colombian pilot Data Cube efforts. Launch the Space Data Portal and initiate feedback from user countries.

- Could be opened up for countries at the GFOI Open Forum and turned into an information system for them on the Space Data Services?
- Kenya (TBC) and/or Colombia (TBC) may be invited to present a summary of their Data Cube interactions - either in Session 5 or Session 6.

#	Item	Presenter(s)	Duration	Start	End	Notes
1	Session Overview	B Killough	10	9:00	9:10	
	- Status Overview of 3-Year Work Plan Tasks and Outcomes					
2	Pilot implementation of the Space Data Services	B Killough	20	9:10	9:30	
	- Data Cube and support to Kenya and Colombia					
	- Links to Global Data Flows					
	- Space Data Portal					
3	Space Data Services Discussion	All	60	9:30	10:30	
	Break		15	10:30	10:45	

Session 3: Baseline Global Observation Scenario

Session Chairs: FM Seifert, E Fosnight

Session 3 Objective:

- Review the implementation and status of the Global Baseline Strategy, and assess required updates to reflect new data streams.
- To discussion issues of mutual interest with the Sentinel Mission Managers.

#	Item	Presenter(s)	Duration	Start	End	Notes
4	SDCG-9 Meeting Introduction and Objectives	E Fosnight, FM Seifert	15	10:45	11:00	
	- Agenda overview					
5	Session Overview	E Fosnight	15	11:00	11:15	
	- Status Overview of 3-Year Work Plan Tasks and Outcomes					
	- Brief Landsat status update					
6	Session with Sentinel Mission Managers	J Roeder, B Hoersch	45	11:15	12:00	
	- Johannes Roeder (S-1 Planner)					
	- Bianca Hörsch (S-2 Mission Manager)					
7	Discussion	All	20	12:00	12:20	
8	CBERS-4 Update	D Valeriano	5	12:20	12:25	
9	ISRO Activities Related to Forest Monitoring	B Bhattacharya	5	12:25	12:30	
	Lunch		60	12:30	13:30	

Session 4: Global Data Flows Study

Session Chairs: E Fosnight

Session 4 Objective:

- 4. Review the implementation and status of the Global Baseline Strategy, and assess required updates to reflect new data streams.
- 5. Discussion of a mature draft of the Global Data Flows Study, and agreement of a plan for finalisation. Expose the results to the GFOI Open Forum and seek feedback and suggestions.
- 8. Confirm progress towards integration with the MGD, including MGD 2.0 and the web portal.
- This session will include a joint session with the MGD component.

#	Item	Presenter(s)	Duration	Start	End	Notes
10	Status of Global Data Flows Study	E Fosnight, FM Seifert	10	13:30	13:40	Joint with Carly 13:30-14:30
11	Joint Discussion with Carly Green / MGD component	All	50	13:40	14:30	
	- Brief discussion at the end on MDG Annex B (satellite information) updates and feedback					
12	Next Steps Towards Conclusion of Study	All	30	14:30	15:00	

Session 5: Space Data Country Outreach and Delivery

Session Chairs: S Ward, S Wilson

Session 5 Objective:

- Communicate GFOI Space Data offerings to other components and countries at the GFOI Open Forum.
- 90 minute session to be promoted to all GFOI Open Forum participants.

13	Session Overview	S Wilson	15	15:00	15:15	
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14	Space Data Strategy Overview - Baseline strategy, R&D support - Space Data Portal	S Ward	15	15:15	15:30	
	Break		15	15:30	15:45	
15	Space Data Services	B Killough	25	15:45	16:10	
16	Discussion on Space Data Needs - Country inputs	Moderator: - E Fosnight, FM Seifert	40	16:10	16:50	
Session 6: Capacity Building and Country Engagement			Session Chairs: S Wilson, S Ward			
Session 6 Objective:						
<p>9. Confirm status of interaction with SilvaCarbon and FAO on country interaction, and overall component coordination and support. Review the proposed coordinated component plans and outcomes for 2016-17 and confirm the SDCG role, and the plans for the related engagement of countries in particular.</p> <p>- This session will include a joint session with the Capacity Building component (TBC) and the GFOI Office (TBC), and is focused on the <i>GFOI Component Coordination and Country Engagement</i> work stream in the SDCG 3-Year Work Plan.</p> <p>- Objectives in the 3-Year Work Plan for this work stream include: delivery of a coherent customer experience for GFOI countries; space data support and services provided to all priority countries; and, effective management of country interfaces.</p> <p>- SilvaCarbon (TBC), FAO (TBC), and countries (TBC).</p>						
#	Item	Presenter(s)	Duration	Start	End	Notes
17	Session Overview - Status Overview of 3-Year Work Plan Tasks and Outcomes	S Wilson	10	16:50	17:00	
18	GFOI Office Update	T Harvey	10	17:00	17:10	
19	JAXA-JICA Collaboration	M Shimada	10	17:10	17:20	
20	Joint Discussion with Sylvia Wilson / CB component - GFOI Leads country engagement priorities	All (S Ward moderator)	15	17:20	17:35	
Session 7: Closing			Session Chairs: G Dyke			
#	Item	Presenter(s)	Duration	Start	End	Notes
21	Summary of Main Discussion Points and Closing Remarks	E Fosnight, FM Seifert	10	17:35	17:45	
	Adjourn			17:45		

SDCG Social Dinner in Frascati (TBA)

20:00



Friday 26th February Space Data Coordination Group for GFOI - SDCG-9



Location: ESA/ESRIN
Meeting Room: Cook

Registration / Arrival	30	8:30	9:00			
Friday's Objective:						
- Discuss SDCG support to GFOI R&D component - Focus on SDCG business						
Session 8: Support to GFOI R&D			Session Chairs: A Rosenqvist, N Fujimoto			
Session 8 Objective:						
7. Discuss early outcomes and planning for 2016 from the new GFOI R&D governance arrangements, interactions with GOFC-GOLD and research teams, and Element 3 acquisition strategy status and way forward. - This session will be joint with the GFOI R&D component.						
#	Item	Presenter(s)	Duration	Start	End	Notes
22	Session Overview - Status Overview of 3-Year Work Plan Tasks and Outcomes - Overall status of GFOI R&D Coordination and Resources - Data provision for GFOI R&D activities	A Rosenqvist, B Mora, N Fujimoto	15	9:00	9:15	
23	Agency Update since SDCG-8 - Summary of written input from agencies (DLR, CSA, ASI, JAXA, CNES) - TerraSAR - Pleiades imagery over the GFOI R&D sites - Congo Basin Initiative	A Rosenqvist	20	9:15	9:35	
24	Follow-up on SDCG-8 Data Supply from Commercial Providers Discussions	A Rosenqvist, B Mora	10	9:35	9:45	
25	Discussion - Data provision for GFOI R&D - Synchronized/coordinated AO's from SDCG Element 3 agencies - Next Steps	All	45	9:45	10:30	
Break			15	10:30	10:45	
Session 9: SDCG Business and SDCG-9 Wrap-Up Discussions			Session Chair: S Ward			
Session 9 Objective:						
2. Revisit the status of tasks and outcomes from the SDCG 3-Year (2015-2017) Work Plan across the four main work threads: baseline observations, GFOI Space Data Services, R&D, and GFOI Component Coordination and Country Engagement. 3. Confirm progress and evolution of the Work Plan, as well as the evolution of the plan for 2016-2018. 10. Confirm revisions to the SDCG 3-Year (2016-2018) Work Plan. 12. Prepare required SDCG inputs for CEOS SIT-31.						
#	Item	Presenter(s)	Duration	Start	End	Notes
26	Update to SDCG 3-Year Work Plan - Status of outcomes - Update for 2016-2018	G. Dyke	30	10:45	11:15	
27	SDCG Reporting to CEOS SIT-31	SDCG SEC	20	11:15	11:35	
28	SDCG-10 venue and timing proposal	SDCG SEC	15	11:35	11:50	
29	Outlook for SDCG SEC Funding	SDCG SEC	10	11:50	12:00	
30	Review of Actions	SDCG SEC	20	12:00	12:20	
31	Closing Remarks	E Fosnight, FM Seifert	10	12:20	12:30	
SDCG-9 Adjourn				12:30		
Lunch			75	12:30	13:45	
SDCG Exec meeting						
32	SDCG EXEC Meeting	SDCG EXEC, SEC, and SEO	90	13:45	15:15	
SDCG EXEC Adjourn				15:15		

SDCG 3-Year Work Plan Outcomes for 2015 - 2017

Baseline Global Data Acquisitions

#	Outcome	2015	2016	2017
1	Multiple annual global coverages by 2016 of the world's forested areas	Building to a total of 67 countries in line with the Global Baseline Data Acquisition Strategy Engage Sentinel-2A mission planners during the ramp-up phase	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
2	Efficient and effective global flows of data	Complete global data flow study in cooperation with USGS, ESA/EC and SDCG Exec	Implement processes and tools for efficient and effective global flows of data	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 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	2015	2016	2017
4	Space Data Services closely integrated with new MGD and SilvaCarbon activities	Definition of approach with FAO, World Bank, and SilvaCarbon on tools and service delivery and mainstreaming Establish integration of Space Data Services with new interactive MGD	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 SDCCG 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 2015 meetings	Archive characterisation support and on-going coverage support provided for countries attending 2016 meetings	Ensured on-going coverage for priority countries with semi-automated tools for archive characterisation
7	Interoperable satellite data discovery tools	Work with core data stream providers to define discovery tools required, and study archive interoperability challenges	Implementation of interoperable data discovery tools including Landsat, Sentinel-1 and -2, CBERS	Interoperable satellite data discovery tools for all core data streams
8	Assembly & delivery of core data streams	Work with priority countries to try and address their data assembly and delivery needs	Assembly & delivery of core data streams emphasizing direct download	Assembly & delivery of core data streams emphasizing direct download

#	Outcome	2015	2016	2017
9	Integration of space data within the GFOI Methods and Guidance	SDCG-7 discussion on interaction between MGD v2.0 and the SDCCG tools and services	Finalisation of methodology to derive GFOI standard products using space data and reflection in the MGD. Operational links to space data in MGD Portal	Integration of space data within the GFOI Methods and Guidance 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	Study strategic issues related to cloud computing-based MRV support Closer collaboration between SDCCG and FAO on SDMS Consideration of potential of GFW 2.0 and Data Cube approaches	Develop pilots investigating fundamental issues around the provision of cloud computing Further work on SDMS	Conclude pilots investigating fundamental issues around the provision of cloud computing
11	Creation of a model national GFOI cloud computing search, storage and processing system	Kenya national Data Cube project accelerated for COP-21 Initiate within the ESA Forestry TEP a demonstration of a sub-national system for Mexico	Kenya Data Cube and SDMS concluded ESA Forestry TEP demonstration of a sub-national system for Mexico underway	Goal of model national systems building on the experience of the pilots with Data Cube, SDMS and ESA TEP

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

#	Outcome	2015	2016	2017
12	Development and updates of the Element-3 strategy document	Finalise the Element 3 acquisition strategy in support of the GFOI R&D Plan. Penultimate draft by SDCG-7. Endorsement of final document at SIT-30	First update of the Element 3 strategy document to reflect progress of the GFOI R&D Component, status of engagement of SDCG data stream providers. To be completed prior to SIT-31 for endorsement.	Annual update of document as required
13	Providing the satellite data required to progress the GFOI priority R&D topics	Dedicated satellite data acquisitions over R&D Study Sites Distribution of data to the GFOI R&D Study teams	Coordinate contacts and communications between SDCG data stream providers and GFOI research groups Acquisitions and distribution of satellite data	Acquisitions and distribution of satellite data
14	Development of private sector engagement & SDCG mechanism for brokering space data requests in support of GFOI R&D activities	Development of a private sector cooperation strategy in the area of Space Data for GFOI R&D activities Development of an SDCG mechanism for brokering space data requests in support of GFOI R&D activities Commercial data provider information workshop in conjunction with SDCG-8	Implement private sector cooperation strategy in the area of Space Data for R&D activities Implement space data requests brokering system for SDCG and promote its use.	Implement private sector cooperation strategy in the area of Space Data for R&D activities Implement space data requests brokering system for SDCG and promote its use.

GFOI Component Coordination and Country Engagement

#	Outcome	2015	2016	2017
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	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 Lead Team 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