

# SCOPE-CM Status Report



**SCOPE • CM**

*Submitted to SEP08*  
*[SCOPE-CM-SEP08-02]*

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## **1 DOCUMENT CHANGE RECORD**

<i>Issue / Revision</i>	<i>Date</i>	<i>Changed Pages / Paragraphs</i>
0.1	15 February 2013	Initial draft version distributed to SEP members
0.2	21 February 2013	Updated draft after reception of 2 additional LoI, including information on outcome of CGMS-40

## **2 PURPOSE OF THIS DOCUMENT**

This document presents the status of the SCOPE-CM in preparation for the SEP 08 meeting scheduled for 22 February 2013. It summarises the status of agreed actions, the decisions taken by the SEP after the last meeting in written procedures and it captures the main developments in the reporting period.

### 3 ACTION REVIEW

#### 3.1 Actions from previous meetings with status “open” at SEP06 Munich, July 2012

Action Number	Actionee	Action	Proposed Status	Remarks
<b>ACTION-SEP-05-05</b>	GCOS representative	GCOS representative to request feedback from GCOS bodies on the diagram ACTION-SEP_05_03) as input to GCOS-107 update.	Open	
<b>ACTION-SEP-06-01</b>	Pilot Project 3	consolidate with potential users the need and the specific requirement for a GSA Level 3 product (in particular spatial and temporal composition)	OPEN	Statement of Pilot Project 3, that a SCM-Project in Phase 2 will include a consolidation of a Level 3 products including interaction with potential users on their needs and specific requirements.
<b>ACTION-SEP-06-04</b>	Secretariat	The Secretariat to request the specific input from the Pilot Project Chairs to an updated SoN and to compile the updated document. Once consolidated, the new SoN version shall be submitted to GSICS via the Research Working Group Chair	OPEN	Although SCOPE-CM interaction at GSICS workshop in Oslo, no updated SoN document generated. Secretariat propose to target the next formal SoN after the establishment of the first SCM-Projects.

#### 3.2 Actions from SEP07

Action Number	Actionee	Action	Proposed Status	Remarks
<b>ACTION-SEP-07-01</b>	Secretariat	Secretariat to ensure that SCM Projects proposals document their dependencies and distributed responsibilities in form of high level data flow diagrams. Due date: issue of SCM-Project proposal call.	Open	Provision of related information requested in the project call. However, structured information (in diagramme) form to be iterated with the SCM-Project consortium after SEP assessment

Action Number	Actionee	Action	Proposed Status	Remarks
<b>ACTION-SEP-07-02</b>	Pilot Project 2 leader (CM SAF)	CM SAF to take a lead to develop a SCM-project proposal on SSM/I and SSMIS FCDR, integrating the CM SAF, CDR-Programme and X-CAL activities.	Open	No related Lol submitted
<b>ACTION-SEP-07-03</b>	Pilot Project 3 leader (EUMETSAT)	Pilot Project Leader (EUMETSAT) to provide the update on the JMA processing status information in the SEP 07 Pilot Project Progress report.	Closed	SEP07 Pilot Project Progress Report updated accordingly.
<b>ACTION SEP-07-04</b>	Secretariat and SEP chair	generate a close-out document on the achievements of SCOPE-CM Phase 1 in relation to its original objectives (IP 1.3) and the accomplishments of the Pilot Projects. The draft will be iterated also with the Pilot Projects. The final version will be submitted to the SEP for adoption.	Open	
<b>ACTION SEP-07-05</b>	Secretariat	Secretariat to collect links to the SCOPE-CM Pilot Project activities in order to be able to promote the achievements (e.g. presentations and web pages).	Open	Planned to be done in the context of the SCOPE-CM web page update.
<b>ACTION SEP-07-06</b>	Secretariat with GSICS	Secretariat with GSICS (Tim) to organise a joint meeting after review of proposals, to inform GSICS community and to address common issue.	Open	To be done after Lol assessment by SEP.
<b>ACTION SEP-07-07</b>	SEP members	SEP members to review the new Implementation Plan draft and to provide comments and suggestions.	Closed	
<b>ACTION SEP-07-08</b>	Secretariat and SEP chair	Secretariat and SEP chair to provide final draft version of the Implementation Plan to SEP for endorsement.	Closed	
<b>ACTION SEP-07-09</b>	Secretariat	Secretariat to issue a call for SCM-Project proposals (with submission deadline January 2013), containing a proposal template and the maturity matrix model. 30 September 2012.	Closed	

Action Number	Actionee	Action	Proposed Status	Remarks
<b>ACTION SEP-07-10</b>	Secretariat	Secretariat to organise the proposal evaluation by the SEP.	Closed	
<b>ACTION SEP-07-11</b>	Secretariat with WMO SP	Secretariat with WMO SP (Stephan) to update the WMO Space Programme and CGMS web pages on SCOPE-CM.	Closed	
<b>ACTION SEP-07-12</b>	WMO SP	Stephan Bojinski to present SCOPE-CM, and the call for Phase-2 projects at the IPWG Meeting in Brazil, 15-19 October 2012.	Closed	Done, with invitation to IPWG members to respond to the SCM-project call 2013.
<b>ACTION SEP-07-13</b>	Secretariat	Secretariat to develop slides on the new SCOPE-CM concept (1-slide, 3-slides, 10-slides version) to be used at different occasions/Presentations	Open	1 slide version available
<b>ACTION SEP-07-14</b>	SEP chair	SEP chair to check with Mark Dowell (Co-Chair, CEOS WGC) on organising a SEP meeting potentially back to back with the CEOS WG/Climate session and/or a meeting of the Task Team for the Architecture for Climate Monitoring from Space in Spring 2013.	Closed	SEP08 organised in the context of the Climate from Space Week

#### 4 EVENTS AND ACTIVITIES AFTER THE LAST SEP MEETING

The following activities and events after the SEP07 meeting are reported:

- September 2012: Lothar Schüller gave a SCOPE-CM presentation at the 2012 GSICS user workshop during the EUMETSAT Conference in Sopot, Poland. GSICS community invited to contribute to SCOPE-CM.
- November 2012: CGMS-40 (5-8 November 2012, Lugano, Switzerland) discussed SCOPE-CM matters and agreed on a High-Level Priority Plan 2013-2017<sup>1</sup>. In particular, the Plan features as one top-level priority for CGMS to “Enhance the quality of satellite-derived data and products”, which includes as high priority tasks:
  - Establish commonality in the derivation of satellite products for global users where appropriate (e.g., through sharing of prototype algorithms);

<sup>1</sup> <http://www.cgms-info.org/docs/general-publications/cgms-high-level-priority-plan-2013-2017.pdf?sfvrsn=0>

- Foster the continuous improvement of products through validation and inter-comparison **through international working groups and SCOPE-type mechanisms;**
- Develop, and start implementing, methods to describe the error characteristics of satellite data and products;

Another top-level priority (5.1) in the High Level Plan “Advancing the architecture for climate monitoring from space” includes as high priority tasks:

- Extend the use of the Global Space-based Inter-Calibration System (GSICS) **and the Sustained Co-Ordinated Processing of Environmental satellite data for Climate Monitoring (SCOPE-CM) frameworks;**
- Analyse long term data sets for specific climate relevant phenomena to demonstrate their impact on climate applications;
- Establish priorities of multi decadal ECV products (including ECVs addressed by the International Science Working Groups) and contribute to creation of key FCDR that provide the basis for many ECVs;

This reflects the importance CGMS attaches to generating and sustaining ECV data records under the SCOPE-CM umbrella.

Furthermore, CGMS-40 agreed on the following Action:

- Action 40.05: “WGII to identify in consultation with the ISWGs the priority ECV climate data records and communicate these priorities to the SCOPE-CM Secretariat for consideration in the call for proposal of January 2013.”

*Action taken:*

- *Call issued by SCOPE-CM Secretariat (3 Dec 2012), indicating a priority on the ECV precipitation, otherwise with a general request to generate CDRs in support of ECVs;*
- *Letter sent by WMO (6 Dec 2012) to co-chairs of ITWG, IPWG, IWWG, IROWG, encouraging response to Call.*

The session also agreed on the following Recommendation:

- Recommendation 40.09: “EUMETSAT to continue to provide secretariat support to the SCOPE-CM initiative.”
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- 22 November 2012: Updated SCOPE-CM Implementation Plan finalised and approved by SEP (see decisions taken). This
  - 23 November 2012: Finalisation of the SEP07 Meeting minutes (see decisions taken)
  - 3 December 2012: Call for Letters of Intent for SCM Projects issued.
  - 31 January 2013: Deadline for LoI submission. A number of 10 Letters received. Details see section X6.

## 5 DECISIONS TAKEN BY SEP IN WRITTEN PROCEDURE

The following decisions have been taken after the SEP07 meeting by email. They will be captured in the meeting minutes of SEP08.

**Decision 01:** *SEP approved the SCOPE-CM Implementation Plan Version 1.0 dated 22 November 2012.*

**Decision 02:** *SEP approved the SEP 07 meeting minutes Version 1.1 dated 23 November 2012.*

**Decision 03:** *SEP approved the text for the “Call for letter of intent for SCM Projects” 3 December 2012.*

## 6 SUBMITTED LETTERS OF INTENT FOR SCM-PROJECTS

As per 14 February 2013, eight Letters of Intent were submitted to the SCOPE-CM Secretariat.

In addition the SCOPE-CM Secretariat has received requests for clarifications and expression of interests: Although no precipitation related SCM project has been proposed for the time being, several groups are currently discussing a potential contribution (e.g. GPCP). Principle interest was also expressed by the GEWEX SRB project and the NASA/JPL Evapotranspiration group.

The following table provides an overview of the proposed SCM Projects for which the Secretariat received a letter of intent. The table identifies the Leader (Principle Investigator), the involved SCOPE-CM organisations and other partners. The ID was assign in the order of reception.

The Letters itself are available through the SCOPE-CM Extranet at EUMETSAT.

ID	Title	Leader	SCOPE-CM Partners	other partners
SCM-01	Sustained generations of upper tropospheric humidity Climate Data Records from multiple sensors with multi-agency cooperation	Lei Shi (NOAA)	NOAA EUMETSAT (CM SAF)	Kiruna University, NCAR, University of Miami
SCM-02	Multiplatform surface albedo demonstrator from polar-orbiting satellites	Terhikki Manninen (EUMETSAT CM SAF)	EUMETSAT (CM SAF and CF) NOAA	University of Massachusetts
SCM-03	Land surface albedo from geostationary satellites (LAGS)	Alessio Lattanzio (EUMETSAT CF)	NOAA JMA	-

ID	Title	Leader	SCOPE-CM Partners	other partners
SCM-04	Utility of Satellite derived winds for Monsoon and Cyclone studies over Indian region	Suman Goyal (Indian Meteorological Departement)	[EUMETSAT]	Indian Meterological Departement
SCM-05	Advancing the status of the AVHRR FCDR	Karl-Göran Karlsson (EUMETSAT CM SAF)	EUMETSAT (CM SAF) NOAA	ESA CCI
SCM-06	Inter-calibration of passive imager observations from time-series of geo stationary satellites (IOGEO)	Rob Roebeling (EUMETSAT CF)	EUMETSAT (CF and CM SAF) NOAA JMA	-
SCM-07	Liquid Water Path and Rain Water Path Climatologies in the GPM era	Ralf Bennartz (NOAA, CIMSS)	NOAA (CIMSS, CIRA) EUMETSAT(CM-SAF)	-
SCM-08	Radio occultation based gridded climate data sets (RO-CLIM)	Axel von Engeln (EUMETSAT)	EUMETSAT (CF and ROM SAF)	GFZ NASA JPL Moog UCAR University of Graz
SCM-09	Sustained production of the International Satellite Cloud Climatology Project (ISCCP) cloud products	Kenneth Knapp (NOAA)	JMA CMA EUMETSAT	INPE NY City College
SCM-10	Atmospheric Motion Vectors (AMV) and Clear/All Sky Radiances (CSR/ASR) from historical meteorological satellites in geostationary and polar orbit	Yoshihiko Tahara (JMA)	JMA (MSC+CPD) EUMETSAT (CF) NOAA (NCDC)	-

## 7 STATUS OF SCOPE-CM WEB PAGE DEVELOPMENT AT EUMETSAT

EUMETSAT as SCOPE-CM Secretariat offered to set up a web site and a collaboration tool for SCOPE-CM, capitalising on the systems already developed for the CGMS Secretariat, which is also hosted at EUMETSAT.

In November 2011, a Project in EUMETSAT Enterprise Information Management Division with the SCOPE-CM Secretariat was kicked off, with the understanding, that this project would have lower priority in relation to the major Web development of the new EUMETSAT



Web pages and the support of the EUMETSAT Satellite launch campaigns. The first phase however could be accomplished with the consolidation of System Requirements Specifications.

In parallel, the graphical design elements for the Web page are currently developed on basis of the SCOPE-CM logo and style guide that was provided to SEP06 in 2011.

The project resumed in February 2013 and the development started and the launch of the new web pages is expected for the next months.

## **8 CONCLUSION**

The SCOPE-CM Executive Panel is invited to take note of the SCOPE-CM Status Report.