

PLENARY CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS-44 Plenary actions							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS space agencies	C.1	A44.01	Vision for the WIGOS space-based component in 2040: CGMS operators are invited to provide comments on draft v0.2 of the Vision for the WIGOS space-based components in 2040, to sbojinski@wmo.int, by 8 July 2016.	CGMS-44 WMO-WP-01: http://www.eumetsat.int/website/wcm/idc/idcplg?IdcService=GET_FILE&RevisionSelectionMethod=LatestReleased&Rendition=Web&dDocName=CWPT_1666 <i>EUM, NOAA feedback provided to WMO July 2016</i>	8 Jul 2016	CLOSED	1.1
CMA, JMA, KMA	C.2	A44.02	CGMS operators to publicise the rapid scan capabilities of current and future geostationary satellite among the user community in RA II and V, and build the necessary capacity (on the occasion of 7th AOMSUC).	<i>Closed following discussions and presentations at the AOMSUC-7 and 4th RA II WIGOS coordination group meeting</i>	30 Oct 2016	CLOSED	1.1
CGMS members	C.6	A44.03	On NWP and impact on forecasting skills: (Ref. CGMS-44 WMO-WP-04) CGMS Members to formulate their requests (if any) for additional impact assessment work and transmit them to the WMO Secretariat (Iriishojgaard@eumetsat.int).	NOAA provided feedback to WMO on 2 Nov 2016	30 Oct 2016	CLOSED	1.1.2
WMO	C.6	A44.04	On NWP and impact on forecasting skills: WMO to brief CGMS-45 on the Final Report from the Sixth WMO Impact Workshop, with a particular focus on those recommendations that are directed to the CGMS Members and CGMS Working Groups.	Report will be provided at CGMS-45 under plenary agenda C.2: CGMS-45 WMO-WP-02 Next impact workshop will take place in 2020.	CGMS-45	CLOSED	1.1.2

PLENARY CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

IOC-UNESCO	C.8	A44.05	IOC-UNESCO to provide guidance to CGMS on ocean surface wave observations at CGMS 45.	<i>Agenda item foreseen in CGMS-45 plenary in the user session.</i>	CGMS-45	CLOSED	1.1.6
CGMSSEC	C.8	A44.06	On sea ice: Consistent with the discussions held at CGMS-44, CGMS Secretariat to liaise with CEOS SIT Chair on the suggestion that CEOS develop a Virtual Constellation for Sea Ice - following its established process for this purpose, and in coordination with the activities of the WMO PSTG. An initial discussion will be held at 2016 CEOS SIT Technical Workshop (September 2016).	<i>23 Feb 2017: CEOS SIT Chair letter of 28 Nov 2016 to WMO PSTG was circulated in February 2017 by CGMSSEC closing the action. It was considered by the WMO PSTG that it currently addresses the needs sufficiently.</i> <i>The issue was then discussed among CEOS Agencies at the SIT Technical Workshop in September 2016 and at CEOS Plenary in November. It was agreed at the 2016 CEOS SIT Technical Workshop on 14th-15th September 2016 in Oxford, UK that the WMO Polar Space Task Group (PSTG) covers polar sea-ice observations well, but that an increase in SAR observation coordination may be of benefit.</i>	01-Sep-16	CLOSED	1.1.6

PLENARY CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

				<p>CEOS considered that the PSTG represented a competent body for the coordination of polar space observations and that the creation of a Virtual Constellation or similar body within CEOS to conduct the same function would be an unnecessary duplication. The view was that indeed the PSTG was already functioning very well in this task, that no further body was necessary and the PSTG was reconfirmed as the primary body for this work.</p> <p>A significant number of PSTG Space Agency Members are represented on the Committee of Earth Observing Satellites (CEOS). Since there is no other group responsible for coordinating satellite observations in the polar regions and cryosphere, and in order to encourage information flow, PSTG periodically will continue to periodically submit reports to the CEOS Strategic Implementation Team (SIT) meetings.</p>			
CGMSSEC	C.8	A44.07	CGMSSEC to write a letter on behalf of CGMS to Japan recommending that JAXA consider continuing the GCOM-W series in particular in support of precipitation and sea-ice measurements.	<i>CGMSSEC letter (CGMS/LET/16/862312 of 29 June 2016) circulated to L-CGMS on 11 July 2016. Action will be closed once CGMS-44 report is published.</i>	30-Jun-16	CLOSED	1.1.6
CMA, EUM, ISRO, ROSH	E.2.1	A44.08	On IODC (ref. WGIV/3.3): CGMS agencies in the IODC region (CMA, EUMETSAT, ISRO, ROSHYDROMET) to support the distribution of essential data to IODC users via their existing dissemination methods (CMACast, EUMETCast, GTS, Internet, etc).	<i>Originating from WGIV and endorsed by CGMS-44 plenary on 9 June 2016.</i>	CGMS-45	CLOSED	1.1.6

PLENARY CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMSSEC EUMETSAT CMA, ISRO, ROSH	E.3.3	A44.09	On IODC: CGMSSEC with EUMETSAT to coordinate with CMA, ISRO and ROSH and update the table on IODC essential data and products (essential as per WMO Res. 40)	<i>CGMSSEC letter EUM/CGMS/LET/16/861620 of 29 June 2016. Circulated to WGIII on 20 June and to L-CGMS on 22 Aug 2016.</i>	15-Jun-16	CLOSED	1.1.6
CGMSSEC EUMETSAT (CMA, ISRO, ROSH)	E.3.3	A44.10	On IODC: CGMSSEC EUMETSAT to prepare a letter (on behalf of EUM, CMA, ISRO and ROSH) to WMO confirming the baseline for the future multi-partner IODC service essential data and product baseline.	<i>CGMSSEC letter EUM/CGMS/LET/16/861620 of 29 June 2016. Circulated to WGIII on 20 June and to L-CGMS on 22 Aug 2016.</i>	31-Jul-16	CLOSED	1.1.6
IWWG	E.5.4	A44.11	On IWWG matters: IWWG to develop a detailed plan for the 3rd wind intercomparison, including concept and deliverables, and an estimate of the required resources.	The preparation of the intercomparison study is concluded. Ref. CGMS-45 IWWG-WP-01/01.ppt and -02.ppt	CGMS-45	CLOSED	3.2.1
ICWG	E.5.4	A44.12	On ICWG matters: ICWG to develop a detailed plan for the cloud intercomparison activity, including concept, deliverables, and an estimate of the required resources.	CGMS-45: Discussed in and transferred to WGII and therefore closed for plenary. CGMS-45 ICWG-WP-01/01.ppt The intercomparison studies are ongoing. 10 min sampling from GEO sensors by GOES-16 is under discussion. Both items will be discussed at the ICWG-2.	CGMS-45	CLOSED	3.2.3

PLENARY CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMSSEC	G.2	A44.13	<p>On carbon observation programmes: Consistent with the discussions held at CGMS-44, CGMS Secretariat to request CEOS SIT Chair to organise a discussion at the CEOS SIT Technical Workshop (September 2016) on developing a suitable mechanism involving both CGMS and CEOS agencies to review how planned carbon observation missions might be better coordinated in response to the GCOS Implementation Plan and to develop a coherent contribution to the WMO Vision for WIGOS 2040.</p>	<p>CGMS-45: Closed following discussions at CGMS-45 and plenary session G.</p> <p>Dedicated carbon sessions will be held between WGII/WGIII as well as in plenary at CGMS-45.</p> <p>CGMSSEC plans a carbon observation session for CGMS-45 plenary to this purpose covering the overall mapping of the various activities within the CEOS ACC, CGMS, Copernicus Task Forces A&B, noting the GCOS IP and corresponding response as well as WIGOS 2040.</p> <p>Discussions took place at CEOS SIT Sept 2016: It was agreed that the ACC-VC should be the basis for the CEOS response, with a formal and open invitation for participation extended to interested additional CGMS participants, and it should be pursued in conjunction with the climate workshop 2017.</p>	Sep-16	CLOSED	
CGMSSEC	G.2	A44.14	<p>On carbon observation programmes: CGMS Secretariat to include a standing agenda item on carbon observation programmes at future CGMS plenary sessions.</p>	<p>Agenda item foreseen in CGMS-45 plenary as well as a joint WGII/WGIII session.</p>	CGMS-45	CLOSED	

PLENARY CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

JWG CLIM (CGMS members)	H.3	A44.15	On GCOS Implementation Plan: CGMS - through the CEOS-CGMS JWG Climate (pascal.lecomte@esa.int, joerg.schulz@eumetsat.int) - to contribute to the public review of the draft GCOS Implementation Plan (http://www.wmo.int/pages/prog/gcos/)	GCOS IP is now finalised and has been endorsed by the GCOS Committee. (Input provided by NOAA 6 Sep 2016)	25 July-5 Sept 2016	CLOSED	5.1
JWG CLIM (CGMS members)	I.1	A44.16	On training/VLab: For the scoping of training activities on climate datasets: CGMS - through CEOS-CGMS JWG Climate - to inform the VLab TSO (luveeck@gmail.com) about access to the ECV inventory once available.	Will be made publicly available (close to the CGMS-45 meeting). Inventory is published and available (June 2017). See CGMS-45 JWGCLIM-WP-01.	CGMS-45	CLOSED	5.1
CGMS-44 Plenary Recommendations							
"Actionee"	AGN item	Rec #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
KMA, KARI, CMA, CNSA, JMA, JAXA	C.2	R44.01	On disaster risk reduction: The "Jakarta Declaration" recommends to CGMS that the satellite operators provide the necessary support to the Joint RA II/V WIGOS project on Satellite Data. The declaration encourages the satellite operators of the Republic of Korea, China, and Japan to make digital data at the full resolution available to all Members involved in the "Satellite Data project" and to support the project in any way they can.	CGMS-45: The recommendation is included in the RA II WIGOS implementation plan 2017-2020, and since several cgms actions and recommendations cover similar purposes it was agreed to close the recommendation at plenary level of CGMS at this point in time. JMA leads an effort defining a protocol for event-driven rapid scanning Himawari-8, in collaboration with BOM Australia contributing to the efforts.	CGMS-45	CLOSED	1.1

PLENARY CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

IOC-UNESCO, CGMS members	C.7	R44.02	<p>On Second International Indian Ocean Expedition (IIOE-2) for enhanced data acquisition and management: It was recommended to establish a working alliance between the IIOE-2 and the remote sensing community (CGMS) within/through the IIOE-2 Steering Committee framework and/or the IIOE-2 Joint Project Office.</p>	There was no feedback by CGMS-45 and the recommendation remains open.	CGMS-45	OPEN	2.5
CGMS agencies	C.8	R44.03	CGMS agencies to promote sustainability of satellite passive microwave sea ice measurements begun in 1978.	<p>Closed on the occasion of CGMS-45: This will be referenced in the JWG CLIM action plan (ECV Inventory and Gap Analysis)</p> <p>Following the Gap Analysis, it is expected that the following actions/recommendations will arise:</p> <ul style="list-style-type: none"> • promote sustainability of satellite passive microwave sea ice measurements, • promote the implementation of sustained satellite scatterometer sea ice observations, • promote sustainability of satellite frequent high-spatial marginal ice zone measurements, • promote the implementation of sustained satellite measurements of Arctic Ocean sea ice thickness 	Long term	CLOSED	1.1.6

PLENARY CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS agencies	C.8	R44.04	CGMS agencies to promote the implementation of sustained satellite scatterometer sea ice observations with scatterometer to provide an independent source of information concerning climate change impacts on the marine cryosphere.	Closed on the occasion of CGMS-45: This will be referenced in the JWG CLIM action plan (ECV Inventory and Gap Analysis)	Long term	CLOSED	5.1
CGMS agencies	C.8	R44.05	CGMS agencies to promote sustainability of satellite frequent high--spatial marginal ice zone measurements for navigation and other near--real time applications.	Closed on the occasion of CGMS-45 since it is addressed by agencies in the Int'l Ice Charting Working Group, and in PSTG. PSTG reports to WG II.	Long term	CLOSED	1.1
CGMS agencies	C.8	R44.06	CGMS agencies to promote the implementation of sustained satellite measurements of Arctic Ocean sea ice thickness.	Closed on the occasion of CGMS-45: This will be referenced in the JWG CLIM action plan (ECV Inventory and Gap Analysis)	Long term	CLOSED	1.1
CMA, EUM, NOAA	F.1	R44.07	The GEONETCast operators to actively follow-up the commitment made at the side event at the GEO Mexico City summit.	CMA, EUM and NOAA reconfirmed their contributions to GEONETCAST on the occasion of the GEO Plenary in St Petersburg in Nov 2016		CLOSED	

PLENARY CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS members	G.1.3	R44.08	<p>On SCOPE-NWC: CGMS members to continue to support SCOPE-Nowcasting and its transition to preoperational phase, in particular to financially support the finalisation of the satellite-based volcanic ash retrieval algorithm intercomparison activity (Pilot Project 2) over the next 12-18 months. (Ref. CGMS-44-WMO-WP-15).</p>	<p>CLOSED on the occasion of CGMS-45</p> <p>NOAA funds Mike Pavlonis for continued development of the GOES-R VolAsh product. Steve Goodman and Mike Pavlonis appointed to SCOPE Nowcasting Executive Panel).</p> <p>EUMETSAT has earmarked resources to financially support completion of the volcanic ash algorithm intercomparison in 2018.</p> <p>WMO has identified resources to engage consultant for 2.5 months FTE to support SCOPE-Nowcasting.</p>	30 Dec 2017	CLOSED	3.2.4
CGMS members	I.1	R44.09	<p>On training/VLab: CGMS members are invited to share product information, dissemination information and training resources with the CoEs in Kenya, South Africa, Russian Federation, China, and Oman, and with users, to support VLab training activities in the Indian Ocean region.</p>	<p>Closed on the occasion of CGMS-45.</p> <p>CoEs will remind CGMS members of this Recommendation in the preparation phase for these training activities</p>	Long term	CLOSED	4.2.1

PLENARY CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS members	I.1	R44.10	<p>On training/VLab: CGMS operators to make available training resources in all official languages as defined by the satellite operator’s charter. Translation of training resources should be considered as a continuous, ongoing effort. Satellite operators without multiple official languages should consider coordinating the translation of their training resources through in-kind contributions by user institutions.</p>	<p>Closed on the occasion of CGMS-45. (Will reach out to VLab community to seek comments) NOAA funds COMET and cooperates with WMO RA III and IV NMHSs and universities in developing Spanish and Portuguese translations for the first 7 GOES-R Foundational Training modules. These will be updated with in-orbit GOES-16 data. Additional translations possible over the next 18 months including new Application Training Modules.</p>	Long term	CLOSED	4.2.1
CGMS members	I.1	R44.11	<p>On training/VLab: CGMS to join efforts with VLab to investigate ways to fund the continuation of the Project “Conceptual Models for the Southern Hemisphere” (CM4SH) and also extend the initiative to prepare case studies related to the new generation of satellites.</p>	<p>Closed on the occasion of CGMS-45. (Will reach out to VLab community to seek comments)</p>	Long term	CLOSED	4.2

WORKING GROUP I CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

WGI actions open from previous plenary sessions (at CGMS-44)							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
WMO	WGI/6	A43.06	WMO to assess the impact of improved data latency from polar orbiters on NWP (WMO Impact Workshops) and other applications	Next WMO workshop will take place in May 2016 (China), hence there might be a verbal/preliminary report only to CGMS-44.	(CGMS-44) New deadline CGMS-46	OPEN	1.1.2
CGMS-44 WGI actions							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
SFCG liaison officer (EUM)	WGI/2	A44.01	SFCG liaison officer to bring to SFCG/WMO the possibility of migrating the SFCG Remote Sensing Disaster Database (RSDD) into OSCAR from the following perspectives: <ul style="list-style-type: none"> • Identify the level of overlap between the two databases; • Possibility for WMO to introduce, and maintain, the delta elements of the SFCG RSDD into OSCAR; • Level of support of SFCG members to migrate the SFCG RSDD into OSCAR or preference to retain a separate database; • Arguments for retaining a stand-alone SFCG RSDD, if any. 	CGMS-45 EUM-WP-24	CGMS-45	CLOSED	1.3
SFCG liaison officer (EUM)	WGI/2	A44.02	SFCG liaison officer to provide a report to WGI on the outcome of SFCG by Q3 2016 (as part of the CGMS-45 WPs)	CGMS-45 EUM-WP-24	30 Sep 2016	CLOSED	1.3.3
SFCG liaison officer (EUM)	WGI/2	A44.03	SFCG liaison officer to propose to SFCG that SFCG members will report yearly to SFCG on national regulatory changes/issue in their countries (e.g. to repurpose spectrum currently in use or planned for use by meteorological satellites (both active and passive spectrum bands)).	CGMS-45 EUM-WP-24	CGMS-45	CLOSED	1.3.3
SFCG liaison officer (EUM)	WGI/2	A44.04	SFCG liaison officer to report to CGMS WGI as a permanent section of his yearly SFCG outcome report to WGI updates (relevant) on proposed regulatory changes to repurpose spectrum currently in use or planned for use by meteorological satellites (both active and passive spectrum bands).	CGMS-45 EUM-WP-24	CGMS-45	CLOSED	1.3.3

WORKING GROUP I CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS space agencies	WGI/2	A44.05	CGMS agencies to provide prior to CGMS 45 a report on the space weather activities (including spacecraft and instruments) of relevance on Freq Management and freq protection topics	CGMSSEC to request SWTT representative to provide a paper to WGI to this purpose (and present it in WGI). SWTT informed by e-mail 7 April 2017. Agency reports on Frequency topics to include a dedicated chapter on space weather. CGMS-45 NOAA-WP-04	(Feb 2017) CGMS-46	OPEN	1.3
CGMSSEC	WGI/5	A44.06	CGMS Secretariat to distribute to CGMS members (PoC for SATCOM Forum at least) the questionnaire on IDCS (included in EUM-WP-06) end June 2016	<i>EUMETSAT (Sean Burns) circulated an e-mail to NOAA, ISRO, CMA JMA and ROSHYDROMET on 7 June 2016</i>	30-Jun-16	CLOSED	1.2.1
CGMS space agencies	WGI/5	A44.07	CGMS agencies to reply (end of August) to the questionnaire and to confirm attendees to the splinter meeting on IDCS during the next SATCOM Forum (Sept 2016 in Madrid)	<i>NOAA (Kay Metcalf (GOES DCS) and Scott Rogerson (Argos DCS) attended SATCOM Forum in Madrid; and presented on their programs) and JMA have provided an input to EUMETSAT. To be discussed at the SATCOM Forum itself.</i>	31-Aug-16	CLOSED	1.2.1
CGMS space agencies	WGI/6.1	A44.08	CGMS agencies with satellites with DB and RO occultation sensors to assess the technical feasibility of a RARS/DBNet RO occultation service in support of the Space Weather community.	<i>Deadline extended following CGMS-45 discussions.</i> CGMSSEC to request IROWG representative to provide a paper to WGI to this purpose (and present it in WGI) NOAA does not have any ability to use RARS for RO data	(CGMS-45) CGMS-46	OPEN	1.4
CGMS space agencies	WGI	A44.09	From CGMS-44 WGII: CGMS operators and WMO to work with GODEX-NWP to explore options for optimal data exchange of advanced data from next-gen GEOs	<i>Deadline extended following CGMS-45 discussions.</i> <i>As a member, NOAA agrees that the GODEX-NWP group would be an excellent source of information on the planned types of next-gen GEO data to be disseminated and methods of data dissemination between the international NWP modeling centers. The GODEX-NWP group is also at the forefront of RARS endeavors.</i>	(CGMS-45) CGMS-46	OPEN	
CGMS-44 WGI Recommendations							
"Actionee	AGN item	Rec #	Description	Action feedback/closing document	Deadline	Status	HLPP ref

WORKING GROUP I CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

WMO	WGI/6	R43.03	WMO DBNET Coordination Group to report annually to CGMS WG-I on status and progress	Discussed at WGI webex session 21 Oct 2015 (best practice proposal). WMO DBNet presentation to be circulated to WGI (NOAA, EUM, CMA and ROSH in particular - LEO satellites with direct broadcast) CGMS-44 WMO-WP-10	(CGMS-44) New deadline CGMS-45	CLOSED	1.4.4
CGMS space agencies	WGI/2	R44.01	CGMS agencies to inform their Freq Managers on the space weather activities to ensure the necessary protection and coordination at Freq management level	NOAA has informed their spectrum managers on space weather activities. They are actively working to identify spectrum for the SWFO as well as coordinating with other SMs on COSMIC-2 in preparation for launch. NOAA SM are also engaged in WRC Agenda Item 2.3 "relating to the technical and operational characteristics, spectrum requirements and appropriate radio service designations for space weather sensors"	Long term	OPEN	1.3
CGMS space agencies	WGI/5	R44.02	All CGMS DCS operators to consider making all DCP messages available in the GTS.	CGMS-45 CMA-WP-xx CGMS-45 EUM-WP-xx CGMS-45 ISRO-WP-xx CGMS-45 JMA-WP-xx NOAA currently does this CGMS-45 NOAA-WP-xx CGMS-45 ROSH-WP-xx	Long term	OPEN	1.2
CGMS space agencies	WGI	R44.03	From CGMS-44 WGII: Agencies to explore the possibilities to develop suitable processing packages to support a direct broadcast implementation of RO processing, within the DBNet to improve timeliness for space weather applications	NOAA: Detailed instructions for installing and running the AAPP and FY-3 software packages in a Docker image were prepared by the University of Wisconsin CIMSS/SSEC and shared with the DBNet Coordination Group. More widespread dissemination of software packages in this mode is dependent on approval from the agencies creating the software (NWP SAF for AAPP, NSMC/CMA for FY-3) since they require each user of the software to register. The CSPP LEO and GEO teams at CIMSS/SSEC have investigated using Docker for distribution of CSPP, and while it is technically feasible, there has not been a strong use case identified at this time. The actual discussions and solutions would come out of the WMO DBNET effort.	Long term	OPEN	5.2

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

WGII actions open from previous plenary sessions (at CGMS-44)							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
CMA, EUM, JMA, NASA, NOAA, WMO	WGII/3	A42.02	The new task team on calibration events logging to identify a common set of parameters to be monitored as part of the calibration events logging and sensor performance monitoring.	<p><i>CGMS-45 EUM-WP-33</i></p> <p><i>It was suggested to integrate the activity into GSICS and was therefore closed.</i></p> <p><i>NOAA has an extensive list of parameters monitored for JPSS and GOES-16. NOAA will share that information to develop best practices.</i></p> <p>Nov 2016: EUM to report by end 2016 on the way forward</p> <p>CGMS-44: Delays incurred - new deadline proposed. EUMETSAT to check status.</p> <p>Nov 2015: Co-chair R Roebing, drafting white paper to be circulated within ICWG by end 2015 in preparation of CGMS-44. To be included in the GSICS paper following the new WGII agenda (possibly EUMETSAT's paper - TBD).</p> <p>1st step: Template for calibration event landing pages presented at GDAWG in March 2015. New version of OSCAR/Space allows for identification of individual instruments and thus linking to calibration event test pages, test mode of new version of OSCAR/Space continuing until 1 month before CGMS 42.</p>	(CGMS-43) New deadline: CGMS-45	CLOSED	3.1

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

				CGMS-43 EUM-WP-10 CGMS-43-JMA-WP-03 (Section 2.4) NOAA: Work ongoing as a part of the GSICS work plan. Next steps are gathering information and agreeing on common terminology. New deadline following CGMS-43 WGII discussions.			
KMA	WGII/4	A42.03	KMA is invited to present a paper of different sources of soil moisture retrieval on their NWP forecasts	<i>New deadline following CGMS-44 WGII discussions - KMA NWP centre have not yet concluded analyses. KMA has no plans. Ken and Dohyeong to follow up.</i> CGMS-43-KMA-WP-04: Test use of Metop-B/ASCAT on their global NWP system.	(CGMS-43) New deadline: CGMS-45	CLOSED	-
CGMS space agencies	WGII/3	A43.01	Calibration events logging task team to prepare a white paper outlining the set of parameters, the nomenclature, and the standards to be used for reporting on instrument calibration across space agencies.	<i>CGMS-44: Work in progress, new deadline proposed. See Action 42.02</i> <i>NOAA is participating through GSICS. NOAA has a list of parameters it uses to monitor instrument performance.</i> Nov '2015: Part of/related to CGMS-42 action 42.02. CGMS-45 EUM-WP-33	(CGMS-44) New deadline CGMS-45	CLOSED	3.1

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

ROSH	WGII/3	A43.03	<p>Roshydromet to present an update on Meteor-M N2 data access, processing packages, and results of an intercomparison of the IKFS-2 with other hyperspectral sounders (IASI, AIRS, CrIS), to CGMS-44.</p>	<p><i>CGMS-44: No progress reported at CGMS-44 - proposed new deadline.</i></p> <p>EUM has received Meteor-M N2 sample data of the MTVZA-GY Imaging/Sounding Microwave Radiometer (29 channels) and dissemination through EUMETCast is expected in Q1 2016 pending EUM Council approval in Dec 2015. mtg. ROSH will deliver a L1 pre-processing software to EUMETSAT early 2016.</p> <p>Nov 2015: ECMWF has looked at microwave instruments which were reported on at the recent ITSC. ITWG and CGMS welcomes the sharing of data by ROSH, and further collaboration is expected. CGMS-45 ROSC-WP-03</p>	(CGMS-44) New deadline CGMS-45	CLOSED	1.4.5
CGMS space agencies	WGII/3	A43.04	<p>CGMS operators to provide a report on their approach on cal/val, including information on dedicated campaigns and permanent sites, and potential support to cal/val infrastructure, in order to maximize benefits of satellite missions.</p>	<p><i>3 agencies responded (JMA; NOAA; NASA); keep open as action for CGMS-45 for remaining agencies.</i></p> <p>Nov 2015: Feedback is expected as part of the general agency report or in a dedicated WP for the proposed new WGII agenda item 4 (CGMS-44 WG II item 8). CGMS-45 ROSHYDROMET-WP-02, KMA-WP-04</p>	(CGMS-44) New deadline CGMS-45	CLOSED	-

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS space agencies	WGII/3	A43.05	CGMS operators to report on their specific plans for reprocessing and associated user requirements (such information would be useful for the ISWGs).	<i>Keep open as action for CGMS-45 for remaining agencies.</i> Item 8 - NASA, and NOAA responded (WP-09) CGMS-45: No WPs Action on IPWG to document activities	(CGMS-44) New deadline CGMS-45	CLOSED	5.1
CMA	(Plenary F.1.5.3) for WGII	A43.11	From CGMS-43 plenary: IROWG encouraged CMA to provide NRT GNOS data on the GTS, and CMA agreed to investigate this further	<i>Nov 2016: CMA is trying to change the data format of GNOS to buffer format. The work will be finished in the beginning of 2017.</i> <i>Oct 2016: WGII IS#1 - no progress - ask CMA directly.</i> <i>Jun 2016: CGMSSEC recommends this to be discussed in WGII and reported to plenary through WGII</i> CGMS-45: To date, CMA focussed on generating an operational processor; data exchange to follow (CMA-WP-07)	(CGMS-44) New deadline CGMS-45	CLOSED	1.1.4
CGMS-44 WGII actions							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
SCOPE-CM Executive Panel	WGII/4	A44.01	SCOPE-CM should review its IP, Terms of Reference, and prepare for the next phase including a possible call for proposals.	Action taken at Sep 2016 11th meeting of SCOPE-CM executive panel CGMS-45 EUM-WP-47	CGMS-45	CLOSED	5.1

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS space agencies	WGII/4	A44.02	CGMS members to submit data to the ICWG intercomparison: full-disk data at 10 minute temporal resolution, 2 km spatial resolution in the native AHI projection is preferred. The data should be submitted by 1 September 2016.	ICWG plans underway (see above Action); communicate new Golden Day(s) to CGMS members as soon as decided. NOAA provided this data. CGMS-45: remains open since some submissions missing or forthcoming	New deadline: ?? (1 Sept 2016)	OPEN	3.2.3
IPWG, IMD	WGII/4	A44.03	IPWG Rapporteur to liaise with IMD (AK Sharma) on the development of precipitation validation sites over India.	Nov 2016: <i>Dr. S.K.Peshin, Head(SatMet)/Scientist-G sunil.peshin@gmail.com (replaces A K Sharma, retired)</i> Contact made at IPWG-8 (Raj Ramasenkaran, KJ Ramesh); WMO request letter to IMD needed to pursue; new focal point to be conveyed by IMD; CGMS-45: Contact established	CGMS-45	CLOSED	3.3.1
GSICS members, GSICS EP	WGII/4	A44.04	GSICS to review the GDWG Terms of Reference and associated indicated levels of effort of the members	No progress. To be discussed at March 2017 meeting of GDWG-GRWG; Part of GSICS report Closed at CGMS-45 following discussions in WGII	CGMS-45	CLOSED	3.1.1

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

GRWG	WGII/4	A44.05	GRWG to discuss with ISCCP (SCOPE-CM Project 9) a detailed project proposal for the use of GSICS methodologies to produce a GSICS-compliant ISCCP dataset for evaluation	<p>Discussion on subset of ISCCP to be identified; ISCCP representative to be invited to next meeting of GRWG</p> <p>CGMS-45: Discussed, follow-up action agreed at GRWG meeting in March 2017 ("GCC to coordinate provision of GSICS Corrected test data from the 0.6µm and 11µm channels of all available GEO imagers during Dec 2009 to Ken Knapp to assess the impact of the corrections on ISCCP products." see http://gsics.atmos.umd.edu/pub/Development/20170320/GSICS-GRWG-GDWG-2017_Final-Report.pdf) Suggest closing</p>	CGMS-45	CLOSED	5.1
CMA	WGII/6	A44.07	CMA to provide more information (documentation, availability details, URL) about the 3D-ADVP tool, for inclusion in the WMO webpage on Visualization Tools to CGMSSEC.	<p>Nov 2016: WMO to provide CMA with the necessary documentation facilitating the completion of the action.</p> <p>Oct 2016: WGII IS#1 - Contact CMA directly</p> <p>CGMS-45: Tool currently only for CMA-internal use (Tang Shihao, 7 Jun 2017) and no firm plan to produce int'l version; CMA suggest closing action</p>	1 Oct 2016	CLOSED	
IMD	WGII/6	A44.08	IMD to provide more information (documentation, availability details, URL) about the RAPID tool, for inclusion in the WMO webpage on Visualization Tools to CGMSSEC	<p>Documentation to be provided by Virendra Singh to WMO ;</p> <p>CGMS-45: Details to be provided by ISRO</p>	1 Oct 2016	OPEN	

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS space agencies	WGII/6	A44.09	CGMS operators and WMO to work with NAEDEX-APSDEU to explore options for optimal data exchange of advanced data from next-gen GEOs	CGMS-45: Not discussed at 2017 GODEX-NWP meeting (GODEX-NWP includes limited expertise on capacity planning). Action transferred to WGIV and hence closed in WGII.	CGMS-45	CLOSED	2
IWWG	WGII/7	A44.10	IWWG to pursue intercomparisons of Meteosat-8 and FY-2/4 winds over the IODC region. During the transition phase also Meteosat-7 should be considered.	Discussion with European NWP centres to perform such intercomparisons, report back to IWWG; inform IWWG co-chairs (Ken) CGMS-45 CMA-WP-08: CMA made comparisons between Meteosat-8 and FY-2 AMVs over IODC; good agreement, FY-2E AMVs are a bit slower than METEOSAT-8 AMVs at High and middle levels for IR channel, and at High Levels for WV channel.	CGMS-45 (for update)	CLOSED	3.2.1
CGMS members	WGII/7	A44.11	CGMS to develop best practices for documenting products and their quality.	CGMS-45 NOAA-WP-13 Suggest closing, new Recommendation: CGMS agencies encouraged to document their products online, including ATBDs and validation reports, and link product page URLs to the WMO Product Access Guide following defined documentation criteria. (Current list of existing CGMS agency focal points to be added here)	CGMS-45 (for update)	CLOSED	3
ROSH	WGII/7	A44.12	ROSHYDROMENT to explore the possibilities to implement an operational NRT service for the hyperspectral infrared sounder IKFS-2 on Meteor-M N2	CGMS-45: No direct readout available (ROSC-WP-03), NRT data available through EUMETSAT.	CGMS-45	CLOSED	1.4.5

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

IROWG	WGII/8	A44.13	IROWG to define the requirements on timeliness for RO observations	CGMS-45: IROWG-WP-01: We recommend that future RO missions include communications infrastructure that will enable 95 % of the measurements to be available for use in operational models within 30 minutes or less. Data older than 30 minutes is of lower value for current models. Near-real time data latency would be optimal, but is not always practical, and should be considered to be a useful goal for future missions when possible. In the specific case of COSMIC-2 Polar, south polar ground stations (e.g., McMurdo, Troll) should be deployed to reduce data latency IROWG to look at the implications of the requirement on ionospheric processing. IROWG rapporteur to check status (space weather-related); state-of-the-art to be reported out through IROWG	New deadline: CGMS-46 (CGMS-45)	OPEN	1.1.4
WGII	SWTT	A44.14	From CGMS-44 SWTT: WGII to determine how to implement the planning and development of Space Weather research and data management activities within the auspices of WGII.	US space weather workshop in May 2017, with meeting on CGMS support to space weather (action on SWTT) ; CGMS-45: addressed under item WGII/9	CGMS-45	CLOSED	
CGMS-44 WGII Recommendations							
"Actionee"	AGN item	Rec #	Description	Action feedback/closing document	Deadline	Status	HLPP ref

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

SCOPE-CM members	WGII/3	R43.01	SCOPE-CM to invite contributions to its next call for proposals, with particular regard to the sea ice, snow cover and land surface temperature communities, and others currently not represented.	SCOPE-CM executive panel in Sep 2016 to decide on approach regarding next call for proposals; check draft SEP-11 report		OPEN	3.3.2
CGMS members	WGII/3	R43.02	CGMS members to consider removing spectral gaps from future hyperspectral sounders to support GSICS intercalibration of IR imagers.	To be discussed at first second WGII inter-session meeting after CGMS-44. (For WG III to consider?) NOAA will consider for post JPSS hyperspectral sounders.		OPEN	3.1.1
CGMS members	WGII/6	R43.03	CGMS members to consider include a water vapour channel and a CO2 channel to polar-orbiting imagers, to maintain accuracy and coverage of polar winds and cloud height retrievals achieved by MODIS.	To be discussed at first second WGII inter-session meeting after CGMS-44. (For WG III to consider?) NOAA will consider for post JPSS imagers.		OPEN	1.1.6
CGMS space agencies	WGII/10	R43.07	CGMS agencies to make available a non real-time cache of satellite level 1 data over the previous 2-3 months, similar to the NOAA CLASS system.	CGMS-45: NOAA already has the CLASS system. CGMS-44 IMD: At present there are no such plans (until a new data centre is installed).	CGMS-44	OPEN	2
ISRO	WGII/5	R43.10	ISRO is encouraged to implementing a multi-sensor precipitation estimate based on SAPHIR and INSAT-3D	CGMS-45: ISRO/IMD have plans	CGMS-45	OPEN	HLPP # 3

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

IWWG, IPET-OSDE	WGII/6	R43.12	IWWG to liaise with the application focal points in the WMO RRR process (on IPET-OSDE) to provide feedback on the winds-related observation requirements in the RRR database.	CGMS-45: IWWG addressed this for capabilities, need to follow up regarding requirements	CGMS-44	OPEN	HLPP # 1.1
CGMS space agencies	WGII/7	R43.13	CGMS Members to approach Operators of GNSS systems to request them to provide a minimum level of information on the signal structure and interface control (ICD) in a timely manner to enable the use of these for future RO missions.	CGMS-45: IROWG discussed this and made recommendations U.S. Air Force GPS ICDs: http://www.gps.gov/technical/icwg/ To be discussed at first second WGII inter-session meeting after CGMS-44.	CGMS-45	OPEN	HLPP # 1.1.3
CGMS plenary	WGII/3	R44.01	CGMS to endorse the proposed Terms of Reference for WGII including the following updates: ☑ A 2-yearly rotation scheme for one of its co-chairs, with KMA starting after the end of CGMS-44 [Dohyeong Kim (KMA) to become the WG II co-chair, replacing Toshiyuki Kurino (JMA)]. Subsequently, co-chairs from CMA, JMA, ROSHYDROMET and IMD will follow. ☑ WMO to provide the second co-chair ☑ NOAA and EUMETSAT to provide the rapporteurs	Endorsed by CGMS-44 plenary	9 Jun 2016	CLOSED	

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

GSICS	WGII/4	R44.02	GSICS to report to SCOPE-CM projects on its plan to intercalibrate the geostationary ring using hyperspectral IR sounders as transfer function	<i>done, occurring in IOGEO</i>	15 Sep 2016	OPEN	3.3.2
GSICS	WGII/4	R44.03	GSICS member agencies to identify roles and responsibilities and funding needs to support the geostationary ring GSICS corrections including the processing of retrospective data going back to NASA EOS AIRS (2002).	CGMS-45: Partially addressed; GRWG encouraged agencies to inter-calibrate past data Under review by NOAA.	CGMS-45	OPEN	3.1.1
CGMS space agencies	WGII/4	R44.04	CGMS agencies should employ the GSICS Correction as part of their operational procedures	Should be part of agencies NOAA applies corrections based on impact assessments		CLOSED	3.1.1
CGMS members	WGII/4	R44.05	CGMS members to budget a baseline funding for the cloud intercomparison study, given its importance and impacts on global cloud products.	CGMS-45: ICWG-WP-01: Currently, ICWG helps to facilitate the collection of data used for assessments (e.g., level-2 retrieval assessment in TG “Assessment of level-2 retrievals” or level-3 climate data records in TG “Assessment of cloud parameter data records for climate studies”), but many teams carried out the efforts on a volunteer basis. Lack of funding has limited the scope and prohibited a definitive analysis of the new HIMAWARI-8 data set.	1 Nov 2016	OPEN	3.2.3
IROWG, IPWG, IWWG, ITWG	WGII/4	R44.06	To enhance coordination, ISWGs to discuss with ICWG co-chairs key items for collaboration.		1 Sep 2016	OPEN	

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS R&D agencies	WGII/4	R44.07	Research agencies to consider continuing space-borne lidar for ice/liquid water since they have proven very valuable to validate retrievals from passive sensors			OPEN	1.1.3
CGMS space agencies	WGII/4	R44.08	All operators of next-generation GEO imagers to consider the implementation of routine full-disc 10-min (or better) scanning for nowcasting	CGMS-45: NOAA consider this for GOES-16	CGMS-45 (for update)	OPEN	3.2.4
CGMS space agencies	WGII/4	R44.09	CGMS Members to continue an operational constellation of conically scanning microwave platforms to guarantee sustained support for the current level of capability.	CGMS-44 WGII - For reference: WG III should discuss this and come up with results at CGMS-45. CGMS-45: Questions of resolution, frequency need to be resolved, not just high-level mission continuity		OPEN	1.1.6
CGMS members	WGII/4	R44.10	At the request of IPWG, CGMS to improve cross-agency coordination of satellite assets into A-train-like convoys of instruments with sensitivities to distinct aspects of precipitation processes (e.g., CloudSat, EarthCare, GPM, etc.).	CGMS-44 WGII - For reference: WG III should discuss this and come up with results at CGMS-45.		OPEN	
NOAA	WGII/4	R44.11	NOAA to ensure that both, equatorial and polar components of COSMIC-2 are fully funded and launched.		CGMS-45 (for update)	OPEN	1.1.4

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS members	WGII/4	R44.12	CGMS agencies to target at least 20,000 occultations/day, at appropriate global distribution, to be made available to the operational and research communities, based on recent impact studies (NWP, climate and space weather)			OPEN	1.1.4
CGMS members	WGII/4	R44.13	CGMS agencies to ensure that the RO receiver design includes sufficient software/firmware flexibility to allow changes in the signal processing including processing of new GNSS signals/constellations, including ionospheric measurements			OPEN	1.1.4
CGMS space agencies	WGII/4	R44.14	CGMS agencies to maintain the constellation of at least three polar orbits (early morning, morning, and afternoon), each with full sounding capabilities (IR and MW). The overpass times of operational satellites with sounding capability (IR and MW) should be coordinated between agencies to maximize their value.	CGMS-44 WGII - For reference: WG III should discuss this and come up with results at CGMS-45. NOAA and EUMETSAT signed the JPS agreement for mid-morning and afternoon orbits until 2040.		OPEN	1.1.1

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS space agencies	WGII/4	R44.15	Future satellite programmes should include the provision of high temporal frequency MW humidity sounding radiances (alongside cloud and precipitation sensitive observations).	CGMS-44 WGII - For reference: WG III should discuss this and come up with results at CGMS-45. CGMS-45: NASA Cubesat mission Tropics underway Included in NOAA architecture study future trades. NOAA is looking also at MW cubesats. A MW cubesat will be released during the JPSS-1 launch.		OPEN	1.1.1
ROSH	WGII/4	R44.16	Roshydromet to develop and release a direct broadcast processing package for the Meteor-M N2 series, including level 1 processing for the MTVZA-GY microwave imager.		CGMS-45 (for update)	OPEN	1.1.5
CGMS space agencies	WGII/4	R44.17	CGMS agencies to identify the resources required to support the 3rd intercomparison of satellite-derived winds.	Reference is made to recommendation for ICWG. NOAA Supports participation in IWWG intercomparisons.	1 Nov 2016	OPEN	3.2.1
CGMS space agencies	WGII/4	R44.18	CGMS satellite operators to consider coordination of orbits for scatterometer instruments and to provide open and timely access to data in order to maximise independent coverage and benefits to nowcasting and NWP from assimilation of scatterometer wind data.	CGMS-44 WGII - For reference: WG III should discuss this and come up with results at CGMS-45.		OPEN	1.1.6
CGMS space agencies	WGII/4	R44.19	CGMS agencies to explore possibilities to derive winds from new upcoming satellites and opportunities.		CGMS-45 (for update)	OPEN	

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS members	WGII/4	R44.20	CGMS members to continue to support SCOPE-Nowcasting and its transition to pre-operational phase, in particular to consider financial support the finalization of the satellite-based volcanic ash retrieval algorithm intercomparison activity (Pilot Project 2) over the next 12-18 months.	<p><i>CGMS-45: Funds earmarked by EUMETSAT for 2018</i></p> <p><i>NOAA Reduction Science Program funds Mike Pavolonis for continued development of the GOES-R VolAsh product. Note that Steve Goodman and Mike both appointed to SCOPE Nowcasting Executive Panel.</i></p> <p><i>Deadline for indication of support to volcanic ash activity)</i></p> <p><i>No indication of support to VA intercomparison so far received by WMO. WMO has identified resources to engage consultant for 2.5 months FTE to support SCOPE-Nowcasting.</i></p>	1 Nov 2016	OPEN	3.2.2
CGMS space agencies	WGII/6	R44.21	Operators to take into account in the planning of their data distribution systems the emerging stringent requirements on data latency from SRNWP		CGMS-45 (for update)	OPEN	2
CMA	WGII/7	R44.22	CMA to make available data from FY-3D HIRAS and FY-4A GIIRS early in commissioning		CGMS-45 (for update)	OPEN	
CGMS space agencies	WGII/7	R44.23	CGMS agencies with operational direct broadcast needs are encouraged to attend the next ITWG sponsored Direct Broadcast Users Meeting in March 2017 hosted by CONAE, Argentina.	CGMS-45: Last week of June 2017, Madison WI, USA	Mar 2017	OPEN	

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS space agencies	WGII/7	R44.24	CGMS agencies to provide key documentation related to the quality of their products, to allow for informed uptake by users. These documents should include ATBDs, cal/val plans, and regular validation reports	CGMS-44 WGII: Part of WGII action to develop best practices CGMS-45 NOAA-WP-13, available on JPSS and GOES-R websites.	CGMS-45	OPEN	5.3
CGMS space agencies	WGII/7	R44.25	For monitoring the Polar Regions, the Group stressed the importance of the deployment of HEO missions	<i>Link to WGIII required? Yes</i>		OPEN	1.1
CGMS space agencies	WGII/8	R44.26	Satellite operating agencies should support proposals and programs to acquire high-accuracy characterization measurements of the Moon, to develop a new, high accuracy, SI-traceable lunar reference standard for reflected solar wavelengths.	CGMS-45: GSICS discussed this issue		OPEN	3.1.2
CGMS space agencies	WGII/8	R44.27	Long-term continuity of absolute solar spectral irradiance measurement with SI-traceable accuracy should be ensured.			OPEN	3.2.1
CGMS space agencies	WGII/8	R44.28	Agencies to explore the possibilities to develop suitable processing packages to support a direct broadcast implementation of RO processing, within the DBNet to improve timeliness for space weather applications	NOAA has no current plans to do this.	CGMS-45 (for update)	OPEN	

WORKING GROUP II CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

WGII	WGIII/6	R44.29	From WGIII to WGII: WGII to study this issue and provide guidance on the potential impact of temporal a gap in the PMW SST products.	CGMS-45: 6.9MHz currently used, in future only GCOM-W will provide this capability for the time being.	CGMS-45	OPEN	
WGII	WGIII/6	R44.29	From WGIII to WGII: WGII to study this issue and provide guidance on the potential impact of temporal a gap in the PMW SST products.	CGMS-45: 6.9MHz currently used, in future only GCOM-W will provide this capability for the time being.	CGMS-45	OPEN	

WORKING GROUP III CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

WGIII actions open from previous plenary sessions (at CGMS-44)							
Actionee	AGN item	Action #	Description	Action feedback/closing	Deadline	Status	HLPP ref
ISRO	WGIII/2.2	A42.05	ISRO to report at CGMS-43 on its progress on radio-occultation processing of ROSA on Oceansat-2 and Megha-Tropiques, and on the possibility of near-real time access to ROSA data acquired at a high latitude station such as Svalbard.	CGMS-43 ISRO-WP-03 partially closed. NRT access to ROSA data remains open.	(CGMS-43) New deadline CGMS-45	CLOSED	1.1.4
CGMS-44 WGIII actions							
Actionee	AGN item	Action #	Description	Action feedback/closing	Deadline	Status	HLPP ref
CGMS members	WGIII/	A44.01	CGMS Members: To review and react to the WIGOS Vision 2040 as it develops	<i>Input provided by EUM, NOAA (July 2016)</i>	(Aug 2016) CGMS-46??	OPEN	1.1
WMO	WGIII/	A44.02	WMO Secretariat to present the draft Vision at CEOS, GEO plenary sessions 2016.		(End 2016) CGMS-46	OPEN	1.1
CGMS members	WGIII/3	A44.03	CGMS operators nominate focal points for maintaining these elements (dates, landing pages), and other elements included in OSCAR/Space (e.g., instrument characteristics).	EUM: sally.wannop@eumetsat.int NOAA: Matthew.Butler@noaa.gov	31-Jul-17	OPEN	5.3
CGMS-44 WGIII Recommendations							
"Actionee"	AGN item	Rec #	Description	Action feedback/closing	Deadline	Status	HLPP ref
CGMS members	WGIII/2.2	R43.01	CGMS members are encouraged to consider including RO capabilities on all future polar-orbiting satellites.	CGMS-44 discussions:	Ongoing	OPEN	1.1.4

WORKING GROUP III CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS members	WGIII/	R44.01	CGMS Members are invited to comment on NOAA Commercial Space Policy and/or associated RFI by June 13, providing inputs per directions at the link: https://www.fbo.gov/index?s=opportunity&mode=form&id=09512e960853e562024b6bd2f631ee6b&tab=core&_cview=0		13 Jun 2016	CLOSED	
WMO	WGIII/	R44.02	Noting the recent conclusions of the WMO IPET-DRMM and the concurrence expressed CGMS WG III, WMO is encouraged to add the satellite identifier (from Common Code Table C5) and satellite instrument identifier (from Common Code Table C8) to OSCAR Space.		CGMS-45	OPEN	2.7
CGMS space agencies	WGII	R44.03	From CGMS-44 WGII: CGMS Members to continue an operational constellation of conically-scanning microwave platforms to guarantee sustained support for the current level of capability	Ref. gap analysis discussion		OPEN	
CGMS space agencies	WGII	R44.04	From CGMS-44 WGII: CGMS to have a special discussion on the value of formation flying similar to the A Train – especially for precipitation and other hydrological applications			OPEN	

WORKING GROUP III CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS space agencies	WGII	R44.05	From CGMS-44 WGII: CGMS satellite operators to consider coordination of orbits for scatterometer instruments and to provide open and timely access to data in order to maximise independent coverage and benefits to nowcasting and NWP from assimilation of scatterometer wind data.			OPEN	
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WORKING GROUP IV CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

WGIV Actions open from previous plenary sessions (at CGMS-44)							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
EUMETSAT	WGIII/2	A43.02	(Action transferred from WGIII) EUMETSAT to propose dissemination plan for data from Indian Ocean Data Coverage partners identified in CGMS-43-EUM-14 roadmap.	Status at CGMS-45: CGMS-45-EUMETSAT-WP-37 CGMS-45-ISRO-WP-05 Ongoing work , extend deadline to cgms-46	(CGMS-44, 45) <i>New deadline CGMS-46</i>	OPEN	1.1.6

WORKING GROUP IV CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

NOAA	(WGI/4) WGIV/7	A43.03	NOAA to consider including GLM products in the HRIT stream	<p>CGMS-45: NOAA intends to include some GLM data, but is still evaluating how much data and in what regions.</p> <p>WG-IV WEBEX 18 Jan 2017 and communication: NOAA is considering putting GLM on HRIT/EMWIN. At this time, our plan is to include 5 channels of Cloud and Moisture Imagery (CMI) in Full Disk at 2 KM resolution and also 3 channels of mesoscale imagery. Under that plan, there would not be sufficient bandwidth for the predicted size of the GLM data. However, we are just receiving CMI data and will evaluate the HRIT broadcast over the next few weeks [in January 2017] prior to the public release of GOES-R data at the end of February 2017.</p> <p>Webex 21 Oct 2015 discussion: NOAA is working on it, and final product list planned for 2016.</p>	(CGMS-44, 45) New deadline CGMS-46	OPEN	
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WORKING GROUP IV CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

TT metadata	(WGI/6) WGIV/10.1	A43.05	CGMS Task Team on metadata to define discovery metadata for DBNET	<p>NOAA: CGMS-44-NOAA-WP-14 PPT</p> <p>EUM: http://navigator.eumetsat.int https://eoportal.eumetsat.int CGMS-44-EUMETSAT-WP-17, ongoing work, extended deadline. CGMS-45: no change, extended deadline to WGIV IS meeting</p> <p>WG-IV WEBEX 18 Jan 2017 and communication: CMA http://data.cma.cn/en http://satellite.nsmc.org.cn/PortalSite/default.aspx?currentculture=en-US</p> <p>NASA: https://search.earthdata.nasa.gov</p> <p>CGMS-45-ROSCOSMOS-WP-03</p> <p>Still not complete, extend due date to CGMS-46</p>	(CGMS-44, 45) New deadline Dec 2017	OPEN	3.4.1
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WORKING GROUP IV CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS members		A43.06	CGMS members to provide a listing of their data access portals.	CGMS-44-NOAA-WP-14 PPT EUM: http://navigator.eumetsat.int https://eoportal.eumetsat.int WG-IV WEBEX 18 Jan 2017 and communication: CMA: http://data.cma.cn/en http://satellite.nsmc.org.cn/PortalSite/default.aspx?currentculture=en-US NASA: https://search.earthdata.nasa.gov CGMS-45-ROSCOSMOS-WP-03 Still not complete, extend due date to CGMS-46	(CGMS-44) New deadline CGMS-46	OPEN	-
CGMS-44 WGIV actions							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
TFMI (task force on Metadata)	WGIV/3.1	A44.01	To submit the "Guidance Documentation on WMO Core Profile Metadata Creation For Satellite Products" to WMO IPET-MDRD and IPET-SUP.	CGMS-45-EUMETSAT-WP-41	30 Dec 2016	CLOSED	2.7

WORKING GROUP IV CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

EUMETSAT	WGIV/7	A44.02	To provide a timeline for the users preparation information for MTG, in accordance with "CGMS-44-WMO-WP-02 Best Practices for Achieving User Readiness for New Meteorological Satellites"	WG-IV WEBEX 18 Jan 2017 EUMETSAT: High Level information for Saturn was provided. CGMS-45: Ongoing work, keep open until more mature. Extend deadline to WG-IV IS meeting.	(30 Dec 2016) New deadline Dec 2017	OPEN	5.3
CGMS members (data providers)	WGIV/10	A44.03	CGMS members (data providers) to a) discuss and respond to the recommendation from CGMS-44-CEOS-WP-02: CEOS recommends the adoption of the WGISS supported standards for searching Climate Data Records (CDRs). WGISS will provide technical support to CGMS data providers providing their climate data records through the WGISS data access infrastructure (IDN, CWIC, FedEO); and b) report how far the standards WGISS developed (as described in CGMS-44-CEOS-WP-02) are supported.	WG-IV IS Jan 2017: From NASA: In response to action item # A44.03, I would like to state that EUMETSAT, NASA, ESA, CNES, USGS, JAXA, ISRO (NRSC) and CCMEO have all implemented WGISS supported standards (CEOS Opensearch Best Practices). CMA: will be implemented when appropriate NOAA: NOAA has no response to these standards and does not use them currently. CGMS-45: Sufficiently answered, can be closed.	CGMS-45	CLOSED	5.1

WORKING GROUP IV CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

JCOMM task team	WGIV/6.2	A44.04	The JCOMM Task Team To work together with the International Wind Working Group and the CEOS "Ocean Surface Vector Wind Virtual Constellation" (OSVW-VC) at developing a project on Surface Vector Winds, using the well-known and highly successful GHRSSST Project as a model for the adoption of globally-agreed standards for the production and distribution of global, integrated, surface vector winds and associated products.	Proposed closure following CGMS-45 discussions. JCOMM to approach CGMS as necessary.	CGMS-45	CLOSED	2.5
CGMS members	WGII	A44.05	From CGMS-44 WGII: CGMS operators and WMO to work with GODEX-NWP to explore options for optimal data exchange of advanced data from next-gen GEOs.	WG-IV WEBEX 18 Jan 2017: WMO: GODEX-NWP scheduled May 2017, needs will be addressed there, WMO will provide feedback. As a member, NOAA agrees that the GODEX-NWP group would be an excellent source of information on the planned types of next-gen GEO data to be disseminated and methods of data dissemination between the international NWP modeling centers. The GODEX-NWP group is also at the forefront of RARS endeavors. CGMS-45: GODEX-NWP not yet ready to provide feedback.	(CGMS-45) New deadline CGMS-?? 46 or 47?	OPEN	
ROSH	WGII	A44.06	From CGMS-44 WGII: ROSHYDROMET to explore the possibilities to implement an operational NRT service for the hyperspectral infrared sounder IKFS-2 on Meteor-M N		CGMS-45	CLOSED	

WORKING GROUP IV CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS-44 WGIV Recommendations							
"Actionee"	AGN item	Rec #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS space agencies	WGIV/7	R42.01	Satellite operators to provide WIS Discovery Metadata Records, compliant to WIS requirements and following the guidance to be provided by the CGMS-WMO Task Force on metadata implementation, in order to facilitate satellite information discovery and access	<p><i>CGMS-45: Recommendation still valid, to be retained.</i></p> <p>NOAA: Related to metadata, the best reference is NGDC metadata provided here the URL: http://www.ngdc.noaa.gov/metadata/</p> <p>WGIV CGMS-43 discussions: Ongoing and routine activity. Recommendation maintained until CGMS-44</p> <p>WGIV webex 9 Dec 2015: To be taken up at the TT on Meta Data meeting the week of 14 Dec 2015.</p> <p>See CGMS-44-EUMETSAT-WP-17. Recommendation still valid, to be retained.</p>	(CGMS-43, 45) New deadline CGMS-46	OPEN	2.7
CGMS members	WGIV/3.2	R44.01	CGMS members to contribute to the implementation of the Best Practices for User Readiness for meteorological satellite systems under development, both GEO and LEO	<p><i>CGMS-45: Recommendation still valid, to be retained.</i></p> <p>Closed for NOAA.</p>	(CGMS-45) New deadline CGMS-46	OPEN	5.3
CGMS members	WGIV/3.2	R44.02	CGMS members to continue the provision of up-to-date User Readiness information in the SATURN portal	<p><i>CGMS-45 NOAA-WP-16</i></p> <p><i>CGMS-45: Recommendation still valid, to be retained.</i></p>	CGMS-45	OPEN	5.3

WORKING GROUP IV CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

EUM and NOAA	WGIV/11.1	R44.03	NOAA (and EUMETSAT, as appropriate) to continue their strong engagement in the WMO Coordination Group on Satellite Data Requirements for Region III and IV (Americas) and to provide support to Region-based access to satellite data, including from GOES-R and JPSS, according to user needs.	Closed following discussions at CGMS-45 Strong engagement continues, now considered normal work. NOAA attends all WMO SDR telecons and meetings. We provided significant support on GOES-R transition to the SDR meeting in September 2016 with attendance and participation by Wayne McKenzie, Jamie Daniels and Amanda Terborg along with Eric Madsen.	CGMS-45	CLOSED	2.1
CGMS-44 plenary	WGIV/3.1	R44.04	WG-IV recommends to CGMS plenary to endorse the extension of the CGMS TFMI activity to assess the WIGOS Metadata OGC Observations and Measurements mapping and to report its findings/recommendations to WMO IPET-MDRD	Endorsed by CGMS-44 plenary	9 Jun 2016	CLOSED	2.7
CGMS-44 plenary	WGIV/3.2	R44.05	WG-IV recommends to CGMS plenary to adopt "CGMS-44-WMO-WP-02 Best Practices for Achieving User Readiness for New Meteorological Satellites", as far as it applies to satellite operators, as CGMS Best Practice.	Endorsed by CGMS-44 plenary	9 Jun 2016	CLOSED	5.3

WORKING GROUP IV CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS-44 plenary	WGIV/3.3	R44.06	In the context of IODC data access, WG-IV supports the definition of essential data first and, once defined, recommends the distribution of these data via the established dissemination means by the CGMS agencies in the region (CMA, EUMETSAT, ISRO, ROSHYDROMET).	Endorsed by CGMS-44 plenary	9 Jun 2016	CLOSED	1.1.6
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SWTT CGMS-44 actions and recommendations following discussions at CGMS-45 11-16 June 2017

CGMS-44 SWTT actions								
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref	
SWTT		A44.01	SWTT to conduct a workshop with leadership from the various space weather communities that will benefit from CGMS coordination of space-based space weather observing systems.	CGMS presentation and discussions have occurred at European Space Weather Week (ESWW) and UNCOPUOS. Discussions have been held with leadership of ISWI, COSPAR, and ISES. CGMS SWTT organized electron inter-calibration mini-workshop at US Space Weather Workshop CGMS space weather role is included in draft UNCOPUOS framework for space weather services. Planned: Dedicated CGMS ESWW topical discussion meeting ("Space Weather Activities in the Coordination Group for Meteorological Satellites.") Presentation of CGMS at UN/US ISWI workshop	(15 Dec 2016) <i>New deadline ??</i>	OPEN	5.2.1	
SWTT members		A44.02	Members of SWTT review the current WIGOS 2040 vision to ensure inclusion of necessary space weather observations.	NOAA: Input sent 27 Jul 2016. Webex 22 Mar 2017: WMO to circulate version WIGOS 2040 1.1 for further review by SWTT by CGMS-45 to be reflected in the SWTT agenda at CGMS-45. NASA submitted comments after CGMS-45 SWTT meeting.		CLOSED	1.1.7	
SWTT		A44.03	(From WGIII): SWTT members wishing to participate in the SETT activities are invited to participate in the SETT activities, and should provide their contact information to the SETT accordingly (Charles.wooldridge@noaa.gov).	Contact information has been sent to SETT	1 Jul 2016	CLOSED	4.1.1	
CGMS-44 SWTT Recommendations								
"Actionee"	AGN item	Rec #	Description	Action feedback/closing document	Deadline	Status	HLPP ref	
CGMS-44 plenary		R44.01	On Space Weather Task Team: Sustain the SWTT for another year in order to enable CGMS space weather integration into existing Working Groups.	Endorsed by CGMS-44 plenary. CGMS-45: Integration activities ongoing.	(9 Jun 2016) Jun 2018	OPEN	5.2	