CGMS-45 F	Plenary act	ions					
	AGN item		Description	Action feedback/closing docum	Deadline	Status	HLPP ref
CGMS space agencies	C.1	A45.01	CGMS space agencies to provide comments on draft Vision for WIGOS in 2040 (Appendix I) by 31/07/2017 (CGMS-45-WMO-WP-01)	JMA e-mail feedback to WMO and CGMSSEC on 28 Jul 2017.	31 Jul 2017	OPEN	
CGMS space agencies, IROWG, IPWG, IWWG, ICWG, ITWG	C.2	A45.02	CGMS International Science Working Groups and CGMS space agency members to formulate science questions, including the impact of data latency, in view of the 7th Impact WS 2020 (ref. CGMS-45-WMO-WP-02) and provide these to Iriishojgaard@wmo.int		CGMS-46	OPEN	
WMO	C.3	A45.03	WMO, in collaboration with CEOS, to investigate the possibility of aligning the reporting templates for OSCAR/Space with those used to update the CEOS MIM database, at least for common parameters, thus facilitating the reporting task at the agency level.		CGMS-46	OPEN	
CGMS	C.3	A45.04	CGMS to invite the ISWGs to nominate experts for participation in the OSCAR/Space Science and Technical Advisory Team.	CGMSSEC EUM/CGMS/LET/17/929217 of 10 July 2017 IROWG: Harald Anlauf <harald.anlauf@dwd.de> (nominated by IROWG co-chairs 3 Aug 2017) IWWG: Regis Borde <regis.borde@eumetsat.int> (nominated by IWWG co-chairs 1 Aug 2017) IPWG: Sophie Cloche <sophie.bouffies- cloche@ipsl.jussieu.fr="">; (26 Sep 2017) ICWG: Steven Sherwood <s.sherwood@unsw.edu.au> ITWG & GSICS: mitch.goldberg@noaa.gov</s.sherwood@unsw.edu.au></sophie.bouffies-></regis.borde@eumetsat.int></harald.anlauf@dwd.de>	End Aug 2017	CLOSED	
NOAA	C.4	A45.05	NOAA/NESDIS to support the Space-based Monitoring of Weather and Climate Extremes project by providing satellite observations of heavy precipitation events, and land surface parameters for monitoring droughts. The observations are required with a short latency of about one day. Furthermore the project requires the creation of climate reference data sets which will be used by the RCCs to classify observations as extreme event or not (CGMS-45-WMO-WP-05)		31-Dec-17	OPEN	

JAXA	C.4	A45.06	JAXA to support the Space-based Monitoring of Weather and Climate Extremes		31-Dec-17	OPEN
			project by providing a short-term (from 5-day up to monthly) climate normal from			
			GSMaP data archives as a reference precipitation data set for the initial SEMDP			
			areas, i.e. East Asia and Western Pacific regions. JAXA is also requested to set-			
			up the on-line environment to provide GSMaP data with short latency to be			
			utilized in the SEMDP (CGMS-45-WMO-WP-05).			
IPWG	C.4	A45.07	IPWG co-chairs and rapporteur to provide guidance on the estimation of		CGMS-46	OPEN
			uncertainties and representativeness of the short-latency precipitation products			
			related to the Space-based Monitoring of Weather and Climate Extremes			
			project (CGMS-45-WMO-WP-05)			
JWG CLIM	C.4	A45.08	CEOS/CGMS Working Group on Climate to provide feedback on the proposed		CGMS-46	OPEN
			definition for ICDR (CGMS-45-WMO-WP-05)			
WMO	C.6.1	A45.09	WMO to report to CGMS-46 on the status of the development of WMO Policy		CGMS-46	OPEN
			Framework for public-private sector engagement in view of the implications for			
			free and open international exchange of meteorological satellite observations			
CGMS	C.6.1	A45.28	CGMS members to provide a focal point of contact to WMO	EUM: paul.counet@eumetsat.int	15-Oct-17	OPEN
members			(sbojinski@wmo.int) for participation in the WMO Public Private Engagement	IMD: Dr. S.K.Peshin, Scientist-G/		
			discussion	Head Satcom <sunil peshin<="" td=""><td></td><td></td></sunil>		
				<pre><sunil.peshin@gmail.com></sunil.peshin@gmail.com></pre>		
IOC-	C.8	A45.29	IOC-UNESCO to provide a paper on guidance to CGMS members (at CGMS-	gramme gramme	CGMS-46	OPEN
UNESCO			46) on geostationary satellite measurements of essential ocean variables.			
WMO	C.8	A45.10	WMO to report on the progress regarding JCOMM and satellite observations.		CGMS-46	OPEN
EUMETSAT	D.13	A45.11	EUMETSAT, on behalf of ROSHYDROMET, to ingest Meteor-M N2 level 1	The instrument stopped workign	Q4 2017	CLOSED
			brightness temperatures from MTVZA-GY on the GTS for global data exchange	and is non-recoverable.	(Q3 2017)	
IWWG	E.1.1.1	A45.12	IWWG to prepare a proposal to CGMS on how to fund the analysis of the future		CGMS-46	OPEN
			AMV International Intercomparison studies.			
CGMSSEC	E.2	A45.13	On behalf of CGMS, CGMS SEC to send a letter to ITU Secretary-General.	CGMS/LET/17/926178 sent to	Jun/Jul	CLOSED
			Letter drafted by WGI (AWGI45.01) emphasising the need for protecting EESS	ITU on 6 Jul 2017 and circulated	2017	
			and passive bands necessary for remote sensing. It also agreed in tasking	to CGMS and WGI list servers.		
			WMO to take similar steps and informing the different members of WMO on the	ITU response letter 60(DIR)O-		
			need of emphasasing the importance of protecting the passive sensing bands	2017-003233 of 11 Jul 2017		
			(as per WGI discussions, CGMS-45-CGMS-WP-05)	Circulate on CGMS and WGI list		
				servers 17 Aug 2017		
WMO	E.2	A45.14	WMO to send a letter to ITU Secretary-General based on the CGMSSEC letter	WMO letter	mid July	CLOSED
			(drafted by WGI (AWGI45.01) emphasising the need for protecting EESS and	27975/2017/OBS/WIS/ITS/RF of	2017	
			passive bands necessary for remote sensing. It also agreed in tasking WMO to	31 Jul 2017		
			take similar steps and informing the different members of WMO on the need of	Circulated on CGMS and WGI list		
			emphasasing the importance of protecting the passive sensing bands (as per	servers 17 Aug 2017		
			WGI discussions, CGMS-45-CGMS-WP-05))			

MOLAMON	Ir o	N 45 45	- MCIMCIV to catablish a small took to are to suggest a suggest Towns of	T	COMO 40	ODEN:	 1
WGI/WGIV	E.2	A45.15	WGI/WGIV to establish a small task team to examine the current Terms of		CGMS-46	OPEN	
(CGMS			Reference in light of the thematic areas covered by both working groups to				
members)			address overlap and to consider adding relevant topics related to satellite and				
			ground system operational topics not currently covered in either of the two				
			working groups and to report to CGMS-46				
			The team should propose additional operational topics as well as possible				
			alternatives for realignment of the themes for both working groups to include the				
			possible merger of the two working groups (including the topics discussed in the				
			Space Weather Task Team) (Ref. CGMS-45-CGMS-WP-05)				
CGMS	E.4	A45.16	CGMS members to nominate contributors to participate in the intersessional	EUM: sean.burns@eumetsat.int	Jul-17	OPEN	
members			meetings on the CGMS contingency planning including the WMO face-to-face	IMD: Virendra Singh			
			meeting (ref WGIII discussions, CGMS-45-CGMS-WP-07) on 6-8 March 2018	<pre><vsvsingh69@gmail.com></vsvsingh69@gmail.com></pre>			
			in Geneva (at WMO).	JMA: Yoshishige Shirakawa			
				<pre><yshirakawa@met.kishou.go.jp></yshirakawa@met.kishou.go.jp></pre>			
				NOAA: ajay.mehta@noaa.gov			
WMO	E.4	A45.17	WMO to call for and hold a face-to face intersessional meeting on the CGMS contingency planning in the first half of 2018 (ref WGIII discussions, CGMS-45-CGMS-WP-07)	Anticipated for 6-8 March 2018 at WMO	Q1 2018	CLOSED	
WMO	E.5	A45.18	WMO to send an invitation for the IPT-SWeISS to the CGMS Secretariat to	WMO letter	Jul-17	OPEN	
			secure participation by CGMS at the meeting.	22994/2017/OBS/SAT/IPT-			
			J	SWeISS of 27 June 2017			
				received by CGMSSEC.			
				CGMSSEC letter 928853 of 5			
				July 2017 initially nominating			
				Elsayed Taalat (SWTT Co-Chair).			
				,			
CGMS	G	A45.19	CGMS to deliver proposal to WMO for inclusion in Vision 2040 for a target	CGMSSEC to propose wording	Oct-17	OPEN	
members			architecture to monitor GHG and carbon from space. (Ref. CGMS-45 plenary	for inclusion (to be circulated to			
			session G)	CGMS members for review)			
CGMS	H.2	A45.20	CGMS to endorse the gap analysis report and the coordinated action plan in	For CEOS: CEOS SIT Workshop		OPEN	
members			writing prior to CEOS 2017 plenary meeting, to the Joint CEOS-CGMS WG	has decided that this document	(15/10/2017		
			Climate (pascal.lecomte@esa.int and joerg.schulz@eumetsat.int)	will be presented to CEOS SIT-)		
				33 in April 2018.			
				For CGMS: Endorsement will be			
		1		required by/at CGMS-46 plenary.			
				required by at earner to promain.			
				An agenda item will be included			

CGMS members	H.2	A45.21	CGMS to endorse the final draft of the space agency response to the new GCOS-IP in writing, prior to the submission to the SBSTA-47, to the CEOS-CGMS JWG Climate (pascal.lecomte@esa.int and joerg.schulz@eumetsat.int) Version 2 can be found here: https://www.cgms-info.org/documents/Space_Agency_Response_to_GCOS_IP_v2.0_Oct2017.pd f	The document "Space Agency Response to GCOS Implementation Plan" will be delivered on 25. September with two weeks' time for review and endorsement. It will be submitted to UNFCCC Sec on 6 October 2017. (CGMS members were informed on 13 Sep 2017). Joint response circulated on the CGMS list server on 25 Oct 2017. The reponse has been provided to GCOS and UNFCCC Secretariat.	15-Oct-17	CLOSED	
CGMS members	H.2	A45.22	CGMS to review the Space Agency Statement to COP-23 SBSTA-47 in writing (prior internal review by the EC and submission to the SBSTA-47 by 6 October 2017), to the Joint CEOS/CGMS WG Climate (pascal.lecomte@esa.int and joerg.schulz@eumetsat.int)	The statement has been reviewed but can be provided for information after release from EU. Message circulated to cgms list server.	14-Jul-17	OPEN	
CGMS members	F.1	A45.23	CGMS members to consider ideas on further contributions to the 3 GEO Engagement Priorities (SDGs, Paris Agreement, Sendai Framework of Actions) and potential interests of participation to Flagships, Initiatives and Foundational Tasks in the GEO Work Programme 2017-2019 (Areas in need of strengthening: CEOS-CGMS Joint Working Group on Climate; Non-meteorological Applications for Next Generation Geostationary Satellites (CEOS-CGMS); GEONETCast; Radio-Frequency Protection Education and Training (VLab); User Requirement (Member's studies); Carbon Observations (CEOS-CGMS))		15-Sep-17	OPEN	
CGMS members	I.1	A45.24	CGMS Members to indicate to WMO (sbojinski@wmo.int) and the CGMS Secretariat (cgmssec@eumetsat.int) whether they would be interested in and in a position to host the VLab Technical Support Officer as of 1 September 2018.	Discussions ongoing with NOAA (and CICS-MD Maryland).	15-Sep-17	OPEN	
CGMS space agencies, CGMSSEC	J.2	A45.25	CGMS space agencies to provide the list of oceanographic products from GEO satellites to cgmssec@eumetsat.int for provision to IOC-UNESCO (David.Halpern@jpl.nasa.gov).	CMA (30 Sep '17) EUM (22 Sep '17) stephane.sauxpicart@meteo.fr ISRO (12 Sep '17) rksharma@sac.isro.gov.in JMA (25 Oct '17) s-ohmori@met.kishou.go.jp, satellite@met.kishou.go.jp KMA (Oct '17) Chu-Yong Chung cychung@kma.go.kr NOAA (15 Sep '17)	30-Sep-17	CLOSED	

CGMS members	J.2	A45.26	CGMS members to confirm participation in the 3 proposed Non Meteorological Applications projects - aerosol/dust, fire, and flooding - and nominate POCs to form Task Teams reporting to WGII	EUM: bojan.bojkov@eumetsat.int, lothar.schueller@eumetsat.int IMD: Dr. Ashim K. Mitra, Scientist- D (SR-Cal/Val) <ashimmitra@gmail.com> JMA: Mr Koji Yamashita <satellite@ml.kishou.go.jp> NOAA:</satellite@ml.kishou.go.jp></ashimmitra@gmail.com>	Sep-17	OPEN
CGMS members	J.2	A45.27	CGMS members to confirm interest in a flood mapping pilot project using GEO satellites, as a proposal for the SCOPE-Nowcasting Executive Panel meeting on Sept 18-20, 2017	mitch.goldberg@noaa.gov JMA declined participation in the project (8 Sep 2017). EUM: Pending SCOPE NWC EP meeting (jochen.grandell@eumetsat.int) IMD: participation confirmed (3 Oct '17).	01-Sep-17	OPEN
CGMSSEC	J.2	A45.30	Fire: CGMS SEC to approach GOFC-GOLD to explore the possibility for CGMS members to become part of the fire project	000 177.	CGMS-46	OPEN
CGMSSEC	J.2	A45.31	Aerosol: CGMS SEC to explore with AEROSAT if they pursue an activity regarding the use of new-generation GEO data.		CGMS-46	OPEN
CMA, NOAA	J.2	A45.32	NOAA and CMA to develop a proposal to develop GEO-based flood mapping as a potential SCOPE-Nowcasting pilot project. The WMO Multi-Hazard Early System (MHEWS) and the Flash Flood Guidance System (FFGS) should be invited to collaborate in this proposal.	NOAA: GOES-16 AHI-based flood mapping product (research domain). Proposal: Integration of GOES-R/ABI data in Flood Mapping Software for Flood Monitoring and Forecasting	CGMS-46	OPEN
CGMS-45 p	lenary Red	commend	ations			
"Actionee"	AGN item	Rec #	Description	Recommendation feedback/ closing document	Status	HLPP ref
agencies	E.1.2	R45.01	IROWG recommends CGMS members to encourage GNSS providers and agencies to make ICDs (Interface Control Documents) of GLONASS and Beidou Open Service signals available as soon as possible		OPEN	
	E.1.3	R45.02	Recognising that IPWG has considerable expertise in precipitation science and applications, IPWG requests the WMO (likely via VLAB) to establish regular training events on precipitation data sets and applications, for which IPWG will provide disciplinary expertise.		OPEN	
CGMS members + IPWG, ITWG and ICWG	E.1.3	R45.03	Recognising the need for continued enhancements to the baseline precipitation observing system to a broader user community (including hydrology, NWP prediction, RTM modeling), IPWG recommends that CGMS members continue to pursue advanced sensors through close coordination with CGMS ISWG's including IPWG, ITWG and ICWG.		OPEN	

Ю	C-	C.7	R44.02	On Second International Indian Ocean Expedition (IIOE-2) for enhanced	There was no feedback by	OPEN	2.5	
10	NESCO,			data acquisition and management: It was recommended to establish a	CGMS-45 and the			
C	SMS			working alliance between the IIOE-2 and the remote sensing community	recommendation remains open.			
me	embers			(CGMS) within/through the IIOE-2 Steering Committee framework and/or the				
				IIOE-2 Joint Project Office.				

			us plenary sessions (at CGMS-45)				
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. Discussed at CGMS-45.	(CGMS-44) New deadline CGMS-46	OPEN	1.1.2
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 frequency management and frequency 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. CGMS-45 NOAA-WP-04 Agency reports on Frequency topics to include a	(Feb 2017) CGMS-46	OPEN	1.3
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.	Deadline extended following CGMS-45 discussions. 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	(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	Deadline extended following CGMS-45 discussions. 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	(CGMS-45) CGMS-46	OPEN	
CGMS-45	WGI actio	ns					
	AGN item		Description	Action feedback/closing document	Deadline	Status	HLPP ref
EUM	3	A45.01	WGI chair to draft a letter, on behalf of CGMS, to ITU Secretary-General emphasizing the need for protecting EESS and passive bands necessary for remote sensing	CGMS/LET/17/926178 sent to ITU on 6 Jul 2017 and circulated to CGMS and WGI list servers. ITU response letter 60(DIR)O-2017-003233 of 11 Jul 2017 circulate on CGMS and WGI list servers 17 Aug 2017 Supporting WMO letter 27975/2017/OBS/WIS/ITS/RF of 31 Jul 2017, circulated on CGMS and WGI list servers 17 Aug	End June 2017	CLOSED	1.3
EUM	3.1	A45.02	CGMS/SFCG liaison officer to share SF36-45/D with WGI participants, IROWG chair and IPT-SWeISS members	Circulated at CGMS-45. Inter-sessional webex on frequencies and space weather frequencies took place on 7 Sept 2017.	End June 2017	CLOSED	1.3
WMO	3.1	A45.03	WMO to share with all CGMS members the outcome of the survey prior to the inter-sessional meeting	Draft survey circulated on WGI list server on 13 September 2017.	Aug 2017	CLOSED	1.3
CGMS WGI members		A45.04	WGI members to nominate/confirm points of contact participating in the related inter-sessional meetings		Jun 2017	OPEN	1.4
EUM	5	A45.05	EUMETSAT to report to CGMS-46 on the status of progress on future EDCP (ESA study)		CGMS-46	OPEN	1.2
CGMS members	5	A45.06	WGI participants to review annex I of CGMS-45- EUMETSAT-WP-30 and update the related information in time for the first inter-sessional meeting		Sep 2017	OPEN	1.2

CGMS	6.2	A45.07	WGI to re-assess during the dedicated inter-sessional	1	CGMS-46	OPEN	1.4
members	0.2	7110.07	meetings the aspects of S/W delivery and installation		COMO 10	OI LIV	•••
momboro			needs in BP.04 for avoiding, if considered adequate,				
			making explicit reference to any tool or package				
CGMS	6.2	A45.08	CGMS member with satellites with a Direct Broadcast		Oct 2017	OPEN	1.4.
members			service to evaluate the draft template for reporting status				
			of implementation and to address possible updates in				
			the first of the inter-sessional meeting on DB topics				
			identified above				
	9 (AOB)	R45.01	A small task team be established to examine the current		CGMS-46	OPEN	
WGIV chairs			Terms of Reference of WGs I and IV in light of the				
and			thematic areas covered by both working groups. The				
rapporteurs			team should propose additional operational topics as				
			well as possible alternatives for realignment of the				
			themes for both working groups to include the possible				
CCMS 45	WGI Reco	mmondot	iono				
			Description		Ctatus	III DD rof	
Actionee	AGN item	Rec #	Description	Recommendation feedback/closing	Status	HLPP ref	
				document			
CGMS	WGI/2	R44.01	CGMS agencies to inform their Frequency Managers on	NOAA has informed their spectrum managers on	OPEN	1.3	
space			the space weather activities to ensure the necessary	space weather activities. They are actively working			
agencies			protection and coordination at Frequency management	to identify spectrum for the SWFO as well as			
			level	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			
CGMS	WGI/5	R44.02	All CGMS DCS operators to consider making all DCP	CGMS-45 CMA-WP-xx	OPEN	1.2	
space			messages available on the GTS.	CGMS-45 EUM-WP-28		<u>-</u>	
agencies				CGMS-45 ISRO-WP-xx			
				CGMS-45 JMA-WP-xx			
				NOAA currently does this CGMS-45 NOAA-WP-xx			
				CGMS-45 ROSH-WP-xx			
CGMS	WGI	R44.03	From CGMS-44 WGII: Agencies to explore the		OPEN	5.2	
space			possibilities to develop suitable processing packages to		J. L.,	J	
agencies			support a direct broadcast implementation of RO				
agonolos							
			processing, within the DBNet to improve timeliness for				

WGII actio	ns open fro	m previou	s plenary sessions (at CGMS-45)				
	AGN item		Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS	WGII/4	A44.02	CGMS members to submit data to the	ICWG plans underway (see above Action);	New:	OPEN	3.2.3
space			ICWG intercomparison: full-disk data at	communicate new Golden Day(s) to CGMS	CGMS-46		
agencies			10 minute temporal resolution, 2 km	members as soon as decided.	(1 Sept		
			spatial resolution in the native AHI		2016)		
			projection is preferred. The data should	CGMS-45: remains open since some			
			ha submitted by 1 Santambar 2016	submissions missing or forthcoming			
IMD	WGII/6	A44.08	IMD to provide more information	Documentation to be provided by Virendra	1 Oct 2016	OPEN	
				Singh to WMO.			
			about the RAPID tool , for inclusion in the				
			WMO webpage on Visualization Tools to	CGMS-45: Details to be provided by ISRO			
IROWG	WGII/8	A44.13	IROWG to define the requirements on	CGMS-45: IROWG-WP-01: We recommend	New	OPEN	1.1.4
			timeliness for RO observations	that future RO missions	deadline:		
				include communications infrastructure that	CGMS-46		
				will enable 95 % of the	(CGMS-45)		
				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			
CGMS-45 \	WGII action	S					
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
SCOPE-	4	A45.01	SCOPE-CM Chair to inform ISRO about		15 Aug	OPEN	3.3.2
CM Chair			the maturity matrix model, to enable its		2017		
			application to ISRO datasets.				

IROWG	4	A45.02	IROWG to develop a detailed proposal for	01-Nov	-17 OPEN	
			OSSEs regarding LEO-LEO MW occultation			
			and GNSS-RO&-reflectometry.			
IWWG	4	A45.03	IWWG to liaise with the NOAA	01-J	l-17 OPEN	
			representative on PSTG (Jeff Key,			
			jeff.key@noaa.gov) regarding the			
			potential use of 3D winds from AIRS for			
IPWG	4	A45.04	Voar of Polar Prodiction studies	CGMS-	16 OPEN	5.1
IPWG	4	A45.04	IPWG to produce documentation on	CGIVIS-	16 OPEN	5.1
			precipitation climate data record			
			generation and related activities			
			worldwide, including prospects for			
GSICS	4	A45.05	GSICS to produce annual state of the	CGMS-	16 OPEN	3.1
			observing system report to be delivered			
			at CGMS			
CGMS	4	A45.06	CGMS Agencies to implement Landing	CGMS-	16 OPEN	3.1
agencies			Pages on calibration events accessed via			
			WMO-OSCAR.			
CGMSSEC	5	A45.07	CGMS SEC to approach GOFC-GOLD to	CGMS-	16 OPEN	
			explore the possibility for CGMS			
			members to become part of the fire			
CGMSSEC	5	A45.08	cGMS SEC to explore with AEROSAT if	21.1	l-17 OPEN	
COIVISSEC	3	A43.06	they pursue an activity regarding the use	31-31	I-17 OPEN	
			of new-generation GEO data			
CGMS	5	A45.09	To confirm interest in a flood mapping	01-Se	0-17 OPEN	
agencies			pilot project using GEO satellites, as a			
lagorranos			proposal for the SCOPE-Nowcasting			
			executive panel meeting (18-20 Sep 2017			
NOAA and	5	A45.10	Develop a proposal to develop GEO-	01-Se	0-17 OPEN	
CMA			based flood mapping as a potential			
(lead),			SCOPE-Nowcasting pilot project. The			
WMO			WMO Multi-Hazard Early Warning System			
(contribut			(MHEWS) and the Flash Flood Guidance			
ing)			System (FFGS) should be invited to			
CMA	7	A45.11	CMA to add Clear-sky Radiance as an FY-	CGMS-	16 OPEN	
			4A baseline product	Journal of the state of the sta		
CGMS-45 V	NGII Reco	mmendatio				

"Actionee'	AGN item	Rec#	Description	Recommendation feedback/closing document	Status	HLPP ref	
ICWG	4	R45.01	ICWG to liaise with IPWG to explore common interests in the area of cloud microphysics and scattering libraries of		OPEN	3.7.2, 3.7.3	
WMO	4	R45.02	hydrometeors (liquid ice) Recognizing that IPWG has considerable expertise in precipitation science and applications, IPWG requests the WMO (likely via VLAB) to establish a regular training event on precipitation data sets and applications, for which IPWG will provide disciplinary expertise.		OPEN	4.2.1	
CGMS member, WG III	4	R. 45.03	Recognizing the need for continued enhancements to the baseline precipitation observing system to a broader user community (including hydrology, NWP prediction, RTM modelling), IPWG recommends that CGMS members continue to pursue advanced sensors through close coordination with CGMS ISWG's including IPWG, ITWG and ICWG.		OPEN		
IPWG	4	R45.04	IPWG to maintain close relationship with GEWEX in its work, and at its next workshop (e.g., through a joint session)		OPEN		
GSICS	4	R45.05	Calibration events logging task team be folded under GSICS as a task team		OPEN	3.1	
GSICS	4	R45.06	Under the task team, agencies should assess the compliance of each agency with the new guidelines on events logging, and establish a list of instruments to be addressed by the		OPEN		
ISRO	7	R45.07	ISRO to consider adding a direct broadcast capability to future satellites.		OPEN		

DOCH	7	D4F 00	Dechydromet to evalore stone with		ODEN		1
ROSH,	/	R45.08	Roshydromet to explore steps with		OPEN		
WG IV			Working Group IV to enable global				
			exchange of data from the MTVZA-GY				
CCNAC	0	D 4 5 00	instrument		ODEN		
000	8	R45.09	CGMS agencies encouraged to document		OPEN		
agencies			their products online, including ATBDs				
			and validation reports, and link product				
			page URLs to the WMO Product Access				
			Guide following defined documentation				
			criteria. (current agency focal points in				
			WMO IPET-SUP: Sally Wannop				
			(EUMETSAT), Natalia Donoho (NOAA),				
			Chu-Yong Chung and Jin Woo (KMA),				
			Xiang Fang (CMA), Shiro Ohmori (JMA))				
CNAA		D4F 10	9 91 11		OPEN		
CMA		R45.10	CMA to add Clear-Sky Radiance as a FY-		OPEN		
SCOPE-	WGII/3	R43.01	4A baseline product. SCOPE-CM to invite contributions to its	SCOPE-CM executive panel in Sep 2016 to	OPEN	3.3.2	
	WGII/3	K45.U1		· · · · · · · · · · · · · · · · · · ·	OPEN	3.3.2	
CM			next call for proposals, with particular	decide on approach regarding next call for			
members			regard to the sea ice, snow cover and	proposals; check draft SEP-11 report			
			land surface temperature communities,				
CGMS	WGII/3	R43.02	CGMS members to consider removing	To be discussed at second WGII inter-	OPEN	3.1.1	
members	WGII/3	1145.02	spectral gaps from future hyperspectral	sessional meeting after CGMS-44. (For WG III	OI LIV	5.1.1	
members			sounders to support GSICS	to consider)			
			intercalibration of IR imagers	to consider)			
CGMS	WGII/6	R43.03	CGMS members to consider include a	To be discussed at a second WGII inter-	OPEN	1.1.6	
members	, 0			sessional meeting after CGMS-44. (For WG III	0. 2	2.2.0	
IIICIIIDCI3			to polar-orbiting imagers, to maintain	to consider)			
			accuracy and coverage of polar winds and				
			cloud height retrievals achieved by				
CGMS	WGII/10	R43.07	CGMS agencies to make available a non	CGMS-44 IMD: At present there are no such	OPEN	2	
space			real-time cache of satellite level 1 data	plans (until a new data centre is installed).			
agencies			over the previous 2-3 months, similar to	, , , , , , , , , , , , , , , , , , , ,			
000110103			the NOAA CLASS system				
ISRO	WGII/5	R43.10	ISRO is encouraged to implementing a	CGMS-45: ISRO/IMD have plans	OPEN	HLPP#3	
			multi-sensor precipitation estimate based	· · · · · · · · · · · · · · · · · · ·			
			multi-sensor precipitation estimate based on SAPHIR and INSAT-3D				

	=	1	I				
-	WGII/6	R43.12	IWWG to liaise with the application focal	CGMS-45: IWWG addressed this for	OPEN	HLPP#	
IPET-			points in the WMO RRR process (on IPET-	capabilities, need to follow up regarding		1.1	
OSDE			OSDE) to provide feedback on the winds-	requirements			
			related observation requirements in the				
CCNAC	WGII/7	R43.13	CGMS Members to approach Operators	To be discussed at the second WCII inter	OPEN	HLPP#	
	WGII//	K43.13		To be discussed at the second WGII inter-	OPEN	1.1.3	
space			of GNSS systems to request them to	sessional meeting after CGMS-44.		1.1.3	
agencies			provide a minimum level of information	CGMS-45: IROWG discussed this and made			
			on the signal structure and interface	recommendations			
			control (ICD) in a timely manner to				
			enable the use of these for future RO				
GSICS	WGII/4	R44.02	GSICS to report to SCOPE-CM projects on	done, occurring in IOGEO	OPEN	3.3.2	
			its plan to intercalibrate the				
			geostationary ring using hyperspectral IR				
			sounders as transfer function				
GSICS	WGII/4	R44.03	GSICS member agencies to identify roles	CGMS-45: Partially addressed; GRWG	OPEN	3.1.1	
			-	encouraged agencies to inter-calibrate past			
			support the geostationary ring GSICS	data			
			corrections including the processing of				
			retrospective data going back to NASA				
CGMS	WGII/4	R44.04	CGMS agencies should employ the GSICS	Should be part of agencies	CLOSED	3.1.1	
space	******	11.04	Correction as part of their operational	Should be part of agencies	CLOSED	5.1.1	
agencies			procedures				
	WGII/4	R44.05	CGMS members to budget a baseline	CGMS-45: ICWG-WP-01: Currently, ICWG	OPEN	3.2.3	
members			funding for the cloud intercomparison	helps to facilitate the collection of data used			
			study, given its importance and impacts	for assessments (e.g., level-2 retrieval			
			on global cloud products.	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			
IROWG,	WGII/4	R44.06	To enhance coordination, ISWGs to		OPEN		
IPWG,			discuss with ICWG co-chairs key items for				
IWWG,			collaboration.				
ITWG							

			I		I		
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)	CGMS-45: NOAA consider this for GOES-16	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	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.).	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.		OPEN	1.1.4	
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,		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		OPEN	1.1.4	

CGMS	WGII/4	R44.14	CGMS agencies to maintain the	CGMS-44 WGII - For reference: WG III should	OPEN	1.1.1	
space			constellation of at least three polar orbits	discuss this and come up with results at			
agencies			(early morning, morning, and afternoon),	CGMS-45.			
			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				
CGMS	WGII/4	R44.15	Future satellite programmes should	CGMS-44 WGII - For reference: WG III should	OPEN	1.1.1	
space			include the provision of high temporal	discuss this and come up with results at			
agencies			frequency MW humidity sounding	CGMS-45.			
0			radiances (alongside cloud and	CGMS-45: NASA Cubesat mission Tropics			
			precipitation sensitive observations)	underway			
ROSH	WGII/4	R44.16	Roshydromet to develop and release a		OPEN	1.1.5	
			direct broadcast processing package for				
			the Meteor-M N2 series, including level 1				
			processing for the MTVZA-GY microwave				
			imager				
CGMS	WGII/4	R44.17	CGMS agencies to identify the resources	Reference is made to recommendation for	OPEN	3.2.1	
space			required to support the 3rd	ICWG.			
agencies			intercomparison of satellite-derived				
			winds				
CGMS	WGII/4	R44.18	CGMS satellite operators to consider		OPEN	1.1.6	
space			coordination of orbits for scatterometer	discuss this and come up with results at			
agencies			instruments and to provide open and	CGMS-45.			
			timely access to data in order to				
			maximise independent coverage and				
			benefits to nowcasting and NWP from				
20142		244 12					
CGMS	WGII/4	R44.19	CGMS agencies to explore possibilites to		OPEN		
space			derive winds from new upcoming				
agencies CGMS	WGII/4	R44.20	satellites and opportunities.	Dandling for indication of august to the least	ODEN	2 2 2	
	WGII/4	K44.20	CGMS members to continue to support	Deadline for indication of support to volcanic	OPEN	3.2.2	
members			SCOPE-Nowcasting and its transition to	ash activity)			
			pre-operational phase, in particular to	No indication of support to VA			
			* *	intercomparison so far received by WMO.			
			of the satellite-based volcanic ash	WMO has identified resources to engage			
			retrieval algorithm intercomparison	consultant for 2.5 months FTE to support			
			activitiy (Pilot Project 2) over the next 12-	SCOPE-Nowcasting.			
			18 months.	CGMS-45: Funds earmarked by EUMETSAT			
				,			

CGMS	WGII/6	R44.21	Operators to take into account in the		OPEN	2	
space	WUII/U	1144.21	planning of their data distribution		OF LIV		
-							
agencies			systems the emerging stringent				
			requirements on data latency from				
CMA	WGII/7	R44.22	CMA to make available data from FY-3D		OPEN		
			HIRAS and FY-4A GIIRS early in				
			commissioning				
CGMS	WGII/7	R44.23	CGMS agencies with operational direct	CGMS-45: Last week of June 2017, Madison	OPEN		
space			broadcast needs are encouraged to	WI, USA			
agencies			attend the next ITWG sponsored Direct				
			Broadcast Users Meeting in March 2017				
			hosted by CONAE Argentina				
CGMS	WGII/7	R44.24	CGMS agencies to provide key	CGMS-44 WGII: Part of WGII action to	OPEN	5.3	
space			documentation related to the quality of	develop best practices			
agencies			their products, to allow for informed	CGMS-45 NOAA-WP-13			
			uptake by users. These documents should				
			include ATBDs, cal/val plans, and regular				
CGMS	WGII/7	R44.25	For monitoring the Polar Regions, the	Link to WGIII required	OPEN	1.1	
space	, /		Group stressed the importance of the		O. 2		
agencies			deployment of HFO missions				
CGMS	WGII/8	R44.26	Satellite operating agencies should	CGMS-45: GSICS discussed this issue	OPEN	3.1.2	
space			support proposals and programs to				
agencies			acquire high-accuracy characterization				
			measurements of the Moon, to develop a				
			new, high accuracy, SI-traceable lunar				
			reference standard for reflected solar				
			· · · · · · · · · · · · · · · · · · ·				
CGMS	WGII/8	R44.27	Long-term continuity of absolute solar		OPEN	3.2.1	
space			spectral irradiance measurement with SI-				
agencies	MCH /2	D44.00	traceable accuracy should be ensured.		ODEN:		
CGMS	WGII/8	R44.28	Agencies to explore the possibilities to		OPEN		
space			develop suitable processing packages to				
agencies			support a direct broadcast				
			implementation of RO processing, within				
			the DBNet to improve timeliness for				
WGII	WGIII/6	R44.29	From WGIII to WGII: WGII to study this	CGMS-45: 6.9MHz currently used, in future	OPEN		
******	WGIII/ U	11.23	issue and provide guidance on the	only GCOM-W will provide this capability for	O. LIV		
			potential impact of temporal a gap in the	the time being.			
			PMW SST products	the time being.			
			TRIVING SST DECOUNCES				

	ction for refer	erence:				
CGMS	J.2	A45.26	CGMS members to confirm participation	Sep-17	OPEN	
members	1		in the 3 proposed Non Meteorological			
J	1		Applications projects - aerosol/dust, fire,			
,	1		and flooding - and nominate POCs to form			
'	′		Task Teams reporting to WGII			
The follow	√ing actions	s were rais	sed by WGII for the other CGMS Working Groups:			
	1				 	
WG III	WGII/4		Study the continuity of the current	CGMS-46	OPEN	
J	1		constellation of passive microwave			
J	1		sensors (for high quality satellite			
	1		precipitation products for weather, climate			
,	1		and hydrological applications) through			
, ,	1		proper coordination of satellites, sensors			
'			and equatorial crossing times.			
WG IV	WGII/4	$\overline{}$	Ensure timely (< 1 hr) and free access to	CGMS-46	OPEN	
, או טא	WGII/4			CGIVIS 40	OPEN	
,	1		all geostationary visible, IR and water			
, ,	1		vapour data that is required to improve			
'		Д	global hydrological prediction			
SWTT	SWTT/10	A45.02	SWTT members review GSICS activities	CGMS-46	OPEN	
members			and deliver recommendations for its use			
1101112013			as a framework for space weather sensor			
,	1		inter-calibration activities			
SWTT co-	SWTT/10	A45.12	Invite a GSICS representative to the next	CGMS-46	OPEN	
		A43.12		COIVIS-40	OPEN	
chairs	(WGII/9)		SWTT inter-sessional meeting; and to a			
1	1		topical discussion meeting during the			
1	1		European Space Weather Week 27 Nov- 1			
'		Ш	Dec 2017 in Octanda Ralgium			

WGIII actio	ons open fr	om previo	us plenary sessions (at CGMS-45)				
	AGN item		Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS members	WGIII/	A44.01	CGMS Members: To review and react to the WIGOS Vision 2040 as it develops	Input provided by EUM, NOAA (July 2016)	New deadline:	OPEN	1.1
WMO	WGIII/	A44.02	WMO Secretariat to present the draft Vision at CEOS, GEO plenary sessions 2016.	Deferred to next plenary cycle (2017)	(End 2016) New deadline:	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)	• =	31 Jul 2017	OPEN	5.3
CGMS-45	WGIII actio	ns					
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS	WGIII/4	A45.01	Initiate review of CGMS Baseline, to be synchronised with development of WMO "Vision for WIGOS in 2040"		CGMS-46	OPEN	
WMO	WGIII/ 5.1.1	A45.02	Update the risks assessment and gap analysis of implementation against the CGMS baseline; include the potential risk of gaps in the capability for passive		CGMS-46	OPEN	
CGMS	WGIII/5.4	A45.03	WMO to support one face to face Intersessional meeting to start off new planning effort.		CGMS-46	OPEN	
SETT	WGIII/8	A45.04	Propose a way forward for guiding and coordinating socio-economic Benefit studies among the CGMS community.		CGMS-46	OPEN	
WGIII and SWTT	WGIII/9	A45.05	WGIII and SWTT to organise a joint inter- sessional to discuss SW updates to CGMS baseline		Jul-17	OPEN	

WMO	WGIII/10	A45.06	Include impact of data latency among science questions posed to 7th WMO Impact Workshop		2020	OPEN	
CGMS Agencies	WGIII/5.1. 2	A45.08	Agencies to consider contributing resources (financial, in-kind, or via secondment) to the development and maintenance of OSCAR/Space		CGMS-46	OPEN	
WGIII	WGII/4	A45.07	Action from WGII: Study the continuity of the current constellation of passive microwave sensors (for high quality satellite precipitation products for weather, climate and hydrological applications) through proper coordination of satellites, sensors and equatorial crossing times.		CGMS-46	OPEN	
CGMS-45	WGIII Reco	mmendati	ons				
"Actionee	AGN item	Rec#	Description	Recommendation feedback/closing document	Status	HLPP ref	
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		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 bydrological applications		OPEN		

CGMS	WGII	R44.05	From CGMS-44 WGII: CGMS satellite		OPEN		
space			operators to consider coordination of				
agencies			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				
CGMS	WGIII/2.2	R43.01	CGMS members are encouraged to	Discussed at CGMS-44 and 45 and	OPEN	1.1.4	
members			consider including RO capabilities on all				
			future polar-orbiting satellites.				

			s plenary sessions (at CGMS-45)	Author Condition I Administration and a	D	CI . I	111.00
Actionee	AGN item		Description	Action feedback/closing document		Status	HLPP ref
EUM	WGIII/2	A43.02	(Action transferred from WGIII)	Status at CGMS-45:	(CGMS-44,	OPEN	1.1.6
				CGMS-45-EUMETSAT-WP-37	45)		
			plan for data from Indian Ocean Data	CGMS-45-ISRO-WP-05	New		
			Coverage partners identified in CGMS-	Ongoing work, deadline extended.	deadline		
			43-EUM-14 roadmap.		CGMS-46		
				WGIV webex 9 Dec 2015: WMO seeking to			
				assure that the dissemination to users will be			
				equivalent to the current one (EUMETSAT,			
				CMA, ROSH and ISRO to collaborate and			
				clarify this in view of CGMS-44.			
				EUMETSAT makes FY-2E data available			
				through EUMETCast.			
				EUM expects its Council to take a decision on			
				moving Meteosat-8 to ca 40° E in June 2016.			
				CGMS-44 EUM-WP-14			
				WG-IV webex/communication 18 Jan 2017:			
				Status of IODC Service by CMA:			
				The CMA FY-2E at 86.5E is undertaking IODC			
				service. CMA shall keep continuity of IODC			
				service at 86.5E, on assumption:			
				•			
				- FY-2G, launched 31 December 2014,			
				currently operating at 105E;			
				- Launch of FY-2H is planned for the end of			
				2017 or early 2018.			

NOAA	(WGI/4)	A43.03	NOAA to consider including GLM	12 Oct '17: NOAA - A decision will be made	(CGMS-44,	OPEN	
	WGIV/7		products in the HRIT stream	after GLM is declared operational, not before	45)		
				2018.	New		
					deadline		
				CGMS-45: NOAA evaluation still ongoing.	CGMS-46		
				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.			

TT	(WGI/6)	A43.05	CGMS Task Team on metadata to	Discussed at CGMS-45. Ongoing, deadline	(CGMS-44,	OPEN	3.4.1
metadata	WGIV/10.		define discovery metadata for DBNET	extended to CGMS-46	45)		
	1				New		
				NOAA:	deadline		
				CGMS-44-NOAA-WP-14 PPT	Dec 2017		
				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			
				WG-IV WEBEX 18 Jan 2017 and			
				communication:			
				СМА			
				http://data.cma.cn/en			
				http://satellite.nsmc.org.cn/PortalSite/defaul			
				t.aspx?currentculture=en-US			
				NASA:			
				https://search.earthdata.nasa.gov			

CGMS		A43.06	CGMS members to provide a listing of	Discussed at CGMS-45. Ongoing, deadline	(CGMS-44)	OPEN	-
members			their data access portals.	extended to CGMS-46.	New		
					deadline		
				WG-IV WEBEX 18 Jan, 12 Oct 2017 and e-mail	CGMS-46		
				communication:			
				CMA: http://data.cma.cn/en			
				http://satellite.nsmc.org.cn/PortalSite/defaul			
				t.aspx?currentculture=en-US			
				EUM: http://navigator.eumetsat.int			
				https://eoportal.eumetsat.int			
				CGMS-44-EUMETSAT-WP-17			
				ISRO: http://mosdac.gov.in			
				JMA/MSC: http://www.jma-net.go.jp/msc/en/			
				NASA: https://search.earthdata.nasa.gov			
				NOAA: CGMS-44-NOAA-WP-14 PPT			
				ROSC: CGMS-45-ROSCOSMOS-WP-03			
EUMETSAT	WGIV/7	A44.02	To provide a timeline for the users	WG-IV WEBEX 18 Jan 2017	(30 Dec	OPEN	5.3
			preparation information for MTG, in		2016)		
			accordance with "CGMS-44-WMO-WP-02 Best Practices for Achieving User Readiness		New deadline		
			for New Meteorological Satellites"		Dec 2017		
				CGMS-45: Ongoing work, keep open until more			
				mature. Extend deadline to WG-IV IS meeting.			
CGMS	WGII	A44.05	From CGMS-44 WGII: CGMS operators	WG-IV WEBEX 18 Jan 2017:	(CGMS-45)	OPEN	
members			and WMO to work with GODEX-NWP	WMO: GODEX-NWP scheduled May 2017,	New		
			to explore options for optimal data	needs will be addressed there, WMO will	deadline		
				provide feedback.	CGMS-4		
			gen GEOs.	COME AFT CODEY NIME			
				CGMS-45: GODEX-NWP not yet ready to			
CGMS-45 W	GIV action	S					

Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
JMA/KMA	WGIV/4	A45.01	JMA/KMA to coordinate a regional	JMA 12 Oct '17: The Coordinating Group	CGMS-45	OPEN	2.1, 2.2
			user survey in RA II/V based on the	meeting of RA II WIGOS satellite project on 21			
			WMO 2016 global survey (CGMS-45	Oct '17 will take place in Vladivostoc after			
			WMO-WP-15) in collaboration with	AOMSUC-8. The topic regarding the user			
			BOM and WMO, taking into	survey will be included in the agenda.			
			consideration the communication				
			satellite broadcast systems available in				
TFMI	WGIV/9	A45.02	TFMI to work on the WIGOS metadata		CGMS-46	OPEN	2.7
			standard, in particular to assess the				
			WIGOS Metadata OGC Observations				
			and Measurements standard, and				
			recommend possible adjustments for				
			satellite observations to the WMO				
CGMS	WGIV/12.1	A45.03	CGMS satellite operators to provide	WGIV IS 12 Oct '17: CGMS members are	CGMS-46	OPEN	2.8
satellite			documentation on the data formats	requested to provide a Working Paper to			
operators			for space weather observations, and	CGMS-46 in response to this action.			
			to forward related space weather	(combined with the response to action WGIV			
	ļ.,		metadata to the M/IS	Δ45 Ω4)			
CGMS	WGIV/12.2	A45.04	CCGMS members to report on the	WGIV IS 12 Oct '17: CGMS members are	CGMS-46	OPEN	2.9
satellite			status of near real-time access to	requested to provide a Working Paper to			
operators			space weather data from instruments	CGMS-46 in response to this action			
			hosted on meteorological satellites.	(combined with the response to action WGIV			
			This includes data from space	A45.03).			
			environment monitor suites, solar X-				
			ray/EUV sensors, and radio occultation				
			instruments on any orbiting satellite.				
			Members are asked to detail product				
			level definitions including near real-				
			time availability of each level and user				
			access required to obtain each level of				

WG IV	WGII/4	A45.05	Action from WGII: Ensure timely (< 1	25 Oct '17: CGMSSEC has sent a message to	CGMS-46	OPEN	
			hr) and free access to all geostationary	IPWG co-chairs to this purpose asking for			
				more details to enable WGIV to react.			
			is required to improve global				
			hydrological prediction.	WGIV IS 12 Oct '17: This action was discussed			
				and WGIV concluded the request is too open			
				and would have a significant impact on the			
				data access in this form.			
				The following clarification was formulated			
				and CGMSSEC is asked to pass this on to the			
				IPWG:			
				The precipitation community to clarify what			
				data are needed, in terms of time/spatial			
				resolution, spectral channel selection, and			
				sub-setting. CGMSSEC to follow this up with			
CGMS-45 W	GIV Recom	nmendatio	ns				
"Actionee"	AGN item	Rec#	Description	Recommendation feedback/closing	Status	HLPP ref	
				document			

CGMS	WGIV/7	R42.01	Satellite operators to provide WIS	CGMS-45: Recommendation still valid, to be	OPEN	2.7	
space			Discovery Metadata Records,	retained.			
agencies			compliant to WIS requirements and				
			•	NOAA: Related to metadata, the best			
			by the CGMS-WMO Task Force on	reference is NGDC metadata provided here			
			metadata implementation, in order to	the URL:			
			facilitate satellite information	http://www.ngdc.noaa.gov/metadata/			
			discovery and access				
				WGIV CGMS-43 discussions: Ongoing and			
				routine activity. Recommendation maintained			
				until CGMS-44			
				WGIV webex 9 Dec 2015: To be taken up at			
				the TT on Meta Data meeting the week of 14			
				Dec 2015.			
				See CGMS-44-EUMETSAT-WP-17.			
CGMS	WGIV/3.2	R44 01	CGMS members to contribute to the		OPEN	5.3	
members	VVGIV/3.2	11.01	implementation of the Best Practices	retained.	OI LIV	3.3	
members				Closed for NOAA.			
			satellite systems under development,	0.00000 10.110, 0.11			
			hoth GEO and LEO				
CGMS	WGIV/3.2	R44.02	CGMS members to continue the	CGMS-45: Recommendation still valid -	OPEN	5.3	
members			provision of up-to-date User Readiness	retained.			
			information in the SATURN portal				

SWTT action	ons open fr	om previou	us plenary sessions (at CGMS-45)				
	AGN item			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-45: CGMS presentation and discussions have occurred at European Space Weather Week (ESWW) and UNCOPUOS. Discussions have been held with leadership of ISWI,	(15 Dec 2016) New: 30 Nov 2017, CGMS-46	OPEN	5.2.1
	WTT action					1-	
	AGN item			Action feedback/closing document	Deadline	Status	HLPP ref
CGMS space agencies	SWTT/7	A45.01	SWTT members to identify initial baseline for space- based space weather measurements and hold inter- sessional with WGIII to plan forward analyses. This will be finalised in the first inter-sessional to be held on 14 September 2017	Joint IS held on 27 2017. Proposed space-based space weather CGMS baseline to be distributed 16 Oct 2017.	30 Sep 2017	OPEN	1.1.7
	SWTT/10 (WGII/9)	A45.02	SWTT members review GSICS activities and deliver	14 Sep 2017, GSICS materials discussed during IS. 11 Oct 2017, Decision made to pursue GSICs as framework for inter calibrations of space weather products. 12 Oct 2017, discussed GSICS as topical discussion at ESWW.	30 Dec 2017	OPEN	3.1.3
	SWTT/10 (WGII/9)	A45.03	Invite a GSICS representative to the next SWTT intersessional meeting; and to a topical discussion during the European Space Weather Week Nov-Dec 2017 in Oostende, Belgium	14 Sep 2017, Mitch Goldeberg attended the SWTT IS. 11 Oct 2017, Decision made to pursue GSICs as framework for inter calibrations of space weather products. ESWW will be determined on 12 Oct 2017.	30 Dec 2017	OPEN	3.1.3

CGMS	SWTT/11	A45.04	CGMS operators report on internal procedures to	Ongoing	30 Dec	OPEN	
space			determine if an anomaly results from a space weather		2017		
agencies			event including what thresholds are used.				
SWTT Co-	SWTT/11	A45.05	CGMS to engage WMO IPT-SWeISS to encourage	SWTT Co-chair Elsayed Taalat, NASA, nominated	30 Dec	OPEN	
Chairs			incorporation of an analysis of anomaly collection,	(EUM/SCIR/LET/17/928853 of 5 July 2017).	2017		
			reporting, and resolution processes into their work	Door open to further nominations.			
			nlan	Included with A45 04			
SWTT Co-	SWTT/10	A45.06	Engage ISES as an observer for CGMS plenary meeting	SWTT Co-chair Elsayed Talaat, NASA, nominated	30 Dec	OPEN	5.2.1
Chairs			and/or include with SWTT inter-sessional activities.	(EUM/SCIR/LET/17/928853 of 5 July 2017). Door open	2017		
				to further nominations.			
SWTT Co-	SWTT/10	A45.07	Survey CGMS member operators regarding if and how	14 Sep 2017, operator survey reviewed during SWTT IS.	30 Dec	OPEN	3.6.4
Chairs			actions are taking by satellite operators in response to	Updated inputs sent to WGI for review. Comments	2017		
			space weather threats and/or conditions	incorporated and updated survey questions distributed			
				on 10 Oct 17 by Joaquin to WGI; and by Elsayed to			
				SWTT for collection by WGI			
SWTT	SWTT/15	A45.08	SWTT develops recommendation as to future structure		CGMS-46	OPEN	
			of the interface between CGMS and the space weather				
			community going forward.				
CGMS-45 S	CGMS-45 SWTT Recommendations						
"Actionee'	AGN item	Rec#	Description	Recommendation feedback/closing document	Status	HLPP ref	

R44.01	On Space Weather Task Team:	CGMS-45 discussions: Sustain the SWTT for another	OPEN	5.2	
	Sustain the SWTT for another year in order to enable	year in order to enable CGMS space weather			
	CGMS space weather integration.	integration into existing Working Groups until CGMS-			
		46.			
		CGMS-45: 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 organised 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.") - Nov 2017			
		Presentation of CGMS at UN/US ISWI workshop -			
		Jul/Aug 2017			