CGMS-45 F	Plenary acti	ions					
Actionee	AGN item		Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS space agencies		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)	15 Feb 2018: Feedback also provided in response to action CGMS A45.19 (related to carbon monitoring in the Vision 2040) CGMSSEC IS 21 Nov 2017: WMO is currently consolidating the input in a single document over the next 2 months and it will be shared at the latest by CGMS-46.	31 Jul 2017		nerr iei
CGMS	C.2	A45.02	CGMS International Science Working Groups and CGMS space agency	JMA, NOAA and NASA feedback provided. CGMSSEC IS#2 30 Jan 2018:	CGMS-46	OPEN	
space agencies, IROWG, IPWG, IWWG, ICWG, ITWG			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. Questions are needed for CGMS-46 for the analysis to be made and results provided to the the workshop in 2020.	WMO to prepare a formal announcement in spring 2018 in preparation of the workshop. WGII IS #1 20 Nov 2017: IPWG: Not started yet ICWG: To progress on the assimilation of cloud properties for very short range NWP forecasting using very high resolution models. For example, can cloud property retrievals help to select the ensemble member (time + t) that matches the current cloud conditions best. ITWG: Mitch Goldberg to initiate discussion with Co-chair. IWWG: ? IROWG: ?			
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.	CGMSSEC IS#2 30 Jan 2018: Discussion ongoing with CEOS SEC.	CGMS-46	OPEN	

CGMS	C.3	A45.04	CGMS to invite the ISWGs to nominate experts for participation in the	CGMSSEC	End Aug	CLOSED	
	15.0	1	OSCAR/Space Science and Technical Advisory Team.	EUM/CGMS/LET/17/929217 of	2017	CLOCLD	
			The state of the s	10 July 2017			
				IROWG: Harald Anlauf			
				<harald.anlauf@dwd.de></harald.anlauf@dwd.de>			
				(nominated by IROWG co-chairs			
				3 Aug 2017)			
				IWWG: Regis Borde			
				<regis.borde@eumetsat.int></regis.borde@eumetsat.int>			
				(nominated by IWWG co-chairs 1			
				Aug 2017)			
				IPWG: Sophie Cloche			
				<sophie.bouffies-< td=""><td></td><td></td><td></td></sophie.bouffies-<>			
				Cloche@ipsl.jussieu.fr>; (26 Sep			
				2017)			
				ICWG: Steven Sherwood			
				<s.sherwood@unsw.edu.au></s.sherwood@unsw.edu.au>			
				ITWG & GSICS:			
				mitch.goldberg@noaa.gov			
NOAA	C.4	A45.05	NOAA/NESDIS to support the Space-based Monitoring of Weather and Climate	30 Jan 2018: WMO, NOAA,	CGMS-46	OPEN	
			Extremes project by providing satellite observations of heavy precipitation	IPWG discussions. WMO to hold	(31/12/2017		
			events, and land surface parameters for monitoring droughts. The observations	workshop in March 2018. CGMS-)		
			are required with a short latency of about one day. Furthermore the project	46 WMO-WP-xx			
			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-	In progress.			
JAXA	C.4	A45.06	JAXA to support the Space-based Monitoring of Weather and Climate Extremes			OPEN	
			project by providing a short-term (from 5-day up to monthly) climate normal from		(31/12/2017		
			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	now going to set-up the ftp site to			
			utilized in the SEMDP (CGMS-45-WMO-WP-05).	provide GSMaP data for the			
				SEMDP, which will be expected to be ready by the end of March			
				2018.			
				2010.			
				CGMSSEC IS#2 30 Jan 2018:			
				See action A45.05.			
		1	I .	000 a0001 A+0.00.			

IPWG	C.4	A45.07	IPWG co-chairs and rapporteur to provide guidance on the estimation of 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)	CGMSSEC IS#3 7 Mar 2018: A draft document is under preparation tentatively to be presented to CGMS-46 GMSSEC IS#2 30 Jan 2018: WMO to discuss interaction with IPWG. Nov '17: IPWG Rapporteur has participated as a member of the planning group for SEMPD and has reported the request to the	CGMS-46	OPEN	
JWG CLIM	C.4	A45.08	CEOS/CGMS Working Group on Climate to provide feedback on the proposed definition for ICDR (CGMS-45-WMO-WP-05)	IPWG co-chairs. Expected to be discussed at the JWClimate in WMO on 27-29 March 2018,	CGMS-46	OPEN	
WMO	C.6.1	A45.09	WMO to report to CGMS-46 on the status of the development of WMO Policy Framework for public-private sector engagement in view of the implications for free and open international exchange of meteorological satellite observations	CGMSSEC IS#2 30 Jan 2018: IPET-SUP will discuss this in Feb 2018. IPET-SUP is preparing a 'Critical Satellite Data Position Paper'. A WMO paper is expected for CGMS-46. CGMSSEC IS 21 Nov 2017: Still under elaboration at WMO. CGMS-46 WMO-WP-xx	CGMS-46	OPEN	
members	C.6.1	A45.28	CGMS members to provide a focal point of contact to WMO (wbalogh@wmo.int) for participation in the WMO Public Private Engagement discussion	CGMSSEC IS 21 Nov 2017: Action to be revisited at CGMS-46. EUM: paul.counet@eumetsat.int IMD: Dr. S.K.Peshin, Scientist-G/ Head Satcom <sunil <sunil.peshin@gmail.com="" peshin=""> NOAA: Karen Saint Germain <karen.st.germain@noaa.gov></karen.st.germain@noaa.gov></sunil>	15-Oct-17	OPEN	
IOC- UNESCO	C.8	A45.29	IOC-UNESCO to provide a paper on guidance to CGMS members (at CGMS-46) on geostationary satellite measurements of essential ocean variables.	CGMS-46 IOC-UNESCO-WP-01	CGMS-46	OPEN	
WMO	C.8	A45.10	WMO to report on the progress regarding JCOMM TT and satellite observations.	CGMS-46 WMO-WP-xx	CGMS-46	OPEN	
EUMETSAT	D.13	A45.11	EUMETSAT, on behalf of ROSHYDROMET, to ingest Meteor-M N2 level 1 brightness temperatures from MTVZA-GY on the GTS for global data exchange	The instrument stopped working and is non-recoverable.	Q4 2017 (Q3 2017)	CLOSED	

	E.1.1.1	A45.12	AMV International Intercomparison studies.	Recall to IWWG purpose of action and discussion 2-3 years ago regarding overall funding of ISWGs at CGMS. EUM (Ken Holmlund), NOAA (Mitch Goldberg), to interact with the respective ISWG co-chairs.	CGMS-46	OPEN	
CGMSSEC		A45.13	and passive bands necessary for remote sensing. It also agreed in tasking WMO to take similar steps and informing the different members of WMO on the need of emphasasing the importance of protecting the passive sensing bands (as per WGI discussions, CGMS-45-CGMS-WP-05)	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	Jun/Jul 2017	CLOSED	
	E.2	A45.14	emphasasing the importance of protecting the passive sensing bands (as per WGI discussions, CGMS-45-CGMS-WP-05))	WMO letter 27975/2017/OBS/WIS/ITS/RF of 31 Jul 2017 Circulated on CGMS and WGI list servers 17 Aug 2017	mid July 2017	CLOSED	
WGI/WGIV (CGMS members)	E.2	A45.15	WGI/WGIV to establish a small task team to examine the current Terms of Reference in light of the thematic areas covered by both working groups to 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-46	OPEN	
CGMS members	E.4	A45.16	CGMS members to nominate contributors to participate in the intersessional meetings on the CGMS contingency planning including the WMO face-to-face meeting (ref WGIII discussions, CGMS-45-CGMS-WP-07) in Geneva (at WMO).	The workshop will be held on 30 Apr - 2 May 2018 at WMO. CMA: zhangp@cma.gov.cn EUM: sean.burns@eumetsat.int IMD: Virendra Singh <vsvsingh69@gmail.com> JMA: Yoshishige Shirakawa <yshirakawa@met.kishou.go.jp> NOAA: ajay.mehta@noaa.gov WMO: riishojgaard@eumetsat.int</yshirakawa@met.kishou.go.jp></vsvsingh69@gmail.com>	Jul-17	CLOSED	

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)	To be held on 30 Apr - 2 May 2018 at WMO (postponed from 5-7 March 2018)	Q1 2018	OPEN
WMO E	E.5	A45.18	WMO to send an invitation for the IPT-SWeISS to the CGMS Secretariat to secure participation by CGMS at the meeting.	CGMSSEC IS#2 30 Jan 2018: Action now closed. Elsayed Taalat is the CGMS point of contact. WMO letter 22994/2017/OBS/SAT/IPT- SWeISS of 27 June 2017	Jul-17	CLOSED
				received by CGMSSEC. CGMSSEC letter 928853 of 5 July 2017 initially nominating Elsayed Taalat (SWTT Co-Chair).		
CGMS members	G	A45.19	CGMS to deliver proposal to WMO for inclusion in Vision 2040 for a target architecture to monitor GHG and carbon from space. (Ref. CGMS-45 plenary session G)	15 Feb 2018: Comments by JAXA and David Crisp incorporated. Sent to WMO for further consideration. CGMS informed via list server. Jan 2018: CGMSSEC has circulated an amended document mid January requesting feedback by members by 1 February 2018. CGMSSEC IS 21 Nov 2017: WMO welcomes such contribution which eventually	Oct-17	CLOSED
				would be incorporated in the space programme section of the integrated WIGOS Vision 2040. The CEOS-CGMS writing team is putting together a white paper. Ken and Stephan continues to request feedback.		

CGMS members	H.2	A45.20	CGMS to endorse the gap analysis report and the coordinated action plan in writing prior to CEOS 2017 plenary meeting, to the Joint CEOS-CGMS WG Climate (joerg.schulz@eumetsat.int)	CGMSSEC IS#2 30 Jan 2018: Further information to be provided following CEOS SIT-33. For CEOS: CEOS SIT Workshop has decided that this document will be presented to CEOS SIT-33 in April 2018. For CGMS: Endorsement will be required by/at CGMS-46 plenary. An agenda item will be included to this purpose. NOAA provided feedback prior to CEOS.	CGMS-46 (15/10/2017)	OPEN	
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 response has been provided to GCOS and UNFCCC Secretariat. NOAA comments sent prior to SBSTA-47	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	CLOSED	
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))	Mar 2018: GEO invited to CGMS-46 - answer pending. CGMSSEC IS#2 30 Jan 2018: No further progress. NOAA provided comments on GEO work programme.	15-Sep-17	OPEN	

CGMS members	l.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.	CGMSSEC IS#2 30 Jan 2018: NOAA considers supporting this position. Discussions ongoing between WMO and NOAA.	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	WGII to lead on this activity (WGII to confirm the lead point of contact). EUM: bojan.bojkov@eumetsat.int, lothar.schueller@eumetsat.int IMD: Ashim K. Mitra, Scientist-D (SR-Cal/Val) ashimmitra@gmail.com JMA: Koji Yamashita satellite@ml.kishou.go.jp KMA (NMSC): Eun-Ha SOHN soneh0431@korea.kr NOAA: mitch.goldberg@noaa.gov	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	30 Jan 2018: Potentially might not be considered a priority at this point in time (unclear if a direct relevance to SCOPE-NWC). What is WMO's view on this following the meeting? JMA declined participation in the project (8 Sep 2017). EUM: Limited resources, and little relevance currently IMD: participation confirmed (3 Oct '17). NOAA presented its interest at the meeting.	01-Sep-17	OPEN	
CGMSSEC		A45.30	Fire: CGMS SEC to approach GOFC-GOLD to explore the possibility for CGMS members to become part of the fire project	Mar 2018: CGMSSEC has drafted a letter inviting GOFC-GOLD to attend WGII at CGMS-46.	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.	Mar 2018: CGMSSEC has drafted a letter inviting AEROSAT to attend WGII at CGMS-46.	CGMS-46	OPEN	
CGMS-45 p	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.	Can WMO provide further information? CGMSSEC IS#2 30 Jan 2018: CGMSSEC to contact WMO/Bojinski 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 CMA: ?	CGMS-46	OPEN	
CGMS-45 p				December detical foodback	UL DD vof		-
"Actionée"	AGN Item	Kec #	Description	Recommendation feedback/ closing document	HLPP ref		

CGMS 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	B2a http://www.beidou.gov.cn/xt/gfxz/ 201712/P0201712267423573641 74.pdf B1c http://www.beidou.gov.cn/xt/gfxz/ 201712/P0201712267413420130 31.pdf		
WMO	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.	21 Feb 2018: Discussions between IPWG and VLab have started on how to organize regular joint training activities in response to identified needs. CGMSSEC IS#2 30 Jan 2018: WMO/Bojinski to provide feedback to CGMSSEC For information: Nov '17: IPWG co-Chair (Haddad) provided training at AOMSUC-8, Oct. 2017	CLOSED	

CGMS	E.1.3	R45.03	Recognising the need for continued enhancements to the baseline precipitation	23 Feb 2018 - IPWG: It would		
members +			observing system to a broader user community (including hydrology, NWP	include (but not be limited to):		
IPWG,			prediction, RTM modeling), IPWG recommends that CGMS members continue	Space based precipitation and		
ITWG and			to pursue advanced sensors through close coordination with CGMS ISWG's	cloud radars - one that combined		
ICWG			including IPWG, ITWG and ICWG.	relevant frequencies of heritage		
				sensors like cloudsat and GPM		
				precip radar. Microwave cloud		
				imagers (similar to what will fly on next generation EUMETSAT		
				polar orbiters); geostationary		
				microwave sensors; lightning		
				mappers		
				CGMSSEC IS#2 30 Jan 2018: Further clarification to be		
				requested from IPWG about		
				scope of "advance sensors".		
				Recommendation to be		
				addressed in WGII		
				[General scope to be discussed		
				in WGIII Apr/May workshop - in		
				light of a continuity of GPM type		
				mission]		
IOC-	C.7	R44.02	On Second International Indian Ocean Expedition (IIOE-2, 19-23 March	CGMSSEC IS #3 7 Mar 2018:	2.5	
UNESCO,			2018) for enhanced data acquisition and management: It was recommended			
CGMS			to establish a working alliance between the IIOE-2 and the remote sensing	to identify recommendations for		
members			community (CGMS) within/through the IIOE-2 Steering Committee framework	coordination between CGMS and		
			and/or the IIOE-2 Joint Project Office.	the IIOE community for potential		
			http://www.iioe-2.incois.gov.in/	reporting to WGII and WGIII.		
				CGMSSEC IS#2 30 Jan 2018:		
				No further progress.		
				There was no feedback by		
				CGMS-45 and the		
				recommendation remains open.		

	AGN item		us plenary sessions (at CGMS-45) Description	Action feedback/closing document	Deadline	Status	HLPP ref
	WGI/6	A43.06	WMO to assess the impact of improved data latency from polar orbiters on NWP (WMO Impact Workshops) and other applications	Discussed at CGMS-45.	(CGMS- 44) New deadline	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		(Feb 2017) CGMS-46	CLOSED	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.	request a paper accordingly.	(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		(CGMS- 45) CGMS-46	OPEN	
CGMS-45	WGI action	ns 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	End June 2017		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 intersessional meeting	Draft survey circulated on WGI list server on 13 September 2017.		CLOSED	
CGMS WGI members	4.2	A45.04	WGI members to nominate/confirm points of contact participating in the related intersessional meetings	NOAA: vanessa.l.griffin@noaa.gov	Jun 2017	CLOSED	1.4
EUM	5	A45.05	EUMETSAT to report to CGMS-46 on the status of progress on future EDCP (ESA study)	CGMS-46 EUM-WP-xx	CGMS-46		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- sesssional meeting		Sep 2017	OPEN	1.2

CGMS members	6.2	A45.07	WGI to re-assess during the dedicated inter- sessional meetings the aspects of S/W delivery and installation needs in BP.04 for avoiding, if considered adequate, making explicit reference to any tool or package.	Update to be provided by EUMETSAT at CGMS- 46 CGMS-46 CGMS-WP-xx	CGMS-46	OPEN	1.4
CGMS members	6.2	A45.08	CGMS member with satellites with a Direct Broadcast 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.	WGI intersessional to be held in 11 April 2018 closure expected at that stage. WGI-IS-DB 6 September 2017: EUMETSAT presented the updated template for the Implementation Status. It was agreed to distribute the document as is across the different CGMS organizations and review its completion during the following intersessional meeting. The template can evolve when feedback is provided. EUMETSAT and NOAA will present their Implementation Status during the next intersessional meeting.	Oct 2017	OPEN	1.4.
WGIV chairs and rapporteu rs	9 (AOB)		themes for both working groups to include the possible merger of the two working groups.	To be addressed at CGMS-46. CGMS-46 CG <s-wp-xx (proposal="" 2017="" 6="" and="" cgms-46="" cgms-wp-xx="" co-chairs="" dec="" discuss="" forward.="" i="" iv="" iv)<="" meet="" of="" on="" rapporteurs="" revised="" td="" the="" to="" tors="" way="" wg="" wgs="" will=""><td>CGMS-46</td><td>OPEN</td><td></td></s-wp-xx>	CGMS-46	OPEN	
	WGI Reco						
"Actionee	AGN item	Rec#	Description	Recommendation feedback/closing document	Status	HLPP ref	

CGMS space agencies	WGI/2	R44.01	CGMS agencies to inform their Frequency Managers on the space weather activities to ensure the necessary protection and coordination at Frequency 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"	CLOSED	1.3	
CGMS space agencies	WGI/5	R44.02	All CGMS DCS operators to consider making all DCP messages available on the GTS.	Best practices will be proposed in WGI at CGMS-46. CGMS-46 CGMS-WP-xx IMD: DCP message of IMD network is being disseminated on GTS. [Nov 2017] CGMS-45 CMA-WP-xx CGMS-45 EUM-WP-28 CGMS-45 ISRO-WP-xx CGMS-45 JMA-WP-xx NOAA currently does this CGMS-45 NOAA-WP-xx CGMS-45 ROSH-WP-xx	CLOSED	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	Closed with reference to WGI CGMS-44 action A44.08. Nov 2017: DCP message of IMD network is being disseminated on the GTS.	CLOSED	5.2	

WGII actio	ons open fro	m previou	s plenary sessions (at CGMS-45)				
	AGN item		Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS space agencies		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.	WGII IS#2 15 Mar '18: ICWG meets in Nov 2018 and expects it to be closed by then. 26 June 2016 date TBC WGII IS #1 20 Nov '17: Two golden days for intercomparison studies have been chosen: 19 Aug 2015 (ICWG cloud properties), 21 July 2016 (ICWG and IWWG). CGMS-45: remains open since some submissions missing or forthcoming and closing is now foreseen for spring 2018. IPWG will assess the initial results at the next IPWG meeting in Autumn 2018. CGMS-44: ICWG plans underway. Communicate new golden days to CGMS members as soon as decided.	CGMS-46 (1 Sept 2016)	OPEN	3.2.3
IMD	WGII/6	A44.08	· ·	WGII IS #1 20 Nov '17: Documentation provided by ISRO on 12 June 2017. WMO to forwarded document to CGMSSEC and action is closed accordingly.	1 Oct 2016	CLOSED	

	AGN item		Description	Action feedback/closing document	Deadline	Status	HLPP re
GMS-45	 WGII action	S		IROWG rapporteur to check status (space			
				requirement on ionospheric processing.			
				IROWG to look at the implications of the			
				should be deployed to reduce data latency			
				stations (e.g., McMurdo, Troll)			
				case of COSMIC-2 Polar, south polar ground			
				future missions when possible. In the specific			
				should be considered to be a useful goal for			
				optimal, but is not always practical, and			
				Near-real time data latency would be			
				minutes is of lower value for current models.			
				available for use in operational models within 30 minutes or less. Data older than 30			
				enable 95 % of the measurements to be			
				communications infrastructure that will			
				that future RO missions include			
				CGMS-45: IROWG-WP-01: We recommend			
				alternatives			
				current form, NOAA is considering			
				N.B. COSMIC-2B has been discontinued in its			
				WGII IS #1 20 Nov 2017:	(CGMS-45)		
					CGMS-46		
			timeliness for RO observations	attend/report to CGMS-46.	deadline:		
ROWG	WGII/8	A44.13	IROWG to define the requirements on	WGII IS#2 15 Mar '18: IROWG is expected to	New	OPEN	1.1.4

SCOPE-	4	A45.01	SCOPE-CM Chair to inform ISRO about	WGII IS#2 15 Mar 2018:	15 Aug	CLOSED	3.3.2
CM Chair			the maturity matrix model, to enable its application to ISRO datasets.	Action closed following discussions.	2017		
				WGII IS #1 20 Nov 2017:			
				SCOPE-CM EP-12 held in Oct 2017 (ISRO			
				participated remotely). WGII to follow up on			
IROWG	4	A45.02	IROWG to develop a detailed proposal for		CGMS-46	OPEN	
			OSSEs regarding LEO-LEO MW occultation	information.	(1 Nov		
			and GNSS-RO&-reflectometry.	4.5.1.2040/20.112047	2017)		
				1 Feb 2018/29 Nov 2017: Activity initiated, IROWG has reached out to its members,			
				deadline extended. Regarding the GNSS-R			
				OSSEs, some work has been done to be			
				extended as the global observing system			
				develops. Regarding LEO-LEO occultation			
				OSSEs, limited progress is expected prior to			
IWWG	4	A45.03	IWWG to liaise with the NOAA	WGII IS#2 15 Mar 2018:	01-Jul-17	OPEN	
				Yr of polar prediction ongoing. NASA will start			
				looking at these in NRT in their model. Steve			
			potential use of 3D winds from AIRS for Year of Polar Prediction studies.	Wanzong NASA will talk to NOAA.			
				WGII IS #1 20 Nov 2017: No update; NRT			
				product by Dave Santek (SSEC/U Wisconsin)			
				used by NASA GMAO as part of a project;			
				Steve Wanzong to inform Jeff Key			

IPWG	4	A45.04	IPWG to produce documentation on	WGII IS#2 15 Mar 2018:	CGMS-46	OPEN	5.1
			precipitation climate data record	ECV gap analysis on precipitation CDRs			
			generation and related activities	ongoing with involvemetn from IPWG.			
			worldwide, including prospects for	Part of IPWG report to CGMS-46.			
			continuity				
				7 Mar 2018:			
				In conjunction with GEWEX, a precipitation			
				assessment is being planned; a mature			
				outline, with associated section leads, have			
				been identified and will be discussed further			
				over the coming months and at IPWG-9.			
				 WGII IS #1 20 Nov 2017:			
				IPWG is organsing a precipitation assessment			
				jointly with GEWEX - with a kick off meeting			
				held in Oct. 2017. Co-Chair Haddad and			
				former co-chair Roca (who serves as lead of			
				the GEWEX Data Working Group) are co-			
GSICS	4	A45.05	GSICS to produce annual state of the	WGII IS#2 15 Mar 2018: Mitch input?	CGMS-46	OPEN	3.1
			observing system report to be delivered				
			at CGMS	WGII IS #1 20 Nov 2017:			
				It is related to the action of GSICS-EP-03 "to			
				develop an approach for an Annual GSICS			
				report on the State of the Observing System			
				with Respect to Instrument Performance and			
				Intercomparisons with GSICS Reference			
				Instruments (from presentations given at the			
				GRWG meeting)".			
				GRWG/GDWG (meeting in March 2018) is			
				preparing for the template regarding the			
				report. It will be reported on in CGMS-46.			

CGMS agencies	4	A45.06	CGMS Agencies to implement Landing Pages on calibration events accessed via WMO-OSCAR.	WGII IS#2 15 Mar 2018: Other agencies are requested to provide the URL to their respective landing pages.	CGMS-46	OPEN	3.1
				KMA implemented the Landing Pages on COMS calibration events on June 2016. http://nmsc.kma.go.kr/html/homepage/en/landing/info.do#coms IMD Dr. Ashim K. Mitra, Scientist-D (SR-Cal/Val) NASA charles.webb@nasa.gov			
CGMSSEC	5	A45.07	CGMS SEC to approach GOFC-GOLD to explore the possibility for CGMS members to become part of the fire project.	9 Apr 2018: CGMSSEC sent an invitation to CGMS-46 WGII to GOFC-GOLD co-chairs to explore possible cooperation aeras. WGII IS #1 20 Nov 2017:	CGMS-46	OPEN	
CGMSSEC	5	A45.08	CGMS SEC to explore with AEROSAT if they pursue an activity regarding the use of new-generation GEO data	10 Apr 2018: Co-chairs of AEROSAT has responded positively, and expects to attend remotely with a presentation. 9 Apr 2018: CGMSSEC sent an invitation to CGMS-46 WGII to AEROSAT to explore possible cooperation aeras. WGII IS #1 20 Nov 2017:	31-Jul-17	OPEN	

CGMS	5	A45.09	To confirm interest in a flood mapping	WGII IS#2 15 Mar 2018:	CGMS-46	OPEN
gencies			pilot project using GEO satellites, as a	NOAA update:		
			proposal for the SCOPE-Nowcasting	- JPSS flood mapping projects ongoing as part	(Sep 2017)	
			executive panel meeting (18-20 Sep 2017	of JPSS proving ground; on GNC-A		
				- Int'l Charter Space and Major Disasters		
				contribution		
				- Contribution by NASA-USAID and other		
				federal agencies supporting the ServirHubs		
				- NOAA and CMA to discuss in week of 21		
				March 2018		
				CGMS-46 NOAA-WP-xx planned		
				CMA supports the intent to collaborate		
				For discussion at WGII at CGMS-46		
				WGII IS #1 20 Nov 2017:		
				(Ref. Plenary Action A45.27 and NOAA-CMA		
				Plenary Action A45.32)		
				INSAT-3D/3DR rainfall products are		
				disseminated. IMD confirms its participation		
				in the flood mapping pilot project to SCOPE-		
				Nowcasting EP.		
				CEOS WG Disasters just completed a pilot		
				study on using satellites for flood mapping		
				(http://ceos.org/ourwork/workinggroups/dis		
				, , , , , , , , , , , , , , , , , , , ,		

NOAA and	5	A45.10	Develop a proposal to develop GEO-	WGII IS#2 15 Mar 2018:	01-Sep-17	OPEN	
СМА			based flood mapping as a potential	CMA has progressed on flood mapping.			
(lead),			SCOPE-Nowcasting pilot project. The	Discussions to take place during GSICS EP on			
WMO			WMO Multi-Hazard Early Warning	in-situ NOAA/Mitch Goldberg and			
(contribut			System (MHEWS) and the Flash Flood	CMA/Zhang Peng			
ing)			Guidance System (FFGS) should be				
			invited to collaborate in this proposal.	WGII IS #1 20 Nov 2017:			
				(Ref. Plenary Action A45.32)			
				Potential interest by EUMETSAT Land,			
				Nowcasting and Climate SAFs. EUMETSAT to			
				invite experts to participate in next WG II IS			
				call (March 2018).			
CMA	7	A45.11	CMA to add Clear-sky Radiance as an FY-	5 Apr 2018: CGMS Secretariat provided a link	CGMS-46	OPEN	
			4A baseline product	to the MSG ATBD to CMA			
				http://www.eumetsat.int/website/wcm/idc/i			
				dcplg?IdcService=GET_FILE&dDocName=PDF			
				_MSG_MET_PROD_ATBD&RevisionSelection			
				Method=LatestReleased&Rendition=Web.			
				CMA confirmed it plans to add CSR products			
				to its operational products list (but this might			
				take some time to do so).			
				WGII IS#2 15 Mar 2018: CMA would like			
				guidance materials, end products JMA,			
				EUMETSAT, NOAA provide guidance material			
				(ATBD etc) to CMA regarding CSR products.			
				WGII IS #1 20 Nov 2017:			
				Not yet added as baseline product			

	WGII Recon					
Actionee	AGN item	Rec#	Description	Recommendation feedback/closing document	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 hydrometeors (liquid, ice).	WGII IS#2 15 Mar 2018: It was agreed to maintain the recommendation, albeit some difficulty in implementing it WGII IS #1 20 Nov 2017: Informal discussions held on the topic within	3.7.2, 3.7.3	
WMO	4	R45.02	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.	WGII IS#2 15 Mar 2018: ACTION: WMO to inform VLab about the ISWGs co-chairs regarding training requests. ISWGs are encouraged to organize training events for local students and practitioners, in conjunction with their science workshops, and in coordination with WMO VLab. IROWG workshops are usually combined with scientific workshops where students participate. IWWG considers this for the next workshop, as does IPWG. 21 Feb 2018: Discussions between IPWG and VLab have started on how to organize regular joint training activities in response to identified needs. CGMSSEC IS#2 30 Jan 2018: WMO/Bojinski to provide feedback to CGMSSEC WGII IS #1 20 Nov 2017: Although not specifically related to the action, the IPWG co Chair (Haddad) provided training at the most		

CGMS	4	R. 45.03	Recognizing the need for continued	WGII IS#2 15 Mar 2018:		
member,			enhancements to the baseline	Included in IPWG report aspects to CGMS		
WG III			precipitation observing system to a			
			broader user community (including	23 Feb 2018 - IPWG: It would include (but not		
			hydrology, NWP prediction, RTM	be limited to): Space based precipitation and		
			modelling), IPWG recommends that	cloud radars - one that combined relevant		
			CGMS members continue to pursue	frequencies of heritage sensors like cloudsat		
				and GPM precip radar. Microwave cloud		
			coordination with CGMS ISWG's including			
			IPWG, ITWG and ICWG.	generation EUMETSAT polar orbiters);		
				geostationary microwave sensors; lightning		
				mappers		
				WGII IS #1 20 Nov 2017:		
				ICWG input:		
				- To encourage the IPWG to use cloud		
				property retrievals as part of their		
				precipitation retrieval schemes. For example,		
				can cloud particle size, cloud top		
				temperature, cloud phase, and cloud liquid		
				water path information improve the		
				detection of convective or warm precipitating		
				clouds in an early stage (even before these		
				cloud start precipitating).		
				- To encourage the development of		
				combined cloud and precipitation retrievals,		
IPWG	4	R45.04		WGII IS#2 15 Mar 2018:		
			GEWEX in its work, and at its next	Joint session planned at IPWG-9.		
			workshop (e.g. through a joint session)			
				WGII IS #1 20 Nov 2017:		
				IPWG: see action WGII A45.05		

GSICS	4	R45.05	Calibration events logging task team be folded under GSICS as a task team	WGII IS#2 15 Mar 2018: To be discussed in GSICS meeting in week of 19 Mar 2018; results part of GSICS report to CGMS-46 WGII IS #1 20 Nov 2017: Dohyeong Kim to follow up. CGMSSEC to clarify whether WG I or WG IV should provide	3.1	
				operational guidance to logging task team (when reviewing the TORs of WG I and WG		
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			
ISRO	7	R45.07	ISRO to consider adding a direct broadcast capability to future satellites.			
ROSH, WG IV	7	R45.08	Roshydromet to explore steps with Working Group IV to enable global exchange of data from the MTVZA-GY instrument.	WGII IS#2 15 Mar 2018: Roscosmos has enquired with WMO and DBNet community about processing software details (for Linux platform, user documentation in English) WGII IS #1 20 Nov 2017: MTVZA-GY no longer functional,		
				WMO letter has gone to Roscosmos (Mikhail Khailov) regarding processing software for Direct Readout of future Meteor-M N2-1 data, following discussions at AOMSUC-8 in		

CGMS	8	R45.09	CGMS agencies encouraged to document	WGII IS#2 15 Mar 2018: WMO has taken		
agencies		1143.03	their products online, including ATBDs	these into account.		
agencies			and validation reports, and link product	these into account.		
			page URLs to the WMO Product Access	KMA has registered a link to COMS L1B		
			ļ			
			Guide following defined documentation	imagery in 2015 for WMO PAG and is		
			criteria. (current agency focal points in	currently available.		
			WMO IPET-SUP: Sally Wannop	(Link to L2 product imagery is not yet		
			(EUMETSAT), Natalia Donoho (NOAA),	registered with WMO PAG)		
			Chu-Yong Chung and Jin Woo (KMA),	KMA's web page has been renewed, they		
			Xiang Fang (CMA), Shiro Ohmori (JMA))	want to register a new imagery link of L1B &		
				L2 product including ATBD, and will send		
				renewed web information to WMO.		
				(e.g.		
				http://nmsc.kma.go.kr/html/homepage/en/s		
				atellite/searchSatelliteImage.do?data_type=1		
				001		
				=>		
				http://nmsc.kma.go.kr/html/homepage/en/v		
				er2/satellites/coms/searchSatelliteImageN.d		
				o?data_type=1001)		
				KMA POC (Ms. Woo not changed)		
				- Geun-Hyeok Ryu (geunhyeokryu@korea.kr)		
				- Jin Woo (superjwoo@korea.kr)		
				IMD will prepare an online product		
				document including ATBD, validation report		
				and its link will be communicated to WMO		
CMA		R45.10	CMA to add Clear-Sky Radiance as a FY-	CLOSED - duplicate - see action CGMS-46		
			4A baseline product.	WGII A45.11		
SCOPE-	WGII/3	R43.01	SCOPE-CM to invite contributions to its	SCOPE-CM executive panel in Sep 2016 to	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,			
			and others currently not represented			

CGMS	WGII/3	R43.02	CGMS members to consider removing	WGII IS#2 15 Mar 2018:	3.1.1	
members			spectral gaps from future hyperspectral sounders to support GSICS	Maintain it as a recommendation.		
			intercalibration of IR imagers.	To be discussed at second WGII inter-		
				sessional meeting after CGMS-44. (For WG III		
CGMS	WGII/6	R43.03	CGMS members to consider include a	WGII IS#2 15 Mar 2018:	1.1.6	
members			water vapour channel and a CO2 channel to polar-orbiting imagers, to maintain	Maintain it as a recommendation.		
			accuracy and coverage of polar winds and cloud height retrievals achieved by	To be discussed at a second WGII intersessional meeting after CGMS-44. (For WG III		
CCNAC	WGII/10	D42.07	MODIC	to consider) WGII IS#2 15 Mar 2018: -	2	
CGMS space	WGII/10	R43.07	CGMS agencies to make available a non real-time cache of satellite level 1 data	WGII 15#2 15 Mar 2018: -	2	
agencies			over the previous 2-3 months, similar to	Nov 2017: Satellite Level1 data availability of		
			the NOAA CLASS system.	last three months will be implemented after		
			,	installation and commissioning of MMDRPS		
				system expected in June 2018.		
				CGMS-44 IMD: At present there are no such		
ISRO	WGII/5	R43.10	ISRO is encouraged to implementing a multi-sensor precipitation estimate based		HLPP#3	
			on SAPHIR and INSAT-3D	report on this at Caivis-46.		
				Nov 2017: IMD will coordinate with SAC		
				(ISRO) to develop and implement the multi		
				sensor precipitation estimate based on		
				SAPHIR and INSAT-3D/3DR data on priority.		

IWWG,	WGII/6	R43.12	IWWG to liaise with the application focal	WGII IS#2 15 Mar 2018:	HLPP # 1.1	
IPET-	WGII, G	1145.12		Discussion at IWWS-14 is planned. Update to	111211 // 1.1	
OSDE			OSDE) to provide feedback on the winds-	be provided to CGMS-46. CGMS-46 IWWG-		
OSDE			related observation requirements in the	WP-xx		
			RRR database.	TURN INTO ACTION at CGMS-46: To be		
			Min database.	discussed at IWWG-14, and reported at		
				CGMS-46		
				CGMS-45: IWWG addressed this for		
				capabilities, need to follow up regarding		
CGMS	WGII/7	R43.13	CGMS Members to approach Operators	WGII IS#2 15 Mar 2018:	HLPP#	
space			of GNSS systems to request them to		1.1.3	
agencies			provide a minimum level of information	Beidou B2a and B1c ICDs are now available		
			on the signal structure and interface	(see Plenary Recommendation 45.01):		
			control (ICD) in a timely manner to	B2a		
			enable the use of these for future RO	http://www.beidou.gov.cn/xt/gfxz/201712/P		
			missions.	020171226742357364174.pdf		
				B1c		
				http://www.beidou.gov.cn/xt/gfxz/201712/P		
				020171226741342013031.pdf		
				CGMS-45: IROWG discussed this and made		
				recommendations		
				To be discussed at the second WGII inter-		
GSICS	WGII/4	R44.02	GSICS to report to SCOPE-CM projects on	WGII IS#2 15 Mar 2018: Done, occurring in	3.3.2	
			its plan to intercalibrate the	IOGEO. It was therefore proposed to close		
			, , , , ,	this recommendation.		
			sounders as transfer function			

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).	WGII IS#2 15 Mar 2018: SCOPE-CM is already undertaking this. Hence, it was proposed to close this recommendation. CGMS-45: Partially addressed; GRWG encouraged agencies to inter-calibrate past	3.1.1	
CGMS space agencies	WGII/4	R44.04	CGMS agencies should employ the GSICS Correction as part of their operational procedures	Closure of recommendation made Treated within the scope of GSICS and GSICS EP. Should be part of agency procedures. EUM partly undertakes this (not part of	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.	WGII IS#2 15 Mar 2018: For further discussion within ICWG. Co-chair to provide an updat. 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.	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.	WGII IS#2 15 Mar 2018: Maintain it as a recommendation. Nov '17: Some informal discussions held in		

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 All operators of next-generation GEO	WGII IS#2 15 Mar 2018: Maintain it as a recommendation. US decadal survey on EO from space, specific measurements were noted, will influence the decision making. WGII IS#2 15 Mar 2018:	3.2.4	
space agencies	,		imagers to consider the implementation of routine full-disc 10-min (or better) scanning for nowcasting	Maintain it as a recommendation. NOAA: 2 minute scan under consideration, needs testing for GOES-17, NWS to be involved		
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.	WGII IS#2 15 Mar 2018: Will be addressed in WGIII workshop on contingency planning, baseline review 30 Apr-2 May 2018. CGMS-45: Questions of resolution, frequency need to be resolved, not just high-level mission continuity CGMS-44 WGII - For reference: WG III should discuss this and come up with results at	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.		
NOAA	WGII/4	R44.11	NOAA to ensure that both, equatorial and polar components of COSMIC-2 are fully funded and launched.		1.1.4	

CCNAC	NACH /A	D44.42	CC14C'		1 1 1	
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		1.1.4	
			operational and research communities, based on recent impact studies (NWP,			
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		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	•	1.1.1	
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-45: NASA Cubesat mission Tropics underway CGMS-44 WGII - For reference: WG III should discuss this and come up with results at	1.1.1	
ROSC, ROSH	WGII/4	R44.16	Roscosmos to develop and release a direct broadcast processing package (for level 1 data) for the MTVZA-GY microwave imager. Roshydromet to provide dissemination of this package to interested users	Apr 2018: Following feedback from Roshydromet, the text of this recommendation has been updated (as discussed during CGMS-45 WGII).	1.1.5	

CGMS	WGII/4	R44.17	CGMS agencies to identify the resources	WGII IS#2 15 Mar 2018:	3.2.1	
space			required to support the 3rd	IWWG: The EUMETSAT NWC SAF will		
agencies			intercomparison of satellite-derived winds.	undertake the study. Recommendation to be converted into an action.		
				Reference is made to recommendation for ICWG.		
CGMS	WGII/4	R44.18	CGMS satellite operators to consider	CGMS-44 WGII - For reference: WG III should	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			
CGMS	WGII/4	R44.19	CGMS agencies to explore possibilites to	WGII IS#2 15 Mar 2018:		
space			derive winds from new upcoming	Maintain it as a recommendation. For IWWG.		
agencies			satellites and opportunities.			

CGMS	WGII/4	R44.20	CGMS members to continue to support	WGII IS#2 15 Mar 2018:	3.2.2	
members			SCOPE-Nowcasting and its transition to	Ongoing. SCOPE-NWC making good progress.		
			pre-operational phase, in particular to	Funding earmarked by EUMETSAT and WMO.		
			consider financial support the finalization	A Workshop to be held in October '18.		
			of the satellite-based volcanic ash retrieval algorithm intercomparison	Maintain as recommendation.		
				CGMS-45: Funds earmarked by EUMETSAT for 2018		
CGMS space	WGII/6	R44.21	Operators to take into account in the planning of their data distribution	Deadline for indication of support to volcanic ash activity) 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. WGII IS#2 15 Mar 2018: Maintain it as a recommendation.	2	
agencies			systems the emerging stringent requirements on data latency from			
СМА	WGII/7	R44.22	CMA to make available data from FY-3D 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		
space			broadcast needs are encouraged to	WI, USA		
agencies			attend the next ITWG sponsored Direct			
			Broadcast Users Meeting in March 2017			

CGMS	WGII/7	R44.24	CGMS agencies to provide key	CGMS-44 WGII: Part of WGII action to	5.3	
space	,		documentation related to the quality of	develop best practices	3.3	
agencies			their products, to allow for informed	CGMS-45 NOAA-WP-13		
agencies						
			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	1.1	
space	,		Group stressed the importance of the			
agencies			deployment of HEO missions			
CGMS	WGII/8	R44.26	Satellite operating agencies should	WGII IS#2 15 Mar 2018:	3.1.2	
space	ĺ		support proposals and programs to	Update expected at the March '18 GSICS		
agencies			acquire high-accuracy characterization	meeting. SWTT is preparig a proposal on		
agentices			measurements of the Moon, to develop a			
			new, high accuracy, SI-traceable lunar	GSICS. To be discussed at CGMS-46.		
			reference standard for reflected solar	dsics. To be discussed at Colvis-40.		
				CCNAC AE CCICC discussed this issue		
CCNAC	W/CII/0	D 4 4 2 7	wavelengths.	CGMS-45: GSICS discussed this issue	2.2.4	
CGMS	WGII/8	R44.27	Long-term continuity of absolute solar	WGII IS#2 15 Mar 2018:	3.2.1	
space			spectral irradiance measurement with SI-	Maintain it as a recommendation.		
agencies	14.6H/6	D 4 4 2 0	traceable accuracy should be ensured.			
CGMS	WGII/8	R44.28	Agencies to explore the possibilities to			
space			develop suitable processing packages to			
agencies			support a direct broadcast			
			implementation of RO processing, within			
			the DBNet to improve timeliness for			
			space weather applications			
WGII	WGIII/6	R44.29	From WGIII to WGII: WGII to study this	WGII IS#2 15 Mar 2018:		
	, 5		issue and provide guidance on the	Maintain it as a recommendation.		
			potential impact of temporal a gap in the			
			PMW SST products.	CGMS-45: 6.9MHz currently used, in future		
			Provide 351 products.	•		
				only GCOM-W will provide this capability for		
				the time being.		

WGIII acti	ons open fi	rom previo	us plenary sessions (at CGMS-45)				
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS	WGIII/	A44.01	CGMS Members: To review and react to	WGIII IS #3: Closed in view of	(Aug 2016)	CLOSED	1.1
members			the WIGOS Vision 2040 as it develops	progress of the Vision. If needed, new	New		
				actions will be raised on the occasion	deadline:		
				of CGMS-46.	CGMS-46		
				Feb 2018: CGMSSEC has provided an update to WMO based on feedback			
				from CGMS Members (see also CGMS			
				45 plenary actions).			
				Nov 2017: WMO is currently consolidating the space part into an integrated Vision 2040 document for which a draft will be presented to CGMS-46.			
				Jul 2016: Input provided by FUM			

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WMO	WGIII/	A44.02	WMO Secretariat to present the draft	WGIII IS #3 10 Apr 2018:	(End 2016)	OPEN	1.1
			Vision at CEOS, GEO plenary sessions 2016.	WMO to confirm if the vision will be	New		
				presented to CEOS. (Not on the CEOS	deadline:		
				SIT AGN in April 2018).	CGMS-46		
				WGIII IS 28 Nov 2017: WMO			
				organised a side event at GEO			
				plenary. WMO will seek to present			
				the Vision to CEOS in the course of			
				2018.			
				CGMS-45: Status presented, CGMS			
				agencies invited to provide			
				comments (including on carbon			
				observations).			
				Deferred to next plenary cycle (2017)			
CGMS	WGIII/3	A44.03	CGMS operators nominate focal points for	WGIII IS#3 10 Apr 2018: Other CGMS	31 Jul 2017	OPEN	5.3
members			maintaining these elements (dates, landing	members are requested to provide			
			pages), and other elements included in	their points of contact.			
			OSCAR/Space (e.g., instrument				
			characteristics).	EUM : sally.wannop @eumetsat.int			
				IMD: sunil.peshin@gmail.com			
				ISRO: jvthomas@isro.gov.in			
				NASA: charles.webb@nasa.gov			
CGMS-45	WGIII actio	ns					
	AGN item		Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS	WGIII/4	A45.01	Initiate review of CGMS Baseline, to be	WGIII #3 10 Apr 2018: Ongoing	CGMS-46	OPEN	
			synchronised with development of WMO	To be discussed at the workshop at			
			"Vision for WIGOS in 2040"	WMO on 30 Apr-2 May 2018.			

	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 microwave imaging in this update	WGIII IS#3 10 Apr 2018: Will be addressed at the Apr/May workshop, and the outcome will be provided to CGMS-46. WGIII IS 28 Nov 2017: WMO to provide a process proposal at the	CGMS-46	OPEN	
CGMS members	WGIII/5.4	A45.03	WMO to support one face to face Intersessional meeting to start off new planning effort.	WGIII IS#3 10 Apr 2018: Closed since the meeting is now scheduled. Workshop planned for 30/4-2/5 2018 at WMO, Geneva. Agenda to be discussed at the next WGIII intersessional and circulated ~end January		CLOSED	
SETT	WGIII/8	A45.04	Propose a way forward for guiding and coordinating socio-economic benefit studies among the CGMS community.	WGIII IS#3 10 Apr 2018: Apr/May meeting at which stage more information will follow. SETT seeking to identify new case studies. WMO recommends looking at risk analysis and SETT could look at potential consequences thereof.	CGMS-46	OPEN	
WGIII and SWTT	WGIII/9	A45.05	WGIII and SWTT to organise a joint intersessional to discuss SW updates to CGMS baseline	16 Oct 2017: SWTT draft space-based space weather baseline circulated, which includes SWTT and joint SWTT/WGIII discussions	Jul-17	CLOSED	

WMO	WGIII/10	A45.06	Include impact of data latency among science questions posed to 7th WMO Impact Workshop (in 2020)	WGIII IS#3 10 Apr 2018: WMO to confirm to what extent this is incorporated properly in the questions and address it at CGMS-46 as the latest. WGIII IS 28 Nov 2017: WMO expects to form the organising committee in the course of 2018 to address the WS content.	End 2018	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	WGIII IS#3 10 Apr 2018: CGMS-46	CGMS-46	OPEN	
WGIII	WGII/4	A45.07	Action from WGII (from CEOS VC SST): 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	WGIII IS#3 10 Apr 2018: To be discussed at the Apr/May workshop. WGIII IS 28 Nov 2017: To be considered in the framework of the gap analysis, contingency planning/baseline at the March 2018	CGMS-46	OPEN	
	WGIII Reco		Description Description	Recommendation feedback/closing	HLPP ref		
WMO	WGIII/	R44.02	Noting the recent conclusions of the WMO IPET-DRMM and the concurrence expressed in 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.	document	2.7	Recommer to be discu within the framework workshop i Apr/May 2	ssed of the

CGMS wgll R44.03 From CGMS-44 wgll: CGMS Members to continue an operational constellation of conically-scanning microwave platforms to guarantee sustained support for the current level of capability. CGMS wgll R44.04 From CGMS-44 wgll: CGMS to have a special discussion on the value of formation flying similar to the A Train — especially for precipitation and other hydrological applications. CGMS wgll R44.05 From CGMS-44 wgll: CGMS satellite operators to consider coordination of orbits for scatterometer instruments and	
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space operators to consider coordination of orbits for scatterometer instruments and	
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 1.1.4	
members consider including RO capabilities on all	
future polar-orbiting satellites.	
Plenary recommendation:	
CGMS E.1.3 R45.03 Recognising the need for continued CGMSSEC IS#2 30 Jan 2018:	
members enhancements to the baseline precipitation Further clarification to be requested	
+ IPWG, observing system to a broader user from IPWG about scope of "advance"	
ITWG community (including hydrology, NWP sensors". and prediction, RTM modeling), IPWG Recommendation to be addressed in	
ICWG recommends that CGMS members WGII	
continue to pursue advanced sensors	
through close coordination with CGMS To be discussed in WGIII Apr/May	
ISWG's including IPWG, ITWG and ICWG. workshop [continuity of GPM]	

WGIV Action	ons open fro	om previou	s plenary sessions (at CGMS-45)				
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	
EUM	WGIII/2	A43.02	(Action transferred from WGIII)	WGIV IS-1, Oct 2017:	(CGMS-44,	OPEN	
			EUMETSAT to propose dissemination	EUMETSAT: work in progress, pending	45)		
			plan for data from Indian Ocean Data	dissemination facility upgrade and	New		
			Coverage partners identified in CGMS-	EUMETCast Africa contract renewal in 2018,	deadline		
			43-EUM-14 roadmap.	and pending decision to add more data	CGMS-46		
				Status at CGMS-45:			
				CGMS-45-EUMETSAT-WP-37			
				CGMS-45-ISRO-WP-05			
				Ongoing work, deadline extended.			
				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			
				convice CMA shall keep continuity of IODC			

NOAA	(WGI/4)	A43.03	NOAA to consider including GLM	WGIV IS-1, Oct 2017: NOAA: A decision will	(CGMS-44,	OPEN	
	WGIV/7		products in the HRIT stream	be made after GLM is declared operational,	45)		
				not before 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	(CGMS-44,	OPEN	
	WGIV/10.		define discovery metadata for DBNET	45)		
metadata	1		define discovery inetadata for BBNET	New		
	1			deadline		
				Dec 2017		

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			
				IMD: www.satellite.imd.gov.in and			
				www.rapid.imd.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			
EUMETSAT	WGIV/7	A44.02	To provide a timeline for the users	WG-IV WEBEX 18 Jan 2017	(30 Dec	OPEN	
			preparation information for MTG, in		2016)		
			accordance with "CGMS-44-WMO-WP-02		New		
			Best Practices for Achieving User Readiness	provided.	deadline Dec 2017		
			for New Meteorological Satellites"	CGMS-45: Ongoing work, keep open until more	Dec 2017		
				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		
			exchange of advanced data from next-	provide feedback.	CGMS-4		
			gen GEOs.				
				CGMS-45: GODEX-NWP not yet ready to			
CGMS-45 W	VCIV action	c		and tide feedback			

Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status
JMA/KMA	WGIV/4	A45.01	JMA/KMA to coordinate a regional	JMA 11 Oct '17: The Coordinating Group	CGMS-46	OPEN
			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 EUM-WP-xx	CGMS-46	OPEN
			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 11 Oct '17: CGMS members are	CGMS-46	OPEN
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		
CGMS	WGIV/12.2	A45.04	CCGMS members to report on the	WGIV IS 11 Oct '17: CGMS members are	CGMS-46	OPEN
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	14 Mar 2018: IPWG recognises it is not	CGMS-46	OPEN	
			hr) and free access to all geostationary	feasible having all channel data from ith the			
			visible, IR and water vapour data that	new era of GEO satellites, however:			
			is required to improve global	a) At a minimum, sustained 30-min refresh			
			hydrological prediction.	full disk longwave IR (10 to 15-min desired),			
				near realtime access;			
				b) Given the expanded spectral bands of the			
				operational global geo constellation,			
				additional 6.2 um water vapor channel data,			
				at the same refresh as IR			
				c) Finally, visible channel data desired			
				25 Oct '17: CGMSSEC has sent a message to			
				IPWG co-chairs to this purpose asking for			
				more details to enable WGIV to react.			
				[enquiry sent to R Ferraro 19 Feb 2018]			
				WGIV IS 11 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			
CGMS-45 V	VGIV Recor	nmendatio	ons				
	AGN item		Description	Recommendation feedback/closing	Status	HLPP ref	
				document			

CGMS	WGIV/7	R42.01	Satellite operators to provide WIS	IMD: To be conveyed in due course [Nov	OPEN	2.7	
space			Discovery Metadata Records,	2017]			
agencies			compliant to WIS requirements and				
			following the guidance to be provided	CGMS-45: Recommendation still valid, to be			
			by the CGMS-WMO Task Force on	retained.			
			metadata implementation, in order to				
			facilitate satellite information	NOAA: Related to metadata, the best			
			discovery and access	reference is NGDC metadata provided here			
				the URL:			
				http://www.ngdc.noaa.gov/metadata/			
				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			
CGMS	WGIV/3.2	R44.01	CGMS members to contribute to the		OPEN	5.3	
members			implementation of the Best Practices	retained.			
			for User Readiness for meteorological	Closed for NOAA.			
			satellite systems under development,				
			both GEO and LEO				
CCNAC	MCD//2 2	D44.02	CCNC manufacto continuo ti-	CCNC 45: Decomposed attack attilling tid	ODEN	г 2	
CGMS	WGIV/3.2	K44.U2	CGMS members to continue the		OPEN	5.3	
members			provision of up-to-date User Readiness	retained.			
			information in the SATURN portal				

SWTT action	ons open fro	om previou	us plenary sessions (at CGMS-45)				
	AGN item		Description	Action feedback/closing document	Deadline	Status	HLPP ref
SWTT		A44.01	SWTT to conduct a workshop with leadership from the	1 Dec 2017, CGMS topical discussion held during	(15 Dec	CLOSED	5.2.1
			various space weather communities that will benefit	European Space Weather Week with presentations by	2016)		
			from CGMS coordination of space-based space weather	Terry Onsager, Elsayed Talaat, Tsutomu Nagatsuma,	New: 30		
			observing systems.	Juha-Pekka Luntama, Toshiyuki Kurino, and Johan	Nov 2017,		
				Ideström; an outbrief to the SWTT occurred during the	CGMS-46		
				7 Dec 2017, inter-sessional meeting.			
				1 Aug 2017, Elsayed Talaat, SWTT Co-Chair, gave a			
				CGMS briefing during the United Nations/United States			
				of America Workshop on the International Space			
				Weather Initiative: The Decade after the International			
				Heliophysical Year 2007, which took place in Boston,			
				MA. Elsayed Talaat and Juha-Pekka Luntama gave an			
				outbrief to the SWTT during their inter-sessional			
				meeting on 17 Sep 2017.			
				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 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.			
CCNAS AE 6	SWTT action			Olement.			
	AGN item		Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS		A45.01	SWTT members to identify initial baseline for space-		30 Sep	CLOSED	1.1.7
space			based space weather measurements and hold inter-	•	2017		
agencies			sessional with WGIII to plan forward analyses. This will	1	-01/		
aperiores			be finalised in the first inter-sessional to be held on 14				
			September 2017.	distributed 16 Oct 2017 to SWTT and WGIII.			

	SWTT/10 (WGII/9)	A45.02	SWTT members review GSICS activities and deliver recommendations for its use as a framework for space weather sensor inter-calibration activities.	1 Dec 2017, discussed during CGMS topical discussion at European Space Weather Week; awaiting submittal of space weather intercalibration product – energetic electrons	30 Dec 2017	OPEN	3.1.3
				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.			
				14 Sep 2017, GSICS materials discussed during IS. 11			
SWTT Co- Chairs	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	1 Dec 2017, discussed during CGMS topical discussion at European Space Weather Week, Toshi Kurino presented CGMS topical discussion 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. Action on GSICS to name ESWW attendee.	30 Dec 2017	CLOSED	3.1.3
CGMS space agencies	SWTT/11	A45.04	CGMS operators report on internal procedures to determine if an anomaly results from a space weather event including what thresholds are used.	14 Sep 2017, operator survey reviewed during SWTT IS. Updated inputs sent to WGI for review. Comments incorporated and updated survey questions distributed on 10 Oct 17 by Joaquin to WGI; and by Elsayed to SWTT for collection by WGI (Responses provided by EUM, JMA, NASA, NOAA,) 7 Nov 17: Joint meeting to discuss results from space	30 Dec 2017	CLOSED	

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.			
			plan.				
				19 Oct 17: Elsayed emailed the WMO, STEERING			
				GROUP ON RADIO FREQUENCY COORDINATION (SG-			
				RFC), Collection of Technical and Operational			
				Characteristics for RF-based Space Weather Sensors, to			
				Toshi for its inclusion into the next IPT-SWIeSS meeting			
				3 Nov 17: Co-chair learned while attending Space			
				Weather meeting in Canada that the deadline is late			
				December for Statement of Guidance for Space			
				Weather Observation (SGSWO) comments			
SWTT Co-	SWTT/10	A45.06	Engage ISES as an observer for CGMS plenary meeting	1 Dec 17: Discussed with Terry Onsager, part of ISES,	30 Dec	CLOSED	5.2.1
Chairs			and/or include with SWTT inter-sessional activities.	during ESWW; he co-sponsored the CGMS discussion at	2017		
				ESWW			
SWTT Co-	SWTT/10	A45.07	Survey CGMS member operators regarding if and how	Included in SWTT A45.04	30 Dec	OPEN	3.6.4
Chairs			actions are taking by satellite operators in response to		2017		
			space weather threats and/or conditions	weather anomalies survev 1 Dec 17: SWTT will create Terms of Reference to			
SWTT	SWTT/15	A45.08	SWTT develops recommendation as to future structure		CGMS-46	OPEN	
			of the interface between CGMS and the space weather	become Ad hoc Working Group on Space Weather			
			community going forward.	Coordination to be presented at CGMS-46			
CGMS-45 S	SWTT Reco	nmendatio	ons				
"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			