

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I	J
1	Actions open from CGMS-38 and -39 (at CGMS-40)									FOR EUMETSAT ONLY
2	Actionee	Action	#	Description	Action feedback/closin	Deadline	Status	HLPP ref	External results to be communicated to CGMS	
3	NOAA and IMD	WGII	38.36	Action 38.36: NOAA and IMD to better understand differences in TC intensity estimations and to inform CGMS members on the outcome. Deadline: CGMS-39	Remains open. Action by NOAA and IMD needed related to resolving algorithm differences. June 2013 WGII suggests this special topic is better addressed bilaterally outside CGMS.	(CGMS-38) New deadline CGMS-42	CLOSED	HLPP#3		
4	WMO	WGIII	38.40	Action 38.40: WMO in collaboration with the atmospheric composition community and satellite experts to further refine the requirements for atmospheric composition requirements and the optimal way to address these in the revised baseline.	Remains open. No progress; Ad-hoc task team to review the needs for GAW (atmospheric composition) regarding satellite measurements and the 2004 IGACO recommendations has not yet been formed. 3 Apr 2013: The GAW JSC OPAG-EPAC took an action on 20 Mar 2013 to update the requirements contained in the 2004 IGACO Report, in consultation with the WMO Space Programme and relevant Expert Teams. WMO will report at CGMS-41.	(CGMS-38) New deadline CGMS-41	OPEN	HLPP#1.1		1
5	CGMS Members	WGI	39.21	Action 39.21: Based on the inputs of action CGMS-39 39.20 (CGMS Members to report on their plans for the utilisation of the band 7750-7850/7900 MHz for their existing and future LEO systems [including the detailed list of frequencies used in the band, associated bandwidth and signal characteristics - together with the orbital parameters], CGMS members to analyse potential interference issues, reporting results of analysis back to CGMS WG-I by next CGMS meeting. Deadline: CGMS-40	Remains open - new deadline proposed end Q1 2013 for specific follow up e-meeting of WG-I activities. Linked to HLPP: EESS X-Band congestion and interference assessments. Will be discussed in WGI at CGMS-41.	(CGMS-40) New deadline: 31/03/2013	OPEN	HLPP#1.3		
6	NASA	WGII	39.25	Action 39.25: NASA to discuss with GSICS the use of COVE tool to facilitate sensor calibration and validation activities. Deadline: CGMS-40	NASA-WP-02/03; NOAA-WP-14,15,19	(CGMS-40) New deadline: CGMS-41	OPEN	HLPP#3		

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7	NASA	WGII	39.26	Action 39.26: NASA to ask GPM-XCAL team to review and consider use of GSICS Product Acceptance Procedure. Deadline CGMS-40	GPM current intercalibration efforts are not at the final state where a submission to the GSICS intercalibration process will yield useful results. It is vital that GPM first obtains data from the GMI/DPR instruments to verify its double-difference intercalibration results. At the point where the intercalibration process has been verified, NASA will reexamine use of the GSICS process. Pending launch of GPM currently planned for February 2014. June 2013: In view of the initial work it is suggested to close the activity within CGMS and take it up after re-examination by NASA . NASA GSICS engagement will be reported in NASA-WP-03 at CGMS-41	(CGMS-40) New deadline: CGMS-42	CLOSED	HLPP#3		
8	CGMS Satellite Operators	WGII	39.37	Action 39.37: CGMS Satellite Operators to consider the requirements of satellite information for coastal applications that are described in WMO-WP-30, and provide comments to WMO (blee@wmo.int). Deadline: 31 December 2011	Following discussions in WGII at CGMS-40 the action will be referred to CGMS-41. June 2013: Recommended closing - further development of user requirements necessary.	(CGMS-39 31/12/2011) New deadline CGMS-41	CLOSED	HLPP#3		
9	EUMETSAT	WGIV	39.46	Action 39.46: EUMETSAT to re-assess the European user requirement for a L-band service from its LEO satellites, bearing in mind the ongoing broader consultation process of WMO, and report to CGMS accordingly. Deadline: CGMS-40	Following decision by EUMETSAT's 78th Council mtg (June 2013), there will be no L-band provision on the future LEO (EPS-SG) due to cost issues.	(CGMS-40) New deadline: CGMS-41	CLOSED	HLPP#2		Activity linked with NOAA (EUM-NOAA HLWG TWG mtg 27 Apr 2013). Lead: H/LEO
10	CGMS Members and WMO	WGIV	39.49	Action 39.49: CGMS Members to nominate Points of Contact who can assist WMO with the development of common guidelines for long term data preservation. Deadline for nominations 31 December 2011. WMO to prepare a report on the guidelines to be presented to CGMS-40. Deadline:CGMS-40	ESA: mirko.albani@esa.int EUM: Harald.rothfuss@eumetsat.int KMA: hyunjong.oh@kma.kr WMO: nhettich@wmo.int Other members to nominate their points of contact.	(CGMS-40) New deadline CGMS-41	OPEN	HLPP#5.1		
11	CGMS Members	WGIV	39.51	Action 39.51: All CGMS Members to propose using interoperability standards for providing and sharing of climate data records and report on their efforts at the next meeting of CGMS Deadline: CGMS-40	EUMETSAT: No further developments since CGMS-39. EUMETSAT is prepared to revisit this following an input from other CGMS members. NOAA provided inputs which were circulated via the CGMS list server on 02/11/12. Other CGMS members to provide their input.	(CGMS-40) New deadline CGMS-41	OPEN	HLPP#5.1		

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12	WMO	WGIV	39.53	Action 39.53: WMO to further refine the web-based Product Access Guide for satellite products, within the WMO Space Programme website, in collaboration with CGMS satellite operators. Deadline: CGMS-40	Status: Ongoing. In 2012, WMO provided the link to prototype pages of a Product Access Guide: http://www.wmo.int/pages/prog/sat/product-access-guide_en.php The concept is being refined, will be discussed at ET-SUP in May 2013 and reported at CGMS-41.	(CGMS-40) New deadline CGMS-41	OPEN	HLPP#4.1		
13										
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15										
16										
17	CGMS-40 actions									
18	PLENARY									
19	Actionee	Action		Description	Action feedback/closin	Deadline	Status	HLPP ref		
20	IOC	Plen II.5	40.01	IOC to provide a paper on guidance to CGMS members on sea surface topography. Deadline: CGMS-41	IOC-WP-01	CGMS-41	OPEN	HLPP#3		
21	WMO	Plen IV.1	40.02	WMO Secretary General to send a letter to CMA inviting them to consider redeploying the FY-3 to an early morning orbit and offering international support to reach this objective.	Letter from WMO SG to CMA cc to CGMSSEC. 7538-12/OBS/SAT/SS-China of 7 Dec 2012, FY-3 contribution to the global observing system. CMA has responded to it.	30-Nov-12	CLOSED	HLPP#1		
22	WMO	Plen IV.1	40.03	WMO to convene a CGMS tiger team to coordinate the technical evaluation of the global and regional impact of flying a FY-3 satellite in early morning orbit, in order to support CMA in the assessment process.	WMO letter OBS/SAT/SS-CHINA 18 Dec 2012. Completed. Studies in progress by several NWP centres. Tiger Team seminar held on 25-26 April 2013 in Beijing. Outcome sent to csr on 8May2013.	31-Dec-12	CLOSED	HLPP#1	Communication required	H/SIR. EUMETSAT letters to DWD, Meteo France, UK Met Office, ECMWF, "Support to impact studies on early morning satellite observations over Asia" EUM/SIR/LET/13/684865, EUM/SIR/LET/13/684867; EUM/SIR/LET/13/684870, EUM/SIR/LET/12/684335 of 7 Jan '13
23	CGMS WGIII	Plen IV.2	40.04	WGIII to establish a CGMS tiger team on assessing the impact and socio-economic benefits of satellite missions who would collaborate with e.g. the WMO CBS and other partners and would report at CGMS-41.	Charles Woodridge, NOAA, leads the action, aiming to leverage related activities of WMO and member agencies. Target membership, draft TOR and initial action plan will be proposed at CGMS-41.	CGMS-41	OPEN	HLPP#4.1	Communication required To be prepared by WGIII	H/SIR. ASCAT cost-benefit USC/MH & RSP/JF NB potential use of sat data by humans - can this be combined with CGMS? Potential EUM study but maybe not needed??
24	CGMS agencies	Plen IV.4	40.05	WGII to identify in consultation with the ISWGs the priority ECV climate data records and communicate these priorities to the SCOPE-CM Secretariat for consideration in the call for proposal of January 2013. [WGII]	Letter from SCOPE-CM Secretariat circulated through csr on 7 Dec 2012.	31-Dec-12	CLOSED	HLPP#5.1	To be prepared by WGII	
25	WMO	Plen IV.4	40.06	WMO to coordinate impact studies, through the CBS, in order to update and refine its requirements for GNSS radio-occultation (e.g. number of occultations/day, distribution in space)	EUMETSAT looking into funding such a study in 2014.	CGMS-41	OPEN	HLPP#1.1		Linked to OSCAR tool + ECMWF. (Internal poc: MET/AvE [IROWG]) Link to ET-SAT?
26	CGMS Secretariat	Plen V.2	40.07	CGMS Secretariat to explore the possibility to coordinate Climate related activities with CEOS in line with the work done for the preparation of the Architecture for Climate Monitoring from Space and to report at CGMS-41	EUM-WP-04. To be addressed in the CGMS-41 plenary agenda item on climate.	CGMS-41	OPEN	HLPP#5.1	Report from CEOS SIT (EUM represents CGMS)	Internal mtg at EUM on 19/12. DG will attend CEOS SIT mtg in March 2013.
27	WMO/Vlab co-chairs	Plen VI.1	40.08	WMO in cooperation with the VLab co-chairs to continue facilitate the integration of ISRO and IMD into the Vlab		CGMS-41	OPEN	HLPP#4.2		

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28	CGMS/VLab co-chairs	Plen VI.1	40.09	CGMS to investigate the possibility to provide funding to the VLab CoEs in Argentina, Australia, Brazil and South Africa, to establish a project for generation of conceptual models for the Southern Hemisphere.		CGMS-41	OPEN	HLPP#4.2		Internal poc: H/USC
29	WGI - telecommunications							HLPP ref		
30	CGMS satellite operators	WGI	40.10	Interested satellite operators to inform WMO if they identify/designate a representative to be invited to the Satcom forum (WMO point of contact is Etienne Charpentier, Echarpentier@wmo.int)	EUM: Sean.burns@eumetsat.int NOAA poc: Scott.Rogerson@noaa.gov (due to several constraints, NOAA will not be able to participate in the Forum)	31-Dec-12	OPEN	HLPP#2.0		sean.burns@eumetsat.int
31	CGMS members	WGI	40.11	CGMS members to provide comments to the draft ToR of the Users of Satellite Data Telecommunication Systems (Satcom) Forum, included in annex to CGMS-40 WMO-WP-02, by the end of December 2012.	EUM: Input provided in 2012 incorporated in current version. NOAA: Feedback by e-mail 6 March 2013 to be incorporated in the ToR.	31-Dec-12	OPEN	HLPP#2.0	Final version should be provided to CGMS members	Already provided by EUMETSAT. Sean Burns.
32	CGMS members	WGI	40.12	CGMS members to complete and review interference assessment (in response to action 39.21) by end Q1 2013 (e-meeting).	Will be discussed in WGI.	31-Mar-13	OPEN	HLPP#1.3		H/SEP
33	CGMS members	WGI	40.13	Round table for comments review to proposed update to CGMS Global Specification 04 (by end of Q1 2013 –same e-meeting as for action 40.12).	Closed following WGI IS1 held on 27Mar2013. In summary the proposal for amendment of the Global Spec for Direct Broadcast Services (as articulated in CGMS-39 EUM-WP-08) was supported by the following organisations participating in the teleconf: NOAA, JMA, CMA (written input before the meeting) and WMO. No additional comment for change was made no other organisation was present or voted against the proposal.	31-Mar-13	CLOSED	HLPP#1.3	Communication needed	H/SEP
34	WGII - data and products							HLPP ref		
35	CGMS Secretariat	WGII	40.14	CGMS Secretariat to modify agenda item WGII/2 "Image processing techniques" to "Image processing techniques and satellite imagery for nowcasting" for CGMS-41)	Included in the draft CGMS-41 agenda by CGMSSEC.	15 May 2013 (for CGMS-41)	CLOSED	HLPP#3		SIR/AT. Included in draft AGN 29 Jan '13.
36	EUM and NOAA	WGII	40.15	NOAA and EUMETSAT are invited to present a consensus concept and realisation of a calibrations events logging system with emphasis on issues and lessons learned. Due date: CGMS-41.	NOAA-WP-15	CGMS-41	OPEN	HLPP#3		USC/RRo. To be addressed at the GSICS meeting (NOAA/EUMETSAT collaboration).
37	CGMS members	WGII	40.16	CGMS members to complete the GSICS vision questionnaire (Poc jlafeuille@wmo.int). Deadline: January 2013	EUM: Provided prior to CGMS-40. Completed by ROSH (ROSH/ROSC-WP-05) This will be reviewed at the GSICS EP-14 following CGMS-41)	31-Jan-13	OPEN	HLPP#3	Communication needed	RSP/The (DG/CS).

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38	NASA	WGII	40.17	NASA to report on optimisation of polar orbits of ocean color missions using the COVE Tool, especially those that are planning mid morning orbits, to provide maximum daily coverage from sensors with orbit swath of less than 1500 km.	The baseline was proposed and confirmed at the Architecture meeting during the Climate from Space week (18-19Feb2013)	CGMS-41	OPEN	HLPP#1.1		
39	IMD	WGII	40.18	IMD with GSICS assistance to employ GSICS Satellite Intercalibration tools to intercompare geostationary imager to IASI and/or AIRS. IMD to identify a focal point, and to present findings at CGMS-41	IMD will not attend CGMS-41.	31 Dec 2012; CGMS-41	OPEN	HLPP#3		
40	ROSH	WGII	40.19	Roshydromet with GSICS assistance to employ GSICS Satellite Intercalibration tools to intercompare geostationary imager to IASI and/or AIRS. Roshydromet to identify a focal point, and to present findings at CGMS-41.	There has been an independent tool developed by ROSH to intercompare geostationary imager to AIRS. Findings to be presented at CGMS-41 and GSICS-EP meeting.	31 Dec 2012; CGMS-41	OPEN	HLPP#3		
41	ITWG	WGII	40.20	ITWG co-chairs to initiate updating of the ITWG website and relevant documentation in order to reflect sponsorship by CGMS. By: CGMS-41	Web-sites have been updated.	CGMS-41	CLOSED	HLPP#4		
42	CGMS members	WGII	40.21	CGMS members and WMO to provide adequate support to ensure active participation at international meetings, and training events by developing and LDCs, e.g. for the IPWG-7 workshop in Japan in Oct 2014.	Support provided by EUMETSAT. It is recommended that this is addressed regularly in the CGMS ISWGs	CGMS-41	CLOSED	HLPP#4.3		EUMETSAT provides this already.
43	CGMS members	WGII	40.22	All CGMS members that have committed to participate in the second AMV derivation intercomparison project are invited to carry out the study on the basis of the guidance provided by IWWG and the Meteosat data set provided by EUMETSAT. All CGMS members to report on preliminary results at CGMS-41. Final results should be presented at IWW12 in 2014.	EUM-WP-07 (on behalf of IWWG co-chairs)	CGMS-41	OPEN	HLPP#3		Initial report to CGMS-41. EUMETSAT already does this. Internal poc: RSP/Rbo (DG/CS)
44	CGMS members	WGII	40.23	CGMS to convene through the IROWG an ad-hoc meeting on the global GNSS-RO constellation, inviting all interested CEOS agencies.	EUM plans to launch a study in 2014 with results available for the IROWG meeting in Apr 2015 to which CEOS agencies will be invited. Action deferred to CGMS-43.	CGMS-41	OPEN	HLPP#1.1		IROWG/RSP/AvE. Preparation of document, (mission of opportunity, JPL).
45	EUM, JMA, NOAA	WGII	40.24	EUMETSAT, JMA and NOAA are invited to report on their development toward common and consistent volcanic ash products from Meteosat and MTSAT-2 and GOES, respectively. Due date CGMS-41	JMA-WP-06; KMA-WP-09	CGMS-41	OPEN	HLPP#3	EUM-WP expected.	H/RSP. WMO/ICAO meeting March 2013 + VACC RSP/MK. ICAO-CGMS link.
46	EUM	WGII	40.25	EUMETSAT to invite Dr. Fred Prata to make a presentation on volcanic ash products science and applications at CGMS-41.	EUM/SIR/LET/13/692384 of 22 Feb 2012. F. Prata has confirmed his availability.	CGMS-41	CLOSED	HLPP#3		H/RSP, RSP/PdW and SIR. Potential input to CGMS-41 agenda
47	CGMS Secretariat	WGII	40.26	To request CREW to develop a proposal related to establishment of a new International Science WG, involving all CGMS members and WMO, WCRP and GCOS, including the proposed focus of the group, an account of ongoing activities in other fora (a "gap analysis"), and financial implications, for discussion at CGMS-41.	EUM-WP-05.	CGMS-41	OPEN	HLPP#3		USC/Rro, RSP/PdW (H/RSP) + SIR for agenda purposes
48	CGMS members	WGII	40.27	CGMS members to provide additional comments to the SCOPE-Nowcasting concept and confirm their participation in pilot projects as delineated in Annex I of CGMS-40 WMO-WP-04.	Closed with reference to action WGII 40.28	15-Dec-12	CLOSED	HLPP#3		Lead: S Bojinski, WWRP + RSP/MK

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49	CGMS members	WGII	40.28	CGMS members participating in SCOPE-Nowcasting to nominate a focal point to the ad hoc SCOPE-Nowcasting Working Group, to meet in Q2/Q3 2013 (cf. Annex II).	EUM: Dr. Marianne Koenig, Atmospheric & Imagery Applic. Manager, Remote Sensing & Products Div., +49-6151-807 3440 marianne.koenig@eumetsat.int JMA: Mr Kotaro BESSHO Head of System Engineering Division, Data Processing Department, MSC Tel: +81-42-493-4970 kbessho@met.kishou.go.jp (e-mail of 4Apr2013) Xiang Fang (CMA), Member of WMO ET-SUP, informally confirmed as focal point (Apr '13)	15-Dec-12	CLOSED	HLPP#3	Communication needed	Lead: S Bojinski, WWRP + RSP/MK
50	ROSH	WGII	40.29	ROSHYDROMET to report at CGMS-41 on the technical modalities for the near-real time provision of Meteor-M global data sets and associated ancillary information, as needed to fully contribute to the GOS.	It was agreed at the CGMS-40 debriefing on 9 November 2012 to move this action to WGIV, the action no. is now WGIV 40.38, and this line has been closed.	CGMS-41	CLOSED	HLPP#2		
51	CGMSSEC	WGII	40.30	CGMS Secretariat to respond to the letter of the IRC President Dr Robert Cahalan (in which the IRC agrees that the ITWG becomes also formally a CGMS working group) and to express its appreciation on behalf of all CGMS members. Deadline: 1 December 2012.	Letter, EUM/CGMS/LET/12/0024, sent on 22 Nov 2012. Circulated to csr on 14 Dec 2012.	01-Dec-12	CLOSED	HLPP#3		

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52	CGMS members	WGII	40.31	CGMS members to evaluate the requirement by IPWG for 3-hourly global temporal sampling of satellites (including non sun- synchronous platforms).	Paul Kucera (NCAR) and George Huffman (NASA) are IPWG contact points. The issue is whether the future constellation of MW sensors on LEO (MW imagers and scanners in particular) provide sufficient global temporal sampling to derive precipitation estimates. This is in the light of ageing instruments on Aqua (AMSR-E) and TRMM (TMI), difficulties reported by IPWG members in accessing MWRI data from FY-3 and MWI data on HY-2, and a dysfunctional data stream from MADRAS on Megha-Tropiques. At the CGMS WG-II IS-1 meeting, participants noted that a AMSR-2 conical scanner is flying on GCOM-W1-3 through 2025. NASA and JAXA to consider presenting studies on MW sampling coverage related to the GPM mission at CGMS-41 (Action on WG II co-chair). CGMS SEC encourage NASA and JAXA to report to CGMS plenary and in WGII discussions on IPWG.	CGMS-41	OPEN	HLPP#3		H/USC
53	WGIII - contingency & continuity							HLPP ref		
54	NOAA	WGIII	40.32	NOAA, in consultation with South America users and WMO, to investigate options for a follow-on to GOES-12 mission for South America, in order to develop a transition plan, involving GOES or other geostationary satellites, until the availability of the GOES next generation, which is expected to provide full coverage of both North and South America.	Ongoing. At the NOAA Satellite Conference (8-12 April 2013) NOAA provided the international user community with detailed information on the de-commissioning of GOES-12 that is now planned for late Summer. For safety reason this operation has to be completed before the next eclipse season. NOAA to report at CGMS-41.	15-Apr-13	OPEN	HLPP#1.1	Communication needed	EUMETSAT to inform csr in view of IODC extension plus strategy for way fwd on IODC.
55	EUMETSAT	WGIII	40.33	EUMETSAT to report at CGMS-41 on its plans for Indian Ocean coverage beyond 2013.	EUMETSAT's Council has agreed to extend the IODC service by Meteosat-7 until the end of 2016 (thereafter it will be deorbited). EUM-WP-15	CGMS-41	OPEN	HLPP#1.1	Decision to be communicated to csr.	D/OPS, SIR, DG (TBD). CGMS-41 EUM-WP-xx E-mail sent to plenary Dec 2012.

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56	CGMS members	WGIII	40.34	All CGMS Members to review and update their contribution to the mapping of CGMS mission plans against the CGMS baseline, and inform WMO accordingly. (5 December 2012)	NOAA, JMA and ROSH/ROSC have responded. Other members are requested to provide their input (7 Jul 2013). A new template was circulated in May 2013. Updates were received by JMA and IMD (EUMETSAT provided a response at ET-SAT).	05-Dec-12	OPEN	HLPP#1.1		Asked jerome if we need to provide further input (otherwise OPS)
57	CGMS members	WGIII	40.35	CGMS Members to consider opportunities for partnership with NOAA on COSMIC-2 ground segment and DSCOVR follow-on mission and report to CGMS-41. (July 2013)	NOAA to send a reminder with a high-level description of the ground-segment contribution expected by NOAA for COSMIC-2 (3 April 2013).	CGMS-41	OPEN	HLPP#1.1		No action on EUMETSAT (nothing to offer. Related to ground segment acquisition).
58	CGMS satellite operators	WGIII	40.36	CGMS satellite operators to inform the ICTSW via the WMO Secretariat (jlafeuille@wmo.int) on their needs for space weather data and warning products.		CGMS-41	OPEN	HLPP#5.2		FLO/AM to send summary of EUMETSAT's needs.
59	WGIV - global data dissemination							HLPP ref		
60	CGMS satellite operators	WGIV	40.37	CGMS satellite operators to report about the implementation of the World Geodetic System (WGS84) and Earth Geodetic Model (EGM-96) geographical reference systems.		CGMS-41	OPEN	HLPP#2		SEP/SSE. EUMETSAT has updated the standard but not made it available on the system yet.
61	ROSH	WGIV	40.38	ROSHYDROMET to report at CGMS-41 on the technical modalities for the near-real time provision of Meteor-M global data sets and associated ancillary information, as needed to fully contribute to the GOS.	This action was previously WGII 40.29. Following the CGMS-40 debriefing on 9 November 2012 it was decided to allocate it to WGIV. A new satellite of Meteor-M series is to be launched in 2013. After the commissioning phase ROSH will review the technical modalities for the near real time provision of Meteor-M data and associated ancillary information.	CGMS-41	OPEN	HLPP#2		
62	CMA and NOAA	WGIV	40.39	CMA and NOAA to review the draft revised Global Specification 04 and provide comments by April 2013, with the goal to provide a revised version for CGMS-41.		31 Mar 2013; CGMS-41	OPEN	HLPP#2	Communication needed (WGI)	H/SEP for the global spec.
63	WMO and NOAA	WGIV	40.40	WMO and NOAA to discuss future possibility of NOAA disseminating via GEONETCast-Americas certain environmental data to users in Central and South America.	Requirements for additional product dissemination via GeonetCast-America will be reviewed at a RAIII-RAIV satellite data requirements preparatory meeting on 8 April 2013. (WMO e-mail 28Mar2013)	CGMS-41	OPEN	HLPP#2		FLO/MW
64	CGMS members	WGIV	40.41	CGMS members to propose experts for a CGMS-WMO Task Force on Metadata implementation, for the purpose of interfacing with the WMO IPET-MDRD in the context of the revision of the WMO core metadata profile.		CGMS-41	OPEN	HLPP#2		Guillaume Aubert/Lothar Wolf

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65	CGMS Secretariat and WMO	WGIV	40.42	The CGMS Secretariat to draft, in consultation with the WMO secretariat and the Co-Chair of the IPET-MDRD, the terms of reference for the CGMS-WMO Task Force on meta data implementation.	ToR drafted. Review ongoing (Feb 2013). Circulation to 'csr' expected in Mar '13 for CGMS to nominate Task Force participants. Draft ToR and request for nominations to be circulated in the course of April 2013. EUM-WP-03	31-Dec-12	OPEN	HLPP#2	TOR should be communicated	Guillaume Aubert/Lothar Wolf
66	CGMS members	WGIV	40.43	JMA, CMA, KMA, NOAA and other CGMS agencies, as appropriate, to nominate focal points to the Task Team on Satellite User Requirements recently established in RA V (South-West Pacific) (Lead: Russell Stringer, Bureau of Meteorology Australia, r.stringer@bom.gov.au); due date: end of the 2012	CMA: Dr. ZHANG Peng (zhangp@cma.gov.cn) JMA: Yukihiro Kumagai Satellite Program Division jma.metsat@gmail.com KMA: Mr. Hyun-Jong OH Researcher Satellite Operation Division NMSC/KMA hyunjong.oh@korea.kr (e-mail 26 Feb 13) NOAA: Paul Seymour	31-Dec-12	CLOSED	HLPP#2		For the Asia region
67	CGMS members	WGIV	40.44	CGMS Members to support the RA V Task Team in organising a workshop in late 2013 to advance its work plan, in conjunction with the 4th Asia/Oceania Meteorological Satellites Users' Conference in Australia.		30-Sep-13	OPEN	HLPP#2		For the Asia region
68	CGMS-40 Recommendations									
69	PLENARY									
70	"Actionee"	Rec	#	Description	Action feedback/closin	Deadline	Status	HLPP ref		
71	CGMS members	Plen R	40.01	Satellite operators to provide regular, annual contributions into the WMO VLab Trust Fund to ensure the continuation of the post of the VLab TSO		CGMS-41	OPEN	HLPP#4.2		H/USC
72	CGMS members	Plen R	40.02	Satellite operators and WMO to provide necessary resources for the translation of relevant training materials (websites, modules and related) into other WMO languages		CGMS-41	OPEN	HLPP#4.2		H/USC
73	CGMS members	Plen R	40.03	Satellite operators and trainers to take note of the new "CBS Guideline for ensuring user readiness for new generation satellites" and plan appropriate projects to ensure user readiness		CGMS-41	OPEN	HLPP#4.2		D/OPS [WGIV]
74	CGMS members	Plen R	40.04	CGMS agencies are encouraged to exploit opportunities for education, outreach and training through the WMO-CGMS Virtual Laboratory for enhanced utilisation of observations and products for marine forecasting, especially of high winds in coastal areas.		CGMS-41	OPEN	HLPP#4.2		H/USC
75	CGMS members [Vlab]	Plen R	40.05	CGMS agencies to support widening of VLab scope (marine, land applications, agricultural meteorology).		CGMS-41	OPEN	HLPP#4.2		H/USC
76	WGI - telecommunications									
77	CGMS satellite operators	WGI R	40.06	CGMS satellite operators are invited to note the CBS-XV recommendations and the resulting WMO requirements for Direct Broadcast from polar-orbiting meteorological satellites in both X-Band and L-Band.		CGMS-41	OPEN	HLPP#2		H/SEP

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I	J
78	CGMS members	WGII R	40.07	The establishment of the Satcom Forum has been discussed in WG-I who confirmed that CGMS representation is proposed to be maintained by the CGMS secretariat (currently S. Burns) and also encouraged additional CGMS members (specially satellite operators having an interest in data collection and related issues) to identify themselves as potential participants.		CGMS-41	OPEN	HLPP#1.2		RSO/SDB
79	WGII - data and products							HLPP ref		
80	CGMS members	WGII R	40.08	CGMS agencies are invited to present working papers at CGMS-41 working group II on image processing tools for enabling the integration of various datasets for promote decision support efforts.	ROSH/ROSC-WP-	CGMS-41	OPEN	HLPP#4.1		H/USC
81	EUM	WGII R	40.09	EUMETSAT to continue to provide secretariat support to the SCOPE-CM initiative.		CGMS-41	OPEN	HLPP#5.1		H/USC. PRS/LSc - TBD who will/might take over?
82	CGMS satellite operators	WGII R	40.10	CGMS operators are encouraged to provide instrument performance monitoring information routinely on their respective websites.	ROSH/ROSC are planning to provide instrument performance monitoring information for the forthcoming satellites.	CGMS-41	OPEN	HLPP#3		RSO/SDB, RSO/LvB
83	CGMS members [GSICS]	WGII R	40.11	All CGMS members participating in GSICS should consider nominating candidates for the positions of Chair and vice-chairs of the working groups and the Executive Panel; they should also provide representatives to the GRWG and GDWG.	Candidates yet to be identified.	CGMS-41	OPEN	HLPP#3		RSP/THe
84	CGMS members	WGII R	40.12	CGMS members that are not currently participating in GSICS to consider an active role in the future progress of GSICS.		CGMS-41	OPEN	HLPP#3		RSP/THe
85	ITWG	WGII R	40.13	CGMS requests that ITWG consider changing its name to better reflect the substantial evolution of sounding technology and science.		CGMS-41	OPEN	HLPP#3		(at mtg RSP/DK)
86	CGMS satellite operators	WGII R	40.14	CGMS members to plan the sequence of satellite launches into the polar orbit to minimise the risk of instrument failures and gaps in the time series of observations, in accordance with the GCOS Climate Monitoring Principles. Space agencies should consider this for the further planning of the Architecture for Climate Monitoring from Space.	According to the Russian Federal Space Programme ROSH/ROSC are now planning a sequence of Meteor-M series satellites with similar payload to ensure the continuity of observations and to minimise the risk of instrument failures.	CGMS-41	OPEN	HLPP#1.1		DG [SIR]
87	CGMS members	WGII R	40.15	CGMS members to conduct studies to trade off benefits of spectral, radiometric, and spatial resolutions of infrared sounders and to pursue the development of next generation sounders.	At the CGMS WG-II IS-1 meeting, participants recommended that NOAA and other operators, as appropriate, report on the results of relevant studies (on design of future IR sounders in particular) at CGMS-41. ROSH-WP-05 A set of new generation IR sounders with improved spectral, radiometric, and spatial resolution is now being developed to be installed on future polar orbiting and geostationary satellites.	CGMS-41	OPEN	HLPP#1.1		H/RSP

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I	J
88	CGMS members	WGII R	40.16	Support for line-by-line (LBL) reference model development is of paramount importance and should be continued to ensure that users (in both operational and non-operational institutions) have access to the latest updates in LBL forward modelling.		CGMS-41	OPEN	HLPP#3		H/RSP
89	CGMS members	WGII R	40.17	CGMS members should set up the archives of historical data necessary for CDR generation, together with the relevant algorithm versions for products, and other metadata (e.g., spectral response functions) derived by operational and quasi-operational satellite algorithms. This should include the preservation of pre-1979 records. Access mechanisms need to enable CDR generation by users. All archived records should be registered in the ECV Inventory.	At the CGMS WG-II IS-1 meeting, participants were informed that there were only few entries in the ECV Inventory from CMA, JMA, and KMA. Information on the Inventory was sent to CMA (Peng Zhang, Xuebao Wu) on 12 Apr 2013, with a request to provide input. JMA has prepared JMA-WP-04 on this subject.	CGMS-41	OPEN	HLPP#5.1		USC/JoS
90	CGMS satellite operators	WGII R	40.18	CGMS agencies to support fast delivery initiatives using direct broadcast with extensions wherever possible (e.g., IASI, METOP-B, NPP), including on future polar orbiting satellites.	NOAA-WP-13	CGMS-41	OPEN	HLPP#2		SEP/AMS
91	CGMS members	WGII R	40.19	CGMS agencies to work with EUMETSAT to extend Regional ATOVS Retransmission Services (RARS) with Direct Readout stations receiving NPP.		CGMS-41	OPEN	HLPP#2		SEP/AMS
92	IWWG	WGII R	40.20	IWWG co-chairs to provide a state-of-the-art overview on the research on high resolution wind production and usage and to encourage increased focus on this theme at IWW12. This will involve input from NWP centres (to investigate need for this data in high resolution models and how best to assimilate) and data producers (how best to adapt the derivation).		CGMS-41	OPEN	HLPP#3		DG/CS [H/RSP]
93	CGMS satellite operators	WGII R	40.21	Satellite providers should investigate the potential of global AMVs from tandem satellites: e.g. dual Metop, MODIS/VIIRS and the future Sentinel 3A/B. First assessments are invited for CGMS-41 as a basis for more detailed discussions at IWW12 in 2014.	This has been implemented by EUMETSAT (on Metop).	CGMS-41	OPEN	HLPP#3	This has been implemented by EUMETSAT (on Metop).	H/RSP
94	CGMS members	WGII R	40.22	CGMS members are invited to participate in the 3rd workshop of the International Radio Occultation Working Group, taking place near Graz, Austria from 5 - 11 September 2013. In particular, colleagues from China, India, Russia are invited to report on their radio occultation activities.	CMA plans to send a representative. Discussions with India on possible contribution on Megha-Tropiques is evaluated. An ISRO visiting scientist at EUMETSAT will attend the workshop. JMA will try to attend.	31-Jul-13	OPEN	HLPP#3		RSP/AvE [H/RSP]
95	CGMS members	WGII R	40.23	CGMS agencies should engage in reprocessing of radio/occultation data to maximize their utility in anchoring climate reanalyses.	E.g. EUMETSAT re-processing within ERA-CLIM at ECMWF	CGMS-41	OPEN	HLPP#5.1		USC/JoS
96	WMO	WGII R	40.24	The scientific evolution of volcanic ash products should be considered as a pilot activity of SCOPE-Nowcasting.	ET-SUP-7 proposal to include VA product generation from multiple providers as pilot activity in SCOPE-Nowcasting (30 May 2013)	CGMS-41	CLOSED	HLPP#3		H/RSP

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I	J
97	WMO	WGII R	40.25	WMO in consultation with ICAO to refine the requirement for volcanic ash monitoring and to devise a way forward towards evaluation and operational use of a consistent volcanic ash product from current geostationary satellites.	WMO information note sent to CGMS Sec (17 Apr 2013), explaining status	02-Apr-13	OPEN	HLPP#3	Results of ICAO mtg and ESA-EUM WS on ash to be communicated to CGMS (~March/April 2013)	H/RSP Report from mtg needed. CGMS operators to be encouraged to participate - send to csr!
98	CGMS satellite operators	WGII R	40.26	All operators are invited to consider also the implementation of a common volcanic ash product. Implementation in parallel to existing products would help the evaluation.		CGMS-41	OPEN	HLPP#3		H/RSP
99	EUM, JMA, NOAA	WGII R	40.27	The scientific development (EUM, JMA, NOAA joint development of common/consistent volcanic ash products) should be considered as a pilot activity of SCOPE-Nowcasting. Due date CGMS-41 (ref. action WGII 40.24)	See R40.24; commitment by all providers to SCOPE-Nowcasting yet to be confirmed	CGMS-41	OPEN	HLPP#3		H/RSP
100	CGMS members	WGII R	40.28	CGMS recommended that new sea surface temperature datasets be compared with other satellite and in-situ sea surface temperature datasets under the auspices of the Group on High Resolution Sea Surface Temperature (GHRST), which was described in CGMS-39 IOC-WP-01.		CGMS-41	OPEN	HLPP#3		H/RSP, RSP/AOC
101	ESA, NASA, CGMS members	WGII R	40.29	CGMS recommended that ESA, NASA and other agencies interested in understanding the water cycle continue to coordinate infrastructure development to calibrate and validate Aquarius and SMOS sea surface salinity satellite observations.		CGMS-41	OPEN	HLPP#3		H/RSP - TBD. Potentially OSI SAF.
102	NOAA, CGMS members	WGII R	40.30	CGMS recommended that NOAA and other agencies interested in understanding the carbon cycle continue to coordinate infrastructure development to calibrate and validate the Suomi NPP ocean colour satellite observations.		CGMS-41	OPEN	HLPP#3		SEP/SSE + RSP/EjK Link with GMES.
103	CGMS members [Vlab]	WGII R	40.31	Marine forecasters training activities should be widened with input and participation by other CGMS operators.		CGMS-41	OPEN	HLPP#4.2		H/USC
104	CNSA, ROSC	WGII R	40.32	CNSA (HJ-1A/B), ROSCOSMOS (Severyanin-M SAR) to report on their provisions to make data available to users, to CGMS-41.	CNSA-WP-03, -04 ROSH/ROSC-WP-05 Severyanin-M data is currently not available. No plans exist for acquisition SAR data on user ground stations. L2 products will be available via internet.	CGMS-41	OPEN	HLPP#1.1		
105	CGMS members	WGII R	40.33	Interested CGMS Members are invited to report by CGMS-41 on their respective processes for elaboration of user requirements for future marine and atmosphere services, and the status of their evaluation.		CGMS-41	OPEN	HLPP#?		GMES-PURE. PRS/Peter Albert
106	CGMS satellite operators	WGII R	40.34	CGMS agencies to provide reports on ground- and space-based space weather observing systems to CGMS-41.	Addressed in the ad-hoc space weather meeting on 10 July 2013	CGMS-41	OPEN	HLPP#5.2		FLO/ATM
107	CGMS members	WGII R	40.47	CGMS members to support active participation of their nominated member agency representatives in the Polar Space Task Group	Added following review of WGII report for final CGMS-40 report	CGMS-41	OPEN		Recommendation added following review of WGII report for the final report	
108	KMA	WGII R	40.48	KMA to consider joining PSTG and to liaise with WMO Secretariat to discuss further steps.	Added following review of WGII report for final CGMS-40 report	CGMS-41	OPEN		Recommendation added following review of WGII report for the final report	
109	WGIII - contingency & continuity							HLPP ref		

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I	J
110	CGMS satellite operators	WGIII R	40.35	R & D or operational satellite operators should consider the provision of some high-accuracy, SI-traceable and stable reference instruments as anchors for operational instruments, in particular, for climate purposes.	Ongoing. Metop-IASI is used by GSICS as the primary reference for IR sensor calibration. Excellent consistency is observed with AQUA/AIRS, SNPP/CrIS, and Metop-B/IASI. The proposed NASA CLARREO mission concept would provide SI traceability.	CGMS-41	OPEN	HLPP#5.1		USC/JoS
111	CGMS satellite operators	WGIII R	40.36	CGMS Satellite Operators to address the anticipated or potential gaps identified in the WMO Gap Analysis, in particular: <ul style="list-style-type: none"> • infrared and microwave sounding on the early morning orbit, • hyperspectral sounding missing in some geostationary sectors, • long-term follow-on of radio-occultation constellation, • global precipitation measurement precipitation radar follow-on mission, • long-term Earth Radiation Budget monitoring • limb sounding for high-vertical resolution observations in the stratosphere and mesosphere (of temperature, humidity, wind, aerosol, ozone and other trace gases). 	To be discussed in WGIII at CGMS-41.	CGMS-41	OPEN	HLPP#1.1		DG [SIR]
112	CGMS members	WGIII R	40.37	All CGMS Members to provide updates on satellite programmes to be included in OSCAR, through their annual reports to CGMS and by other means as appropriate.	Ongoing. ROSH/ROSC-WP-05 (all programmes are now included)	CGMS-41	OPEN	HLPP#4.1		SIR -> action relevant parts of EUM
113	CGMS members	WGIII R	40.38	CGMS satellite operators to support NWP centres to perform Observing System Experiments (OSEs) on the regional impact of a potential gap of sounding from the early morning orbit.	Tiger team activities are progressing well (3 April 2013) WMO-WP-13	CGMS-41	OPEN	HLPP#1.1		DG/CS. Also needs to be discussed at ECMWF bilateral Feb 2013).
114	CGMS members	WGIII R	40.39	CGMS Members to support CMA in further investigations of the benefit and technical consequences of potential move of a mid morning mission to an early morning mission.	NOAA: Mitch.Goldberg@noaa.gov, Lars.Riishojgaard@noaa.gov (Letter to WMO 7 Feb 2013). Tiger team activities are progressing well (3 April 2013) WMO-WP-13	CGMS-41	OPEN	HLPP#1.1		SIR
115	CGMS members	WGIII R	40.40	CGMS Members, through WG III, to evaluate the CGMS baseline in the light of the climate architecture strategy with a view to populate the space segment part of the initial physical view of the architecture and identify gaps and scenarios to address them.	WMO-WP-15.The baseline was proposed and confirmed at the Architecture meeting during the Climate from Space week (18-19Feb2013). A template was circulated. Issue discussed by ET-SAT-8.	CGMS-41	OPEN	HLPP#5.1		USC/JoS
116	CGMS members [IROWG]	WGIII R	40.41	CGMS, via the IROWG, to support the development and use of GNSS radio-occultation for ionospheric monitoring.	IROWG-3 space weather sub-group meeting will discuss further steps in Sept 2013.	CGMS-41	OPEN	HLPP#1.1		RSP/AvE
117	CGMS members	WGIII R	40.42	CGMS members operating dual-frequency altimeter missions to support the use of altimeter measurements for ionospheric monitoring.		CGMS-41	OPEN	HLPP#1.1		LEO/FJP

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I	J
118	CGMSSEC	WGIII R	40.43	CGMS Secretariat to review the organisation of space weather matters in the agenda of CGMS meetings.	Ongoing.	CGMS-41	OPEN	HLPP#5.2		SIR
119	WGIV - global data dissemination							HLPP ref		
120	CGMS satellite operators	WGIV R	40.44	CGMS satellite operators to actively support user readiness projects as part of the implementation of their new generation satellite systems, following best practices recommended in the "CBS Guideline for Ensuring User Readiness for New Generation Satellites".		CGMS-41	OPEN	HLPP#4.2		D/OPS
121	CGMS members	WGIV R	40.45	CGMS members are highly encouraged to utilise the operational infrastructure of WIS in particular for the description, inclusion and provision of their satellite meta data to WIS GISCs such that satellite data becomes discoverable within WIS and also consider using WIS in the context of provision of their satellite data.		CGMS-41	OPEN	HLPP#2		GSI/LW
122	CGMS members	WGIV R	40.46	CGMS members are encouraged to support the expansion of RARS to advanced sounder data and the broader IGDDS initiatives in order to further expand the access to and use of satellite data and products.	ROSH/ROSC-WP-05 ROSH fully supports the expansion of RARS to advanced sounder data in order to further expand the access to and use of satellite data and products.	CGMS-41	OPEN	HLPP#2		D/OPS to discuss with WMO Jan 2013 [GSI/LW: Split RARS and IGDDS (possibly a WP)].