

PLENARY - STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

Plenary actions open from earlier plenary session (at CGMS-43)							EUM POC
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	
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)	<p>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. It also contributes to Action 40.23 "CGMS to convene through the IROWG an ad-hoc meeting on the global GNSS-RO constellation, inviting all interested CEOS agencies".</p> <p>(see also actions WGII 40.23, WGIII 41.35 and WGIII 41.37)</p> <p>EUM will present at Working Paper on the outcome of its study <i>CGMS-43 EUM-WP-12 EUMETSAT study circulated to csr on 21 Dec 2015 (Final report - Impact of different radio occultation constellations on NWP and climate monitoring)</i></p> <p>Matter discussed at the IPET-OSDE-1, April 2014, and CBS-Ext(2014). CBS recommended conducting Observing System Simulation Experiments (OSSEs) in support of satellite system design criteria such as orbit optimization for GPS-RO satellites, or configurations for hyperspectral IR sounders on geostationary orbit.</p> <p><i>Following WGIII discussions, the action will be kept open until CGMS-44. WMO and NOAA to report on their activities at CGMS-44.</i></p>	(CGMS-41, -42, -43) <b>New deadline CGMS-44</b>	OPEN	HLPP#1.1.4
CEOS/CGMS joint climate WG	Plen H.3.2	A42.11	<p>Regarding the Pilot FCDR Inventory:</p> <ul style="list-style-type: none"> <li>Conduct an initial analysis of available FCDRs past and current available for or planned for use in the current set of SCOPE-CM projects using CEOS, CGMS, and WMO satellite data bases;</li> <li>Identify SCOPE-CM ECV projects that are or may be able to use the above FCDRs;</li> <li>Assess availability of the above FCDRs for the future;</li> <li>Following the first ECV gap analysis, consider FCDRs that may be useful in assessing ECV opportunities in the future ECV gap analysis.</li> </ul>	<p>Nov '14: ONGOING. Discussions were held at the Climate Symposium regarding the Pilot FCDR inventory and work has begun on the specific identification of SCOPE-CM ECV projects and use of higher temporal and spatial resolution data from the next generation of geostationary satellites. The project will leverage the ECV assessment reference process being developed by WGClimat. CMA and KMA have been invited to participate in these efforts.</p> <p><i>Reports were made to CGMS-43 WGII and plenary, and will also be made to CGMS-44.</i></p>	CGMS-43 and CGMS-44	OPEN	HLPP # 5
<b>CGMS-43 Plenary actions</b>							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
WMO	D.1	A43.01	WMO to report at CGMS-44 on engagement with satellite agencies via the planned "Joint RA-II/V Workshop on WIGOS for Disaster Risk Reduction" to be held in Indonesia in October 2015.	<p>To be treated in WGIII. WMO/LPR to confirm to CGMSSEC in which WG it shall be addressed by end 2015.</p> <p>CGMS-44-WMO-WP-05</p>	CGMS-44	CLOSED	HLPO #2.4

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CGMS members	D.2	A43.02	CGMS members to consider the preliminary considerations on the Vision of WIGOS space-based components in 2040 and provide feedback to WMO through their representative in ET-SAT (or directly to jafeuille@wmo.int if they are not represented in ET-SAT). Ref. CGMS-43, WMO-WP-02	Feedback received from space agencies. Closed in view of the WMO workshop on 18 November 2015.	30-Sep-15	<b>CLOSED</b>	HLPP # 1.1	H/RSP (DG/CS, H/SIR + DG)
CGMS members	D.3	A43.03	CGMS members to provide review comments on the Reference User Readiness Project, noting that the Project will be presented to CGMS-44 for endorsement as CGMS best practice (Ref. CGMS-43, WMO-WP-03)	EUM: Using it as baseline for MTG user preparation. Ongoing interaction with WMO. Considerations if document be split between operator preparedness and end-user preparedness (TBD) the former to be presented to CGMS-44. 3 Dec 2015 and 18 Jan 2016: Reminder sent to csr NOAA has provided feedback, the project has also been discussed at IPET-SUP, GSICS and CEOS CAL-VAL WG. CGMS-44 WMO-WP-xx	15-Jun-15	<b>CLOSED</b>	HLPP # 5.3	H/USC (USC/SW + H/SIR, DG)
CMA, EUM, NOAA, ROSH	D.3	A43.04	CMA, EUM, NOAA, ROSH to appoint/reconfirm points of contact for including LEO satellites in the SATURN	CMA and NOAA provided their pocs at the meeting: tangshihao@nsmc.cma.gov.cn and Mitch.goldberg@noaa.gov EUM: sally.wannop@eumetsat.int ROSH: uspenskys@planet.iitp.ru KMA: Sung-Cheol Jung, Satellite operations division, KMA/NMSC	15-Jun-15	<b>CLOSED</b>	HLPP # 5.3	USC/SW
CGMS space agencies	D.4	A43.05	CGMS members to take into account the user requirements identified in the WMO survey when discussing continuous satellite coverage over the Indian Ocean region.	[CMA, EUM, ISRO, ROSH] EUM: Pending Council decision, EUMETSAT will relocate Meteosat-8 to support part of the IODC service.	CGMS-44	<b>OPEN</b>	HLPP # 1.1.6	D/OPS (H/RSO)
WMO	D.4	A43.06	WMO to validate and consolidate the preliminary user requirements for satellite data in the Indian Ocean region with major user groups and stakeholders in the region, and to report on results to CGMS-44.		CGMS-44	<b>OPEN</b>	HLPP # 1.1.6	
WMO	D.5	A43.07	WMO to provide an update on the international observation requirements for atmospheric composition developed by the GAW Task Team, drawing on existing requirements and considering region-specific needs	CGMS-44 WMO-WP-03	CGMS-44	<b>OPEN</b>	HLPP # 1.1	(H/RSP, RSP/RM)
IOC-UNESCO	D.7	A43.08	IOC-UNESCO to provide a paper on guidance to CGMS members on sea ice observations	CGMS-44 IOC-WP-01	CGMS-44	<b>OPEN</b>	HLPP # 1.1	
IOC-UNESCO	D.7	A43.09	IOC-UNESCO to provide status of the Second International Indian Ocean Expedition (IIOE-2) for enhanced data acquisition and management	CGMS-44 IOC-WP-02 IIOE-2 - planned as a 5-year research programme in the Indian Ocean, time to coincide with the 50th anniversary of the first IIOE. It is being sponsored by SCOR, IOC and Indian Ocean GOOS, and the IOC Assembly has adopted a resolution embracing it as a major IOC programme activity. The IIOE-2 will be formally launched in Goa December 2015.	CGMS-44	<b>OPEN</b>	HLPP # 1.1	
ROSH	E.1	A43.10	ROSHYDROMET to nominate a point of contact for GSICS related matters	To be treated in WGII	CGMS-44	<b>OPEN</b>	HLPP # 3.1	
CMA	F.1.5.3	A43.11	IROWG encouraged CMA to provide NRT GNOS data on the GTS, and CMA agreed to investigate this further	CGMSSEC recommends this to be discussed in WGII and reported to plenary through WGII	CGMS-44	<b>OPEN</b>	HLPP # 1.1.4	

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WGI co-chairs	F.2.2	A43.12	WGI Co-chairs, with the support of IOC-UNESCO, ESA and GEO to draft a CGMS letter to ITU, reminding the societal benefits and importance of all MetSats, EESS and Science Satellite Services , and need for enhancing the protection of the corresponding radio frequency bands	EUM/CGMS/LET/15/814596 sent on 14 Jul 2015 by CGMSSEC and ITU response letter of 31 July 2015 requesting an information note. Both letters were circulated through csr. The CGMS Secretariat has provided a corresponding information note in view of WRC-15 (CGMS/LET/15/823812) circulated to csr on 27 Oct 2015.	30-Jun-15	CLOSED	HLPP # 3.4	H/SEP (SIR/AT)
CGMSSEC	F.3.1	A43.13	CGMS Secretariat to send a letter to JCOMM requesting that the JCOMM Cross-Cutting Task Team on Satellite Data Requirements reports on the definition of satellite data for the ocean community to CGMS-44 (ref. CGMS-43 WGIV/6.2 discussions)	EUM/CGMS/LET/15/823077 sent on 14 Sep 2015 and circulated through csr on 28 Sep 2015. Response pending (11 Nov 2015) <i>26 April 2016: New point of contact: JCOMM Satellite Task Team is their Co-Chair, Dr Joel Dorandeu (jdorandeu@cls.fr).</i>	30 June 2015, CGMS-44	CLOSED	HLPP # 2.5	SIR/AT (H/RSP)
CMA, EUM, ISRO, ROSH	F.4.2	A43.14	The partners of the IODC roadmap to report on the implementation and progress at CGMS-44	[CMA, EUM, ISRO, ROSH] To be treated in WGIII initially and a slot in plenary has been foreseen. CGMS-44 EUM-WP-11	CGMS-44	OPEN	HLPP #1.1.6	D/OPS (H/RSO, H/SIR, DG)
SWTT	F.4.4	A43.15	The Space Weather Task Team (SWTT) to report on progress at CGMS-44	SWTT meeting to be held at EUMETSAT on 11-12 Feb 2016. A reporting slot in plenary has been foreseen.	CGMS-44	OPEN	HLPP #5.2	H/FLO, FLO/ATM
GSICS	G.2	A43.16	GSICS to work with CEOS/WGCV to: – Describe the processes to be followed to ensure consistent calibration meeting climate requirements – Describe the required infrastructure (space-based and surface-based) supporting these processes – Review the analysis of calibration-related tasks in the logical analysis of the Architecture (with a view to provide a joint input to the Architecture for Climate Monitoring from Space) and report to CGMS-44	The action has been transferred to Dohyeong Kim (KMA), in his role as chair of the GSICS Research Working Group.	CGMS-44	CLOSED	HLPP#5.3	H/RSP (RSP/TJH, H/USC)
CGMS members	H.1	A43.17	CGMS members are invited to provide feedback to the GEO Strategic Plan 2016-2025: GEOSS Implementation (including 2016 transitional Work Program) after issued the next version in the end of June 2015 to cgmsssec@eumetsat.int. Proposals are welcomed, in particular to GEONETCast and Radio Frequency Protection as candidate Foundational Tasks, as well as new activities with regard to the activities on new technology, weather and beyond.	Closed in view of the GEO Ministerial meeting early November 2015.	10-Jul-15	CLOSED	–	H/SIR (SIR/VGa, H/FLO, USC/SW, H/SEP, SEP/MD)

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	I.1	A43.18	WMO and CGMSSEC to write a letter to all satellite operators in VLab (once receiving the revised expectations documents in August 2015) to:  - Recall the urgency for more training giving increasing service reliance on satellites, and the upcoming generation of new satellite technology, - Recall expectations from operators, - Mention results of a VLab internal evaluation indicating that some expectations are better met than others and that there are urgent needs for ramping up support, - Suggesting that effective technical focal point be nominated / confirmed that will help CoEs address issues, - Recall the need for sustained financial support to the VLab Trust Fund.	A joint WMO-CGMS Secretariat letter (CGMS/LET/15/827442 of 14 Dec 2015 was sent and circulated to csr on 5 January 2016.	15-Sep-15	CLOSED	-	SIR/AT, H/USC
WMO/CGMS members	I.1	A43.19	CGMS members to respond to the WMO/CGMSSEC letter on VLab (reference CGMS-43 action I.1, A43.18)	Responses received from EUMETSAT, ISRO, ...	15-Dec-15	OPEN	-	H/USC (USC/MHi)

**CGMS-43 Plenary Recommendations**

"Actionee"	AGN item	Rec #	Description	Action feedback/closing document	Deadline	Status	HLPP ref	
CGMS (space agencies)	F.1.5.1	R43.01	IROWG requests that both, equatorial and polar components of COSMIC-2 are fully funded and launched; this is required for Numerical Weather Prediction, Climate, and Space Weather Long-term	To be treated in WGII/III	Long-term	OPEN	HLPP ref 1.1.4	H/RSP (RSP/AvE)
CGMS (space agencies)	F.1.5.1	R43.02	IROWG recommends targeting at least 20,000 occultations/day to be made available to the operational and research communities of Numerical Weather Prediction, Climate, and Space Weather	To be treated in WGII/III	Long-term	OPEN	HLPP #1.1.4	H/RSP (RSP/AvE)
CGMS members (Space agencies)	F.1.5.1	R43.03	IROWG recommends that the RO receiver design includes sufficient software/firmware flexibility to allow changes in the signal processing including processing of new GNSS signals/constellations as they become available; all receiver measurements should cover the ionosphere as well	To be treated in WGII/III	Long-term	OPEN	HLPP #1.1.4	H/RSP (RSP/AvE)
CGMS members (space agencies)	F.1.5.1	R43.04	International space/research agencies (e.g. NASA, ESA, CMA, CSA, NSF, NOAA, EUMETSAT and others) to hold an interagency workshop to define cooperation options for implementing the next steps towards a LEO-LEO research and demonstration mission	WGIII inter-sessional 10 Dec 2015: To be treated in WGIII	Long-term	OPEN	HLPP #1.1.4	H/RSP (D/PRD)
CGMS members	F.3.5	R43.05	CGMS members to - comment on the WMO medium-term strategy for satellite data dissemination - support the implementation of the strategy in contributing to the identified strategic targets and actions, as appropriate, and in taking the proposed strategic targets into account in their own dissemination plans	To be addressed through WGIV	CGMS-44	OPEN	HLPP#2	D/TSS (D/OPS, H/SIR+DG)
CGMSSEC	G.5	R43.06	CGMS Secretariat to express the common position of CGMS members on the WMO draft resolution on data and products (CGMS-43 plen R43.03) at the WMO Cg-17 (25 May – 12 June 2015)	Expressed by CGMS Secretariat at the WMO Cg-17	27-May-15	CLOSED	HLPP #5.1	SIR + DG

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CGMS members	I.1	R43.07	CGMS members that are sponsors of VLab Centres of Excellence to review and where possible augment their support to these Centres, as per the "Procedure for establishing Virtual Laboratory Centres of Excellence for Training in Satellite Meteorology" (section 2.2, <a href="http://www.wmo-sat.info/vlab/wp-content/uploads/2012/02/Procedures-for-New-CoEs_LV2012.pdf">http://www.wmo-sat.info/vlab/wp-content/uploads/2012/02/Procedures-for-New-CoEs_LV2012.pdf</a> )		CGMS-44	OPEN	HLPP #4.2.3	H/USC
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WGI STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

CGMS-43 WGI actions								
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref	EUM POC
EUM	WGI/I	A43.01	EUMETSAT to contact IROWG Chair to confirm needs for dedicated frequency protection for GNSS	Action closed during CGMS-43. (Need to improve characteristics of the receivers. Space agencies to enhance the specifications to make manufacturers aware).	22 May 2015	CLOSED	-	
EUM	WGI/I	A43.02	CGMS Liaison officer to SFCG to report to CGMS WG-I on the discussions and disposition of SFCG on all topics of interest to the different CGMS members. For achieving that a dedicated CGMS Secretariat WG-I working paper will be prepared by EUMETSAT Frequency Manager (in the role of liaison officer from CGMS to SFCG) and will be released to the participants of WG-I before end of the corresponding year. Based on the contents, CGMS members will decide the level of information they will include in their specific reports to CGMS for the corresponding WG-I meeting	CGMS-44 EUM-WP-01 and -02	30 Dec 2015	CLOSED	HLPP #1.3	H/SEP, SEP/MD
CGMS space agencies	WGI/4.2	A43.03	CGMS members to comment on the work done in the context of the EUMETSAT provided VIIRS Regional Service, and to provide feedback on the proposal to define a standardised compact product format, generalised to cover the advanced imagers of the current and planned polar orbiting satellites.	WGIV webex #2 - encouraged space agencies to contribute with working papers.	CGMS-44	OPEN	HLPP #2.6	H/SEP, SEP/MD
NOAA	WGI/4	A43.04	NOAA to assess the need for user registration for Direct Broadcast	CGMS-44 NOAA-WP-xx	CGMS-44	OPEN	HLPP #1.4	H/SEP
CGMS mebers	WGI/5	A43.05	CGMS Members to assess, comment on the info package for the SATCOM Forum prepared by the appointed CGMS representative	The CGMS representative (Sean.burns@eumetsat.int) will attend the SATCOM executive committee meeting on 23 Feb 2016. The first SATCOM forum will be held on 27-29 September alongside the Met tech expo and the WMO TECO in Madrid, Spain.  CGMS-44 EUM-WP-04	30 Oct 2015	OPEN	HLPP #1.2.1	H/RSO
WMO	WGI/6	A43.06	WMO to assess the impact of improved data latency from polar orbiters on NWP (WMO Impact Workshops) and other applications	Next WMO workshop will take place in May 2016 (China), hence there might be a verbal/preliminary report only to CGMS-44.	CGMS-44	OPEN	HLPP #1.4.5	
CGMS-43 WGI Recommendations								
"Actionee"	AGN item	Rec #	Description	Action feedback/closing document	Deadline	Status	HLPP ref	

WGI STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

WMO	WGI/3	R43.01	WMO to make the information on all (active, passive and comms) frequency use available and searchable in OSCAR/Space, such that pre-defined reports are easily accessible via external hyperlinks	WGI webex #2 9 Dec 2015: WMO likely to make a presentation on OSCAR/Space and its evolution at CGMS-44. Main source on frequencies is the SFCG database. To assure there is no duplication of effort, coordination required between WMO and SFCG databases. SFCG data bases: X-band database open, disaster database open, frequency is pwd restricted.  Suggested that WMO participates in the next SFCG meeting in Mainz, Germany, 7-15 June 2016, for the coordination of the two (or more?!) databases (following CGMS-44).	CGMS-44	OPEN	HLPP # 1.3	
CGMS members	WGI/3	R43.02	Recommends CGMS members to continue bringing all frequency management and coordination issues under the expert forum of SFCG and actions the liaison officer (from CGMS to SFCG) to report to CGMS WG-I all aspects of SFCG discussions considered of relevance to CGMS.		CGMS-44	OPEN	HLPP # 1.3	H/SEP (SEP/MD)
WMO	WGI/6	R43.03	WMO DBNET Coordination Group to report annually to CGMS WG-I on status and progress	Discussed at WGI webex session 21 Oct 2015 (best practice proposal). WMO DBNet presentation to be circulated to WGI (NOAA, EUM, CMA and ROSH in particular - LEO satellites with direct broadcast  CGMS-44 WMO-WP-10 CGMS-44 EUM-WP-xx	CGMS-44	OPEN	HLPP # 1.4.5	
CGMS space agencies	WGI/6	R43.04	CGMS agencies to publish details on their SG-ICD with enough lead time to allow RARS/DBNET operators to plan their technical systems in advance (to be included in CGMS best practices)	WGI webex session 21 Oct 2015: To be addressed at CGMS-44. EUM circulate a template in January 2015 to be used in the future webex sessions.	CGMS-44	OPEN	HLPP # 1.4.5	H/SEP
CGMS space agencies	WGI/6	R43.05	CGMS agencies to make use of RH circular polarisation for future Direct Broadcast systems, if technically feasible.	To be addressed at CGMS-44, in particular CMA's plans for FY-3E	CGMS-44	OPEN	HLPP # 1.4.5	(H/SEP, SEP/AMS)

WGII actions open from previous plenary sessions (at CGMS-43)								
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref	EUM poc
JMA	WGII/8	41.26	JMA to establish an environment to implement multiple algorithms to retrieve quantitative ash cloud parameters from operational satellites. This will serve as a test bed for the intercomparison of retrievals on an operational basis in the framework of SCOPE-Nowcasting. JMA is invited to perform an intercomparison based on historical data and report on this to CGMS-42.	<p>JMA introduced software based on EUMETSAT approach to the testbed, and started validation activities in collaboration with Tokyo VAAC. The NOAA algorithm will also be included.</p> <p>CGMS-42 JMA-WP-07/ppt: VA retrieval intercomparison activity started and workshop to be organised in the framework of WMO SCOPE-Nowcasting at SSEC, Madison, on 29 June-2 July 2015 (a preparatory meeting was held on 20-23 October 2014). The JMA testbed will be useful once results from VA retrieval algorithm intercomparison are available.</p> <p>New deadline following discussions at CGMS-42.</p> <p>CGMS-43-JMA-WP-05 (Section 2)</p> <p>New deadline following CGMS-43 WGII discussions.</p> <p>WMO to report on VA Intercomparison at CGMS-44</p> <p>Nov 2015: JMA has received NOAA/NESDIS VA Algorithm, and is now tuning it for JMA NWP and SST data. Until March 2016, which means end of FY of JMA, VA testbed will be started with EUMETSAT and NOAA/NESDIS algorithms for some typical cases. JMA will report to CGMS-44.</p>	(CGMS-41/-42/-43) <b>New deadline: CGMS-44</b>	OPEN	HLPP #3.2.2	(RSP/RM)
CMA, EUM, JMA, NASA, NOAA, WMO	WGII/3	A42.02	The new task team on calibration events logging to identify a common set of parameters to be monitored as part of the calibration events logging and sensor performance monitoring.	<p>1st step: Template for calibration event landing pages presented at GDAWG in March 2015. New version of OSCAR/Space allows for identification of individual instruments and thus linking to calibration event test pages, test mode of new version of OSCAR/Space continuing until 1 month before CGMS-43;</p> <p>2nd step: Draft a white paper to agree on common terminology to be used on landing pages, foreseen in 2015/2016 for presentation to CGMS-44.</p> <p>CGMS-43 EUM-WP-10</p> <p>CGMS-43-JMA-WP-03 (Section 2.4)</p> <p>NOAA: Work ongoing as a part of the GSICS work plan. Next steps are gathering information and agreeing on common terminology.</p> <p>New deadline following CGMS-43 WGII discussions.</p> <p>Nov 2015: Co-chair R Roebing, drafting white paper to be circulated within ICWG by end 2015 in preparation of CGMS-44. To be included in the GSICS paper following the new WGII agenda (possibly EUMETSAT's paper - TBD).</p>	(CGMS-43) <b>New deadline: CGMS-44</b>	OPEN	HLPP#3.1	USC/RRo



WGII STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

KMA	WGII/4	A42.03	KMA is invited to present a paper of different sources of soil moisture retrieval on their NWP forecasts	CGMS-43-KMA-WP-04: Test use of Metop-B/ASCAT on their global NWP system  New deadline following CGMS-43 WGII discussions.	(CGMS-43) <b>New deadline: CGMS-44</b>	<b>OPEN</b>	-	
<b>CGMS-43 WGII actions</b>								
<b>Actionee</b>	<b>AGN item</b>	<b>Action #</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>	
CGMS space agencies	WGII/3	A43.01	Calibration events logging task team to prepare a white paper outlining the set of parameters, the nomenclature, and the standards to be used for reporting on instrument calibration across space agencies.	Nov '2015: Part of/related to CGMS-42 action 42.02	CGMS-44	<b>OPEN</b>	HLPP # 3.1	USC/RRo
GSICS	WGII/3	A43.02	GSICS to document and implement its approach to manage changes in reference instruments.	Nov 2015: GSICS research working group to look into this. A specific working paper will be prepared in response to this action.  CGMS-44 GSICS?-WP-01?	CGMS-44	<b>OPEN</b>	HLPP # 3.1	RSP/TJH
ROSH	WGII/3	A43.03	Roshydromet to present an update on Meteor-M N2 data access, processing packages, and results of an intercomparison of the IKFS-2 with other hyperspectral sounders (IASI, AIRS, CrIS), to CGMS-44.	Nov 2015: ECMWF has looked at microwave instruments which were reported on at the recent ITSC. ITWG and CGMS welcomes the sharing of data by ROSH, and further collaboration is expected.  EUM has received Meteor-M N2 sample data of the MTVZA-GY Imaging/Sounding Microwave Radiometer (29 channels) and dissemination through EUMETCast is expected in Q1 2016 pending EUM Council approval in Dec 2015. mtg. ROSH will deliver a L1 pre-processing software to EUMETSAT early 2016.	CGMS-44	<b>OPEN</b>	HLPP # 1.4	
CGMS space agencies	WGII/3	A43.04	CGMS operators to provide a report on their approach on cal/val, including information on dedicated campaigns and permanent sites, and potential support to cal/val infrastructure, in order to maximize benefits of satellite missions.	Nov 2015: Feedback is expected as part of the general agency report or in a dedicated WP for the proposed new WGII agenda item 4	CGMS-44	<b>OPEN</b>	-	H/RSP
CGMS space agencies	WGII/3	A43.05	CGMS operators to report on their specific plans for reprocessing and associated user requirements (such information would be useful for the ISWGs).		CGMS-44	<b>OPEN</b>	HLPP # 3.3, 3.6	USC/JoS
GSICS	WGII/3	A43.06	GSICS to establish the requirements for absolute lunar calibration and prepare a white paper describing the tentative way to meet those requirements in case they go beyond those lunar calibration capabilities.	Nov '2015: EUMETSAT is working on this and will prepare a WP for CGMS-44.  CGMS-44 GSICS?-WP-02?	CGMS-44	<b>OPEN</b>	HLPP # 3.1	RSP/TJH
IPWG	WGII/5	A43.07	The session recommended a stronger application focus of IPWG (e.g. NWP, hydrology, agriculture), and asked IPWG to organize a IPWG-NWP workshop in 2015 or 2016.	Outgoing IPWG co-chairs Wang and Aonashi were part of the organizing committee for the 3rd Joint JCSDA-ECMWF Workshop on Assimilating Satellite Observations of Clouds and Precipitation into NWP Models (which was suggested as an action at IPWG-7). The meeting will take place Dec 1-3, 2015 at NOAA in College Park, Maryland USA. Additionally, the current IPWG co-chairs Roca and Tufa are considering an IPWG sponsored Africa focused user workshop for sometime in 2016 (somewhere in Africa, TBD).  Nov 2015: Pending upcoming workshop. IPWG requested to report on the outcome of the Dec '15 workshop at next WG II intersessional meeting (Feb '16).  CGMS-44 IPWG-WP-01	CGMS-44	<b>OPEN</b>	HLPP #3.2	(RSP/JG)
NASA, JAXA	WGII/5	A43.08	NASA and JAXA to provide information about availability of GPM data on near real-time data distribution channels (GTS, DVB-S).	Nov 2015: Action closed following discussions during the review of the draft CGMS-43 meeting report.	30-Jul-15	<b>CLOSED</b>	HLPP # 2.3	

WGII STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

IWWG	WGII/6	A43.09	IWWG to define the experiments for the next intercomparison at the next IWW workshop in 2016. [For co chairs at next IWWs]	Nov 2015: No information to date. Preliminary information is expected to be reported to CGMS-44 (IWWG 13 takes place after CGMS-44).	CGMS-44	OPEN	HLPP # 3.2.1	(EUM: RSP/RB)
CGMS RO space agencies	WGII/7	A43.10	CGMS members that operate RO instruments to explore RO capabilities to support space weather applications and report on their support to space weather application to CGMS-44.	Nov 2015: EUM is exploring this since it is relevant for the EPS Second Generation activities and it is currently discussed by EUM within the framework of the next reference period for the EUMETSAT Satellite Application Facilities (SAFs) 2017-2022. A EUM WP is expected for CGMS-44.	CGMS-44	OPEN	HLPP # 5.2	H/RSP (RSP/DK)
WMO	WGII/8	A43.11	WMO to provide a report on the volcanic ash intercomparison within SCOPE-Nowcasting at CGMS-44.	Nov 2015: A workshop took place in June 2015 and WMO expect to report on this at CGMS-44.  CGMS-44 WMO-WP-15	CGMS-44	OPEN	HLPP # 3.2.2	
NASA	WGII/10	A43.12	NASA to report on polar-based RGB composite viewing angle corrections to CGMS-44.	Nov 2015: NASA is preparing a manuscript for publication to be available early 2016 and results will be presented to CGMS-44.  CGMS-44 NASA-WP-03	CGMS-44	OPEN	-	
CGMS members	WGII/10	A43.13	(Action transferred from WGIV) CGMS members that have not yet done so to nominate focal points that would work with the WMO Secretariat in populating the WMO Product Access Guide.	<ul style="list-style-type: none"> <li>• ESA: Jean-Louis Fellous jfellous@noos.fr</li> <li>• EUM: Sally Wannop, Sally.Wannop@eumetsat.int</li> <li>• JMA: Daisaku Uesawa, satellite@ml.kishou.go.jp</li> <li>• NOAA: Tony Mostek, anthony.mostek@noaa.gov</li> <li>• ROSH: Dr. Sergey Uspensky, Head of Department, SRC "PLANETA" uspenskys@planet.itp.ru</li> <li>• CMA: Xu Zhe, xuzhe@cma.gov.cn</li> </ul> NASA: Richard Eckman, richard.s.eckman@nasa.gov  KMA: Chu-Yong CHUNG (Mr), Senior Researcher NMSC/KMA, cychung@kma.go.kr J. WOO (Ms) superjwoo@korea.kr  Nov 2015: Closed on the occasion of WGII inter- sessional meeting 25 Nov 2015.	30-Jul-15	CLOSED	-	USC/SW
CGMS members	WGII/10	A43.14	CGMS members to provide responses to the questionnaire on use of satellite data for SRNWP from experts (in their organization) and provide a compilation of responses to CGMS-44.	Nov 2015: Feedback to EUMETSAT will be required by CGMS Members by end Feb 2016 to enable compilation and summary/analysis of the responses to CGMS-44. CGMSSEC to remind/inform CGMS members accordingly.  18 Feb 2016: NASA feedback by e-mail to CGMSSEC. April 2016: JMA feedback.  CGMS-44 EUM-WP-10	CGMS-44	OPEN	HLPP # 1.4.5	H/RSP (RSP/JG)
NASA	WGII/10	A43.15	NASA to report on progress in testing the use of surface pressure retrievals from OCO-2 by NWP centres, with view to report on results at the WMO Impact workshop in May 2016 (and to CGMS-44).	Nov 2015: CGMS-44 NASA-WP-04	May 2016 and CGMS-44	OPEN	HLPP #	
<b>CGMS-43 WGII Recommendations</b>				<b>iwww</b>				
"Actionee"	AGN item	Rec #	Description	Action feedback/closing document	Deadline	Status	HLPP ref	
SCOPE-CM members	WGII/3	R43.01	SCOPE-CM to invite contributions to its next call for proposals, with particular regard to the sea ice, snow cover and land surface temperature communities, and others currently not represented.		End 2015	OPEN	HLPP # 5.3	USC/MDB
CGMS members	WGII/3	R43.02	CGMS members to consider removing spectral gaps from future hyperspectral sounders to support GSICS intercalibration of IR imagers.			OPEN	HLPP # 3.1	

WGII STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

CGMS members	WGII/6	R43.03	CGMS members to consider include a water vapour channel and a CO2 channel to polar-orbiting imagers, to maintain accuracy and coverage of polar winds and cloud height retrievals achieved by MODIS.			OPEN	HLPP # 1.1.6	
CGMS space agencies	WGII/3	R43.04	CGMS operators to consider displaying instrument performance in a way similar to the ICVS. NOAA could share the software among CGMS operators.		CGMS-44	OPEN	HLPP # 3.1	H/RSP (D/OPS)
NOAA	WGII/3	R43.05	NOAA to organize a workshop for CGMS operators on ICVS software design and development, and implementation.		CGMS-44	OPEN	HLPP # 3.1	
GSICS members	WGII/3	R43.06	Members to strengthen their engagement in GSICS and in particular in its GDWG.			OPEN	HLPP # 3.1	H/RSP
CGMS space agencies	WGII/10	R43.07	CGMS agencies to make available a non real-time cache of satellite level 1 data over the previous 2-3 months, similar to the NOAA CLASS system.		CGMS-44	OPEN	HLPP # 2.	H/GSI (H/USC)
ROSH	WGII/4 and WGII/8	R43.08	Roshydromet is invited to attend the next sessions of the ICWG, ITWG and the other Int'l Science Working Groups.	Nov 2015: 2 participants from ROSH attended latest ITSC (plus 2 persons from St Petersburg). Recommendation closed following WG II IS#1 on 25 Nov 2015.	CGMS-44	CLOSED	-	
CGMS space agencies (EUM, CMA, ROSH, ISRO)	WGII/10	R43.09	CGMS operators (EUM, CMA, ROSH, ISRO) to ensure continuity of geostationary coverage and data access over the Indian Ocean area.	CGMS-44 EUM-WP-11 and -14	CGMS-44	OPEN	HLPP # 1.1.6	D/OPS (H/RSO)
ISRO	WGII/5	R43.10	ISRO is encouraged to implementing a multi-sensor precipitation estimate based on SAPHIR and INSAT-3D		CGMS-45	OPEN	HLPP # 3	
ICWG, IWWG	WGII/6 and WGII/8	R43.11	ICWG and IWWG to liaise as appropriate on the provision of further information characterising the AMV derivation for enhanced QC and error characterisation.		CGMS-45	OPEN	HLPP # 3.5.2	(RSP/RB, USC/RRo)
IWWG, IPET-OSDE	WGII/6	R43.12	IWWG to liaise with the application focal points in the WMO RRR process (on IPET-OSDE) to provide feedback on the winds-related observation requirements in the RRR database.		CGMS-44	OPEN	HLPP # 1.1	(RSP/RB)
CGMS space agencies	WGII/7	R43.13	CGMS Members to approach Operators of GNSS systems to request them to provide a minimum level of information on the signal structure and interface control (ICD) in a timely manner to enable the use of these for future RO missions.		CGMS-44	OPEN	HLPP # 1.1.3	(H/RSP, RSP/DK)
ICWG	WGII/8	R43.14	At its next meeting (May 2016), ICWG should put focus on investigating data from the new-generations instruments on Himawari-8 and if available GOES-R for the retrieval of cloud parameters.	Nov 2015: The ICWG has established a Topical Group titled "Assessment of level-2 Passive Imager Cloud Parameter Retrievals" that is lead by Yong-Sang Choi (Ewha Womans University, Korea). Among other, this Topical Group will assess, for 19 August 2015, the differences in Cloud Parameter Retrievals over the Asian region, using retrievals from Himawari, METEOSAT-7, and some other Asian instruments as well (not yet decided).	20-May-16	OPEN	HLPP # 3.2.4	USC/RRo

WGIII STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

WGIII actions open from previous plenary sessions (at CGMS-43)							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
ISRO	WGIII/2.2	A42.05	ISRO to report at CGMS-43 on its progress on radio-occultation processing of ROSA on Oceansat-2 and Megha-Tropiques, and on the possibility of near-real time access to ROSA data acquired at a high latitude station such as Svalbard.	CGMS-43 ISRO-WP-03 partially closed. NRT access to ROSA data remains open.	(CGMS-43) <b>new deadline CGMS-44</b>	OPEN	HLPP#1.1.4
EUM, ISRO	WGIII/2.2	A42.08	ISRO and EUMETSAT to report at CGMS-43 on their discussions on data dissemination collaboration for SCATSAT data.	Ongoing. New deadline following CGMS-43 WGIII discussions.  Nov 2015: EUM-ISRO discussions ongoing. WGIII intersessional 10 Dec: 2015: EUM expects to report to CGMS-44  CGMS-44 EUM-WP-11	CGMS-43) <b>new deadline CGMS-44</b>	OPEN	HLPP#1.1.3
<b>CGMS-43 WGIII actions</b>							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
NOAA	WGIII/2.2	A43.01	NOAA to report on results of new OSSE on radio occultation.	WGIII inter-sessional 10 Dec 2015: NOAA will report at next intersessional meeting.  CGMS-44-NOAA-WP-12: NOAA's Update Observing System Simulation Experiments (OSSE) with GNSS Radio Occultation Observations (In response to Action # 43.01)	CGMS-44	OPEN	-
WMO	WGIII/2.2	A43.02	WMO to report on the outcome of the WMO Impact Workshop in May 2016.	Verbal report to CGMS-44 by WMO (LP Riishojgaard)	CGMS-44	OPEN	-
WMO	WGIII/6	A43.03	WMO to report on the status of the Vision for the WIGOS space-based component in 2040 in WGIII meeting at CGMS-44.	WMO/NOAA report at CGMS-44 expected  CGMS-44 WMO-WP-01	CGMS-44	OPEN	-
<b>CGMS-43 WGIII Recommendations</b>							
"Actionee"	AGN item	Rec #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS members	WGIII/2.2	R43.01	CGMS members are encouraged to consider including RO capabilities on all future polar-orbiting satellites.		Ongoing	OPEN	-
IPWG	WGIII/2.2	R43.02	IPWG should consider reporting impact of both passive microwave imaging and active dual-band radar to WMO Impact Workshop in May 2016.	Nov '15: White paper expected around mid 2016. Lead: Remy Roca.  CGMS-44 IPWG-WP-01	01-Nov-15	OPEN	-
CGMS members (CMA, EUM, ISRO, ROSH)	WGIII/2.3	R43.03	CGMS members to take into account the user requirements identified in the WMO survey (CGMS-43-WMO-04) when discussing continuous satellite coverage over the Indian Ocean region.	CGMS-44 EUM-WP-11 and -14	CGMS-44	OPEN	-
CGMS members	WGIII/3	R43.04	CGMS satellite operators to keep WMO informed of satellite/instrument commissioning dates or termination dates and prepare individual instruments "landing pages" that could be pointed to by OSCAR.	CGMS-44-WMO-WP-14	Ongoing	OPEN	-

EUM Poc

H/SEP (SEP/SSE, SEP/TH + SIR)

H/RSP (D/PRD)

H/RSP

D/OPS (H/RSO, H/USC)

USC/SW

WGIV STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

WGIV Actions open from previous plenary sessions (at CGMS-43)								
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref	EUM Poc
CGMS Members	WGIV	A39.51	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	<p>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.</p> <p>CGMS-41 WGIV commented that a more standardised solution is needed. Further discussion could take place at the EUMETSAT-WCRP Symposium on climate research and Earth observation from space planned for October 2014 if not completed earlier.</p> <p>Feb '15: Outcome still pending.</p> <p>WG-IV at CGMS-43 recommended to highlight this topic at plenary, in particular during the Climate session G.</p> <p>after consultation with John Bates (CEOS) who provided a presentation about data access, it is recommended to address this at the first inter-sessional meeting</p> <p>Presentation provided at WGIV webex Oct 2015. webex #2 9 Feb 2015: WGIV rapporteur discussed matter with new vice chair of CEOS-CGMS JWG Climate and he will come back with a proposal and might be taken over by the JWG.</p> <p><i>Jan 2016: CEOS/CGMS WG Climate will integrate the action into the 2016 work plan of WG Climate with the aim to discuss the matter at the next WG Climate meeting in March 2016 and to provide a document to CGMS-44. Information circulated to csr on 10 Feb 2016.</i></p>	(CGMS-40, -42) <b>New deadline CGMS-44</b>	<b>(CLOSED FOR WG I) OPEN FOR JWG CLIM</b>	HLPP#5.1.3	RSO/KPR

WGIV STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

<p>(CGMS satellite operators) <b>ROSH</b></p>	<p>WGIV</p>	<p>A40.37</p>	<p>CGMS satellite operators to report about the implementation of the World Geodetic System (WGS84) and Earth Geodetic Model (EGM-96) geographical reference systems.</p>	<p>EUMETSAT has updated the standard and reported that it will implement the new standard starting with the next generation of GEO satellites MTG.</p> <p>JMA has recently made up a new document for the format of "Himawari standard data" and it adopts WGS84 for the reference of geodetic parameters. The document has been available on the JMA/MSW Web site since 30 October 2013.  <a href="http://www.data.jma.go.jp/mscweb/en/himawari89/space_segment/hsd_sample/HS_D_users_guide_en_v11.pdf">http://www.data.jma.go.jp/mscweb/en/himawari89/space_segment/hsd_sample/HS_D_users_guide_en_v11.pdf</a></p> <p>IMD is using WGS84 for Insat 3D as documented in the product guide "INSAT/DP/SAC/SIPA/DPSG/TN-02/Ver 1.3/Mar 10" (provided by IMD).</p> <p>KMA: COMS HRIT and LRIT data is based on CGMS LRIT/HRIT Global Specification (Issue 2.6, not WGS84). KMA does not plan to adopt WGS84 for the COMS data. For GK-2A which is the COMS follow-on, KMA will adopt WGS84 for HRIT, LRIT and UHRIT (all 16 channels data) disseminated by GK-2A to users. Documentation will be available in the near future.</p> <p>Other CGMS members (CMA) to report on the implementation.</p> <p>CGMS-42-ROSH-WP-02: Open.  CGMS-43-JMA-WP-08 (Section 2)</p> <p>NOAA does not have plans to use WGS-84 for GOES-R, but will instead use GRS-80. See more information here:  <a href="http://www.goes-r.gov/users/docs/PUG-main-vol1-verC.pdf">http://www.goes-r.gov/users/docs/PUG-main-vol1-verC.pdf</a>  &amp;NOAA does not have plans to use WGS-84 for GOES-R, but will instead use GRS-80. See more information here:  <a href="http://www.goes-r.gov/products/docs/PUG-Vol-5A-vC.1-Interim.pdf">http://www.goes-r.gov/products/docs/PUG-Vol-5A-vC.1-Interim.pdf</a>. Current POES are using WGS-72. Suomi NPP and JPSS will use WGS-84.</p> <p><i>WG-IV at CGMS-43: change actionee to Roshydromet.</i></p>	<p>(CGMS-41, 42, -43) <b>New deadline CGMS-44</b></p>	<p><b>OPEN</b></p>	<p>HLPP #3.2</p>
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WGIV STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

ROSH	WGIV	A40.38	<p>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.</p>	<p>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.</p> <p>CGMS-42 ROSH-WP-02: A new Meteor-M satellite is to be launched in summer 2014. After the commissioning phase Roshydromet will review the technical modalities for the near-real time provision of Meteor-M data and associated ancillary information based on instrument operational functionality.</p> <p>Apr 2015: Meteor-M N2 is now operational. There are still calibration issues to be resolved for major instruments. Microwave sounder MTVZA-GY data simulation is now being supported by the RTTOV v11 package. Provision of global datasets could be discussed.</p> <p><i>ROSH was unable to attend CGMS-43 and the action was postponed to CGMS-44</i></p>	(CGMS-41, 42, -43) <b>New deadline CGMS-44</b>	<b>OPEN</b>	HLPP#2.8
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WGIV STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

EUMETSAT	WGIV/2	A41.49	EUMETSAT to present the MTG dissemination baseline for RA-I (Africa).	<p>CGMS-42: Definition is in progress but too premature to report upon.</p> <p>Jan 2015 IS#1 WGI/WGIV webex session: A study is under preparation bringing together three user community. Unlikely that results will be available for CGMS-43. Verbal status report to be provided. Output will serve as input to data dissemination baseline for Africa.</p> <p><i>WG-IV at CGMS-43: verbal status by EUMETSAT: Study is in progress and the results will be provided at CGMS-44.</i></p> <p><i>Webex WGIV 21 Oct 2015: WMO RA1 expert group meeting discussions in Aug 2015. Users do not make use of all available channels however users would like to have all MTG data. Migration from 2nd to 3rd generation is critical. Report by EUMETSAT expected at CGMS-44.</i></p> <p><i>Webex WGIV 9 Dec 2015: Transition scenario to be presented to EUM sr mgmt in Jan 2016. MTG Africa dissemination baseline concept note proposal preparation ongoing. Data volume and bandwidth issues to be considered. Baseline will be ready by the time MTG will be ready but not in the immediate future and the action will be ongoing. It is suggested to close this action but to have it included in the preparation for the user preparation phase for Africa. Verbal summary will be provided to CGMS-44 (and future meetings). 2016 internal EUM project formally to be kicked-off to include this activity.</i></p>	(CGMS-42, -43) <b>new deadline CGMS-44</b>	<b>OPEN</b>	HLPP# 2.2, #5.3	GEO/DFa (dissemination coordination)
(CGMS members) <b>CMA</b>	WGIV/8	A41.56	Each CGMS member to review the GEO version of the Long Term Data Preservation Guidelines (GEO LTDP) and provide feedback on the applicability of each single guideline to its own organisation by creating a compatibility table for the organisation	<p>CGMS-42-ROSH-WP-02: Still open</p> <p>CGMS-42-NOAA-WP-01: In general, NOAA is compliant with the GEO Long Term Preservation Guidelines (GEO LTDP) since these guidelines are based upon the Reference Model for an Open Archival Information System (OAIS-ISO 14721) and Producer Archive Interface Methodology Abstract Standard (PIAMAS-ISO 20652). Please see WP for full feedback.</p> <p>EUM: Michael Schick.</p> <p><i>WG-IV at CGMS-43: further feedback expected by CMA only, change actionee to CMA, deadline Dec 2015</i></p>	(CGMS-42, -43) <b>new deadline 31 Dec 2015</b>	<b>OPEN</b>	HLPP#5.1	



WGIV STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

WMO	WGIV/8	A41.57	WMO to provide feedback from CCI (Commission for Climatology) regarding the GEO LTDP.	Jan 2015: CCI to still provide feedback. WMO to remind them.  <i>WG-IV at CGMS-43: a last reminder to be sent, topic for intersessional meeting, deadline Dec 2015, then closure with or without feedback. No feedback received [Mar 2016]</i>	(CGMS-42, -43) <b>new deadline 31 Dec 2015</b>	<b>CLOSED</b>	HLPP#5.1	
CGMS members	WGIV/9	A42.05	CGMS Members to provide detailed comments on the Reference User Readiness Project to WMO (sbojinski@wmo.int)	EUM: Input on MTG provided through the WMO ET-SUP. This is now referred to SATURN Satellite User Readiness Navigator, part of SATURN portal. <a href="https://www.wmo-sat.info/satellite-user-readiness/">https://www.wmo-sat.info/satellite-user-readiness/</a>  <i>WG-IV at CGMS-43: extend deadline to CGMS-44.</i>	(CGMS-43) <b>new deadline CGMS-44</b>	<b>OPEN</b>	HLPP# 5.3	USC/SW
<b>CGMS-43 WGIV actions</b>								
<b>Actionee</b>	<b>AGN item</b>	<b>Action #</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>	
CGMS members	WGIV/3	A43.01	CGMS members to comment on "WMO Satellite Data Dissemination Strategy" (CGMS-43-WMO-WP-09)	EUM: Will provide comments directly to WMO prior to CGMS-44	CGMS-44	OPEN	-	RSO/KPR (dissemination on CG + SIR, DG)
EUMETSAT	(WGIII/2.) WGIV/4?	A43.02	(Action transferred from WGIII) EUMETSAT to propose dissemination plan for data from Indian Ocean Data Coverage partners identified in CGMS 43-EUM-14 roadmap.	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 degr E in June 2016 (after CGMS-44). CGMS-44 EUM-WP-14	CGMS-44	OPEN	-	RSO/KPR (GSI/LW)
NOAA	(WGIV/4) WGIV/7?	A43.03	NOAA to consider including GLM products in the HRIT stream	Webex 21 Oct 2015 discussion: NOAA is working on it, and final product list will be ready in the course of 1st 1/2 of 2016.	CGMS-44	OPEN	-	

WGIV STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

CGMS members	WGIV/10.1	A43.04	CGMS members to provide comments on the Progress Report of Task Team on discovering Meta Data (CGMS-43-EUMETSAT-WP-19)	<p>Ongoing. CGMS TF-MI chair [EUM] will provide feedback to the corresponding WMO technical groups for review/information.</p> <p>Oct 2015:</p> <ul style="list-style-type: none"> <li>- The 7th CGMS-WMO TFMI Telco took place on 8 Oct 2015. Minutes: <a href="https://github.com/CGMS-TFMI/CGMSTFMI-Teleconferences/blob/master/20151008-TF-MI-7th-Telco/20151008-CGMS-TF-MI-7th-Telco-Minutes_v1.0.docx">https://github.com/CGMS-TFMI/CGMSTFMI-Teleconferences/blob/master/20151008-TF-MI-7th-Telco/20151008-CGMS-TF-MI-7th-Telco-Minutes_v1.0.docx</a></li> <li>- The Mapping of the Information Model developed by the CGMS WMO TFMI to WMO Core Profile 1.3 will be complete by end Dec 2015.</li> <li>- A list of representative products from each organisations will be defined and finalised by end Nov 2015.</li> <li>- Each member organisation will provide by end Nov 2015 a spreadsheet for at least one of their products with the information for describing the product as defined in <a href="http://www.cgms-info.org/documents/CGMS-TF-MI-SatelliteDataEssentialInformationForDiscoveryMetadata.pdf">http://www.cgms-info.org/documents/CGMS-TF-MI-SatelliteDataEssentialInformationForDiscoveryMetadata.pdf</a></li> <li>- Complete documentation and examples to be provided for March 2016 and submitted to CGMS Working group IV, WMO IPET-MDRD and WMO ET-WISC (GISC Task Team).</li> </ul> <p>WGIV webex 9 Dec 2015: Task Team will conclude its activities prior to CGMS-44 and an endorsement will be required by plenary for the description of satellite data.</p> <p>CGMS-44-EUMETSAT-WP-17</p>	CGMS-44	OPEN	-
EUMETSAT	(WGI/6) WGIV/10.1	A43.05	CGMS Task Team on metadata to define discovery metadata for DBNET	<p>WGIV webex 9 Dec 2015: Draft DBNet guide submitted to TT, for cross-checking. To assure meta data aspects are taken into account. Expected to be endorsed as part of the final report.</p> <p>CGMS-44-EUMETSAT-WP-17</p>	CGMS-44	OPEN	-
CGMS members		A43.06	CGMS members to provide a listing of their data access portals.		CGMS-44	OPEN	-
<b>CGMS-43 WGIV Recommendations</b>							
"Actionee"	AGN item	Rec #	Description	Action feedback/closing document	Deadline	Status	HLPP ref

(H/GSI (+ GSI/GAu))

USC/SW

WGIV STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

CGMS space agencies	WGIV/7	R42.01	Satellite operators to provide WIS Discovery Metadata Records, compliant to WIS requirements and following the guidance to be provided by the CGMS-WMO Task Force on metadata implementation, in order to facilitate satellite information discovery and access	<p>NOAA: Related to metadata, the best reference is NGDC metadata provided here the URL:  <a href="http://www.ngdc.noaa.gov/metadata/">http://www.ngdc.noaa.gov/metadata/</a></p> <p><i>WGIV CGMS-43 discussions: Ongoing and routine activity. Recommendation maintained until CGMS-44</i></p> <p><i>WGIV webex 9 Dec 2015: To be taken up at the TT on Meta Data meeting the week of 14 Dec 2015.</i></p>	(CGMS-43) <b>CGMS-44</b>	<b>OPEN</b>	HLPP# 2.9	GSI/Gau
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SWTT STATUS OF ACTIONS AND RECOMMENDATIONS (resulting from CGMS-43, 18-22 May 2015)

CGMS-43 SWTT actions								
Actionee	AGN item	Action #	Description	Action feedback/closing docu	Deadline	Status	HLPP ref	EUM Poc
SWTT Chair	Ad hoc SW	A43.01	SWTT Chair to convene an intersession meeting to translate the ToRs into specific objectives for the HLPP and to define next steps for action until CGMS-44	Meeting held on 11-12 Feb 2016.	2 Sept 2015, CGMS-44	OPEN	-	
CGMS-43 SWTT Recommendations								
"Actionee	AGN item	Rec #	Description	Action feedback/closing docu	Deadline	Status	HLPP ref	
SWTT	Ad hoc SW	R43.01	Space weather matters to be addressed in a dedicated Space Weather Task Team (to be initially based on CGMSspaceweather@wmo.int) as discussed in CGMS-43 plenary.	New list server created in April 2016 (superseeding the one hosted at WMO): L-SWTT@LISTSERV.EUMETSAT.INT	CGMS-44	OPEN	-	H/FLO (FLO/ATM)

Actions and recommendations resulting from the 42nd CGMS plenary session on 22-23 May 2014

Plenary actions open from CGMS-40 and CGMS-41 (at CGMS-42)							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
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)	<p>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. It also contributes to Action 40.23 "CGMS to convene through the IROWG an ad-hoc meeting on the global GNSS-RO constellation, inviting all interested CEOS agencies".</p> <p>(see also actions WGII 40.23, WGIII 41.35 and WGIII 41.37)</p> <p>EUM will present at Working Paper on the outcome of its study <i>CGMS-43 EUM-WP-12</i></p> <p>Matter discussed at the IPET-OSDE-1, April 2014, and CBS-Ext(2014). CBS recommended conducting Observing System Simulation Experiments (OSSEs) in support of satellite system design criteria such as orbit optimization for GPS-RO satellites, or configurations for hyperspectral IR sounders on geostationary orbit.</p> <p>Following WGIII discussions, the action will be kept open until CGMS-44. WMO and NOAA to report on their activities at CGMS-44.</p>	(CGMS-41, -42, -43) <b>New deadline CGMS-44</b>	<b>OPEN</b>	HLPP#1.1.4
NOAA	Plen C.4	41.04	NOAA to present its requirement analysis tool at CGMS 42 (Following discussions on WIGOS at CGMS-41)	<p>(EUMETSAT is expected to be finished mid 2015). See also action WGII 40.23.</p> <p>NOAA expected to report to the Working Group at CGMS-43 (to be covered within the WG report to plenary).</p> <p>Closed following CGMS-43 WGIII discussions.</p>	CGMS-42 <b>New deadline CGMS-43</b>	<b>CLOSED</b>	-
<b>CGMS-42 Plenary actions</b>							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref

Actions and recommendations resulting from the 42nd CGMS plenary session on 22-23 May 2014

CGMS space agencies (+WMO)	Plen C.1	A42.01	CGMS Members who are willing to contribute satellite-based products to the annual WMO climate assessment shall nominate a point of contact to liaise with the future Commission on Climatology (CCI) Task Team on the Use of Satellite Data for Climate Monitoring in order to jointly define the specifications of these products, including validation and verification issues.	EUM: joerg.schulz@eumetsat.int, rainer.hollmann@dwd.de (EUMETSAT CM SAF) NOAA: John Bates, john.j.bates@noaa.gov  A first meeting will be held in Pretoria, June 2015 to define the programme.	15-Jun-14	<b>CLOSED</b>	HLPP # 5
WMO	Plen C.3	A42.02	WMO to establish a dialogue among CGMS satellite operators and the WMO Disaster Risk Reduction (DRR) programme to identify regional pilot actions for enhancing the use of satellites in support of DRR.	Dialogue initiated, will be reported at CGMS-43.under plenary item D. WMO to host a workshop in autumn 2015 to which space agencies will be invited. Closed following CGMS-42 plenary discussions.	CGMS-43	<b>CLOSED</b>	HLPP # 2.4
CMA, JMA, KMA and BoM	Plen C.3	A42.03	CMA, JMA, KMA and Bureau of Meteorology Australia to consider including a session on regional applications of satellites to DRR in the programme of the 5th Asia Oceania Meteorological Satellite Users Conference.	Included. AOMSUC-5 was held from 19-21 Nov 2014 (Shanghai). The outcome was circulated through 'csr'.	30-Jun-14	<b>CLOSED</b>	HLPP # 2.4
CGMS space agencies	Plen E.1.1.	A42.04	CGMS agencies to identify a point of contact and provide feedback on their respective Data Collection System (DCS) to sean.burns@eumetsat.int	CMA (NSMC): ZHANG Xusheng (Ms) xszhang@nsmc.cma.gov.cn ISRO: rama@sac.isro.gov.in JMA: KUMAGAI Yukihiro metsat@met.kishou.go.jp NOAA: Kay.Metcalf@noaa.gov ROSH: Dr. Lydia Ryabova, Head of Laboratory, SRC "PLANETA" ryabova@planet.iitp.ru	15 Jun 2014, 31 Jul 2014	<b>CLOSED</b>	HLPP # 1.2.1
CGMS members	Plen E.1.1 (wrt WGI)	A42.05	CGMS members to confirm to cgmssec@eumetsat.int the points of contact for preparation of the SATCOM forum meeting (in 2015)	NOAA: Scott.Rogerson@noaa.gov CGMS-43-CMA-WP-06	15-Jun-14	<b>CLOSED</b>	HLPP # 1.2.1
WGI Chair/ CGMSSEC	Plen E.1.3 (wrt WGI)	A42.06	WGI chair to draft a letter from CGMS to WMO for addressing the importance of the frequency bands assigned/associated to CGMS systems and the need to protect/preserve them.	The letter was drafted and endorsed during plenary and sent to WMO by the CGMS Secretariat after CGMS-42 (EUM/CGMS/LET/14/758771 of 2 Jun 2014) and the WMO response (8010-14/OBS/SAT/CGMS of 12 Jun 2014). Both letters were circulated through csr@wmo.int	23-May-15	<b>CLOSED</b>	HLPP # 1.3.3

Actions and recommendations resulting from the 42nd CGMS plenary session on 22-23 May 2014

WGI and WGIV	Plen E.1.3 (wrt WGI and WGIV)	A42.07	Following the revised scope of WGI and WGIV, the WGs to update the "Terms of Reference" of both WGs for endorsement by CGMS	This will be concluded by WGI and WGIV and be presented to CGMS-43 plenary for endorsement. (CGMS-43 EUM-WP-02). NOAA will provide feedback in CGMS-43 WGI and WGIV <i>ToRs agreed by WGI and WGIV at CGMS-43.</i> <i>Closure following plenary endorsement at CGMS-43</i>	CGMS-43	<b>CLOSED</b>	-
CGMSSEC/ CGMS members	Plen F.1.2	A42.08	CGMS Secretariat to send a reminder to CGMS members to respond to the CGMS/WMO letter sent in August 2013 regarding call for contributions for supporting the VLab Trust Fund (funding of the Technical Support Officer)	Reminder sent by CGMSSEC. KMA, EUMETSAT, and NOAA provided contributions in 2014. NESDIS and NWS contributions are expected in 2015 (Apr 2015). Will be addressed in plenary under the Vlab agenda item.	10 Jun 2014 30 Sep 2014	<b>CLOSED</b>	HLPP # 4.2.3
CGMS members	Plen G	A42.09	CGMS members to provide feedback on the CGMS website ( <a href="http://www.cgms-info.org">http://www.cgms-info.org</a> ) to cgmssec@eumetsat.int (including any news, text, reports other content for publication, improvements, etc.)	NOAA will provide any feedback directly to CGMSSEC	15-Oct-14	<b>CLOSED</b>	HLPP # 4
IOC-UNESCO	Plen H.2.1	A42.10	IOC to provide a paper on guidance to CGMS Members on sea surface salinity observations	CGMS-43 IOC-WP-01 (a dedicated CGMS-43 plenary agenda is foreseen).	CGMS-43	<b>CLOSED</b>	HLPP #1.1.6
CEOS/CGMS joint climate WG	Plen H.3.2	A42.11	Regarding the Pilot FCDR Inventory:  <ul style="list-style-type: none"> <li>Conduct an initial analysis of available FCDRs past and current available for or planned for use in the current set of SCOPE-CM projects using CEOS, CGMS, and WMO satellite data bases;</li> <li>Identify SCOPE-CM ECV projects that are or may be able to use the above FCDRs;</li> <li>Assess availability of the above FCDRs for the future;</li> <li>Following the first ECV gap analysis, consider FCDRs that may be useful in assessing ECV opportunities in the future ECV gap analysis.</li> </ul>	Nov '14: ONGOING. Discussions were held at the Climate Symposium regarding the Pilot FCDR inventory and work has begun on the specific identification of SCOPE-CM ECV projects and use of higher temporal and spatial resolution data from the next generation of geostationary satellites. The project will leverage the ECV assessment reference process being developed by WGClimat. CMA and KMA have been invited to participate in these efforts.  Reports are foreseen for WGII and plenary at CGMS-43 and CGMS-44.	CGMS-43, CGMS-44	<b>OPEN</b>	HLPP # 5
<b>CGMS-42 Plenary Recommendations</b>							
<b>"Actionee"</b>	<b>AGN item</b>	<b>Rec #</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
CGMS members	Plen C.1	R42.01	CGMS Members are encouraged to support regional climate watch demonstration projects.		(CGMS-43)	<b>CLOSED</b>	HLPP# 5.1.4

Actions and recommendations resulting from the 42nd CGMS plenary session on 22-23 May 2014

CGMS members	Plen C.2	R42.02	<ul style="list-style-type: none"> <li>• Support a review of meteorological satellite data use by RSMCs and other NMHSs in DRR – with DRR and Tropical Cyclone Programmes</li> <li>• Explore possibility to provide on-demand additional data/products in certain emergency situations – Procedures to be specified, identified points of contacts (ref CGMS-42 WMO-WP-04)</li> </ul>	<p>Special Himawari imagery was generated by JMA and used by the RSMC-Tokyo Typhoon Center during Typhoon Hagupit.</p> <p>CGMS-43-JMA-WP-02 (Section 2.2.3)</p>	(CGMS-43)	<b>CLOSED</b>	HLPP# 2.4
CGMS members	Plen C.4	R42.03	CGMS members are invited to capitalise on the experiences from EUMETSAT's IRS workshop to provide feedback to EUMETSAT on the available case studies (ref. CGMS-42 EUM-WP-02)		(CGMS-43)	<b>CLOSED</b>	HLPP # 3.6.1
CGMS members supporting Vlab	Plen F.1.2	R42.04	CGMS members that are sponsors of VLab Centres of Excellence to review and where possible augment their support to these Centres, as per the "Procedure for establishing Virtual Laboratory Centres of Excellence for Training in Satellite Meteorology" (section 2.2, <a href="http://www.wmo-sat.info/vlab/wp-content/uploads/2012/02/Procedures-for-New-CoEs_LV2012.pdf">http://www.wmo-sat.info/vlab/wp-content/uploads/2012/02/Procedures-for-New-CoEs_LV2012.pdf</a> )	CGMS-43-JMA-WP-02 (Section 3.6)	(CGMS-43)	<b>CLOSED</b>	HLPP # 4.2.3

WGI actions and recommendations resulting from CGMS-42 (May 2014)

WGI actions open from CGMS-41 (at CGMS-42)							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS members	WGI/3.1	A41.17	CGMS members to nominate representatives in the Task Team to work on RARS related aspects (before 1st IS meeting (WG-I.IS-2.1 mid October 2013))	<p>To be discussed between EUM and NOAA during the CGMSSEC#2 on 12 Feb 2014.</p> <p>CGMS-42: WGI/5: The list of representatives for the RARS Task Team (as agreed in CGMS-41) is incomplete:                      CMA: LIU Jian liujian@cma.gov.cn                      EUM: anders.soerensen@eumetsat.int, joaquin.gonzalez@eumetsat.int                      JMA: Hidehiko Murata, satellite@ml.kishou.go.jp                      NASA: jack.kaye@nasa.gov                      NOAA: Marlin.O.Perkins@noaa.gov                      CGMS-42-ROSH-WP-01: Sergey Uspensky (uspenskys@planet.iitp.ru)                      CGMS-42-WMO-WP-19</p> <p>13 May 2015: NOAA nominates AK Sharma, Awdhesh.sharma@noaa.gov, Mitch Goldberg, mitch.goldberg@noaa.gov, Liam Gumley, Liam.Gumley@ssec.wisc.edu</p>	(31 Aug 2013), <b>New deadline 15 Jun 2014</b>	<b>CLOSED</b>	HLPP# 1.4.5
CGMS-42 WGI actions							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS members	WGI/2	A42.01	CGMS members to provide feedback to WMO (David Thomas, Dthomas@wmo.int) on the preliminary WMO position on frequency protection for WRC-2015.	Discussed in plenary, draft letter endorsed by CGMS-42. (CGMSSEC sent the letter to WMO following CGMS-42).	30 Jun 2014	<b>CLOSED</b>	HLPP#1.3.3
EUM	WGI/2	A42.02	CGMS Liaison officer to SFCG to report to CGMS WG-I on the discussions and disposition of SFCG on all topics of interest to the different CGMS members. For achieving that a dedicated CGMS Secretariat WG-I working paper will be prepared by EUMETSAT Frequency Manager (in the role of liaison officer from CGMS to SFCG) and will be released to the participants of WG-I before end of Q1 of the corresponding year. Based on the contents, CGMS members will decide the level of information they will include in their specific reports to CGMS for the corresponding WG-I meeting.	CGMS-43-EUM-WP-xx	30 Mar 2015	<b>CLOSED</b>	HLPP#1.3



WGI actions and recommendations resulting from CGMS-42 (May 2014)

CGMS members	WGI/3.2.1	A42.03	CGMS members to regularly report to WGI their plans on the user preparation for their future systems (in areas aspects relevant to the WGI).	NOAA will address this verbally in WGI	CGMS-43	<b>CLOSED</b>	HLPP#1.4.2
CGMS members	WGI/3.2.1	A42.04	CGMS members to gather responses from manufacturers of receiving stations about experiences and lessons learnt for both LEO and GEO systems. Due date: September 2014 and provided answers to be assessed in dedicated Inter-Sessional meeting in November 2014	Discussed at WGI webex #1 (20 Jan 2015) CGMS-43-NOAA-WP-xx  NOAA response pending, per further discussions in WGI	15 Sep 2014, 15 Nov 2014	<b>CLOSED</b>	HLPP#1.4.3
CGMS members	WGI/3.2.1	A42.05	CGMS members to nominate focal points to support, via inter-sessional meetings, the analysis of the LRIT/HRIT Global Specification for its usefulness for next generation GEO satellite data dissemination, and propose an update taking into account the availability of new file format standards and dissemination means. Initial coordination to be done by EUMETSAT (as book captain of the document).	EUM: Simon.elliott@eumetsat.int CGMS-43 EUM-WP-xx JMA: Akiyoshi Andou, satellite@ml.kishou.go.jp CGMS-43-JMA-WP-08 (Section 2) NOAA: Paul.seymour@noaa.gov ROSH: Mr. Yuri Chetyrin, leading programmer, SRC "PLANETA", Far Eastern Center E-mail: niokr@dvrpcod.ru  Action agreed to be closed by WG-I at CGMS-43. A new action will be opened to use the identified team to work on the future updates of the HRIT Global spec	30 Jun 2014	<b>CLOSED</b>	HLPP#2.6
EUM	WGI/4	A42.06	EUMETSAT to provide template to report DCP system characteristics by the different DCP operators of CGMS	Circulated by EUMETSAT Jan/Feb 2015	30-Jun-14	<b>CLOSED</b>	HLPP#1.2
CGMS members	WGI/4	A42.07	CGMS DCP operators to provide DCP system characteristics (in the template form provided by EUMETSAT in action WGI/4 A42.06) in support of the preparation activities for the Satcom Forum in 2015.	CGMS-43 EUM-WP-xx NOAA has provided input to EUMETSAT.  Closed following WGI discussions at CGMS=43.	30-Sep-14	<b>CLOSED</b>	HLPP#1.2.1
WGI and WGIV	Plen E.1.3 (wrt WGI and WGIV)	Plen A42.07	Following the revised scope of WGI and WGIV, the WGs to update the Terms of Reference of both WGs for endorsement by CGMS	<i>Note: This is a plenary action that needs to be treated in WGs I and IV. Not started yet (status Jan 2015).EUM/KPR book captain.</i> CGMS-43 EUM-WP-xx (WGIV paper) NOAA will provide feedback in WGI and WGIV Closed following WGI discussions - for plenary to approve.	CGMS-43	<b>CLOSED</b>	-
<b>CGMS-42 WGI Recommendations</b>							
<b>"Actionee"</b>	<b>AGN item</b>	<b>Rec #</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>

WGI actions and recommendations resulting from CGMS-42 (May 2014)

CGMS space agencies	WGI/2	R42.01	CGMS satellite operators are invited to communicate and take into account the WMO position on frequency protection when addressing WRC-2015 preparation at the national level.	Communication with national representatives implemented, on regular basis, at the level of the different CGMS members (e.g. NOAA, EUMETSAT,..)	(CGMS-43)	<b>CLOSED</b>	HLPP#1.3.3
CGSM members	WGI/2	R42.02	CGMS WG-I, understanding the complexity of the issues to be covered in the area of frequency management and coordination (including interference assessments) for the existing and future space systems under the responsibility of the different CGMS members, and also recognising the efforts, already in place by most of the CGMS members, to concentrate these discussion in the frame of SFCG, recommends CGMS members to continue bringing all frequency management and coordination issues under the expert forum of SFCG and actions the liaison officer (from CGMS to SFCG) to report to CGMS WG-I all aspects of SFCG discussions considered of relevance to CGMS.	EUM/CGMSSEC: markus.dreis@eumetsat.int acts as liaison officer	(CGMS-43)	<b>CLOSED</b>	HLPP#1.3
CGMS space agencies (with LEO spacecraft)	WGI/5	R42.03	All agencies operating polar orbiting satellites to provide, whenever relevant for operational meteorology, a package based on the core software from the global processing for use in local and regional product processing, in particular level-1 processing	CMA has stated that they will do this, NOAA has IPAD from NASA and CSPP (Nesdis) both available online. EUM has AAPP. For future systems is TBD  ROSH Apr 2015: Processing package for MTVZA-GY/Meteor-M N2 instrument data is being developing. Release date TBD	(CGMS-43)	<b>CLOSED</b>	HLPP#1.4.4
CGMS members	WGI/5	R42.04	Each agency providing product processing packages to implement a user support function supporting the software release process, the software installation and anomaly resolution	User support is online for NOAA [URL?] JPSS software: <a href="http://cimss.ssec.wisc.edu/cspp/">http://cimss.ssec.wisc.edu/cspp/</a> . GOES and GOES-R software: <a href="http://cimss.ssec.wisc.edu/csppgeo/software.html">http://cimss.ssec.wisc.edu/csppgeo/software.html</a> . Additional support at <a href="http://www.ospo.noaa.gov">www.ospo.noaa.gov</a>  TBD for EUMETSAT (USC?) and CMA?	(CGMS-43)	<b>CLOSED</b>	HLPP#1.4.4

WGI actions and recommendations resulting from CGMS-42 (May 2014)

CGMS members	WGI/5	R42.05	CGMS to consider further actions to evaluate and document commonalities and best practices in organisation and architecture of Regional Services.	See WGI IS-01 meeting, Dec '14. To cover global specification and RARS. (Global specs Rational for Polarisation aspects for Direct Broadcast (e.g. FY-3C) Standardisation of User Terminals (HRPT), for example in terms of G/T. HRIT/LRIT Global specs for the instruments on board GOES-R and MTG. RARS: Status of progress of Regional RARS implementation (or plans for it) Definition of regions. Models for securing HRPT (L/X Band) "infrastructure" in a region Ideas for data gathering within regions and for inter-regions data transfer Outcome?	(CGMS-43)	<b>CLOSED</b>	HLPP#1.4.5
CGMS members	WGI/5	R42.06	Agencies to provide a complete and comprehensive Space to Ground Interface Control Document for each satellite family, defining the radio frequency encoding and data layout of the direct broadcast downlink	CMA: URL? NOAA: <a href="http://noaasis.noaa.gov/NOAASIS/pubs/HRD-LRD_Transition.pdf">http://noaasis.noaa.gov/NOAASIS/pubs/HRD-LRD_Transition.pdf</a> EUM: Metop on EUMETSAT web page [URL?]	(CGMS-43)	<b>CLOSED</b>	HLPP#1.4.2
CGMS members	WGI/5	R42.07	CGMS to promote standardisation of the data interface between the direct broadcast reception station and the product processing software	TBD	(CGMS-43)	<b>CLOSED</b>	HLPP#1.4.5
CGMS members	WGI/5	R42.08	CGMS to promote standardisation of the pass scheduling interface between the Regional Service and the direct broadcast reception station.	TBD	(CGMS-43)	<b>CLOSED</b>	HLPP#1.4.5
CGMS space agencies (with LEO spacecraft)	WGI/5	R42.09	All agencies operating polar orbiting satellites to provide product processing auxiliary data via the Internet	Refer to CCSDS 902.1 ( <a href="http://public.ccsds.org/sites/cwe/rids/Lists/CCSDS%209021R1/CCSDSAgency.aspx">http://public.ccsds.org/sites/cwe/rids/Lists/CCSDS%209021R1/CCSDSAgency.aspx</a> )	(CGMS-43)	<b>CLOSED</b>	HLPP#1.4.5
CGMS members	WGI/5	R42.10	CGMS to consider further actions on standardising the interregional interfaces for exchange of products, pass scheduling, monitoring and other information.	CGMS-43-EUM-WP- (tbc)	(CGMS-43)	<b>CLOSED</b>	HLPP#1.4.5
CGMS space agencies	WGI/5	R42.11	CGMS Satellite operators to support the definition and implementation of community agreed operational procedures for LEO satellite data direct read-out, acquisition, and relay in the context of the DRARS Implementation Group.		(CGMS-43)	<b>CLOSED</b>	HLPP#1.4.5

WGII actions and recommendations resulting from CGMS-42 (May 2014)

WGII actions open from CGMS-40 and -41 (at CGMS-42)							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
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	<p>No representative from IMD attended CGMS-41 hence will remain open. Will also be discussed at GSICS EP-14 on 15 July 2015</p> <p>New deadline following discussions at CGMS-42. GSICS Research and Data WG meetings were held in New Delhi, India, 16-20 March 2015 where reports by IMD/ISRO on INSAT-3D calibration using GSICS methodology were provided. ISRO participation is expected at GSICS EP and at CGMS-43. Action proposed for closure following WGII IS#2 on 30Mar2015</p> <p>(ISRO contacts: Dr Pradeep Kumar Thapliyal SAC/ISRO pkthapliyal@gmail.com; Yogdeep Desai, ISRO, (yogdeepdesai@sac.isro.gov.in IMD: A K Sharma, aksimd@gmail.com)</p>	(31 Dec 2012) <b>New deadline CGMS-43</b>	<b>CLOSED</b>	HLPP#3.1
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.	<p>EUM launched a study in 2014 with results available for the IROWG meeting in Apr 2015 to which CEOS agencies have been invited ( No participation by ASI, DLR in IROWG-4 (CMA, CSIRO, EUM, NASA, NOAA present as CEOS members). Action deferred to CGMS-43. See also actions WGIII 41.35 and WGIII 41.37. Study expected to be completed around mid 2015.</p> <p>CGMS-42 EUM-WP-12 in WG III IROWG-4 is meeting prior to CGMS-43 and a report on the outcome has been planned in WGII and in plenary.</p> <p>Closed following WGII CGMS-43 discussions.</p>	(CGMS-41) <b>New deadline CGMS-43</b>	<b>CLOSED</b>	HLPP#1.1.4

WGII actions and recommendations resulting from CGMS-42 (May 2014)

CGMS space agencies	WGII/2	41.18	<p>CGMS agencies with direct broadcast to provide access to software for converting satellite data packets to calibrated sensor observations (level 1b), and complete related information on the WMO website (<a href="http://www.wmo.int/pages/prog/sat/accessandtools_en.php">http://www.wmo.int/pages/prog/sat/accessandtools_en.php</a>). Deadline: 1 Nov 2013 to identify Point of Contact.</p>	<p>Links to preprocessing software packages available for all polar orbiters operated by CGMS members listed on WMO website, except for Meteor-M. EUMETSAT feedback provided to WMO on 24 Apr 2014. CGMS-42-ROSH-WP-02: After the commissioning phase of Meteor-M N2 satellite (2014), software for data processing to Level 1B will be tuned and made publically available.</p> <p>ROSH poc: Sergey Uspensky (<a href="mailto:uspenskys@planet.iitp.ru">uspenskys@planet.iitp.ru</a>).</p> <p>WMO: CGMS agencies encouraged to validate information on WMO website (also reviewed by the WMO Expert Team on Satellite Utilization and Products, ET-SUP), in April 2014.</p> <p>New deadline following discussions at CGMS-42.</p> <p>Apr 2015: Meteor-M N2 is now operational. Calibration is ongoing. Processing package for microwave sounder MTVZA-GY data is now being developing. Release date TBD.</p> <p>Closed following CGMS-43 WGII discussions</p>	(1 Nov 2013) <b>New deadline CGMS-43</b>	<b>CLOSED</b>	HLPP#1.4.4
IPWG	WGII/5	41.19	<p>IPWG to collect the details of data access arrangements for all GPM constellation contributions, and to document these on the IPWG website. Deadline: CGMS-42</p>	<p>IPWG website updated in Sep 2013 including relevant data sets on <a href="http://www.isac.cnr.it/~ipwg/data/datasets.html">http://www.isac.cnr.it/~ipwg/data/datasets.html</a> and GPM core observatory information; Action needs closing by IPWG-7 in Nov 2014. New deadline following discussions at CGMS-42.</p> <p>Dec '14: Data access to GPM constellation contributions through <a href="https://gportal.jaxa.jp/gp/top.html">https://gportal.jaxa.jp/gp/top.html</a> (Globe Portal, JAXA).</p>	(CGMS-42) <b>New deadline IPWG-7 (30 Nov 2014)</b>	<b>CLOSED</b>	HLPP #2.3

WGII actions and recommendations resulting from CGMS-42 (May 2014)

IWWG	WGII/6	41.25	IWWG co-chairs to i) organise a dedicated session at IWWG-12 on research, operational applications and benefits of high resolution AMVs and ii) to provide a corresponding report to the next CGMS meeting.	High-resolution AMVs will be discussed at IWWG-12, and a paper will be provided to CGMS-43. (New deadline following discussions at CGMS-42).  CGMS-43 IWWG-WP-01 For reference: CGMS-43-JMA-WP-04  Closed following CGMS-43 WGII discussions.	(CGMS-41, -42) <b>New deadline: IWW12, 30 June 2014, CGMS-43</b>	<b>CLOSED</b>	HLPP #3.2.1
JMA	WGII/8	41.26	JMA to establish an environment to implement multiple algorithms to retrieve quantitative ash cloud parameters from operational satellites. This will serve as a test bed for the intercomparison of retrievals on an operational basis in the framework of SCOPE-Nowcasting. JMA is invited to perform an intercomparison based on historical data and report on this to CGMS-42.	JMA introduced software based on EUMETSAT approach to the testbed, and started validation activities in collaboration with Tokyo VAAC. The NOAA algorithm will also be included.  CGMS-42 JMA-WP-07/ppt: VA retrieval intercomparison activity started and workshop to be organised in the framework of WMO SCOPE-Nowcasting at SSEC, Madison, on 29 June-2 July 2015 (a preparatory meeting was held on 20-23 October 2014). The JMA testbed will be useful once results from VA retrieval algorithm intercomparison are available.  New deadline following discussions at CGMS-42.  CGMS-43-JMA-WP-05 (Section 2)  New deadline following CGMS-43 WGII discussions. WMO to report on VA Intercomparison at CGMS-44	(CGMS-41/-42/-43) <b>New deadline: CGMS-44</b>	<b>OPEN</b>	HLPP #3.2.2
NOAA	WGII/6	41.28	NOAA to ensure that CIMSS/SSEC AMV reprocessing activity should be embedded into SCOPE-CM AMV project by a communication to the SCOPE-CM Secretariat.	Ongoing. First phase of project finished, validation phase ongoing. More information to be provided at IWWG-12. New deadline following discussions at CGMS-42. CIMSS has joined as a member the SCOPE-CM #10 on AMV reprocessing. (CGMS-43 EUM-WP-09) Closed following WGII IS#2 on 30 Mar 2015	(CGMS-41, -42) <b>New deadline: CGMS-43</b>	<b>CLOSED</b>	HLPP #5.1.3
<b>CGMS-42 WGII actions</b>							

WGII actions and recommendations resulting from CGMS-42 (May 2014)

Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
CMA, EUM, JMA, NASA, NOAA, WMO	WGII/3	A42.01	EUM/NOAA/NASA/JMA/CMA/WMO and others to provide names for a task team on calibration events logging.	CMA: LI Yuan liyuan@cma.gov.cn ESA: bojan.bojkov@esa.int EUM: tim.hewison@eumetsat.int, rob.roebling@eumetsat.int NOAA: Manik.Bali@noaa.gov NASA: cheryl.l.yuhas@nasa.gov (and Elizabeth Yoseph) JMA: m_takahashi@met.kishou.go.jp (as from 1 March 2015) WMO: Jerome Lafeuille: jlafeuille@wmo.int KMA: Byung-il Lee: bilee01@korea.kr Ensure that task team is part of the GSICS work plan.	15-Oct-14	CLOSED	HLPP#3.1
CMA, EUM, JMA, NASA, NOAA, WMO	WGII/3	A42.02	The new task team on calibration events logging to identify a common set of parameters to be monitored as part of the calibration events logging and sensor performance monitoring.	1st step: Template for calibration event landing pages presented at GDAWG in March 2015. New version of OSCAR/Space allows for identification of individual instruments and thus linking to calibration event test pages, test mode of new version of OSCAR/Space continuing until 1 month before CGMS-43; 2nd step: Draft a white paper to agree on common terminology to be used on landing pages, foreseen in 2015/2016 for presentation to CGMS-44. CGMS-43 EUM-WP-10 CGMS-43-JMA-WP-03 (Section 2.4)  NOAA: Work ongoing as a part of the GSICS work plan. Next steps are gathering information and agreeing on common terminology.  New deadline following CGMS-43 WGII discussions.	(CGMS-43) <b>New deadline: CGMS-44</b>	OPEN	HLPP#3.1
KMA	WGII/4	A42.03	KMA is invited to present a paper of different sources of soil moisture retrieval on their NWP forecasts	CGMS-43-KMA-WP-04: Test use of Metop-B/ASCAT on their global NWP system  New deadline following CGMS-43 WGII discussions.	(CGMS-43) <b>New deadline: CGMS-44</b>	OPEN	-
CMA	WGII/7 (Plen E.3.1.1)	A42.04	CMA is invited to present a paper to CGMS-43 on prospects of RO measurements with future FY-3 satellites.	CGMS-43-CMA-WP-05 Closed following CGMS-43 WGII discussions	CGMS-43	CLOSED	HLPP#1.1.4

WGII actions and recommendations resulting from CGMS-42 (May 2014)

CMA	WGII/8	A42.05	CMA to present a paper on their approach toward multi-sensor aerosol products.	CGMS-43-CMA-WP-07 on multi-channel aerosol products.	CGMS-43	<b>CLOSED</b>	-
ICWG co-chairs	WGII/8	A42.06	Co-chairs of the International Cloud Working Group (ICWG) to develop the new ICWG into a structure which is common to the existing International Science Working Group under CGMS and provide a report to CGMS-43.	Rapporteur: Dong WU: dong.l.wu@nasa.gov ICWG is establishing links with IPWG and IWWG CGMS-43 ICWG-WP-01	CGMS-43	<b>CLOSED</b>	HLPP#3.2.3
JAXA	WGII/9	A42.07	JAXA is invited to explore possibilities to adjust to GCOM-C1 orbit in order to optimise the mission with Sentinel-3A (reference is CGMS-42-NASA-WP-02).	JAXA (27 March '15): Technically it will be possible to adjust the initial orbit. However pragmatically it seems not feasible because the orbit will soon interfere with the next sentinel and without resolving this program level conflict, further analysis may not be worthy. (Orbits of Sentinel-3B 10:30 am desc; GCOM-C1 10:30 am desc; Setninel-3A 10:00 am desc) EUM to confirm details of Sentinel orbit plans and report to CGMS-43.  Closed following CGMS-43 WGII discussions.	CGMS-43	<b>CLOSED</b>	HLPP#1.1.6
WMO	WGII/10	A42.08	WMO is invited to provide a report to CGMS-43 on the outcome of the work of the Global Atmospheric Watch (GAW) Task Team on Observational Requirements	GAW Task Team met on 10-13 Nov 2014 and produced initial set of requirements to be consolidated by CGMS-43. A dedicated CGMS-43 plenary agenda item has also been foreseen.  CGMS-43-WMO-WP-05  Closed following CGMS-43 WGII discussions.	CGMS-43	<b>CLOSED</b>	-
IWWG, IPWG	WGII/11	A42.09	IWW12 and IPWG7 to respond to the updated HLPP and to provide feedback to cgmssec@eumetsat.int within 3 months after the working group meeting	HLPP raised at workshops of IWWG, IPWG. Nov '14: IPWG provided feedback in Jan '15. Comments to be provided to WG III at CGMS-43. IROWG meets end April 2015 and will report to CGMS-43.  IWWG feedback in CGMS-43 IWWG-WP-01	IWWG: 1 Oct 2014 IPWG: 1 Feb 2015	<b>CLOSED</b>	-
CMA	WGII/7 (from Plen E.3.1.1)	A 42.10	CMA is invited to present a paper to WGII at CGMS-43 on prospects of RO measurements with future FY-3 satellites.	(Action resulting from Plenary). Action closed because of duplication with Action CGMS-42 WGII/7 A42.04	CGMS-43	<b>CLOSED</b>	HLPP#1.1.4
<b>CGMS-42 WGII Recommendations</b>							
<b>"Actionee"</b>	<b>AGN item</b>	<b>Rec #</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>



WGII actions and recommendations resulting from CGMS-42 (May 2014)

GSICS	WGII/3	R42.01	GSICS to explore the utility of images affected by shortcomings of instruments (e.g. solar straylight) and draft a recommendation on the use of such data in the reprocessing.		(CGMS-43)	<b>CLOSED</b>	HLPP#3.1
CGMS ISWGs	WGII/4	R42.02	All ISWGs under CGMS (IPWG, ITWG, IWWG, IROWG, ICWG) to establish a formal interaction with Joint CEOS-CGMS Working Group on Climate.	<p>Nov '14: All ISWGs co-chairs have been added to the WGClimate email list and interactions are ongoing, particularly with the IROWG and ITWG. IPWG position paper provided by Huffman, Wang, Ferraro developed and delivered to J. Bates/CEOS.</p> <p>ICWG has interfaced with CEOS-CGMS JWG. WGII to address the definition of a process for a common approach to interact between all the ISWGs. Possible way forward to designate focal points from each ISWG that follow the JWGClimate deliberations without necessarily attending meetings.</p> <p>IWWG reprocessing of winds, SCOPE-CM</p> <p>(Apr 2015: IROWG Co-Chairs have been invited to the WGClimate group, Axel von Engeln participated in one meeting and has asked RO community whether they can provide support to WGClimate. H. Gleisner also reports SCOPE-CM activities to WGClimate.</p> <p>Suggested to address within Climate Sub-Group</p>	(CGMS-43)	<b>CLOSED</b>	HLPP#5.1
CGMS members	WGII/6	R42.03	CGMS recommends to CGMS members performing a reprocessing of AMVs to pursue future AMV reprocessing with their own algorithm and in addition with a common algorithm. IWW12 is invited to discuss the implications and derive guidance on the practical implementations.	<p>Link to SCOPE-CM activity.</p> <p>CGMS-43 WGII discussions (addressed by IWWG and NOAA)</p>	(CGMS-43)	<b>CLOSED</b>	HLPP#3.2.1

WGII actions and recommendations resulting from CGMS-42 (May 2014)

CGMS members	WGII/12	R42.04	<p>Working Group II at CGMS-42 discussed options to provide sustained financial support to the conduct of the International Science Working Groups under CGMS. Although the benefit of establishing a recurrent trust fund was acknowledged, it was concluded that the current approach that relies on voluntary contributions (money or in kind) has worked quite well and should be continued. CGMS members are kindly reminded that contributions on a voluntary basis are necessary and encouraged.</p>	<p>(IPWG Co-Chairs provided an input to WMO [S Bojinski] in which they favoured the trust fund approach.  <b>Conclusion at CGMS-42 was not to have a trust fund</b></p>	(CGMS-43)	<b>CLOSED</b>	-
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WGIII actions and recommendations resulting from CGMS-42 (May 2014)

WGIII actions open from CGMS-38 and -41 (at CGMS-42)							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
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.	<p>CGMS-41: 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.</p> <p>Nov '14: Task is in progress with the establishment of a dedicated task team by the Global Atmospheric Watch programme. 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. A WMO Global Atmospheric Watch Task Team on Observational Requirements and Satellite Measurements as regards Atmospheric Composition and Related Physical Parameters was established and held its first meeting on 10-13 November 2014. The meeting was very effective. Actions are in progress to update the observation requirements in support of 3 applications: Atmospheric composition forecasting, atmospheric monitoring assessment for international conventions, air quality in megacities.</p> <p>Working paper submitted to plenary -43. Closed following WGIII actions. A new WGIII action will be reformulated/made.</p>	(CGMS-38) <b>New deadline CGMS-43</b>	<b>CLOSED</b>	HLPP#1.1.1

WGIII actions and recommendations resulting from CGMS-42 (May 2014)

WMO	WGIII/4	41.42	<p>WG III (actionee TBD) to review the categorisation of missions in the CGMS baseline and refine it as appropriate in order to support a high-level mapping with FCDRs.</p>	<p>See also action Plen G.1.1; 41.12. Interactions with ET-SAT is ongoing (Feb 2014) CGMS WGIII rapporteur has presented a report to JWG on climate and WMO-WP-08 will be discussed at CGMS-42.</p> <p>CGMS-42-WMO-WP08: In progress with the contribution provided in the paper.</p> <p>Action closed following WGIII discussions. If needed, WGIII will create a new action or place one on CEOS-CGMS JWG climate.</p>	(15 Dec 2013) <b>new deadline</b> <b>CGMS-43</b>	<b>CLOSED</b>	HLPP #5.1.2
WGIII	WGIII (Plen E.3.1.3)	41.48	<p>WGIII to investigate the long-term planning of space based observation for global precipitation measurements and liaise as appropriate with the CEOS Precipitation Constellation</p>	<p>Discussed at CGMS-42: Regarding the long term planning of active precipitation measurement, will be postponed to 2015 in order to best take into account the progress of GPM-Core and CMA's plans for FY-3RM.</p> <p>CGMS-43: IPWG to provide an input to WGII, WGIII and to plenary on the current status, plans and recommendations to CGMS. IPWG has raised comments on the HLPP(contingency planning, observational gaps) relevant to WGIII.</p>	(CGMS-41) <b>New</b> <b>deadline</b> <b>CGMS-43</b>	<b>CLOSED</b>	HLPP #1.1.3

WGIII actions and recommendations resulting from CGMS-42 (May 2014)

CGMS space agencies	CGMS-41 Plen E.4.3/CGMS-42 Ad hoc space weather mtg	41.15 (from CGMS-41 Plen)	CGMS Members to nominate points of contact to work with WMO/ICTSW in order to define jointly a procedure to improve the collection, availability, and use of satellite anomaly information (30 September 2013)	CMA: ZHANG Xiaoxin and Dr.GUO Jianguang xxzhang@cma.gov.cn; guojg@cma.gov.cn EUM: mike.williams@eumetsat.int JMA: Yasushi Izumikawa (Mr) satellite@ml.kishou.go.jp KMA: Inchul SHIN icshin@korea.kr NASA HQ: Elsayed R. Talaat, Discipline Scientist, Heliophysics, NASA HQ, elsayed.r.talaat@nasa.gov NOAA: vanessa.l.griffin@noaa.gov WMO: jlafeuille@wmo.int  CGMS-42: Discussions. CGMS members to validate their poc and/or nominate new ones.  NOAA response pending, per further discussions in WGIII CGMS-43	(30/09/2013) <b>New deadline 30 Sep 2014</b>	<b>CLOSED</b>	HLPP #5.2.1
<b>CGMS-42 WGIII actions</b>							
<b>Actionee</b>	<b>AGN item</b>	<b>Action #</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
WMO, CMA, EUM, ROSH, ISRO	WGIII/2.2	A42.01	WMO to initiate a dialogue with Indian Ocean satellite operators and clarify which data are essential in the sense of Resolution 40, in view of the meteorological requirements in the region.	CGMS-43-EUM-WP-xx A CGMS-43 plenary agenda item has also been foreseen.	CGMS-43	<b>CLOSED</b>	HLPP#1.1.6
EUM, ISRO	WGIII/2.2	A42.02	EUMETSAT and ISRO will address the technical issues to accommodate high-resolution half-hourly data from INSAT-3D on dissemination means.	To be implemented mid 2015.	CGMS-43	<b>CLOSED</b>	HLPP#1.1.6
WMO	WGIII/2.2	A42.03	WMO to consider sending a request to CMA for moving an FY-2 spacecraft over the Indian Ocean after successful launch and commissioning of FY-2G.	(CGMSSEC Dec '14: Action slightly amended from "WMO to consider sending a request to CMA for moving FY-2D over the Indian Ocean after successful launch and commissioning of FY-2G.*"). This will be considered after launch of FY-2G. FY-2G was successfully launched on 31/12/2014.	CGMS-43	<b>CLOSED</b>	HLPP#1.1.6
NOAA	WGIII/2.2	A42.04	NOAA to report at the first WG-III Intersession meeting on its plans regarding the possibility of pre-operational dissemination of GOES-R data via e.g. GEONETCast-Americas both as a risk reduction measure and as a way to reap the earliest benefit of the new system.	Discussed at CGMS WGIII IS#1 of 17 March 2015. Closed as a consequence.	30-Nov-14	<b>CLOSED</b>	HLPP#1.1.6
ISRO	WGIII/2.2	A42.05	ISRO to report at CGMS-43 on its progress on radio-occultation processing of ROSA on Oceansat-2 and Megha-Tropiques, and on the possibility of near-real time access to ROSA data acquired at a high latitude station such as Svalbard.	CGMS-43 ISRO-WP-03 partially closed. NRT access to ROSA data remains open	(CGMS-43) <b>new deadline CGMS-44</b>	<b>OPEN</b>	HLPP#1.1.4

WGIII actions and recommendations resulting from CGMS-42 (May 2014)

EUM	WGIII/2.2	A42.06	EUMETSAT to review the schedule of its ECMWF radio-occultation study with the aim to deliver advanced results on the specific impact of the high-latitude COSMIC-2 constellation.	Nov '14: Study now at mid-term. First review Oct '14. The full set of scenarios, including the analysis, is expected early 2015, to be presented at the IROWG-4 meeting (Apr '15). The final report should become available in Q3 2015. Action on EUMETSAT; has been partly address by providing early results at various workshops, meetings (e.g. A. Thorpe's talk at Eighth FORMOSAT-3/COSMIC Data Users' Workshop 2014), and by providing a Working Paper/Presentation for CGMS-43: CGMS-43-EUM-WP-12	CGMS-43	<b>CLOSED</b>	HLPP#1.1.4
CNSA, EUM	WGIII/2.2	A42.07	EUMETSAT and CNSA to report at CGMS-43 on the progress of EUMETSAT-SOA collaboration on the dissemination of HY-2 data in near real time.		CGMS-43	<b>CLOSED</b>	HLPP#1.1.3
EUM, ISRO	WGIII/2.2	A42.08	ISRO and EUMETSAT to report at CGMS-43 on their discussions on data dissemination collaboration for SCATSAT data.	Ongoing. New deadline following CGMS-43 WGIII discussions.	CGMS-43) <b>new deadline CGMS-44</b>	<b>OPEN</b>	HLPP#1.1.3
CMA, ROSH	WGIII/3	A42.09	CMA and ROSHYDROMET to provide points of contact for possible participation in GHRSSST.	CMA: Mrs. WANG Sujuan wangsj@cma.gov.cn; Dr. LU Feng lufeng@cma.gov.cn ROSH: Mr. Alexey Chudin, leading programmer, SRC "PLANETA", Far Eastern Center E-mail: niokr@dvrpcod.ru, alexchudin@dvrpcod.ru	31-Aug-14	<b>CLOSED</b>	-
CEOS OCR-VC	WGIII/3	A42.10	OCR-VC Chair to provide feedback on the CGMS Baseline, and suggest more specific provisions addressing the needs of ocean colour monitoring, if relevant, for consideration by CGMS.	Input provided to WMO/Jlafeuille by S Bernhard, 17 Oct 2014	CGMS-43	<b>CLOSED</b>	HLPP#1.1.6
NOAA	WGIII/5	A42.11	NOAA to communicate to WG III the link to the information material collected by the SETT Tiger Team.	The link was circulated by e-mail.	31-Aug-14	<b>CLOSED</b>	HLPP#4.1.1
NOAA	WGIII/5	A42.12	NOAA to report at the first intersessional web meeting of WG III on the progress of the SETT.	Progress report provided at CGMS WGIII IS#1 of 17 March 2015. Closed as a consequence.	30-Nov-14	<b>CLOSED</b>	HLPP#4.1.1
NOAA	WGIII/5	A42.13	NOAA to circulate to WG III the 2-3 page report on socio-economic benefit to be produced by the SETT.	The report was circulated to the csr.	30-Apr-15	<b>CLOSED</b>	HLPP#4.1.1

WGIII actions and recommendations resulting from CGMS-42 (May 2014)

CGMS members	Plen H.1 for WGIII	A42.14	CGMS Members to establish an implementation team tasked to define detailed objectives for the implementation of CGMS space weather activities as defined in the Terms of Reference	NOAA: suzanne.hilding@noaa.gov cc kimberly.hurst@noaa.gov  Closed following CGMS-43 space weather discussions. To be addressed in the next inter- sessional webex meeting on 2 Sept 15	(15 Oct 2014, CGMS-43)	<b>CLOSED</b>	HLPP#5.2.2
CGMS members	Plen H.1 for WGIII	A42.15	The space weather implementation team to propose next steps until CGMS-43 and objectives to be included in the HLPP. This includes space weather observations into the WIS and implementation procedures to report on spacecraft anomalies	NOAA: To be discussed further in WGIII at CGMS-43.  Closed following CGMS-43 space weather discussions. To be addressed in the next inter- sessional webex meeting on 2 Sept 15	(15 Mar 2015, CGMS-43)	<b>CLOSED</b>	HLPP#5.2.2
WMO	CGMS-42 Ad hoc space weather mtg	A42.16	WMO to establish an e-mail listserver for CGMS Space Weather activities (including CGMS members and associated organisations)	created 9 March 2015 CGMSspaceweather@wmo.int (Please inform cgmsec@eumetsat.int if you would like to be added/removed from the list).	30 Sep 2014	<b>CLOSED</b>	HLPP #5.2.1
CGMS members	CGMS-42 Ad hoc space weather mtg	A42.17	CGMS Members interested in space weather activities to indicate to the CGMS Secretariat their points of contact for inclusion into the e-mailing list.	ZHANG, Xiaoxin xxzhang@cma.gov.cn GUO, Jianguang guojg@cma.gov.cn mike.williams@eumetsat.int Andrew.monham@eumetsat.int Joachim.saalmueller@eumetsat.int paul.counet@eumetsat.int IZUMIKAWA, Yasushi satellite@ml.kishou.go.jp SHIN, Inchul" icshin@korea.kr LEE, Hyesook hslee05@kma.go.kr suzanne.hilding@noaa.gov terry.onsager@noaa.gov kimberly.hurst@noaa.gov Charles.wooldridge@noaa.gov elsayed.r.talaat@nasa.gov jlafeuille@wmo.int cgmsec@eumetsat.int	30 Sep 2014	<b>CLOSED</b>	HLPP #5.2.1
<b>CGMS-42 WGIII Recommendations</b>							
"Actionee"	AGN item	Rec #	Description	Action feedback/closing document	Deadline	Status	HLPP ref

WGIII actions and recommendations resulting from CGMS-42 (May 2014)

<p>CGMS satellite operators</p>	<p>WGIII/2.1 (CGMS-41) WGIII/2.2 (CGMS-42)</p>	<p>R41.14</p>	<p>CGMS Satellite Operators to address the anticipated or potential gaps identified by WG III, in particular:</p> <ul style="list-style-type: none"> <li>• infrared and microwave sounding on the early morning orbit,</li> <li>• geostationary coverage of Indian Ocean</li> <li>• hyperspectral sounding missing in some geostationary sectors</li> <li>• ocean surface wind by scatterometry</li> <li>• long-term follow-on of radio-occultation constellation,</li> <li>• global precipitation measurement precipitation radar follow-on mission,</li> <li>• long-term Earth Radiation Budget monitoring</li> <li>• limb sounding for high-vertical resolution observations in the stratosphere and mesosphere (of temperature, humidity, wind, aerosol, ozone and other trace gases).</li> </ul>	<p>Ref CGMS-41 WGIII R 40.36. Ongoing. Discussed in WGIII at CGMS-41 and -42.</p> <p>CGMS-42-ROSH-WP-02: In order to fill the gaps in Hyperspectral sounding and Long-term Earth Radiation Budget monitoring over the Indian Ocean Roshydromet plans to install the appropriate instruments onboard future Electro-M geostationary satellites.</p> <p>Recommendation amended following WGIII CGMS-42 discussions.</p> <p>Closed following WGIII discussions. Terms of REference for WGIII will be documented taking this recommendation into account. Furthermore teh future agenda of WGIII will contain an item looking at any new potential risk areas.</p>	<p>(CGMS-43)</p>	<p><b>CLOSED</b></p>	<p>HLPP# 1.1</p>
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WGIV actions and recommendations resulting from CGMS-42 (May 2014)

WGIV Actions open from CGMS-39, -40, -41 and -42 (at CGMS-42)							
Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
CGMS Members	WGIV	A39.51	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	<p>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-41 WGIV commented that a more standardised solution is needed. Further discussion could take place at the EUMETSAT-WCRP Symposium on climate research and Earth observation from space planned for October 2014 if not completed earlier. Feb '15: Outcome still pending.</p> <p><i>WG-IV at CGMS-43 recommended to highlight this topic at plenary, in particular during the Climate session G. after consultation with John Bates (CEOS) who provided a presentation about data access, it is recommended to address this at the first inter-sessional meeting</i></p>	(CGMS-40, -42) <b>New deadline CGMS-44</b>	<b>OPEN</b>	HLPP#5.1.3

WGIV actions and recommendations resulting from CGMS-42 (May 2014)

<p>(CGMS satellite operators) <b>ROSH</b></p>	<p>WGIV</p>	<p>A40.37</p>	<p>CGMS satellite operators to report about the implementation of the World Geodetic System (WGS84) and Earth Geodetic Model (EGM-96) geographical reference systems.</p>	<p>EUMETSAT has updated the standard and reported that it will implement the new standard starting with the next generation of GEO satellites MTG. JMA has recently made up a new document for the format of "Himawari standard data" and it adopts WGS84 for the reference of geodetic parameters. The document has been available on the JMA/MSW Web site since 30 October 2013. <a href="http://www.data.jma.go.jp/mscweb/en/himawari89/space_segment/hsd_sample/HS_D_users_guide_en_v11.pdf">http://www.data.jma.go.jp/mscweb/en/himawari89/space_segment/hsd_sample/HS_D_users_guide_en_v11.pdf</a> IMD is using WGS84 for Insat 3D as documented in the product guide "INSAT/DP/SAC/SIPA/DPSG/TN-02/Ver 1.3/Mar 10" (provided by IMD). KMA: COMS HRIT and LRIT data is based on CGMS LRIT/HRIT Global Specification (Issue 2.6, not WGS84). KMA does not plan to adopt WGS84 for the COMS data. For GK-2A which is the COMS follow-on, KMA will adopt WGS84 for HRIT, LRIT and UHRIT (all 16 channels data) disseminated by GK-2A to users. Documentation will be available in the near future. Other CGMS members (CMA) to report on the implementation.</p> <p>CGMS-42-ROSH-WP-02: Open.</p> <p>CGMS-43-JMA-WP-08 (Section 2)</p> <p>NOAA May 2015: NOAA does not have plans to use WGS-84 for GOES-R, but will instead use GRS-80. See more information here:</p>	<p>(CGMS-41, 42, -43) <b>New deadline CGMS-44</b></p>	<p><b>OPEN</b></p>	<p>HLPP #3.2</p>
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WGIV actions and recommendations resulting from CGMS-42 (May 2014)

				<p>NOAA does not have plans to use WGS-84 for GOES-R, but will instead use GRS-80. See more information here:  <a href="http://www.goes-r.gov/users/docs/PUG-main-vol1-verC.pdf">http://www.goes-r.gov/users/docs/PUG-main-vol1-verC.pdf</a></p> <p>&amp;NOAA does not have plans to use WGS-84 for GOES-R, but will instead use GRS-80. See more information here:  <a href="http://www.goes-r.gov/products/docs/PUG-Vol-5A-vC.1-Interim.pdf">http://www.goes-r.gov/products/docs/PUG-Vol-5A-vC.1-Interim.pdf</a>. Current POES are using WGS-72. Suomi NPP and JPSS will use WGS-84.</p> <p>WG-IV at CGMS-43: change actionee to Roshydromet.</p>			
ROSH	WGIV	A40.38	<p>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.</p>	<p>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.</p> <p>CGMS-42 ROSH-WP-02: A new Meteor-M satellite is to be launched in summer 2014. After the commissioning phase Roshydromet will review the technical modalities for the near-real time provision of Meteor-M data and associated ancillary information based on instrument operational functionality.</p> <p>Apr 2015: Meteor-M N2 is now operational. There are still calibration issues to be resolved for major instruments. Microwave sounder MTVZA-GY data simulation is now being supported by the RTTOV v11 package. Provision of global datasets could be discussed.</p> <p>ROSH were unable to attend CGMS-43 and the action was postponed to CGMS-44</p>	(CGMS-41, 42, -43) <b>New deadline CGMS-44</b>	<b>OPEN</b>	HLPP#2.8

WGIV actions and recommendations resulting from CGMS-42 (May 2014)

EUMETSAT	WGIV/2	A41.49	EUMETSAT to present the MTG dissemination baseline for RA-I (Africa).	CGMS-42: Definition is in progress but too premature to report upon. Jan 2015 IS#1 WGI/WGIV webex session: A study is under preparation bringing together three user community. Unlikely that results will be available for CGMS-43. Verbal status report to be provided. Output will serve as input to data dissemination baseline for Africa.  WG-IV at CGMS-43: verbal status by EUMETSAT: Study is in progress and the results will be provided at CGMS-44.	(CGMS-42, -43) <b>new deadline CGMS-44</b>	<b>OPEN</b>	HLPP# 2.2, #5.3
(CGMS members) <b>CMA</b>	WGIV/8	A41.56	Each CGMS member to review the GEO version of the Long Term Data Preservation Guidelines (GEO LTDP) and provide feedback on the applicability of each single guideline to its own organisation by creating a compatibility table for the organisation	CGMS-42-ROSH-WP-02: Still open CGMS-42-NOAA-WP-01: In general, NOAA is compliant with the GEO Long Term Preservation Guidelines (GEO LTDP) since these guidelines are based upon the Reference Model for an Open Archival Information System (OAIS-ISO 14721) and Producer Archive Interface Methodology Abstract Standard (PIAMAS-ISO 20652). Please see WP for full feedback. EUM: Michael Schick.  WG-IV at CGMS-43: further feedback expected by CMA only, change actionee to CMA, deadline Dec 2015	(CGMS-42, -43) <b>new deadline 31 Dec 2015</b>	<b>OPEN</b>	HLPP#5.1
WMO	WGIV/8	A41.57	WMO to provide feedback from CCI (Commission for Climatology) regarding the GEO LTDP.	Jan 2015: CCI to still provide feedback. WMO to remind them.  WG-IV at CGMS-43: a last reminder to be sent, topic for intersessional meeting, deadline Dec 2015, then closure with or without feedback	(CGMS-42, -43) <b>new deadline 31 Dec 2015</b>	<b>OPEN</b>	HLPP#5.1

WGIV actions and recommendations resulting from CGMS-42 (May 2014)

CGMS members	WGIV/9	A41.58	CGMS members to provide feedback on the improved concept of the WMO Product Access Guide (PAG), in particular on the feasibility with respect to their organization's product catalogues	EUM: Input provided to WMO Space Programme mid 2014, EUMETSAT's product navigator URLs provided to the PAG. NOAA: CGMS-42-NOAA-WP-01 ROSH: CGMS-42-ROSH-WP-02: Still open  Other CGMS members to provide feedback.  Jan 2015: The Product Access Guide has been published. EUM: No comments in view of action A42.04 (Feb '15)  WG-IV at CGMS-43: action is obsolete after publication of PAG, can be closed	(CGMS-42) <b>new deadline</b> <b>CGMS-43</b>	<b>CLOSED</b>	HLPP#5.3
<b>CGMS-42 WGIV actions</b>							
<b>Actionee</b>	<b>AGN item</b>	<b>Action #</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
CGMS members	WGIV/4.2	A42.01	CGMS members producing ocean colour products to comment on the 2 recommendations given in CGMS-42-CEOS-WP-29:  - to adopt netCDF4/CF for their ocean colour data;  - to support large volume, batch data access and download (e.g., through established means such as ftp/http), as well as more targeted access through protocols such as REDDS/OpenDAP	KMA (KIOST) : - GOCI data is currently in HDF-EOS5. netCDF4/CF will be considered as a candidate for GOCI-II data format. - KIOST partially supports large volume data access and download through ftp. KIOST will consider positively to support more targeted access through protocols such as THREDDS/OpenDAP.  NOAA 13 May 2015: a. Yes, our SNPP-VIIRS ocean color products will adopt netCDF4 format. In addition, we would like recommend additional formats of png, Geotiff and HDF4.1. b. To support large volumes, batch data access and download, we have established means such as ftp/http. We are planning to build the Thredds distribution server which has the following functionality: more targeted access through protocols such as OpenDAP, HDF, GRIB, BUFR, and NEXRAD.  WG-IV at CGMS-43: no further feedback expected, can be closed	CGMS-43	<b>CLOSED</b>	HLPP# 2.5

WGIV actions and recommendations resulting from CGMS-42 (May 2014)

CGMS members	WGIV/6	A42.02	CGMS members to comment on the work done in the context of the EUMETSAT provided VIIRS Regional Service, and to provide feedback on the proposal to define a standardised compact product format, generalised to cover the advanced imagers of the current and planned polar orbiting satellites.	WG-IV at CGMS-43: this is addressed in the RARS context and will be handled by WG-I. Suggest to wait until a conclusion is reached in RARS before expanding to a wider context. Action to be closed and a new action created in WG-I.	CGMS-43	<b>CLOSED</b>	HLPP# 2.7
CGMS members	WGIV/7	A42.03	CGMS members to comment on the IGDDS vision, and to provide feedback to WMO (jlafeuille@wmo.int)	Reminder and text for commenting circulated to csr on 26 Feb 2015 by CGMSSEC. EUMETSAT feedback provided to WMO on 19 May 2015.  WG-IV at CGMS-43: action is obsolete with CGMS-43-WMO-WP-09 on the "WMO Satellite Data Dissemination Strategy", can be closed	CGMS-43	<b>CLOSED</b>	HLPP# 2.8
CGMS members	WGIV/9	A42.04	CGMS members to nominate focal points that would work with the WMO Secretariat in populating the PAG, initially for one year; such nomination could take into account current membership of the WMO Expert Team on Satellite Utilization and Products (ET-SUP). WMO: Stefan Bojinski sbojinski@wmo.int	ESA: Jean-Louis Fellous, jfellous@noos.fr EUM: Sally.Wannop@eumetsat.int JMA: Daisaku Uesawa,satellite@ml.kishou.go.jp KMA: tbc? NOAA nominates Tony Mostek, anthony.mostek@noaa.gov ROSH: Dr. Sergey Uspensky, Head of Department, SRC "PLANETA" E-mail: uspenskys@planet.iitp.ru  WG-IV at CGMS-43: this topic is a data content issue, rather than data access.Closed for WGIV. New action to be raised in WGII	15-Jul-14	<b>CLOSED</b>	HLPP# 5.3
CGMS members	WGIV/9	A42.05	CGMS Members to provide detailed comments on the Reference User Readiness Project to WMO (sbojinski@wmo.int)	EUM: Input on MTG provided through the WMO ET-SUP. This is now referred to SATURN Satellite User Readiness Navigator, part of SATURN portal. <a href="https://www.wmo-sat.info/satellite-user-readiness/">https://www.wmo-sat.info/satellite-user-readiness/</a>  WG-IV at CGMS-43: extend deadline to CGMS-44	(CGMS-43) <b>new deadline CGMS-44</b>	<b>OPEN</b>	HLPP# 5.3

WGIV actions and recommendations resulting from CGMS-42 (May 2014)

WGI and WGIV	Plen E.1.3 (wrt WGI and WGIV)	Plen A42.07	Following the revised scope of WGI and WGIV, the WGs to update the "Terms of Reference" of both WGs for endorsement by CGMS	<i>Note: This is a plenary action that needs to be treated in WGs I and IV.</i>  <i>ToRs agreed by WGIV at CGMS-43</i>	CGMS-43	<b>CLOSED</b>	-
<b>CGMS-42 WGIV Recommendations</b>							
<b>"Actionee"</b>	<b>AGN item</b>	<b>Rec #</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
CGMS space agencies	WGIV/7	R42.01	Satellite operators to provide WIS Discovery Metadata Records, compliant to WIS requirements and following the guidance to be provided by the CGMS-WMO Task Force on metadata implementation, in order to facilitate satellite information discovery and access	NOAA: Related to metadata, the best reference is NGDC metadata provided here the URL: <a href="http://www.ngdc.noaa.gov/metadata/">http://www.ngdc.noaa.gov/metadata/</a>  WGIV CGMS-43 discussions: Ongoing and routine activity. Recommendation maintained until CGMS-44	(CGMS-43)	<b>OPEN</b>	HLPP# 2.9

Plenary actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
1	<b>Plenary actions open from CGMS-40 (at CGMS-41)</b>							
2	<b>Actionee</b>	<b>Action</b>	<b>#</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
3	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)	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. It also contributes to Action 40.23 "CGMS to convene through the IROWG an ad-hoc meeting on the global GNSS-RO constellation, inviting all interested CEOS agencies". (see also actions WGII 40.23, WGIII 41.35 and WGIII 41.37) Matter discussed at the IPET-OSDE-1, April 2014, outcome?	(CGMS-41) <b>New deadline CGMS-43</b>	<b>OPEN</b>	HLPP#1.1.4
4	<b>CGMS-41 Plenary actions</b>							
5	<b>Actionee</b>	<b>Action</b>		<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
6	WMO	Plen C.1	41.01	WMO to report on the progress of GFCS implementation	WMO-WP-01 to be presented in Plen C.1 (+WMO-WP-03 for info to plenary).	CGMS-42	<b>CLOSED</b>	HLPP #5.1.1
7	GCOS	Plen C.2	41.02	GCOS to provide a statement documenting the importance of LEO sampling from 3 distributed orbits for climate observation (due; 30 September 2013)	GCOS letter to CMA of 30 Sep 2013 circulated to csr on 25Oct2013.	30-Sep-13	<b>CLOSED</b>	HLPP #1.1.1
8	IOC-UNESCO	Plen C.3	41.03	IOC to provide a paper on guidance to CGMS Members on ocean colour observations	IOC-WP-01 (session H.2 on oceanography).	CGMS-42	<b>CLOSED</b>	HLPP #3
9	NOAA	Plen C.4	41.04	NOAA to present its requirement analysis tool at CGMS 42	(EUMETSAT is expected to be finished mid 2015). See also action WGII 40.23. NOAA expected to report to CGMS-43.	CGMS-42 <b>New deadline CGMS-43</b>	<b>OPEN</b>	-
10	CGMS space agencies	Plen C.5	41.05	CGMS space agencies to nominate focal points for a task team to share experience and prepare a dynamic WMO web-based portal on initiatives taken by satellite operators to prepare users for the next generation of GEO satellites. The structure of this portal will follow the CBS user preparedness guidelines and will link to the latest information available on space agency web-sites, online resources and related projects.	CMA: Dr. LU Feng, (lufeng@cma.gov.cn) EUM: Ms. Sally Wannop, (sally.wannop@eumetsat.int) JMA: Mr. Yasushi Izumikawa, (satellite@ml.kishou.go.jp) KMA Mr. Kwang-Jae LEE (igleam08@korea.kr) NOAA: Dr. Steve Goodman (steve.goodman@noaa.gov) WMO: Dr. Stephan Bojinski (sbojinski@wmo.int) and Mr. Jerome Lafeuille (jlafeuille@wmo.int)	15-Sep-13	<b>CLOSED</b>	HLPP #4.2.1, 5.3
11	WMO	Plen C.5	41.06	WMO to report on the progress of the task team on the WMO web-based portal for user preparedness on next generation GEO satellites.	Discussed in WGIV. CGMS-42 WMO-WP-20 (session C.5)	CGMS-42	<b>CLOSED</b>	HLPP #4.2.1, 5.3



Plenary actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
12	CGMS space agencies	Plen E.2.2	41.07	CGMS members to report on their support to WMO region-based groups maintaining satellite data access and exchange requirements	(EUM-WP-33 presented in WGIV) JMA-WP-03 WMO-WP-12 ROSH-WP-02: Supports WMO region-based groups maintaining satellite data access and exchange requirements by participating in Expert Team on Satellite Utilization and Products (WMO ET-SUP)	CGMS-42	<b>CLOSED</b>	HLPP #2.1
13	CGMS members	Plen E.3.1.2	41.08	CGMS members to nominate focal points for the SCOPE-Nowcasting (NWC) initiative as appropriate	CMA, KMA, JMA, EUM, NOAA have nominated FPs CMA: Xiang Fang fangxiang@cma.gov.cn KMA: Eun-jeong Cha cha@kma.go.kr JMA: Daisaku Uesawa satellite@ml.kishou.go.jp NOAA: Mike Pavolonis mike.pavolonis@noaa.gov cc Mitch Goldberg mitch.goldberg@noaa.gov EUM: Marianne.koenig@eumetsat.int WMO: sbojinski@wmo.int	15-Aug-13	<b>CLOSED</b>	HLPP #3.3
14	CGMS members	Plen E.3.1.2	41.09	Feedback from CGMS members sought on the final makeup of the SCOPE-NWC pilot projects by 1 September 2013	Closed. Will be discussed at the SCOPE-NWC meeting on November 2013.	01-Sep-13	<b>CLOSED</b>	HLPP #3.3
15	WMO/CGMSSEC	Plen H.1	41.10	WMO and CGMSSEC to write a letter to CGMS members regarding regular contributions to the WMO VLab Trust Fund for the sustained continuation of the VLab Technical Support Officer	WMO/CGMSSEC letter ref. 8015-13/OBS/SAT/VL / CGMS/LET/13/717655 dated 13 August 2013 was circulated to CGMS Members on 14 August 2014 through the 'csr'. March 2014: Contributions have been confirmed by KMA, NOAA, and EUMETSAT (corresponding to <50KUSD). [CGMS-42 WMO-WP-24?]	31-Aug-13	<b>CLOSED</b>	-

Plenary actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
16	CGMS members	Plen G.1.1	41.11	CGMS members to nominate members for the CEOS/CGMS joint climate working group	CMA: Fan Jinlong, fanjl@cma.gov.cn ESA: pascal.lecomte@esa.int EUM: Paul.Counet@eumetsat.int, joerg.schulz@eumetsat.int JAXA: Keiji IMAOKA <imaoka.keiji@jaxa.jp>, Kazuo Umezawa umezawa.kazuo@jaxa.jp JMA: Yasushi Izumikawa, (satellite@ml.kishou.go.jp) KMA: Inchul SHIN (icshin@korea.kr) NOAA: John J. Bates (john.j.bates@noaa.gov) NASA: Eric Lindstrom (eric.lindstrom@nasa.gov) ROSH: Alexey Rublev (alex.rublev@mail.ru) WMO: Wenjian Zhang (wzhang@wmo.int, cc to jlafeuille@wmo.int and sbojinski@wmo.int)	31-Aug-13	<b>CLOSED</b>	HLPP #5.1.9
17	CEOS/CGMS joint climate WG	Plen G.1.1	41.12	CGMS Plenary proposes that the CGMS/CEOS joint climate WG establish an inventory of FCDRs including for each one:  Information on - contributing missions and instruments - calibration and cross-calibration - contributing agencies and reference to ECV/TCDRs which could be extracted.  To be done in addition to and in full consistency with the existing ECV-driven inventory of TCDRs.	E-mail feedback 30Aug2013: IOC intends to support the newly-established CEOS/CGMS joint climate WG to the maximum extent allowable by available resources. (Ref WGIII recommendation 41.18)  JWG to report to CGMS-42 plenary session H.3.2 ET-SAT will provide an input to the joint CWG (see also actions WGIII 41.42 and 41.43).  The CGMS WG III Rapporteur, with input from ET-SAT, presented a report on this matter to the joint WGC. See CGMS-42 WMO-WP-08. Closed following CGMS-42 plenary discussion. A new follow-on action will be raised.	CGMS-42	<b>CLOSED</b>	HLPP #5.1.9
18	CEOS/CGMS joint climate WG	Plen G.1.1	41.13	The CEOS/CGMS joint climate working group to report to each CGMS plenary session	Foreseen in plenary session H.3.2	starting with CGMS-42	<b>CLOSED</b>	HLPP #5.1.9
19	NOAA/CGMSSEC	Plen I	41.60	NOAA and CGMSSEC to lead on the coordination and implementation of the outreach and inreach activities proposed with the support of other CGMS members. (Create/exhibit CGMS material at relevant events, quarterly features on the CGMS web site, develop an image web gallery, participation in the CGMS socio-economic benefits Tiger Team, development of regular online newsletters).	(Action added following the editing of the CGMS-41 report). NOAA-WP-03.ppt	Sept/Oct 2013 Jan 2014 Apr 2014 CGMS-42	<b>CLOSED</b>	HLPP #4.1
20	<b>SPACE WEATHER</b>							
21	<b>Actionee</b>	<b>Action</b>	<b>#</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>

Plenary actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
22	CGMS members	Plen E.4.3	41.14	CGMS Members to nominate a team to develop the TOR for CGMS space weather activities, taking into account the guiding principles discussed in the ad-hoc session, for consideration by CGMS-42	Volunteers to serve on this team: CMA, NOAA, WMO, JMA (TBC), KMA (TBC)  CMA: ZHANG Xiaoxin and GUO Jianguang xxzhang@cma.gov.cn; guojg@cma.gov.cn KMA: Hyesook LEE hslee05@kma.go.kr NOAA: suzanne.hilding@noaa.gov, terry.onsager@noaa.gov, kimberly.hurst@noaa.gov NASA HQ: Elsayed R. Talaat, Discipline Scientist, Heliophysics, NASA HQ, elsayed.r.talaat@nasa.gov WMO: jlafeuille@wmo.int  Meeting held on 7-8 Jan 2014, Geneva + webex. ToR's and proposed way forward established. Ad hoc meeting planned at CGMS-42 incl a presentation to plenary.	15-Sep-13	CLOSED	HLPP #5.2.2
23	CGMS members	Plen E.4.3	41.15	CGMS Members to nominate points of contact to work with WMO/ICTSW in order to define jointly a procedure to improve the collection, availability, and use of satellite anomaly information (30 September 2013)	CMA: ZHANG Xiaoxin and Dr.GUO Jianguang xxzhang@cma.gov.cn; guojg@cma.gov.cn EUM: mike.williams@eumetsat.int JMA: Yasushi Izumikawa (Mr) satellite@ml.kishou.go.jp KMA: Inchl SHIN icshin@korea.kr NASA HQ: Elsayed R. Talaat, Discipline Scientist, Heliophysics, NASA HQ, elsayed.r.talaat@nasa.gov WMO: jlafeuille@wmo.int	30-Sep-13	CLOSED	HLPP #5.2.1
24	<b>CGMS-41 Plenary Recommendations</b>							
25	<b>"Actionee"</b>	<b>Rec</b>	<b>#</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
26	Joint CEOS/CGMS climate WG	Plen G.1.2 R	41.01	Space-based climate architecture: To extend the ECV product inventory to FCDRs	The recommendation was made at CGMS-41 plenary when plenary item G.1.2 was discussed. Feedback foreseen in plenary session H.3.2 See actions Plen G.1.1; 41.12 and WGIII 41.42 and WGIII 41.43.	CGMS-42	CLOSED	HLPP#
27	Joint CEOS/CGMS climate WG	Plen G.1.2 R	41.02	Space-based climate architecture: the design phase of new sensors should include an analysis of compatibility with heritage instruments.	The recommendation was made at CGMS-41 plenary when plenary item G.1.2 was discussed. Feedback foreseen in plenary session H.3.2	CGMS-42	CLOSED	HLPP#

WGI actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
1	<b>WGI actions open from CGMS-39 and -40 (at CGMS-41)</b>							
2	<b>Actionee</b>	<b>Action</b>	<b>#</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
3	CGMS Members	WGI	39.21	<p>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</p>	<p>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.</p> <p>ROSH-WP-02: Roshydromet is going to utilize the 7750-7900 MHz band for future Meteor-MP series (meteorological and oceanographical) satellites. Two downlinks with throughput of 139 Mbit/s each will be used for data transmission over European, Siberian and Far Eastern centers of SRC Planeta. Each data transmission session will be at least 15 min. All Meteor-MP satellites are to be placed to sun-synchronous orbit. Orbital parameters for meteorological satellites are: H=835 km, inclination 98.85°, for oceanographical satellite: H=653 km, inclination 97.98°.</p> <p>CGMS-42 WGI discussions: CGMS-42-NOAA-WP-01: NOAA suggests the action be closed since it is currently being addressed in ITU WG 7B and in the SFCG. No further action will be taken by NOAA.</p>	(CGMS-40) <b>New deadline 15 Oct 2013</b>	<b>CLOSED</b>	HLPP#1.3.2

WGI actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
4	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).	<p>New deadline proposed end Q1 2013 (during CGMS-40) for specific follow up Inter-Sessional e-meeting had to be postponed to a new Inter-Sessional (IS-1) meeting of WG-I in May 2013 as key inputs were missing on some of the WG-I participants. Second IS meeting in May 2013 had to be cancelled as inputs were still pending. New deadline agreed Inter-Sessional meeting in November 2013.</p> <p>CGMS-42: Based on the WG-I disposition for action 39.21, interference assessments will be conducted in the frame of SFCG and, if necessary, reported to CGMS WG-I. NOAA suggests the action be removed since it is currently being addressed in ITU WG 7B and in the SFCG. No further action by NOAA will be taken at this time.</p>	31/03/2013 <b>New deadline 15 Oct 2013</b>	<b>CLOSED</b>	-
5	<b>CGMS-41 WGI actions</b>							
6	<b>Actionee</b>	<b>Action</b>	<b>#</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
7	CGMS space agencies	WGI/2	41.16	<p>CGMS members (satellite operators) to indicate to ISRO concerns regarding the frequency and operational plans for INSAT 3D, INSAT-3DR and INSAT-future as presented in CGMS-41-ISRO-WP-01. Namely:</p> <ul style="list-style-type: none"> <li>• 402.65-402.85 MHz for INSAT-3D which will be located at 82degE instead of the originally notified 83 degE;</li> <li>• 402.5-402.65 MHz for INSAT-3DR (planned in 2015);</li> <li>• 402.25-402.5 MHz for INSAT-future.</li> </ul>	<p>JMA has already started dialogue with ISRO on the frequency issue and it is now in process (Sep 2013)</p> <p>NOAA: The ISRO bands will not impact or affect the NOAA data collection service operating at 135o W (current) and 137o W (future). The ISRO spacecraft, INSAT-3D, INSAT-3DR and INSAT-future, will not operate in same field-of-view as the current and future NOAA geostationary spacecraft. ISRO's frequency and operating plans for the INSAT satellites will not affect NOAA,s frequency and operating plans for GOES and GOES-R (e-mail by M Perkins on 30 Oct 2013). EUMETSAT confirmed no impact during CGMS 41.</p>	30-Aug-13	<b>CLOSED</b>	-

WGI actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
8	CGMS members	WGI/3.1	41.17	CGMS members to nominate representatives in the Task Team to work on RARS related aspects (before 1st IS meeting (WG-I.IS-2.1 mid October 2013))	To be discussed between EUM and NOAA during the CGMSSEC#2 on 12 Feb 2014.  CGMS-42 WGI/5: The list of representatives for the RARS Task Team (as agreed in CGMS-41) is still not complete. CMA: ? EUM: anders.soerensen@eumetsat.int, joaquin.gonzalez@eumetsat.int NOAA: Marlin.O.Perkins@noaa.gov CGMS-42-ROSH-WP-01: Sergey Uspensky (uspenskys@planet.iitp.ru) CGMS-42-WMO-WP-19	31/08/2013 <b>New deadline 15 Jun 2014</b>	<b>OPEN</b>	HLPP #2.10
9								
10	For actions CGMS-41 Action 41.51, 41.52 and 41.53, please see CGMS-41WGIV actions and recommendations.							
11	These actions were transferred from WGIV to WGI between CGMS-41 and CGMS-42.							

WGII actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H	I
1	<b>WGII actions open from CGMS-40 (at CGMS-41)</b>								
2	<b>Actionee</b>	<b>Action</b>	<b>#</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>	
3	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	No representative from IMD attended CGMS-41 hence will remain open. Will also be discussed at GSICS EP-14 on 15 July 2015 New deadline following discussions at CGMS-42.	(31 Dec 2012) <b>New deadline CGMS-43</b>	<b>OPEN</b>	HLPP#3.1	
4	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. Feb 2014: Ongoing interaction with CEOS, the impact study results might be reported at CEOS plenary Oct 2014. The study is scheduled to run to mid 2015. IROWG-4 is tentatively planned for spring or autumn 2015. See also actions WGIII 41.35 and WGIII 41.37.	(CGMS-41) <b>New deadline CGMS-43</b>	<b>OPEN</b>	HLPP#1.1.4	
5	<b>WGII CGMS-41 actions</b>								
6	<b>Actionee</b>	<b>Action</b>		<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>	
7	CGMS space agencies	WGII/2	41.18	CGMS agencies with direct broadcast to provide access to software for converting satellite data packets to calibrated sensor observations (level 1b), and complete related information on the WMO website ( <a href="http://www.wmo.int/pages/prog/sat/accessandtools_en.php">http://www.wmo.int/pages/prog/sat/accessandtools_en.php</a> ). Deadline: 1 Nov 2013 to identify Point of Contact.	Links to preprocessing software packages available for all polar orbiters operated by CGMS members listed on WMO website, except for Meteor-M. EUMETSAT feedback provided to WMO on 24 apr 2014. ROSH-WP-02: After the commissioning phase of Meteor-M N2 satellite (2014), software for data processing to Level 1B will be tuned and made publically available. ROSH poc: Sergey Uspensky (uspenskys@planet.iitp.ru). WMO: CGMS agencies encouraged to validate information on WMO website, and WMO Expert Team on Satellite Utilization and Products (ET-SUP) will review site at its 8th session in April 2014; suggest closing Action by CGMS-42.  <i>New deadline following discussions at CGMS-42</i>	(1 Nov 2013) <b>New deadline CGMS-43</b>	<b>OPEN</b>	HLPP#2.10	
8	IPWG	WGII/5	41.19	IPWG to collect the details of data access arrangements for all GPM constellation contributions, and to document these on the IPWG website. Deadline: CGMS-42	IPWG website updated in Sep 2013 including relevant data sets on <a href="http://www.isac.cnr.it/~ipwg/data/datasets.html">http://www.isac.cnr.it/~ipwg/data/datasets.html</a> and GPM core observatory information; Action needs closing by IPWG-7 in Nov 2014.  New deadline following discussions at CGMS-42.	(CGMS-42) <b>New deadline IPWG-7 (30 Nov 2014)</b>	<b>OPEN</b>	HLPP #2.3	
9	CNSA	WGII/9	41.20	CNSA is requested to provide a summary paper on how to access HY-2A data for CGMS-42.		CGMS-42	<b>CLOSED</b>	HLPP #2.3	

WGII actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H	I
10	GSICS	WGII/3	41.21	GSICS to take on calibration event monitoring activities following the recent work on calibration event monitoring. Such information should be included in the next update of the WMO OSCAR database.	To be discussed at GSICS Research WG meeting in March 2014. EUMETSAT proposal for a plan including all CGMS agencies discussed at GSICS Research WG meeting in March 2014. Plan includes (i) linkage to WMO/OSCAR database, (ii) conventions, (iii) database harmonisation. Update to be provided as part of overall GSICS WP to CGMS-42. (CGMS-42-EUM-WP-35). Following the discussion at GSICS Research WG meeting in March 2014, JMA will provide URL of MTSAT monthly operations report page ( <a href="http://mscweb.kishou.go.jp/operation/opr_report.htm">http://mscweb.kishou.go.jp/operation/opr_report.htm</a> ) to OSCAR. See CGMS-42-JMA-WP-04	CGMS-42	CLOSED	HLPP #3.1	
11	CGMS space agencies	WGII/3	41.22	CGMS agencies to provide working papers on current and future capabilities for calibration monitoring and event logs – CGMS-42.	CGMS-42-EUM-WP-35 JMA is coordinating the interactions of operational results with the operation company of Himawari-8 and Himawari-9 for future construction of the event-log database. See CGMS-42-JMA-WP-04. CGMS-42-ROSH-WP-02: ROSH will present a WP on its calibration activity at CGMS-42 and GSICS-EX-15.	CGMS-42	CLOSED	HLPP #3.1	
12	KMA	WGII/3	41.23	KMA to provide paper on their contribution to SCOPE-CM to the next CGMS session.	CGMS-42-KMA-WP-03	CGMS-42	CLOSED	HLPP #3.3, 5.1.3	
13	IWWG	WGII/6	41.24	Co-Chairs of IWWG to provide a summary paper and lessons learnt to CGMS-42 from the second AMV derivation inter-comparison project.	IWWG co-chairs confirmed to provide a paper. To be addressed at CGMS-42.	CGMS-42	CLOSED	HLPP #3.3	
14	IWWG	WGII/6	41.25	IWWG co-chairs to i) organise a dedicated session at IWWG-12 on research, operational applications and benefits of high resolution AMVs and ii) to provide a corresponding report to the next CGMS meeting.	High-resolution AMVs will be discussed at IWWG-12, and a paper will be provided to CGMS-43.  New deadline following discussions at CGMS-42.	(CGMS-42) IWW12, 30 June 2014	OPEN	HLPP #3.3	
15	JMA	WGII/8	41.26	JMA to establish an environment to implement multiple algorithms to retrieve quantitative ash cloud parameters from operational satellites. This will serve as a test bed for the intercomparison of retrievals on an operational basis in the framework of SCOPE-Nowcasting. JMA is invited to perform an intercomparison based on historical data and report on this to CGMS-42.	JMA introduced software based on EUMETSAT approach to the testbed, and started validation activities in collaboration with Tokyo VAAC; the NOAA algorithm will also be included. CGMS-WP-JMA-WP-07/ppt: VA retrieval intercomparison activity started and workshop to be organised in the framework of WMO SCOPE-Nowcasting at SSEC, Madison, in week of 20 Oct 2014.  New deadline following discussions at CGMS-42.	(CGMS-42) <b>New deadline IWWG, 30 June 2014</b>	OPEN	HLPP #3.3	



WGII actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H	I
16	CREW	WGII/8	41.27	Co-chairs of CRE WG are invited to draft the terms of reference for a CGMS Working Group on operational cloud parameter retrievals, jointly with the nominated points of contact from CGMS agencies. Due date CGMS-42.	Position paper on CRE WG in preparation, describing terms of reference and planned activities; CMA, JMA, KMA also indicate interest in CRE WG. CGMS-42-EUM-WP-25 ToR further developed; proposed ICWG has broad support from CGMS agencies including NASA, NOAA, EUMETSAT, and also from the WCRP GEWEX project; no response from IMD, ROSHYDROMET	CGMS-42	CLOSED	HLPP #3.3	
17	NOAA	WGII/6	41.28	NOAA to ensure that CIMSS/SSEC AMV reprocessing activity should be embedded into SCOPE-CM AMV project by a communication to the SCOPE-CM Secretariat.	Ongoing. First phase of project finished, validation phase ongoing. More information to be provided at IWWG-12.  <i>New deadline following discussions at CGMS-42.</i>	(30 Dec 2013) <b>New deadline IWW12 (30 Jun 2014)</b>	OPEN	HLPP #5.1.3	
18	NASA/IPWG	WGII/5	41.29	NASA jointly with IPWG to investigate the impact of a potentially degraded global observing system for precipitation over the next decade, and provide a report at CGMS-42 (follow-up to action WGII 40.31).	Needs further investigation with GPM team and IPWG, based on the status of the GPM constellation.	CGMS-42	CLOSED	HLPP #1.1.6	
19	NASA	WGII/9	41.30	NASA is invited to pursue the analyses of optimising the orbits of GCOM-C1 and Sentinel-3A, including trade-offs to be made for different scenarios. Due date CGMS-42	Orbits for GCOM-C1 and Sentinel-3A fixed, any changes unlikely; CEOS SEO to investigate the scientific and technical benefits of optimised orbits, to incentivise future planning. CGMS-42-NASA-WP-02	CGMS-42	CLOSED	HLPP #1.1.6	
20	ROSH/ROSC	WGII/12	41.31	ROSCOSMOS/ROSHYDROMET to verify information on its Meteor-M missions in WMO OSCAR database ( <a href="http://www.wmo.int/oscar">http://www.wmo.int/oscar</a> ). Deadline: 1 Sep 2013	ROSH-WP-02: Information on Meteor-M in WMO OSCAR database is verified. More detailed information on the future Meteor-M missions is presented in WP discussed in Plenary: CGMS-42_ROSH-ROSC_WP_01.	01-Sep-13	CLOSED	-	
21	CGMSSEC	WGII (Plen E.3.2)	41.32	CGMS WGII chairs and rapporteurs to prepare a WP on the rationale for a structured approach to sustained support to the CGMS-sponsored ISWGs. The paper should include a description of ISWG main objectives and accomplishments, a record of past levels of support, and a proposal how to address this item at CGMS sessions. The WP should be circulated among CGMS members for comments prior to CGMS-42.	JMA e-mail feedback 20 Aug 2013: JMA fully understand the importance of funding supports from CGMS members to the ISWG meeting. In the meantime, JMA have a difficulty to provide travel supports for relevant scientists continuously because of a restriction of governmental budget system. Therefore it would be highly appreciated for giving careful consideration among CGMS members to the other possibilities in different approaches, such as hosting ISWG meeting. As a matter of fact, JMA hosted IWWG meeting in Japan in 1993 and 2010, and would be glad to continue our contribution to ISWG in future.  CGMS WGII IS#2 agreed that draft WP be circulated with ISWG co-chairs for comments by 25 April.  CGMS-42-WMO-WP-43	15 Dec 2013 31 Mar 2014 CGMS-42	CLOSED	HLPP #3.3, 4.2.4	
22	<b>CGMS-41 WGII Recommendations</b>								
23	"Actionee"	Rec	#	Description	Action feedback/closing document	Deadline	Status	HLPP ref	

WGII actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H	I
24	NOAA	WGII/2 R	41.03	NOAA to coordinate its new direct readout initiative which focuses on advanced sounder data from POES, METOP, FY3, METEOR-M, Aqua/Terra with the WMO RARS program.	ITSC in March 2014 provides opportunity to coordinate; NOAA-WP-01: There will be a WMO WP that will discuss NOAA coordination with WMO. There is no need for a NOAA paper.	CGMS-42	CLOSED	HLPP #2.10	
25	CNSA	WGII/3 R	41.04	CNSA to participate in GSICS in recognition of their framework to map sensor performance to application requirements.		CGMS-42	CLOSED	HLPP #3.1	
26	CGMS members	WGII/3 R	41.05	CGMS members to consider participation in approved SCOPE-CM phase 2 projects.		CGMS-42	CLOSED	HLPP #3.3	
27	IWWG	WGII/6 R	41.06	The IWWG-12 is requested to discuss progress on spatially enhanced AMV products using combinations of data from polar orbiting satellites (including sounders).	IWWG-WP-01	CGMS-42	CLOSED	HLPP #3.3	
28	NASA	WGII/6 R	41.07	NASA is requested to provide a summary paper to CGMS-42 on Cloud-Motion Winds from MISR. The paper should include the potential of the product for NRT application in NWP and also describe efforts to provide the product for re-analyses.		CGMS-42	CLOSED	HLPP #3.3	
29	NOAA	WGII/6 R	41.08	NOAA is invited to consider sustained support to future reprocessing work on GOES and polar AMVs for the benefit of future reanalyses.	See Action 41.28 NOAA-WP-01: NOAA appreciates the work by UW to reprocess the geostationary winds using their own R&D funds and will wait for their final report including user benefits to help determine next steps. Proposed closure.	CGMS-42	CLOSED	HLPP #3.3	
30	IWWG	WGII/6 R	41.09	The International Wind Working Group (IWWG) to support SCOPE-CM toward the possible development of a unified algorithm for consistent reprocessing of AMVs from geostationary meteorological satellites.		CGMS-42	CLOSED	HLPP #5.1.3	
31	CGMS space agencies	WGII/9 R	41.10	CGMS agencies to assess the GHRSSST data specification (GDS, <a href="https://www.ghrsst.org/files/download.php?m=documents&amp;f=121009233443-GDS20r5.pdf">https://www.ghrsst.org/files/download.php?m=documents&amp;f=121009233443-GDS20r5.pdf</a> ) for applying to SST data, and to report to CGMS-42.	ROSH-WP-02: ROSH assessed proposed GHRSSST data specification and found it useful for SST data validation and provision.	CGMS-42	CLOSED	HLPP #3.4	
32	CGMS space agencies	WGII/9 R	41.11	CGMS agencies to support the ocean colour community by adopting netCDF4/CF for representing ocean colour data; and further support data analysis tools (such as SeaDAS, BEAM and ODESA), and optimise the dissemination of ocean colour datasets for research and operational applications.	ROSH-WP-02: Roshydromet is going to use netCDF4/CF in its future data dissemination activities.	CGMS-42	CLOSED	HLPP #3.4	
33	CGMS space agencies	WGII/6 R	41.12	The International Winds Working Group (IWWG) to support SCOPE-CM toward the possible development of a unified algorithm for consistent reprocessing AMVs from geostationary meteorological satellites.	Duplication with WGII/6 R 41.09.	30 June 2013 CGMS-42	CLOSED	HLPP #5.1.3	

WGIII actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
1	<b>WGIII actions open from CGMS-38 (at CGMS-41)</b>							
2	<b>Actionee</b>	<b>Action</b>	<b>#</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
3	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.	CGMS-41: 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.  CGMS-42: WMO-WP-12 Task is in progress with the establishment of a dedicated task team by the Global Atmospheric Watch programme.	(CGMS-38) <b>New deadline CGMS-43</b>	<b>OPEN</b>	HLPP#1.1.1
4	<b>CGMS-41 WGIII actions</b>							
5	<b>Actionee</b>	<b>Action</b>	<b>#</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
6	WMO	WGIII/2.1	41.33	WMO to circulate an updated mapping of CGMS members' missions to the CGMS baseline for operational/sustained missions, for review by CGMS Members (31 August 2013).	Provided by WMO to CGMSSEC on 9 August 2013. Circulated to CGMS through csr and CGMS-41 participants on 21 August 2013.	31-Aug-13	<b>CLOSED</b>	HLPP #1.1.1
7	CGMS space agencies	WGIII/2.1	41.34	All CGMS Members to provide feedback on the updated mapping of satellite plans with the CGMS baseline (30 September 2013).	Document circulated to csr and CGMS-41 participants on 21 August 2013 CNES: No change is requested JMA: The updated mapping is precise enough and has no need to be revised as to JMA's	30-Sep-13	<b>CLOSED</b>	HLPP #1.1.1
8	IROWG	WGIII/2.2	41.35	IROWG to update its assessment of the planned availability of radio-occultation data taking into account the risks on the funding of the US part of the COSMIC-2 polar constellation, and to report at the IROWG workshop to be held in Graz, Austria on 5-11 September 2013. (September 2013)	The updated assessment is available here: <a href="http://irowg.org/wpcms/wp-content/uploads/2013/12/Status_Global_Observing_System_for_RO.pdf">http://irowg.org/wpcms/wp-content/uploads/2013/12/Status_Global_Observing_System_for_RO.pdf</a> It is supplemented by the following analysis of the critical impact of COSMIC-2: <a href="http://irowg.org/wpcms/wp-content/uploads/2013/12/Critical_Impact_COSMIC-2-FORMOSAT-7_Programme.pdf">http://irowg.org/wpcms/wp-content/uploads/2013/12/Critical_Impact_COSMIC-2-FORMOSAT-7_Programme.pdf</a> (circulated to csr). (reference is also made to action WGII 40.23)	15-Sep-13	<b>CLOSED</b>	HLPP #1.1.4
9	EUM	WGIII/2.2	41.36	EUMETSAT to report on its study on RO constellation optimisation at CGMS-42.	The EUM study is expected to be finished mid 2015. See also action WGII 40.23 Status provided in CGMS-42-EUM-WP-34.	CGMS-42	<b>CLOSED</b>	HLPP #1.1.4

WGIII actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
10	WMO	WGIII/2.2	41.37	WMO to send a letter to the United States (appropriate authority t.b.d.) recalling the demonstrated impact of radio-occultation observations on NWP and their use in climate monitoring and space weather, highlighting the major role expected to be played by the COSMIC-2 programme in the global observing system, and stressing the concerns of the global community about the risks on the funding of the US contribution, which would dramatically affect the implementation of this programme. (Mid October 2013)	WMO letter 8021-13/OBS/SAT/SS was sent to the US ambassador on 27Sep2013 and a copy was circulated to all CGMS Members for information on 30 Oct 2013. It included the following annex prepared by IROWG: <a href="http://irowg.org/wpcms/wp-content/uploads/2013/12/Critical_Impact_COSMIC-2-FORMOSAT-7_Programme.pdf">http://irowg.org/wpcms/wp-content/uploads/2013/12/Critical_Impact_COSMIC-2-FORMOSAT-7_Programme.pdf</a> A reply dated 19 Nov 2013 was received confirming that "NOAA and its interagency partners are coordinating on program planning and investigating options for acquisition of the second six mission payloads and launch services for the second launch." (reference is also made to action WGII 40.23)	15-Oct-13	CLOSED	HLPP #1.1.4
11	EUM	WGIII/2.2	41.38	EUMETSAT to initiate the dialogue with ISRO, ROSHYDROMET, CMA, and other interested partners to investigate a medium-term strategy for ensuring coverage of the Indian Ocean coverage with advanced geostationary imagery. (15 January 2014)	EUMETSAT will report on the matter to CGMS-42 in WGIII EUM-WP-26/ppt CGMS-42-CMA-WP-03 CGMS-42-ROSH-WP-04 ISRO (e-mail 14May2014): A multi-agency action for which mutual agreement for data sharing and sensor information is required for interoperability. Further discussions will emerge on this after having clarity on commitments from each space agencies towards medium range strategy over the Indian Ocean. ISRO to provide further details. Closed following discussions at CGMS-42.	15-Jan-14	CLOSED	HLPP #
12	NOAA	WGIII/2.2	41.39	NOAA to provide update on the study to optimise the GOES-E scanning mode with a view to ensure a sufficient number of South America scans during North America rapid scan periods.	By letter on 5/08/2013, NOAA/NESDIS has informed WMO of a revised scanning schedule which will include two windows covering most of the South American continent every hour. This was further discussed with regional users.	15-Jan-14	CLOSED	HLPP #1.1.6
13	WMO	WGIII/3	41.40	WMO Secretary-General to send a letter to the PR of China to commend CMA on progress made, report on the outcome of CGMS-41 discussions on FY-3 redeployment, and confirm the strong support of the international community on this endeavour.	Completed with WMO letter of 5 March 2014 (ref 8005-14/OBS/SAT/SS-CHINA). Circulated to csr on 7 May 2014.	15-Sep-13	CLOSED	HLPP #1.1.1

WGIII actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
14	NOAA	WGIII/3	41.41	NOAA to provide a report on the benefit of Day-Night imagery (e.g. as experience with SNPP/VIIRS) at CGMS-42 in order to assist CMA in refining its requirements for an imager for the early morning orbit mission.	On 7 Feb 2014, CMA was informed of the overview paper (50 pages) on the Day/Night Band capabilities for meteorological applications: <a href="http://www.mdpi.com/2072-4292/5/12/6717">http://www.mdpi.com/2072-4292/5/12/6717</a> NOAA-WP-08	CGMS-42	<b>CLOSED</b>	HLPP #1.1.1
15	WMO	WGIII/4	41.42	WG III (actionee TBD) to review the categorisation of missions in the CGMS baseline and refine it as appropriate in order to support a high-level mapping with FCDRs.	See also action Plen G.1.1; 41.12. Interactions with ET-SAT is ongoing (Feb 2014) CGMS WGIII rapporteur has presented a report to JWG on climate and WMO-WP-08 will be discussed at CGMS-42.  CGMS-42-WMO-WP08: In progress with the contribution provided in the paper.	(15 Dec 2013) <b>new deadline</b> <b>CGMS-43</b>	<b>OPEN</b>	HLPP #5.1.2
16	WGIII members	WGIII/4	41.43	WG III (actionee TBD) to define a first list of FCDRs that CGMS Members can commit to provide on a sustained basis as a contribution to the architecture for climate monitoring from space, building on the CGMS baseline, and to communicate this contribution to the future CEOS-CGMS working group on climate.	See also action Plen G.1.1; 41.12 Interactions with ET-SAT is ongoing (Feb 2014) The CGMS WG III Rapporteur, with input from ET-SAT, presented a report on this matter to the joint WGC. See WMO-WP-08.	15-Feb-14	<b>CLOSED</b>	HLPP #5.1.6
17	NOAA	WGIII/4	41.44	NOAA to report at CGMS-42 on its activities towards transitioning mature R&D missions to an operational status.	CGMS-42-NOAA-WP-28. Discussed at CGMS-42 in WGIII.	CGMS-42	<b>CLOSED</b>	HLPP #1.1.3
18	CGMS members	WGIII/6	41.45	CGMS members to nominate participants in the Tiger Team on socio-economic benefits of space missions.	ESA: Ersilia.Vaudo@esa.int EUM: Paul.counet@eumetsat.int JMA: Yasushi Izumikawa (Mr) (satellite@ml.kishou.go.jp) NOAA: Charles.Woodridge@noaa.gov WMO: Stephan Bojinski (sbojinski@wmo.int)	15-Sep-13	<b>CLOSED</b>	HLPP #4.1.1
19	NOAA	WGIII/6	41.46	NOAA, as the initiator of the Tiger Team on socio-economic benefits, to request inputs from all CGMS members on available socio-economic benefit studies and case studies in order to allow the Tiger Team to compile the existing information as soon as members are nominated.	Meeting mid Dec '13 NOAA-WP-19/ppt	15-Sep-13	<b>CLOSED</b>	HLPP #4.1.1
20	NOAA/CMA/WMO	WGIII/6	41.47	WGIII co-chairs to plan addressing the Tiger Team on Socio-economic Benefits actions at the first WG III intersession meeting.	Addressed at WGIII intersessional meeting on 13 Nov 2013. NOAA-WP-??/ppt?	09-Oct-13	<b>CLOSED</b>	HLPP #4.1.1

WGIII actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
21	WGIII	WGIII (Plen E.3.1.3)	41.48	WGIII to investigate the long-term planning of space based observation for global precipitation measurements and liaise as appropriate with the CEOS Precipitation Constellation	Discussed at CGMS-42: Regarding the long term planning of active precipitation measurement, will be postponed to 2015 in order to best take into account the progress of GPM-Core and CMA's plans for FY-3RM.	(CGMS-41) <b>New deadline CGMS-43</b>	<b>OPEN</b>	HLPP #1.1.3
22	<b>CGMS-41 WGIII recommendations</b>							
23	<b>"Actionee"</b>	<b>Rec</b>	<b>#</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
24	CGMS satellite operators	WGIII/2.1 R	41.13	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.	Ref CGMS-40 WGIII R 40.35. 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. Discussed at CGMS-41 WGIII.  Following CGMS-42 discussions: Recommendation to be updated in the light of the discussion of item CGMS-42 WGIII/2.2.	CGMS-42	<b>CLOSED</b>	HLPP#1.1
25	CGMS satellite operators	WGIII/2.1 R	41.14	CGMS Satellite Operators to address the anticipated or potential gaps identified in the WMO Gap Analysis, in particular: <ul style="list-style-type: none"> <li>• infrared and microwave sounding on the early morning orbit,</li> <li>• hyperspectral sounding missing in some geostationary sectors,</li> <li>• long-term follow-on of radio-occultation constellation,</li> <li>• global precipitation measurement precipitation radar follow-on mission,</li> <li>• long-term Earth Radiation Budget monitoring</li> <li>• limb sounding for high-vertical resolution observations in the stratosphere and mesosphere (of temperature, humidity, wind, aerosol, ozone and other trace gases).</li> </ul>	Ref CGMS-41 WGIII R 40.36. Ongoing. Discussed in CGMS-41 WGIII.  ROSH-WP-02: In order to fill the gaps in Hyperspectral sounding and Long-term Earth Radiation Budget monitoring over the Indian Ocean Roshydromet plans to install the appropriate instruments onboard future Electro-M geostationary satellites.  CGMS-42: The recommendation was updated in the light of CGMS-42 WGIII /2.2 deliberations.	CGMS-42	<b>OPEN</b>	HLPP#1.1
26	CGMS members	WGIII/2.1 R	41.15	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.	Ref CGMS-40 WGIII R 40.37. Ongoing. CGMS-41 ROSH/ROSC-WP-05 (all programmes are now included) CGMS-42 ROSH/ROSC-WP-01: The updated information on Roshydromet/Roscosmos satellite programmes is presented in WP discussed in Plenary	CGMS-42	<b>CLOSED</b>	HLPP#1.1

WGIII actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
27	CGMS members	WGIII/3 R	41.16	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.	Ref CGMS-40 WGIII R 40.38. Ongoing. Tiger team activities are progressing well (3 April 2013) CGMS-41 WMO-WP-13. CGMS-42 discussions: Closed, given the very good response received through the Early Morning Tiger Team	CGMS-42	<b>CLOSED</b>	HLPP#1.1
28	CGMS members	WGIII/3 R	41.17	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.	Ref CGMS-40 WGIII R 40.39. Ongoing. NOAA: Mitch.Goldberg@noaa.gov, Lars.Riishojgaard@noaa.gov (Letter to WMO 7 Feb 2013). Tiger team activities are progressing well (3 April 2013) CGMS-41 WMO-WP-13 CGMS-42 discussions: Closed, given the very good response received through the Early Morning Tiger Team	CGMS-42	<b>CLOSED</b>	HLPP#1.1
29	CGMS members	WGIII/4 R	41.18	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.	Ref CGMS-40 WGIII R 40.40. Ongoing. CGMS-41 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. Adressed at CGMS-41 WGIII/4 Action 41.12 passed to on CEOS/CGMS JWG on climate hence recommendation closed. This recommendation has led to WGIII actions 41.42 and WGIII 41.43. CGMS-42: This has become an item in the HLPP and is therefore closed here.	CGMS-42	<b>CLOSED</b>	HLPP#5.1

WGIV actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
1	<b>WGIV Actions open from CGMS-39 and -40 (at CGMS-41)</b>							
2	<b>Actionee</b>	<b>Action</b>	<b>#</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
3	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-41 WGIV commented that a more standardised solution is needed. Further discussion could take place at the EUMETSAT-WCRP Symposium on climate research and Earth observation from space planned for October 2014 if not completed earlier.	(CGMS-40) <b>New deadline 30 October 2014</b>	<b>OPEN</b>	HLPP#5.1.7
4	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.	EUMETSAT has updated the standard and reported that it will implement the new standard starting with the next generation of GEO satellites MTG.  JMA has recently made up a new document for the format of "Himawari standard data" and it adopts WGS84 for the reference of geodetic parameters. The document has been available on the JMA/MSC Web site since 30 October 2013. <a href="https://mscweb.kishou.go.jp/himawari89/space_segment/hsd_sample/HS_D_users_guide_en.pdf">https://mscweb.kishou.go.jp/himawari89/space_segment/hsd_sample/HS_D_users_guide_en.pdf</a>  IMD is using WGS84 for Insat 3D as documented in the product guide "INSAT/DP/SAC/SIPA/DPSG/TN-02/Ver 1.3/Mar 10" (provided by IMD).  Other CGMS members (CMA, NOAA, KMA) to report on the implementation.  CGMS-42-ROSH-WP-02: Still open.	(CGMS-41, 42) <b>New deadline CGMS-43</b>	<b>OPEN</b>	HLPP #3.2



WGIV actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
5	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-42 ROSH-WP-02: A new Meteor-M satellite is to be launched in summer 2014. After the commissioning phase Roshydromet will review the technical modalities for the near-real time provision of Meteor-M data and associated ancillary information based on instrument operational functionality.	(CGMS-41, 42) <b>New deadline CGMS-43</b>	<b>OPEN</b>	HLPP#2.8

WGIV actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
6	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.	<p>CGMS-41 WGIV discussions: To be confirmed in the inter-sessional meeting planned in Sep 2013</p> <p>CMA: Dongfeng LUO, luodf@cma.gov.cn  EUM: guillaume.aubert@eumetsat.int, michael.schick@eumetsat.int  IMD: Virendra Singh vsvsingh69@gmail.com  JMA: Yoshito Yoshizaki (Mr), (satellite@ml.kishou.go.jp)  KMA/NMSC: Mr. Byung-II LEE  bilee01@korea.kr  NOAA: John.Kocrmor@noaa.gov, Anna.Milan@noaa.gov  ROSH: Zoya Andreeva arkweid@yandex.ru  WMO: biron@meteoam.int, mikael@rattenborg.de</p> <p>The Terms of Reference for this activity is completed. Experts have been proposed by CMA, EUMETSAT, JMA, NOAA, WMO. The group has not yet met. The selection of a chairperson is outstanding.</p> <p>EUMETSAT proposed following approach to speed up the activity: Additional metadata TT members and a proposal for the TT chair should be identified before CGMS-42 and confirmed by WG IV. The CGMS secretariat to address this topic to all CGMS members.</p> <p>EUMETSAT will present a viewgraph in WG-IV. The results of the discussion can be elevated to plenary and part of the WG-IV report, if needed. CGMS-42-EUM-WP-32.  Closed during CGMS-42: Co-chairs were elected by CGMS-42 WGIV: Virendra Singh and Guillaume Aubert</p>	(CGMS-41) <b>New deadline 30 Sept 2013</b>	<b>CLOSED</b>	HLPP#2.12

WGIV actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
7	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 has been prepared in CGMS-41 EUM-WP-03, and has been agreed by WG-IV in CGMS-41, pending update of task 3 to "3. To improve the user search experience regarding satellite data products on WMO WIS catalogues, based on user feedback."  The update of this document will be done by EUMETSAT as soon as possible, before CGMS-42. Closed following discussions and with CGMS-42-EUMETSAT-WP-32.	(31/12/2012) <b>New deadline 15 Aug 2013</b>	<b>CLOSED</b>	HLPP#2.12
8	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 (Oct 2013).	KMA and JMA are planning a meeting of the RA II WIGOS Project Coordination Group (the equivalent of the RA V Task Team in RA II) in 2015. CGMS-42 discussions: Closed. Workshop took place in October 2013 with support by CGMS members.	30-Sep-13	<b>CLOSED</b>	HLPP#2.1
9	<b>CGMS-41 WGIV actions</b>							
10	<b>Actionee</b>	<b>Action</b>	<b>#</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
11	EUMETSAT	WGIV/2	41.49	EUMETSAT to present the MTG dissemination baseline for RA-I (Africa).	CGMS-42: Definition is in progress but too premature to report upon.	(CGMS-42) <b>new deadline CGMS-43</b>	<b>OPEN</b>	HLPP#5.3
12	JMA	WGIV/2	41.50	JMA to provide details of the telecommunication satellite used for DVB rebroadcast, to be included in the WMO space program report to Regional Association V session before mid March 2014, even if it is preliminary or planning information.	JMA's expert, Mr. Tanaka attended WMO RA V session and provided presentation about the details of JMA's dissemination plan in April 2014.	15-Mar-14	<b>CLOSED</b>	HLPP#5.3

WGIV actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
13	CGMS members	WGIV/5.2	41.51 (part a)	CGMS members to share information for HRIT/LRIT mission specific implementation for both direct broadcast and rebroadcast data for next generation GEO satellites	<p>For current HRIT/LRIT dissemination, JMA has the document, JMA HRIT/LRIT mission specific implementation, and they are available on the following addresses;</p> <p><a href="http://mscweb.kishou.go.jp/operation/type/HRIT/JMA_HRIT_Issue1.2.pdf">http://mscweb.kishou.go.jp/operation/type/HRIT/JMA_HRIT_Issue1.2.pdf</a></p> <p><a href="http://mscweb.kishou.go.jp/operation/type/LRIT/JMA_LRIT_Issue7.pdf">http://mscweb.kishou.go.jp/operation/type/LRIT/JMA_LRIT_Issue7.pdf</a></p> <p>These documents specify all of current JMA's HRIT/LRIT services.</p> <p>JMA plans to provide Himawari-8/9 imagery by 2 routes (via the Internet and via a communication satellite). Via the Internet, JMA will distribute the finest spatial resolution data in Himawari Standard Format.</p> <p>Himawari Standard Format (Data)'s specification is available on the following address:</p> <p><a href="http://mscweb.kishou.go.jp/himawari89/space_segment/hsd_sample/HS_D_users_guide_en.pdf">http://mscweb.kishou.go.jp/himawari89/space_segment/hsd_sample/HS_D_users_guide_en.pdf</a></p> <p>Via a communication satellite, JMA will disseminate so-called "HRIT files" using DVB-S2. "HRIT files" means the files to be produced according to the Section 4. "PRESENTATION LAYER" and the Appendix A "FILE FORMAT of IMAGE DATA" of the above-mentioned "JMA HRIT Mission Specific Implementation". HRIT files is the data format removing the transport definition and extracting the data-format definition from the JMA HRIT specification.</p>	CGMS-42	<b>CLOSED</b>	HLPP#5.3

WGIV actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
14	CGMS members	WGIV/5.2	41.51 (part b)		<p>You can download the sample HRIT files from the following address.</p> <p><a href="http://mscweb.kishou.go.jp/himawari89/space_segment/spsg_sample.html">http://mscweb.kishou.go.jp/himawari89/space_segment/spsg_sample.html</a></p> <p>EUMETSAT will respond to these actions as part of CGMS-42 WPs</p> <p>It was agreed that WG-IV needs to discuss if and what updates are needed in the HRIT/LRIT global specification.</p> <p>Responses in CGMS-42-NOAA-WP-01/-29; CGMS-42-ROSH-WP-02: Current HRIT/LRIT mission specific implementation document for Electro-L N1 satellite is published at SRC Planeta WEB site:  <a href="http://planet.iitp.ru/english/spacecraft/electro-l_hrit_lrit_eng_v1_0.pdf">http://planet.iitp.ru/english/spacecraft/electro-l_hrit_lrit_eng_v1_0.pdf</a>. Mission specific implementation document for the next generation GEO satellites should be published after imaging instrument specifications refinement. There will be one data format for both direct broadcast and rebroadcast data transmission.</p>		<b>CLOSED</b>	

WGIV actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
15	CGMS members	WGIV/5.2	41.52	CGMS members to assess compatibility of the HRIT/LRIT global specification with the next generation GEO satellite broadcast	<p>See feedback to action WGIV 41.51 ROSH-WP-02: Still open. NOAA-WP-01: NOAA is currently evaluating the compatibility of the HRIT/LRIT global specifications for the GOES-R HRIT/EMWIN service. NOAA plans to conform to the CGMS agreed upon global specifications.</p> <p>CGMS-42 discussions: NOAA see response in CGMS-42-NOAA-WP-01</p> <p>The discussions during WG-I confirmed the need of assessing the suitability of CGMS Global Specification 03 (HRIT/LRIT global specifications) for the newer generation of satellites (specially with more performant or even additional instruments not considered in the original version of the Global specification). under conceptualization for the new instruments. Dedicated action is being raised in WG-I for addressing the issue and is documented within the CGMS-42 WG-I report.</p>	CGMS-42	<b>CLOSED</b>	HLPP#5.3
16	CGMS members	WGIV/6	41.53	WGIV to support WGI in the Task Team to work on RARS related aspects.	<p>Discussed at IS in December 2013, and split of work identified and confirmed. WGI and WGIV agenda have been updated accordingly.</p> <p>The assignment of cross-WG topics between WG-I and WGIV was consolidated in the joint inter-sessional meeting in December 2013. RARS in general will be handled by WG-I, only the dissemination aspects will be discussed in WG-IV (as part of the existing dissemination methods). This is reflected in the agenda for CGMS-42.</p>	15 Oct 2013	<b>CLOSED</b>	HLPP#2.10
17	NOAA and WMO	WGIV/6	41.54	NOAA and WMO to discuss the relation of the Direct Broadcast Data Initiative (see NOAA-WP-13) to RARS, and how RARS can take advantage of this initiative	CGMS-42-NOAA-WP-01 NOAA and EUMETSAT plans to jointly report to CGMS-42 to be covered in WGI discussions. WMO, NOAA and EUMETSAT have discussed at ITSC-19. See CGMS-42-WMO-WP-19.	CGMS-42	<b>CLOSED</b>	HLPP#2.10
18	WMO	WGIV/8	41.55	WMO to distribute the GEO LTDP guidelines by the Group on Earth Observations	Distributed via e-mail to WG-IV on 10-July 2013	15 Sep 2013	<b>CLOSED</b>	HLPP#5.1.8

WGIV actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
19	CGMS members	WGIV/8	41.56	Each CGMS member to review the GEO version of the Long Term Data Preservation Guidelines (GEO LTDP) and provide feedback on the applicability of each single guideline to its own organization by creating a compatibility table for the organisation	CGMS-42-ROSH-WP-02: Still open CGMS-42-NOAA-WP-01: In general, NOAA is compliant with the GEO Long Term Preservation Guidelines (GEO LTDP) since these guidelines are based upon the Reference Model for an Open Archival Information System (OAIS-ISO 14721) and Producer Archive Interface Methodology Abstract Standard (PIAMAS-ISO 20652). Please see WP for full feedback.	(CGMS-42) <b>new deadline CGMS-43</b>	<b>OPEN</b>	HLPP#5.1.8
20	WMO	WGIV/8	41.57	WMO to provide feedback from CCL (Commission for Climatology) regarding the GEO LTDP.		(CGMS-42) new deadline CGMS-43	<b>OPEN</b>	HLPP#5.1.8
21	CGMS members	WGIV/9	41.58	CGMS members to provide feedback on the improved concept of the WMO Product Access Guide, in particular on the feasibility with respect to their organization's product catalogues	CGMS-42-ROSH-WP-02: Still open CGMS-42-NOAA-WP-01  other CGMS members to provide feedback	(CGMS-42) new deadline CGMS-43	<b>OPEN</b>	HLPP#5.3
22	CGMSSEC	WGIV (Plen E.2.2)	41.59	CGMSSEC to add a new standing agenda item for Working Group IV "Response to region-based requirements for satellite data access and exchange"	Added to the CGMS-42 WGIV agenda.	31-Mar-14	<b>CLOSED</b>	HLPP#2.1
23	<b>CGMS-41 WGIV Recommendations</b>							
24	<b>"Actionee"</b>	<b>Rec</b>	<b>#</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>
25	CGMS members	WGIV/5.2 R	41.19	CGMS members are encouraged to seek (as much as possible) convergence in the Mission Specific Implementation of the HRIT/LRIT data for the next generation GEO satellites	This topic needs to be discussed in WG-IV, see above under action 41.52  NOAA-WP-01: NOAA plans to keep CGMS members informed on its undertakings for the Mission Specific Implementation of the HRIT/EMWIN data on the GOES-R series of satellites (see answer to action 41.51 for all other organisations).  CGMS-42 related working papers: CGMS-42-NOAA-WP-01, CGMS-42-NOAA-WP-29, CGMS-42-ROSH-WP-02, CGMS-42-JMA-WP-09, CGMS-42-KMA-WP-01	CGMS-42	<b>CLOSED</b>	HLPP#2

WGIV actions and recommendations resulting from CGMS-41 (v1H)

	A	B	C	D	E	F	G	H
26	NOAA	WGIV/2 R	41.20	NOAA to consider the provision of an LRIT like subset of GOES-R or GOES-S data over GNC-A, at least on a transition basis to support operational users in RA III and RA IV having limited technical infrastructure	CGMS-42 related WPs CGMS-42-NOAA-WP-01: NOAA will assess the possibilities for including a subset of the GOS-R/S in GNC-A. NOAA must consider the best options or the data format verse the data content. CGMS members and the WMO Space Programme will be kept abreast of any considerations for including GOES-R/S data in GNC-A broadcast. and CGMS-42-NOAA-WP-20	CGMS-42	<b>CLOSED</b>	HLPP#2
27	CGMS members	WGIV/9 R	41.21	CGMS members to support the Coordination Group on Satellite Data Requirements for WMO RA III and RA IV in advancing its proposed work plan, as appropriate	CGMS-42 Related working papers: CGMS-42-NOAA-WP-01, CGMS-42-WMO-WP-09	CGMS-42	<b>CLOSED</b>	HLPP#2



CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I
1	<b>Actions open from CGMS-38 and -39 (at CGMS-40)</b>								
2	<b>Actionee</b>	<b>Action #</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>		
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-41	CLOSED	HLPP#3	
4	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. Feb 2014: Ongoing interaction with CEOS, the impact study results might be reported at CEOS plenary Oct 2014. The study is scheduled to run to mid 2015. IROWG-4 is tentatively planned for spring or autumn 2015.	(CGMS-41) New deadline CGMS-42/-43	OPEN	HLPP#1.1.4	No EUM WP expected now. Verbal reporting by H/RSP instead.
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 (during CGMS-40) for specific follow up Inter-Sessional e-meeting had to be postponed to a new Inter-Sessional (IS-1) meeting of WG-I in May 2013 as key inputs were missing on some of the WG-I participants. Second IS meeting in May 2013 had to be cancelled as inputs were still pending. New deadline agreed Inter-Sessional meeting in November 2013. CGMS-41-CMA-WP-03	(CGMS-40) New deadline: 15 Oct 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. The tool can be used for optimising mission planning as demonstrated in NASA-WP-02. Will also be discussed in the GSICS EP on 15 July 2013.	(CGMS-40) New deadline: CGMS-41	CLOSED	HLPP#3	

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I
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) <b>New deadline: CGMS-42</b>	<b>CLOSED</b>	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) <b>New deadline CGMS-41</b>	<b>CLOSED</b>	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) <b>New deadline: CGMS-41</b>	<b>CLOSED</b>	HLPP#2	
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-41 WMO-WP-05	(CGMS-40) <b>New deadline CGMS-41</b>	<b>CLOSED</b>	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-41 WGIV commented that a more standardised solution is needed. Further discussion could take place at the EUMETSAT-WCRP Symposium on climate research and Earth observation from space planned for October 2014 if not completed earlier	(CGMS-40) <b>New deadline 30 October 2014</b>	<b>OPEN</b>	HLPP#5.1	

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I
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: <a href="http://www.wmo.int/pages/prog/sat/product-access-guide_en.php">http://www.wmo.int/pages/prog/sat/product-access-guide_en.php</a> The concept is being refined, will be discussed at ET-SUP in May 2013 and reported at CGMS-41. CGMS-41 WMO-WP-06	(CGMS-40) <b>New deadline CGMS-41</b>	<b>CLOSED</b>	HLPP#4.1	
13									
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15									
16									
17	<b>CGMS-40 actions</b>								
18	<b>PLENARY</b>								
19	<b>Actionee</b>	<b>Action</b>		<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>	
20	IOC	Plen II.5	40.01	IOC to provide a paper on guidance to CGMS members on sea surface topography. Deadline: CGMS-41	CGMS-41 IOC-WP-01. To be discussed in plenary at CGMS-41.	CGMS-41	<b>CLOSED</b>	HLPP#3	
21	WMO	Plen IV.1	40.02	WMO Secretary General to send a letter to CMA inviting them to consider redeploing 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. This was followed by a Tiger Team seminar in Beijing, and an important statement by the PR of China at the WMO Executive Council in May 2013.	30-Nov-12	<b>CLOSED</b>	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 seven NWP centres in Europe, Asia and the United States. Tiger Team seminar held on 25-26 April 2013 in Beijing. Outcome sent to csr on 8May2013. Reported in CGMS-41 WMO-WP-13	31-Dec-12	<b>CLOSED</b>	HLPP#1	
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 Wooldridge, 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 WGIII: The Terms of Reference of this team were agreed by WG III as reported under CGMS-41 WGIII/6	CGMS-41	<b>CLOSED</b>	HLPP#4.1	
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	<b>CLOSED</b>	HLPP#5.1	

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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)	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. It also contributes to Action 40.23 "CGMS to convene through the IROWG an ad-hoc meeting on the global GNSS-RO constellation, inviting all interested CEOS agencies".	(CGMS-41) <b>New deadline CGMS-43</b>	<b>OPEN</b>	HLPP#1.1	
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. Discussed in CGMS-41 plenary agenda item on climate. The ToR of the CEOS/CGMS joint climate WG were endorsed.	CGMS-41	<b>CLOSED</b>	HLPP#5.1	
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	Closed following CGMS-41 plenary discussions. (To be taken up at bilateral level)	CGMS-41	<b>CLOSED</b>	HLPP#4.2	
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.	Discussed in CGMS-41 plenary. The project is established and work ongoing.	CGMS-41	<b>CLOSED</b>	HLPP#4.2	
29	<b>WGI - telecommunications</b>							<b>HLPP ref</b>	
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). Closed at CGMS-41 WGI.	31-Dec-12	<b>CLOSED</b>	HLPP#2.0	
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. Agreed to copy final version of the ToR to all CGMS members (via CGMS Secretariat).	31-Dec-12	<b>CLOSED</b>	HLPP#2.0	
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).	New deadline proposed end Q1 2013 (during CGMS-40) for specific follow up Inter-Sessional e-meeting had to be postponed to a new Inter-Sessional (IS-1) meeting of WG-I in May 2013 as key inputs were missing on some of the WG-I participants. Second IS meeting in May 2013 had to be cancelled as inputs were still pending. New deadline agreed Inter-Sessional meeting in November 2013. CGMS-41-CMA-WP-03	31/03/2013 <b>New deadline 15 Oct 2013</b>	<b>OPEN</b>	HLPP#1.3	

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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).	WG-I Inter-sessional meeting at end March 2013 confirmed support from all CGMS members to the proposed modification to CGMS-04. Discussion during the CGMS-41 meeting also confirmed the unanimous agreement in WG-I to the proposed update. To be reported to plenary for applying the necessary change control mechanism to the update to the corresponding CGMS global spec.	31-Mar-13	CLOSED	HLPP#1.3	
34	<b>WGII - data and products</b>							<b>HLPP ref</b>	
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	
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, EUM-WP-06. This will be followed up at GSICS EP 15 July 2013 as well as a CGMS-41 follow-up action.	CGMS-41	CLOSED	HLPP#3	
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	CLOSED	HLPP#3	
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). Addressed in NASA-WP-02.	CGMS-41	CLOSED	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	No representative from IMD attended CGMS-41 hence will remain open. Will also be discussed at GSICS EP-14 on 15 July 2015	(31 Dec 2012) <b>New deadline CGMS-42</b>	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 on ROSH-WP-02 and GSICS-EP meeting.	31 Dec 2012; CGMS-41	CLOSED	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	

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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. A dedicated agenda item is planned for the future CGMS plenary sessions.	CGMS-41	<b>CLOSED</b>	HLPP#4.3	
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), CMA-WP-06, JMA-WP-05, KMA-WP-05	CGMS-41	<b>CLOSED</b>	HLPP#3	
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. It also contributes to Action 40.23 "CGMS to convene through the IROWG an ad-hoc meeting on the global GNSS-RO constellation, inviting all interested CEOS agencies".	(CGMS-41) <b>New deadline CGMS-42/-43</b>	<b>OPEN</b>	HLPP#1.1	
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#3	

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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) CMA: Xiang Fang (CMA), Member of WMO ET-SUP, informally confirmed as focal point (Apr '13) NOAA: MikePavolonis, NOAA/NESDIS	15-Dec-12	CLOSED	HLPP#3	
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	
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. Also addressed in plenary session E.3.1 through a presentation by IPWG	CGMS-41	CLOSED	HLPP#3	
53	<b>WGIII - contingency &amp; continuity</b>							HLPP ref	



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	A	B	C	D	E	F	G	H	I
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. CGMS-41 WGIII: NOAA-WP-20 reports that GOES-12 will have to be decommissioned in August 2013. A new action to review the GOES-East scanning schedule was agreed as reported under CGMS-41 WGIII/2.2.	15-Apr-13	CLOSED	HLPP#1.1	
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). CGMS-41 EUMETSAT-WP-15	CGMS-41	CLOSED	HLPP#1.1	
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). Closed following CGMS-41 WGIII discussions and with the replacement of two new actions.	05-Dec-12	CLOSED	HLPP#1.1	
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 WGIII: The context has changed and the action as it stands is no longer relevant and the action is therefore closed.	CGMS-41	CLOSED	HLPP#1.1	
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 WGIII discussions: Action directed to the ad-hoc meeting on space weather. The action is therefore closed in WGIII.	CGMS-41	CLOSED	HLPP#5.2	
59	<b>WGIV - global data dissemination</b>							<b>HLPP ref</b>	



CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I
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.	EUMETSAT has updated the standard and reported that it will implement the new standard starting with the next generation of satellites (closed for EUM). Other agencies are asked to report back.	(CGMS-41) <b>New deadline CGMS-42</b>	<b>OPEN</b>	HLPP#2	
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) <b>New deadline 15 Dec 2013</b>	<b>OPEN</b>	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.	Discussed in CGMS-41 WGIV. This action is complementary to action 40.13 of WGI. It was adopted in WGI and WGIV fully supports this decision.	<b>31 Mar 2013; CGMS-41 ??</b>	<b>CLOSED</b>	HLPP#2	
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 NOAA-WP-26	CGMS-41	<b>CLOSED</b>	HLPP#2	
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 WGIV discussions: To be confirmed in the inter-sessional meeting planned in Sep 2013	(CGMS-41) <b>New deadline 30 Sept 2013</b>	<b>OPEN</b>	HLPP#2	
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. Closed with CGMS-41 EUM-WP-03, pending update of task 3 as in the WFG report Feb 2015: KMA poc changed to Sungchul Jung(jsck@korea.kr)	(31/12/2012) <b>New deadline 15 Aug 2013</b>	<b>OPEN</b>	HLPP#2	

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	A	B	C	D	E	F	G	H	I
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	<b>CLOSED</b>	HLPP#2	
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	<b>OPEN</b>	HLPP#2	
68	<b>CGMS-40 Recommendations</b>								
69	<b>PLENARY</b>								
70	<b>"Actionee"</b>	<b>Rec</b>	<b>#</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	<b>HLPP ref</b>	
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	<b>CLOSED</b>	HLPP#4.2	
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	<b>CLOSED</b>	HLPP#4.2	
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	<b>CLOSED</b>	HLPP#4.2	
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	<b>CLOSED</b>	HLPP#4.2	
75	CGMS members [Vlab]	Plen R	40.05	CGMS agencies to support widening of VLab scope (marine, land applications, agricultural meteorology).		CGMS-41	<b>CLOSED</b>	HLPP#4.2	
76	<b>WGI - telecommunications</b>							<b>HLPP ref</b>	

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I
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	<b>CLOSED</b>	HLPP#2	
78	CGMS members	WGI 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	<b>CLOSED</b>	HLPP#1.2	
79	<b>WGII - data and products</b>							<b>HLPP ref</b>	
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	<b>CLOSED</b>	HLPP#4.1	
81	EUM	WGII R	40.09	EUMETSAT to continue to provide secretariat support to the SCOPE-CM initiative.		CGMS-41	<b>CLOSED</b>	HLPP#5.1	
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	<b>CLOSED</b>	HLPP#3	
83	CGMS members [GSCIS]	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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#1.1	

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I
87	CGMS members	WGII R	40.15	CGMS members to conduct studies to trade off benefits of spectral, radiometric, and spatial resolutions of infra-red 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	<b>CLOSED</b>	HLPP#1.1	
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#5.1	
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	<b>CLOSED</b>	HLPP#2	
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	<b>CLOSED</b>	HLPP#2	

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#5.1	
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#3	
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 (GHRSSST), which was described in CGMS-39 IOC-WP-01.		CGMS-41	<b>CLOSED</b>	HLPP#3	

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#3	
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	<b>CLOSED</b>	HLPP#4.2	
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	<b>CLOSED</b>	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	<b>CLOSED</b>	HLPP#?	
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.	Adressed in the ad-hoc space weather meeting on 10 July 2013	CGMS-41	<b>CLOSED</b>	HLPP#5.2	
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	<b>CLOSED</b>		
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	<b>CLOSED</b>		
109	<b>WGIII - contingency &amp; continuity</b>							<b>HLPP ref</b>	

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I
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 WGIII discussions. This activity is ongoing and will be closed here and raised anew.	CGMS-41	<b>CLOSED</b>	HLPP#5.1	
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"> <li>• infrared and microwave sounding on the early morning orbit,</li> <li>• hyperspectral sounding missing in some geostationary sectors,</li> <li>• long-term follow-on of radio-occultation constellation,</li> <li>• global precipitation measurement precipitation radar follow-on mission,</li> <li>• long-term Earth Radiation Budget monitoring</li> <li>• limb sounding for high-vertical resolution observations in the stratosphere and mesosphere (of temperature, humidity, wind, aerosol, ozone and other trace gases).</li> </ul>	Ongoing. Discussed in CGMS-41 WGIII.	CGMS-41	<b>CLOSED</b>	HLPP#1.1	
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	<b>CLOSED</b>	HLPP#4.1	
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	<b>CLOSED</b>	HLPP#1.1	
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	<b>CLOSED</b>	HLPP#1.1	

CGMS-40 actions and recommendations

	A	B	C	D	E	F	G	H	I
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	<b>CLOSED</b>	HLPP#5.1	
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	<b>CLOSED</b>	HLPP#1.1	
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	<b>CLOSED</b>	HLPP#1.1	
118	CGMSSEC	WGIII R	40.43	CGMS Secretariat to review the organisation of space weather matters in the agenda of CGMS meetings.	A dedicated agenda item at CGMS-41 has been included.	CGMS-41	<b>CLOSED</b>	HLPP#5.2	
119	<b>WGIV - global data dissemination</b>							<b>HLPP ref</b>	
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	<b>CLOSED</b>	HLPP#4.2	
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	<b>CLOSED</b>	HLPP#2	
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	<b>CLOSED</b>	HLPP#2	



	A	B	C	D	E	F
1	<b>Actions open from CGMS-37 and CGMS-38 (at CGMS-39)</b>					
2	<b>Actionee</b>	<b>Action</b>	<b>Description</b>	<b>Action feedback/closing docum</b>	<b>Deadline</b>	<b>Status</b>
3	WMO	37.14	Action 37.14: WMO to continue dialogue with ISRO regarding the establishment of an Indian CoE and the co-sponsoring of the CoE in Oman. Deadline: CGMS-39	CGMS-39 WMO-WP-14; CGMS-39 NOAA-WP-13 IMD sent letter of interest on Vlab to WMO in Jan 2012; WMO responded with detailed instructions on application procedure; dialogue continues; Action closed. New action proposed: WMO, CGMS and IMD to conclude accession of IMD in VLab; deadline CGMS-42. Closed following discussions in WGII at CGMS-40.	(CGMS-38) New Deadline: CGMS-40	CLOSED
4	<b>CGMS-41 WGIII actions</b>					
5	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	(CGMS-38) New deadline CGMS-42	OPEN
6	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;	(CGMS-38) New deadline CGMS-41	OPEN
7	WMO	WGIII 38.42	Action 38.42: WMO to take into account the revised CGMS baseline for the space-based component of the GOS in the updating process of relevant WMO Manuals and Guides, with a view of its endorsement by CBS-XV in September 2012.	An update of the manual on the GOS was reviewed by ET-SAT submitted to and approved by CBS-XV	(CGMS-39) New deadline: Sept 2012	CLOSED
8						
9	<b>CGMS-39 permanent actions</b>					
10	<b>Actionee</b>	<b>Action</b>	<b>Description</b>	<b>Action feedback/closing docum</b>	<b>Deadline</b>	<b>Status</b>
11	CGMS Members	Permanent 01	All CGMS Members to inform the Secretariat of any change in the status or plans of their satellites to allow the updating of the CGMS Tables of Satellites (tables 1-6 of the plenary report). The Secretariat to publish this updated information in the CGMS report and, via WMO, in the WMO CGMS satellite status web pages.	EUM-WP-01 CMA-WP-01 <b>Other members' WPs?</b> This will be addressed under the relevant agenda item in plenary and it is therefore proposed to close the action.	CGMS-40	CLOSED
12	CGMS satellite operators	Permanent 02	CGMS Members to report to CGMS plenary on their activities and plans related to space weather including: (i) impact of solar events and space radiation on satellites, protective measures, (ii) space weather observations, and (iii) space weather warning services.	CMA-WP-08, <b>Other members' WPs?</b> i) will be covered in the report under agenda session III; ii) and iii) will be addressed in WGII It is therefore proposed to close this action.	CGMS-40	CLOSED

	A	B	C	D	E	F
13	CGMS Members	Permanent 03	CGMS Members to review the list of available list servers used by CGMS groups and update as appropriate.	This is made on a continuous basis and annually at the plenary meeting. It is proposed to close this action.	CGMS-40	CLOSED
14	IOC/CGMS Members	Permanent 04	CGMS satellite operators to consider the IOC satellite requirements, especially the data dissemination methods, bearing in mind the ongoing formations of GOOS Regional Alliances (GRAs).	This will be addressed under agenda session II in particular, and it is therefore proposed to close the action.	CGMS-40	CLOSED
15	CGMS Members	Permanent 05	CGMS should develop a coordinated approach for direct broadcast services of future polar orbiting meteorological satellite systems.	This matter will be discussed in WGI and WGIV and be reported to plenary as/if necessary (part of the WG agenda). It was discussed in WGIV and it is addressed in the HLPP. It is therefore proposed to close this action.	CGMS-40	CLOSED
16	CGMS Members	Permanent 06	All CGMS satellite operators to regularly include user statistics in their reports on current satellite systems. Deadline: CGMS-39	CMA-WP-01 It is proposed to close the action since a chapter on user statistics is included in the template of the WP on satellite status.	CGMS-40	CLOSED
17	WMO	Permanent 07	WMO to maintain the Dossier on the Space-based GOS, with review by the relevant Expert Teams, and inform CGMS of major updates.	This will be addressed in WGII, and it is therefore proposed to close the action. If deemed necessary by WGII it will be reported to plenary under agenda IV session	CGMS-40	CLOSED
18	CGMS Members	Permanent 08	CGMS Members to provide WMO with the update of their programmes for the dossier on the space-based GOS.	This will be addressed in WGII, and it is therefore proposed to close the action. If deemed necessary by WGII it will be reported to plenary under agenda session IV	CGMS-40	CLOSED
19	EUMETSAT	Permanent 09	EUMETSAT, as CGMS Secretariat, to provide a yearly report to WG-I on the annual SFCG meeting.	Closed with EUM-WP-06	CGMS-40	CLOSED
20	CGMS Members	Permanent 10	CGMS Members to provide at every CGMS meeting a list of frequencies used by their current and future systems in the format provided in WG I report-39 (Annex 1).	Closed with NOAA-WP-12, CMA-WP-02, EUM-WP-04	CGMS-40	CLOSED
21	WMO	Permanent 11	WMO to report on coordination efforts between Radio Occultation data providers and NWP agencies to establish long term continuity plans for the use of both operational and research RO data in Numerical Weather Prediction and climate models. (From Action 38.30: WMO stressed that it was a long-term action, initiated through participation in NAEDEX-APSDEU meetings. CGMS-39 agreed to convert in a permanent action to report on such coordination).	This will be addressed in WGII/7, and it is therefore proposed to close the action. If deemed necessary by WGII it will be reported to plenary under agenda session IV	CGMS-40	CLOSED
22						
23	<b>CGMS-39 actions</b>					

	A	B	C	D	E	F
24	Actionee	Action	Description	Action feedback/closing document	Deadline	Status
	CGMS Members	39.01	Action 39.01: Interested CGMS members to contact NOAA for assistance in obtaining conjunction warning support from the U.S. Joint Space Operations Center (JSPOC). Deadline: CGMS-40	EUMETSAT: Already in place.	CGMS-40	CLOSED
25						
	WMO	39.02	Action 39.02: WMO, through ICTSW, to propose a template in advance of CGMS-40 in order to facilitate harmonised reporting on spacecraft anomalies related to space weather. Deadline: 1 May 2012	WMO provide feedback end Aug '12. S/C anomalies will be reported on under agenda item C. Agenda item B.4 will discuss space weather excluding S/C impact.	01-May-12	CLOSED
26						
	IROWG	39.03	Action 39.03: IROWG to review the status of the global RO system and report to CGMS-40. Deadline: CGMS-40	EUM-WP-02 (on behalf of IROWG)	CGMS-40	CLOSED
27						
	IMD and ROSH	39.04	Action 39.04: IMD and ROSHYDROMET to present papers at CGMS-40 on progress towards implementing GEO to LEO corrections and instrument bias monitoring as established by NOAA, EUMETSAT, KMA, JMA and CMA. Deadline: CGMS-40	Will be reported directly to GSICS.	CGMS-40	CLOSED
28						
	CGMS Members	39.05	Action 39.05: CGMS Members to report at CGMS-40 on activities to implement a web-accessible instrument monitoring website. Deadline: CGMS-40	EUM-WP-09 (cal events WG); Recommendation to CGMS Members;. Action closed following discussions in WGII at CGMS-40	CGMS-40	CLOSED
29						
	CGMS Members	39.06	Action 39.06: CGMS Members to send nominations for vice chairmanship for GSICS. Deadline: 28 Feb 2012		28-Feb-12	CLOSED
30						
	CGMS Members	39.07	Action 39.07: CGMS Members to consider hosting GSICS EP-12 meeting in Spring 2012 and send proposal to WMO Secretariat. Deadline: 31 Dec 2011		31-Dec-11	CLOSED
31						
	CGMS Members	39.08	Action 39.08: CGMS Members to provide a contact point to WMO to coordinate their potential contributions to SWFDP (Severe Weather Forecasting Demonstration Project). Deadline: CGMS-40	JMA-WP-02 EUMETSAT: marianne.koenig@eumetsat.int NOAA: James Gurka, GOES-R Project Office, and Anthony (Tony) Mostek (ref CGMS-39 NOAA-WP-13).	CGMS-40	CLOSED
32						
	CGMS Members	39.09	Action 39.09: CGMS Secretariat to request the Architecture Writing Team provide a template to be used by CGMS Members to provide elements/activities which might contribute to the physical global architecture for Climate Monitoring. Deadline: end of Q1 2012	CGMSSEC provided via the CGMS list server.	31-Mar-12	CLOSED
33						

	A	B	C	D	E	F
34	CGMS Members	39.10	Action 39.10: CGMS Members to provide a detailed review of current and future plans to contribute to the global architecture for Climate Monitoring at CGMS-40 Deadline: CGMS-40	AGN item V.2 (and WGIII/4) Mark Dowell will provide a status presentation on the Global Architecture for Climate Monitoring	CGMS-40	CLOSED
35	CGMS Members	39.11	Action 39.11: CGMS Members who are interested in joining the Writing Team on global architecture for climate monitoring to nominate participants by end of November 2011.	No further input provided by CGMS Members.	30-Nov-11	CLOSED
36	CGMS Members/CGMS Secretariat	39.12	Action 39.12: CGMS Members are invited to send comments on the global architecture for climate monitoring to the Secretariat and CGMS Secretariat to send an official CGMS response on the Writing Team Report to the Writing Team Chair prior to the CEOS Plenary by end of October 2011. Deadline: 31 October 2011.	No further input provided by CGMS Members.	31-Oct-11	CLOSED
37	IOC	39.13	Action 39.13: IOC is invited to prepare a paper on guidance to CGMS members on ocean wind measurements. Deadline: CGMS-40	CGMS-40-IOC-UNESCO-WP-01	CGMS-40	CLOSED
38	CGMS Satellite Operators	39.14	Action 39.14: CGMS Satellite Operators to update their web pages to include the VLab logo and to more clearly show their support to VLab activities and CoEs. Deadline: CGMS-40	EUMETSAT: <a href="http://www.eumetsat.int/Home/Main/DataProducts/HowtoUseOurProducts/index.htm?l=en">http://www.eumetsat.int/Home/Main/DataProducts/HowtoUseOurProducts/index.htm?l=en</a> To be addressed within the Vlab Management Group.	CGMS-40	CLOSED
39	CGMS Satellite Operators	39.15	Action 39.15: CGMS Satellite Operators, in their areas of responsibilities, should be ready to make a contribution towards funding of VLab Management Group (VLMG) members to attend the VLMG-6 in Brazil in September 2012. Deadline: CGMS-40 Aug 2012	Contributions have been provided by EUM and NOAA.	CGMS-40 Aug 2012	CLOSED
40	CGMS Satellite Operators	39.16	Action 39.16: CGMS Satellite Operators to report to WMO Space Programme and CGMS Secretariat within 2 weeks, regarding the possibility to financially support the continuity of employment of the VLab Technical Support Officer (TSO). Deadline: 31 October 2011.	Contributions have been provided by EUM, NOAA and KMA.	31-Oct-11	CLOSED
41	CGMS Satellite Operators	39.17	Action 39.17: CGMS Satellite Operators are invited to note GOS-2011-September edition of the dossier and to forward to WMO (bibizzar@tinn.it) any update or missing information concerning their programmes for inclusion in GOS-2012-January		31-Jan-12	CLOSED

	A	B	C	D	E	F
42	CGMS Members	39.18	Action 39.18: Interested CGMS Members to nominate a participant in the CGMS Internal Study Task Force in charge of reviewing CGMS structure, meetings and practices for next meeting. Deadline: 31 October 2011	JMA, KMA, NOAA, WMO and EUMETSAT/CGMS Secretariat	31-Oct-11	<b>CLOSED</b>
43	CGMS Members	39.19	Action 39.19: CGMS Members to review and approve the report of the CGMS Internal Study Task Force by April 2012 so that it could be implemented for CGMS-40.	By August 2012 only positive comments have been received and the recommendations have been implemented accordingly.	15-Apr-12	<b>CLOSED</b>
44			<b>WGI</b>			
45	CGMS Members	WGI 39.20	Action 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). Deadline: 31.12.2011	Closed with CMA-WP-03, NOAA-WP-12 and EUM-WP-04	31-Dec-11	<b>CLOSED</b>
46	CGMS Members	WGI 39.21	Action 39.21: Based on the inputs of the previous action, 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.	(CGMS-40) <b>New deadline: 31/03/2013</b>	<b>OPEN</b>
47	WGI Chairman	WGI 39.22	Action 39.22: WGI Chairman to report to plenary (under agenda item I/1) to confirm CGMS Secretariat as coordinated representative of CGMS vis-à-vis SFCG for future meetings. Deadline: 7.10.2011	Closed at CGMS-39.	07-Oct-11	<b>CLOSED</b>
48	EUMETSAT	WGI 39.23	Action 39.23: EUMETSAT (as CGMS Secretariat) to represent CGMS in the ad-hoc workshop proposed by WMO on of the future International Forum of Users of Satellite Data Telecommunication Systems (to ensure that there is at least one representative of CGMS). Deadline: CGMS-40.	CGMS Secretariat (EUMETSAT) has agreed to represent CGMS in these fora until further notice.	CGMS-40	<b>CLOSED</b>
49			<b>WGII</b>			
50	NASA and NOAA	WGII 39.24	Action 39.24: NASA and NOAA to report on cal/val results from the NPP instruments, including comparisons of NPP sensors with EOS sensors and with airborne instruments. Deadline: CGMS-40	NASA-WP-02/03; NOAA-WP-14,15,19; CLOSED	CGMS-40	<b>CLOSED</b>
51	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) <b>New deadline: CGMS-41</b>	<b>OPEN</b>

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52	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 GM/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.	(CGMS-40) <b>New deadline: CGMS-42</b>	<b>OPEN</b>
53	WMO Space Programme	WGII 39.27	Action 39.27: The WMO Space Programme to contact the South African Weather Service (SAWS) to inform them about the interest of NOAA and EUMETSAT to closely cooperate with SAWS on satellite product validation, especially for precipitation products. Deadline: CGMS-40.	Closed (21 August 2012); Estelle deConing, SAWS (Estelle.deConing@weathersa.co.za) willing to serve as CGMS focal point	CGMS-40	<b>CLOSED</b>
54	CGMS Satellite Operators	WGII 39.28	Action 39.28: Satellite operators are requested to provide funding for participants of the 6th IPWG Workshop which will take place in Fortaleza, Brazil (tentatively 15-19 October 2012). Deadline: 30 June 2012.	Contributors: EUMETSAT, NOAA, WMO	30-Jun-12	<b>CLOSED</b>
55	All AMV Providers	WGII 39.29	Action 39.29: All AMV providers to make efforts to have the quality of their products tested by NWP centers. The slicing into specific AMV products (e.g. from WV or IR channels) and segregation into vertical levels is advised. Deadline: CGMS-40	EUM-WP- (on behalf of IWWG) A.I. WGII/6; NOAA-WP-21; WMO-WP-09 (Sedona WS). Closed following discussions in WGII at CGMS-40.	CGMS-40	<b>CLOSED</b>
56	IWWG Co-Chairs and Rapporteurs	WGII 39.30	Action 39.30: The co-chairs of IWWG and the rapporteur are requested to discuss the results from NWP impact studies at IWW11, and to synthesize general observations on performance. Due date: IWW11 in February 2012 and report to CGMS-40.	NOAA-WP-21; WMO-WP-09 (Sedona WS); Closed	Feb 2012 and report to CGMS-40	<b>CLOSED</b>
57	IWWG Co-Chairs and Rapporteurs	WGII 39.31	Action 39.31: IWWG co-chairs and the rapporteur are requested to report to CGMS 40 on the 2nd AMV intercomparison campaign. Deadline: CGMS-40	NOAA-WP-21; Closed	CGMS-40	<b>CLOSED</b>
58	CGMS Members	WGII 39.32	Action 39.32: CGMS agencies are encouraged to participate in the next International Radio Occultation Working Group (IROWG) Workshop to be held in Estes Park, Colorado 28 March - 3 April, 2012. Details can be found at <a href="http://www.irowg.org">www.irowg.org</a> . Deadline: 01 March 2012	EUM-WP-01 (on behalf of IROWG)	01-Mar-12	<b>CLOSED</b>

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59	CGMS Members	WGII 39.33	Action 39.33: CGMS agencies are encouraged to report scientific progress on use of Radio-occultation, opportunities to provide increased coverage by RO sensors as well as to report on data gap issues to the IROWG, and directly to CGMS. Deadline: CGMS-40	EUM-WP-02 (on behalf of IROWG), EUM-WP-03, JMA-WP-08, NASA-WP-05 CLOSED	CGMS-40	CLOSED
60	CSA and EC	WGII 39.34	Action 39.34: CSA and Environment Canada to discuss volcanic ash detection and composition products from PCW, and plans to provide rapid transmission of volcanic eruption alerts to the Northern Hemisphere VAACs. Deadline: CGMS-40	PCW still in conceptual stage. Action closed following discussions in WGII at CGMS-40. Canada will continue to report on the PCW programme and related products to CGMS in future.	CGMS-40	CLOSED
61	JMA	WGII 39.35	Action 39.35: JMA is invited to present an intercomparison of the new MTSAT SST product with other (similar) products. Deadline: CGMS-40	JMA-WP-10 CLOSED	CGMS-40	CLOSED
62	Vlab co-chairs	WGII 39.36	Action 39.36: VLab co-chairs to address the potential of training support with the SWFDP responsible in WMO. Deadline: CGMS-40.	Vlab support to SWFDP established; CLOSED	CGMS-40	CLOSED
63	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.	(CGMS-39 31/12/2011) <b>New deadline CGMS-41</b>	OPEN
64	CGMS Members	WGII 39.38	Action 39.38: CGMS members to liaise with WMO (blee@wmo.int) to coordinate training activities on forecasting and warning for storm surges and coastal inundation. Deadline: 31 December 2011	WMO collaboration on marine training with EUM ongoing, and emerging with ESA (through eSurge project). Closed following the discussions at CGMS-40 in WGII.	CGMS-40	CLOSED
65	NOAA	WGII 39.39	Action 39.39: NOAA to report to SCOPE-CM on the progress of extending SSMI precipitable water products with SSMIS. Deadline: Next SCOPE-CM meeting that will take place in August 2012 in Berlin. Deadline: 31 August 2012.	Meeting took place in August 2012.	31-Aug-12	CLOSED
66	Rapporteurs of International CGMS Science Working Groups	WGII 39.40	Action 39.40: GCOS Secretariat to clarify the request formulated in the GCOS/WCRP letter (dated 12 May 2010) and to ask for an adequate response as further spelled out in WMO-WP-23. Rapporteurs of the four CGMS Working Groups (IROWG, IPWG, ITWG and IWWG) are requested to put this on the agenda of the upcoming meetings of the four Working Groups and to report back to CGMS40 and the GCOS Secretariat. Deadline: CGMS-40	EUM-WP-01 (for IROWG) EUM-WP-14 (for IPWG) NOAA-WP-21 (for IWWG) NOAA-WP-18 (for ITWG). Action closed following discussions in WGII.	31-Aug-12	CLOSED

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67	CGMS Rapporteurs	WGII 39.41	Action 39.41: CGMS requests the Rapporteurs to discuss, at the upcoming International Scientific Working Group meetings, the WG contributions to ECV production and reprocessing activities, and other relevant climate work. Deadline: CGMS-40	ISWG matters will be reported on in WGII and plenary F.2. Climate discussed in all ISWGs; CLOSED	CGMS-40	CLOSED
68			<b>WGIV</b>			
69	NOAA	WGIV 39.42	Action 39.42: NOAA to provide more information on the content of LRD broadcasts in due course. Deadline: CGMS-40	NOAA-WP-28. Discussed in WGIV/3.	CGMS-40	CLOSED
70	EUMETSAT and NOAA	WGIV 39.43	Action 39.43: EUMETSAT and NOAA to prepare a new global specification for LEO high rate broadcast services and present it for consideration at the next meeting of CGMS. Deadline: CGMS-40	Closed with EUM-WP-07, EUM-WP-08. Discussed in WGIV/3	CGMS-40	CLOSED
71	CMA	WGIV 39.44	Action 39.44: CMA to nominate a Point of Contact to follow the evolution of the new global specification for LEO high rate broadcast services and to comment accordingly at CGMS 40. Deadline: CGMS-40	Dongfeng LUO luodf@cma.gov.cn	CGMS-40	CLOSED
72	WMO	WGIV 39.45	Action 39.45: WMO to consult WMO Members on the requirement for a "Low Data Rate" service in L-Band on future generation polar-orbiting systems, and on the expected contents of such a service. Deadline: CGMS-40	WMO-WP-01	CGMS-40	CLOSED
73	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	Ongoing.	(CGMS-40) <b>New deadline: CGMS-41</b>	OPEN
74	CGMS Secretariat	WGIV 39.47	Action 39.47: The CGMS Secretariat to prepare an amendment of the CGMS HRIT/LRIT Global Specification (CGMS 03) with effect to adopt the geographical reference system of the World Geodetic System (WGS84) and Earth Geodetic Model (EGM-96) as described in CGMS-39 WMO-WP-25. Deadline: CGMS-40	Closed with EUM-WP-16 (2 papers). Discussed in WGIV/3.	CGMS-40	CLOSED
75	CMA	WGIV 39.48	Action 39.48: CMA to prepare a CMACast fact sheet, including the process for user registration, and to provide this to CGMS Members and to WMO for further distribution to potential users in the Asia-Pacific region. Deadline: 31 March 2012	Action closed with CMA-WP-09. Discussed in WGIV/4	31-Mar-12	CLOSED



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76	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	EUM: Harald.rothfuss@eumetsat.int WMO: nhettich@wmo.int Other members to nominate their points of contact.	(CGMS-40) <b>New deadline CGMS-41</b>	<b>OPEN</b>
77	CGMS Secretariat	WGIV 39.50	Action 39.50: The CGMS Secretariat to distribute to CGMS Members the Report on European Long Term Data Preservation Guidelines, for information, once this has been finalised. Deadline: CGMS-40	Distributed to CGMS plenary by e-mail on 10 May 2012.	CGMS-40	<b>CLOSED</b>
78	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) <b>New deadline CGMS-41</b>	<b>OPEN</b>
79	EUMETSAT and NOAA	WGIV 39.52	Action 39.52: EUMETSAT and NOAA to report on their progress on sharing climate data records and using common interoperability standards for providing the data. Deadline: CGMS-40	EUMETSAT: Regular exchanges take place with NOAA. Progress reporting is expected to be available around CGMS-42 considering that production of the climate data records has not yet started in EUMETSAT. NOAA has provided inputs which were circulated via the CGMS list server on 02/11/12, activities have taken place within SCOPE-CM and NOAA-EUMETSAT Bilaterals and continued regular exchanges are planned.	CGMS-40	<b>CLOSED</b>
80	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	WMO provided the link to the Product Access Guide: <a href="http://www.wmo.int/pages/prog/sat/product-access-guide_en.php">http://www.wmo.int/pages/prog/sat/product-access-guide_en.php</a>  Status: Open. Ongoing activity, link to be provided by WMO and to be added to this report.	(CGMS-40) <b>New deadline CGMS-41</b>	<b>OPEN</b>
81	CGMS Members	WGIV 39.54	Action 39.54: All CGMS Members to report at the next CGMS meeting on their progress with the implementation of WIS Deadline: CGMS-40	Closed with EUM-WP-15, CMA-WP-10. Discussed in WGIV/6.	CGMS-40	<b>CLOSED</b>
82						
83	<b>CGMS-39 recommendations</b>					

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84	Actionee	Recommendation	Description	Action feedback/closing document	Deadline	Status
85	CGMS Members	Recommendation 39.01	Recommendation 39.01: CGMS agencies are invited to assess the possibility of implementing an IR Sounding in early morning orbit.	covered by US/Europe/China study presentation	CGMS-40	CLOSED
86	CGMS Satellite Operators	Recommendation 39.02	Recommendation 39.02: CGMS Satellite Operators are invited to support the strategy for improving the use of satellite data in SWFDP regional subprojects.		CGMS-40	CLOSED
87	CGMS Satellite Operators	Recommendation 39.03	Recommendation 39.03: Satellite operators are asked to strive to harmonise the spectral characteristics of future Visible and Infrared imager channels in order to enable seamless application of differential absorption methods to data acquired from different platforms.	Discussed in WGII.	CGMS-40	CLOSED
88	CGMS Satellite Operators	Recommendation 39.04	Recommendation 39.04: CGMS Satellite operators are asked to ensure the earliest possible deployment of next generation geostationary platforms with enhanced multi-spectral VIS-IR capabilities.		CGMS-40	CLOSED
89	CGMS Satellite Operators	Recommendation 39.05	Recommendation 39.05: CGMS Satellite operators are asked to consider the deployment of operational LIDAR sensors in Low Earth Orbit to provide multi-daily coverage over global air routes.		CGMS-40	CLOSED
90	CGMS Members	Recommendation 39.06	Recommendation 39.06: CGMS members are invited to ensure, as appropriate, their involvement in the Polar Space Task Group in support of the WMO Global Cryosphere Watch (List of invitees to first meeting 13-14 October 2011 in Geneva, Switzerland: <a href="http://www.wmo.int/pages/prog/sat/meetings/documents/PSTG-1_Inf_02_%20Invitees.pdf">http://www.wmo.int/pages/prog/sat/meetings/documents/PSTG-1_Inf_02_%20Invitees.pdf</a> )		CGMS-40	CLOSED
91	CGMS Members	Recommendation 39.07	Recommendation 39.07: CGMS is invited to note the outcome of the 2011 WOAP workshop, in particular in the context of the development of an architecture for climate monitoring from space.	Available at <a href="http://www.wcrp-climate.org/documents/ECV_Wksp_WC RP_Report.pdf">http://www.wcrp-climate.org/documents/ECV_Wksp_WC RP_Report.pdf</a> CGMS members informed via e-mail on 16 Feb 2012.	CGMS-40	CLOSED
92	CGMS Members	Recommendation 39.08	Recommendation 39.08: CGMS Members are invited to include links to the VLab Calendar of Events and the ESRC.		CGMS-40	CLOSED
93			<b>WGI</b>			

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94	CGMS Members	Recommendation 39.09 WGII	Recommendation 39.09: CGMS Members are encouraged to participate in the ad-hoc workshop and subsequent activities of the future International Forum of Users of Satellite Data Telecommunication Systems.  This is adopted with the understanding that the Terms of Reference (ToR) of this forum are still draft and will be subject to consolidation by the participants in the group.		CGMS-40	CLOSED
95			<b>WGII</b>			
96	All AMV and CSR Product providers	Recommendation 39.10 WGII	Recommendation 39.10: All AMV and CSR product providers are invited to continue or start the regular reprocessing of those products with state-of-the-art algorithms.		CGMS-40	CLOSED
97	CGMS Members	Recommendation 39.11 WGII	Recommendation 39.11: CGMS agencies are encouraged to provide instrument monitoring results at CGMS-40.	EUMETSAT: EUM-WP-09	CGMS-40	CLOSED
98	CGMS Satellite Operators	Recommendation 39.12 WGII	Recommendation 39.12: CGMS Satellite Operators to provide regular information on satellite/instruments events affecting calibration and establish corresponding websites.	EUMETSAT: EUM-WP-09	CGMS-40	CLOSED
99	CGMS Satellite Operators	Recommendation 39.13 WGII	Recommendation 39.13: CGMS Satellite Operators to provide Instrument Performance Monitoring information routinely on their respective websites.	EUMETSAT: EUM-WP-09	CGMS-40	CLOSED
100	CGMS Members	Recommendation 39.14 WGII	Recommendation 39.14: CGMS Members participating in GSICS to provide a representative in the GDWG.	EUMETSAT: Peter.Miu@eumetsat.int KMA: GDWG member attended the GRWG/GDWG joint meeting in March 2012	CGMS-40	CLOSED
101	CGMS Members	Recommendation 39.15 WGII	Recommendation 39.15: CGMS to support the development of guidelines by WMO for the design of future instruments with a view of harmonizing some spectral characteristics (e.g. central $\lambda$ ) of at least some core geostationary imager channels.		CGMS-40	CLOSED
102	CGMS Members	Recommendation 39.16 WGII	Recommendation 39.16: CGMS Members that are not currently participating to consider an active role in the future progress of GSICS, enabling their sensors to be used for inter-calibration and to benefit from the experience collected in GSICS.		CGMS-40	CLOSED
103	CGMS Members	Recommendation 39.17 WGII	Recommendation 39.17: CGMS agencies are encouraged to support scientists to attend the next ITWG.	KMA: Representative from KMA staff attended the 18th ITSC in March 2012	CGMS-40	CLOSED

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104	R&D Agencies	Recommendation 39.18 WGII	Recommendation 39.18: The snowfall community is confident in the capabilities of Space-borne multi-frequency Doppler radar for global snowfall measurement and requests space research agencies to plan future missions that implement double-frequency capability as a minimum.		CGMS-40	CLOSED
105	Space Agencies	Recommendation 39.19 WGII	Recommendation 39.19: Space agencies should continue to favour integrated science teams that encompass the measurement, modelling and data assimilation communities through proposals, campaigns and free dataflow.		CGMS-40	CLOSED
106	CGMS Members	Recommendation 39.20 WGII	Recommendation 39.20: CGMS agencies are encouraged to follow NASA's example of comprehensive and sustaining science support for satellite missions, including comprehensive validation campaigns.		CGMS-40	CLOSED
107	CGMS Members	Recommendation 39.21 WGII	Recommendation 39.21: CGMS members are invited to assist the funding of a training event which is planned to be held concurrently with IPWG-6.	EUMETSAT, NOAA	CGMS-40	CLOSED
108	AMV Providers	Recommendation 39.22 WGII	Recommendation 39.22: All AMV providers should make an effort to have the quality of their products tested by NWP centers. It is recommended to present such results already at the 11th International Winds Workshop in February 2012.	See report from IWWG 11 (NOAA-WP-21)	#####	CLOSED
109	IWWG	Recommendation 39.23 WGII	Recommendation 39.23: CGMS-39 advised IWWG 11 to further address the salient issues and topics listed in CGMS-39 EUM-WP-27.	See report from IWWG 11 (NOAA-WP-21)	CGMS-40	CLOSED
110	CGMS Members	Recommendation 39.24 WGII	Recommendation 39.24: CGMS agencies are encouraged to support scientists to attend the next IWWG meeting.	See report from IWWG 11 (NOAA-WP-21)	CGMS-40	CLOSED
111	CGMS Members	Recommendation 39.25 WGII	Recommendation 39.25: CGMS Agencies are invited to: i) further test the performance of the NWCSAF AMV software package by testing the products in a NWP data monitoring/assimilation system, and ii) extend the current software to clear-sky WV AMVs.	EUM-WP-11	CGMS-40	CLOSED
112	AMV Providers	Recommendation 39.26 WGII	Recommendation 39.26: Satellite AMV providers are invited to examine the stand-alone AMV software package from the NWCSAF and to report back to CGMS 40.	EUM-WP-11	CGMS-40	CLOSED

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113	EUMETSAT NWC SAF	Recommendation 39.27 WGII	Recommendation 39.27: EUMETSAT NWC SAF to consider a version of the NWC SAF AMV software that allows running of alternative AMV algorithms. This would support algorithm intercomparisons studies (see also NOAA-WP-34 at CGMS-39).	EUM-WP-11	CGMS-40	CLOSED
114	NOAA/CIMSS	Recommendation 39.28 WGII	Recommendation 39.28: NOAA/CIMSS to report on additional case study results using NearCasting, and, if practical, to include collaboration with the Severe Weather Forecasting Demonstration Project (SWFDP) for the Lake Victoria region. Deadline CGMS-40.		CGMS-40	CLOSED
115	CGMS Satellite Operators	Recommendation 39.29 WGII	Recommendation 39.29: CGMS Satellite Operators are invited to advise on satellite products that could be made available in response to the needs of the SWFDP – Eastern Africa, to facilitate the timely provision of such satellite-related information, and to consider the SWFDP needs for the Lake Victoria Basin region in future product development activities.		CGMS-40	CLOSED
116	CGMS Members	Recommendation 39.30 WGII	Recommendation 39.30: CGMS Members are encouraged to identify opportunities to develop and improve products and services contributing to CIFDP (JCOMM inundation, coastal).		CGMS-40	CLOSED
117			<b>WGIII</b>			
118	CGMS Members	Recommendation 39.31 WGIII	Recommendation 39.31: WGIII recommended that the baseline be submitted to and endorsed by the plenary with the amendments and clarifications brought by the session, as included in Annex 1 to the WG-III report.	(Baseline was endorsed by CGMS-39 plenary).	CGMS-40	CLOSED
119	CGMS Members	Recommendation 39.32 WGIII	Recommendation 39.32: R&D or operational satellite operators should consider the provision of some high-accuracy and stable reference instruments as anchors for operational instruments, in particular, for climate purposes.	Reformulated as a new recommendation for CGMS-40.	CGMS-40	CLOSED

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120	CGMS Members	Recommendation 39.33 WGIII	<p>Recommendation 39.33: CGMS Satellite Operators to address the anticipated or potential gaps identified in the WMO Gap Analysis, in particular:</p> <ul style="list-style-type: none"> <li>• infrared and microwave sounding on the early morning orbit,</li> <li>• hyperspectral sounding missing in some geostationary sectors,</li> <li>• long-term follow-on of radio-occultation constellation,</li> <li>• global precipitation measurement precipitation radar follow-on mission,</li> <li>• long-term Earth Radiation Budget monitoring</li> <li>• limb sounding for high-vertical resolution observations in the stratosphere and mesosphere (of temperature, humidity, wind, aerosol, ozone, and other trace gases).</li> </ul>	WMO-WP-08 This was reassessed by ET-SAT-7 in April 2012. Progress is recorded on Radio occultation. The five other issues are still outstanding as discussed in WMO-WP-08. It is proposed to review this recommendation after discussion of WMO-WP-08	CGMS-40	<b>CLOSED</b>
121			<b>WGIV</b>			
122	CGMS Members	Recommendation 39.34 WGIV	<p>Recommendation 39.34:CGMS satellite operators to adopt the World Geodetic System (WGS84) and Earth Geodetic Model (EGM-96) geographical reference systems for the normalised geostationary projections in all future geostationary systems and related products, and inform the users accordingly.</p>	EUM-WP-16 (same as for WGIV39.47). Discussed in WGIV.	CGMS-40	<b>CLOSED</b>

**Actions open from CGMS-37 (at CGMS-38)**

Actionnee	Action	Description	Action feedback/closing document	Deadline	Status
ROSHYDROMET	37.01	Action 37.01: ROSHYDROMET to inform CGMS about the availability of Meteor-M calibration data. Deadline: CGMS-39	GSCICS Meeting, report in progress	(CGMS-38) New Deadline: CGMS-39	CLOSED
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.	EUMETSAT has updated the standard and reported that it will implement the new standard starting with the next generation of satellites (closed for	(CGMS-41) New deadline CGMS-42
VL Co-chairs	37.12	Action 37.12: VL Co-chairs to discuss with VL sponsoring agencies the funding of the Technical Support Officer (TSO) position from the end of 2010 onwards. Deadline: CGMS 39 (from the end of 2011 onwards)	CGMS-39 WMO-WP-14; CGMS-39 NOAA-WP-13	(CGMS-38) New Deadline: CGMS-39	CLOSED
VL Co-chairs	37.13	Action 37.13: VL Co-chairs and WMO to convene the fifth Virtual Laboratory Management Group (VLMG-5) meeting during the first half of 2010. Deadline: CGMS-39		(CGMS-38) New Deadline: CGMS-39	CLOSED
WMO	37.14	Action 37.14: WMO to continue dialogue with ISRO regarding the establishment of an Indian CoE and the co-sponsoring of the CoE in Oman. Deadline: CGMS-39	CGMS-39 WMO-WP-14; CGMS-39 NOAA-WP-13 On going	(CGMS-38) New Deadline: CGMS-39	OPEN
WMO + VL Co-chairs	37.15	Action 37.15: VL Co-chairs and WMO to seek an agreement between CGMS, COMET and WMO with a view of using the ESRC as a resource library for the VL. Deadline: CGMS-39	CGMS-39 WMO-WP-14; CGMS-39 NOAA-WP-13	(CGMS-38) New Deadline: CGMS-39	CLOSED
WMO + VL Co-chairs	37.16	Action 37.16: The Co-chairs, in consultation with the WMO Space Programme and other relevant WMO Departments, to prepare a roadmap towards widening the scope of VL activities to serve the needs of emerging scientific communities in developing countries. This roadmap will be reviewed by the VLMG and presented to CGMS-38 for approval. Deadline: CGMS-39	CGMS-39 WMO-WP-14; CGMS-39 NOAA-WP-13	(CGMS-38) New Deadline: CGMS-39	CLOSED
CGMS Members	37.17	Action 37.17: CGMS Members to complete the tables of data access information, and to provide the relevant internet links to WMO. Deadline: CGMS-39	EUM-WP-36; NOAA responded via email. PLENARY	(CGMS-38) New Deadline: CGMS-39	CLOSED
ESA	WGII 37.28	Action 37.28: ESA to provide a working paper on the long-term monitoring of MERIS as a reference calibration instrument. Deadline: CGMS-39	Paper in Preparation, will be delivered in 02/2012, new deadline CGMS-40	(CGMS-38) New Deadline: CGMS-39	OPEN
CGMS satellite operators	WGIV 37.37	Action 37.37: All CGMS satellite operators to regularly include user statistics in their reports on current satellite systems. Deadline: CGMS-39	NOAA is actively investigating methods to include user statistics when reporting on current satellite systems. 14/01: to be closed at CGMS-39, will report via the Permanent Action number 06	(CGMS-38) New Deadline: CGMS-39	CLOSED

**CGMS-38 permanent actions**

Actionnee	Action	Description	Action feedback/closing document	Deadline	Status
CGMS Members	Permanent 01	All CGMS Members to inform the Secretariat of any change in the status or plans of their satellites to allow the updating of the CGMS Tables of Satellites (tables 1-6 of the plenary report). The Secretariat to publish this updated information in the CGMS report and, via WMO, in the WMO CGMS satellite status web pages.	EUM-WP-02, NOAA-WP-02, -03, -04, -07, -08, -19, -35, -40, -43	CGMS-38	CLOSED
CGMS satellite operators	Permanent 02	CGMS Members to report on spacecraft anomalies from solar events at CGMS meetings.	EUM-WP-05, NOAA-WP-05	CGMS-38	CLOSED
CGMS Members	Permanent 03	CGMS Members to review the list of available list servers used by CGMS groups and update as appropriate.	Ongoing	CGMS-38	CLOSED
CGMS Members	Permanent 04	CGMS satellite operators to consider the IOC satellite requirements, especially the data dissemination methods, bearing in mind the ongoing formations of GOOS Regional Alliances (GRAs).	EUM-WP-16, NOAA responded at CGMS XXXV, no update at this time.	CGMS-38	CLOSED
CGMS Members	Permanent 05	CGMS should develop a coordinated approach for direct broadcast services of future polar orbiting meteorological satellite systems.		CGMS-39	CLOSED
CGMS Members	Permanent 06	All CGMS satellite operators to regularly include user statistics in their reports on current satellite systems. Deadline: CGMS-39.		CGMS-39	CLOSED

**CGMS-38 actions**

Actionnee	Action	Description	Action feedback/closing document	Deadline	Status
EUM	38.01	Action 38.01: EUMETSAT to report on availability of IASI Level-2 product extraction software for direct readout. CGMS-39	Closed at CGMS-39	CGMS-39	CLOSED
ROSH	38.02	Action 38.02: Roshydromet to make technical details of microwave Sounder data (meta-data, format) available to the global user community. Deadline: 31 March 2011.	Closed at CGMS-39	31-Mar-11	CLOSED
CGMS Members	38.03	Action 38.03: CGMS Members to report on their activities related to Space Debris / collision mitigation measures by CGMS-39.	CGMS-39 EUM -WP-12 CGMS-39 NOAA-WP-06	CGMS-39	CLOSED
CGMS Members	38.04	Action 38.04: CGMS Members to provide information on anomalies affecting their spacecrafts and payload caused by cosmic radiation. Deadline: CGMS-39	CGMS-39NOAA-WP-05 CGMS-39 EUM-WP-05	CGMS-39	CLOSED
CGMS Members	38.05	Action 38.05: CGMS Members to provide written recommendation to WMO on its proposal to develop a space-based architecture for climate monitoring by 15 December 2010.	15/12/10: NOAA: answer not ready yet. Email sent to Barbara Ryan WMO from EUM/DG on 03/01/2011	15-Dec-10	CLOSED
CGMS Secretariat	38.06	Action 38.06: CGMS Secretariat is invited to send a letter from CGMS Members to the WMO SG asking to reinstate a discussion on the WMO Space Program at the next WMO Congress in 2011.	03/12/2010: Letter EUM/SIR/LET/10/0751 was sent out to Michel Jarraud, WMO.	15-Dec-10	CLOSED
CGMS Satellite Operators	38.07	Action 38.07: CGMS Satellite Operators are encouraged to note the usefulness of RA II Pilot Project web pages on the WMO Space Programme (WMOSP) website providing information related meteorological satellites for NMHSs users, and to support the Project providing the information of satellite data and products answering to the questionnaire, which will be sent from the project co-coordinators.	KMA Email 9/12/2010 KMA-WP-20/JMA-WP-07 outlined the background and mission of the Pilot Project to develop support for NMHSs in satellite data, products and training along with the accomplishments of the first phase and the action plan for the second phase. WMO thanked KMA for this initiative. 29/09/2011: WMO JMA-WP-06 refers. NOAA-WP-XX	CGMS-39	CLOSED

**CGMS-38 actions**

Actionnee	Action	Description	Action feedback/closing document	Deadline	Status
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CGMS-38: List of Actions and Recommendations (Last update 06.10.2011)

CGMS Members	38.08	Action 38.08: CGMS Members are invited to participate in the First Workshop on Space-based Architecture for Climate, focussing on "Continuity and architecture requirements for climate monitoring", to be held on 13 and 14 January 2011 in Geneva. Comments on Workshop outline to be received by to WMO by 1.12.2010	reminder sent 07/12/2010, 08/12/2010 sent EUM letter to Jérôme Lafeuille by email, JMA said would send the letter soon 09/12 /JMA answered 17/12/10 / EUM Response to Caroline Richter and Barbara Ryan EUM/SIR/LET/10/0741 sent 2/12/2010	01-Dec-10	CLOSED
WMO	38.09	Action 38.09: WMO SP to check with the GEO SEC the possibility to co-sponsor the Workshop. Deadline: January 2011.	sent an email to Jérôme Lafeuille on 23/02 // email sent on 02/03/2011	31-Jan-11	CLOSED
CGMS Members	38.10	Action 38.10: CGMS Members are invited to support the Global Cryosphere Watch (GCW) by identifying relevant operational satellite products, and developing new satellite derived climate products, which would contribute to GCW and to comment on the benefit of cryosphere reference sites that meet long-term in-situ needs as well as satellite cal/val needs.	CGMS-39-NOAA-WP-12 CGMS-39-WMO-WP-10	CGMS-39	CLOSED
WMO / CGMS Virtual Laboratory Management Group (VLMG)	38.11	Action 38.11: The WMO / CGMS Virtual Laboratory Management Group (VLMG) to liaise with the SWFDP to identify opportunities to coordinate training activities and share training resources that would allow Member countries in SWFDP project regions, such as Southern and Eastern Africa, Southeastern Asia and the Southern Pacific, to further enhance the benefits realized through the SWFDP in better using satellite-based products in support of severe weather forecasting.	29/09/2011 WMO: On-going, see WMO-WP-05 and 21 Treated in the working Groups	CGMS-39	CLOSED
CGMS Satellite Operators	38.12	Action 38.12: CGMS Satellite Operators to provide a contact point for Severe Weather Forecasting Demonstration Project (SWFDP), who would contribute to inform the SWFDP project on relevant satellite data and products responding to SWFDP needs, and to identify opportunities for development of improved products and services. Deadline: CGMS-39.	29/09/2011: WMO: Proposed new action in WMO-WP-05, WMO received points of contacts from NOAA WP-12.	CGMS-39	CLOSED
CGMS Members	38.13	Action 38.13: CGMS members to respond to the updated set of GCOS needs, through the proposed space-based architecture for climate monitoring and the CEOS response (cf. CGMS-38 NOAA-WP-13), as appropriate.	14/01/11: action closed after the WMO workshop	CGMS-39	CLOSED
CGMS Members	38.14	Action 38.14: CGMS Members are invited to nominate further representatives for the web committee and send it to cgmssec@eumetsat.int. The CGMS Secretariat will be the point of contact. The committee to receive comments/feedback/ suggestions on the website.	26/01/2011: email send to close the action	31-Dec-10	CLOSED
CGMS Members	WGI 38.15	Action 38.15: CGMS Members to provide to each CGMS meeting a list of frequencies used by their current and future systems in the format provided in WG I report (Annex 1) (merged version of WMO frequency reports amended with the extra fields as provided in Tables 1 and 2 of Document CGMS-38 EUM-WP-23). Deadline: CGMS-39		CGMS-39	CLOSED
CGMS Members	WGI 38.16	Action 38.16: CGMS members to provide to the CGMS Secretariat and IMD their operational and planned use of the data collection service (regional and international) that contains or overlap the band 402.25-402.65 in a format as provided in Annex 1 of this WG I report. Deadline: 15 December 2010 at the latest.	15/10/2010: JMA sent an answer in form of a satellite table. 15/12/2010 "NOAA has no plans to use the band 402.25-402.65." email from Derek Hanson, NOAA, sent to EUM/H/SES 12/01/11 14/01/11: reminder sent to Cgmsplen. If no input by 21/01 we will close the action 14/01/11: EUM considers this action closed, to be closed at CGMS-39	15-Dec-10	CLOSED
CGMS Members	WGI 38.17	Action 38.17: Concerning US public enquire for sharing with 4G mobile systems of the 1675-1710 MHz band CGMS members are encouraged to provide CGMS secretariat their inputs and position regarding the impact on their current and future systems (or a more general copy of the letters submitted in response of the US public enquire). Deadline: 1 December 2010.	Received input from WMO on 03/12/2010 15/12/10 input from JMA as follow: The Japan Meteorological Agency (JMA) has been operating the Japanese geostationary MetSat, the GMS series and MTSAT series, around 140 degrees east longitude covering for the East Asia and Western Pacific regions since 1977 and contributing to the WMO's World	01-Dec-10	CLOSED
CGMS Secretariat	WGI 38.18	Action 38.18: CGMS Secretariat to draft a letter to the appropriate US officials to address the concern of the WMO and CGMS members and the implications on their systems and services based on the shared use of this band by 4G mobile systems. Deadline: 15 December 2010.	Letter sent 5/01/2011 REF EUM/SIR/Let/11/0005 and D22UM/SIR/LET/10/0798 US Secretary Locke to all cgms Plen + heads of delegations // Response from the USA Dpt of Commerce: letter dated 4/02/2011 reference	15-Dec-10	CLOSED
NOAA	WGII 38.19	Action 38.19: NOAA to report on progress towards using SSMSI to extend the SSMSI records on total precipitable water. Deadline: CGMS-39		CGMS-39	CLOSED
CGMS Agencies	WGII 38.20	Action 38.20: CGMS agencies to provide reports on satellite calibration anomalies Deadline: CGMS-39.		CGMS-39	CLOSED
NOAA	WGII 38.21	Action 38.21: NOAA to submit the current version of the AVHRR Fundamental Climate Data Record for GSICS Product Acceptance.		CGMS-39	CLOSED
EUM	WG II 38.22	Action 38.22: EUMETSAT to provide to CGMS agencies information on the EUM Convection Working Group. Deadline: 28 February 2011.	mail sent out to CGMS	28-Feb-11	CLOSED
ITWG rapporteur	WG II 38.23	Action 38.23: ITWG rapporteur will provide actions related to calibration to GSICS. Deadline: 28 February 2011.	Reminder sent to Mitch Goldberg NOSA 23/02/11, Email back from Derek on 28/03/11: no answer yet. 29/04 FUP with Derek, FUP 20/06/2011	28-Feb-11	CLOSED
ITWG rapporteur	WGII 38.24	Action 38.24: ITWG rapporteur will provide actions related to climate to SCOPE-CM. Deadline: 28 February 2011.	Reminder sent to Mitch Goldberg NOSA 23/02/11, Email back from Derek on 28/03/11: no answer yet. 29/04 FUP with Derek, FUP 20/06/2011	28-Feb-11	CLOSED
ITWG rapporteur and ITWG co-chairs	WGII 38.25	Action 38.25: ITWG rapporteur and ITWG co-chairs to invite IMD and ISRO to consider participation in ITWG. Deadline: 28 February 2011.	Reminder sent to Mitch Goldberg NOSA 23/02/11, Email back from Derek on 28/03/11: no answer yet. 29/04 FUP with Derek, FUP 20/06/2011	28-Feb-11	CLOSED
EUM and NOAA	WGII 38.26	Action 38.26: Recognising limited validation data-sets and the use of SEVIRI for GOES-R and MTG algorithm development, EUMETSAT and NOAA to coordinate with South Africa for creation of validation data-sets for rainfall products and to report at CGMS 39.		CGMS-39	CLOSED
All Satellites Operators	WGII 38.27	Action 38.27: All satellite operators are invited to inform the CGMS Secretariat whether they will support a second AMV intercomparison study. They are also invited to provide feedback on potential improvements and changes (due date 31 March 2011).	EUMETSAT will support a second study// NOAA will also support a second study. Email from Derek NOAA 05/04/2011. 17/05/11: CMA, KMA and Roshydromet. 18/05 JMA confirmed they will support the study	31-Mar-11	CLOSED
Co-chairs of the IWWG	WGII 38.28	Action 38.28: Co-chairs of the IWWG should develop a workplan for a second AMV intercomparison study on the basis of lessons-learned from the 1st intercomparison and the pertinent feedback and comments provided by CGMS members. Deadline: CGMS-39		CGMS-39	CLOSED

**CGMS-38 actions**

Actionee	Action	Description	Action feedback/closing document	Deadline	Status
EUM	WGII 38.29	Action 38.29: EUMETSAT to conduct an extended validation campaign for AMVs derived with the NWCSAF portable AMV software package. Deadline: 31 May 2011 and a report to CGMS-39.	sent email to regis Borde on 29/04 Answer sent on 30/05/2011	31-May-11	CLOSED
WMO	WGII 38.30	Action 38.30: WMO to coordinate efforts between operational data providers and NWP agencies to establish long term continuity plans, including the use of research data in operational products and optimal configurations for climate applications. Deadline: CGMS-39.	29/09/2011: WMO: This is a long-term action, initiated through participation in NAEDEX-APSDEU meetings (See WMO-WP-26) Will convert in a permanent action to report on such coordination.	CGMS-39	CLOSED



CGMS-38: List of Actions and Recommendations (Last update 06.10.2011)

CGMS Satellite Operators	WGII 38.31	Action 38.31: CGMS Satellite Operators are invited to report on a regular basis on their capabilities and plans to support volcanic ash monitoring, including the development of relevant products and techniques for utilisation, in order to inform the relevant ICAO and WMO bodies: the WMO/IUGG Volcanic Ash Scientific Advisory Group and the ICAO International Volcanic Ash Task Force/International Airways Volcanic Watch Operations Group (IVATF/IAVWOPSG).		CGMS-39	CLOSED
CMA, IMD, NOAA, and other interested CGMS agencies	WGII 38.32	Action 38.32: Propose CMA, IMD, NOAA, and other interested CGMS agencies to support future training related to the use of satellites to monitor dust, volcanic ash, fog, and forest fires in conjunction with the WMO Virtual Laboratory. Deadline: CGMS-39.		CGMS-39	CLOSED
CGMS operators	WGII 38.33	Action 38.33: Invite CGMS operators to submit to the next CGMS meeting Working Papers on nowcasting applications, including cloud analysis, fog detection and forest fires. Deadline: CGMS-39.		CGMS-39	CLOSED
IOC	WGII 38.34	Action 38.34: IOC to provide a paper on guidance to CGMS members to improve sea surface temperature measurements. Deadline: CGMS-39.		CGMS-39	CLOSED
CMA	WGII 38.35	Action 38.35: CMA is invited to provide more detailed intercomparisons of FY-3A ERB with CERES.		CGMS-39	CLOSED
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.	New deadline CGMS-40	CGMS-39	OPEN
WMO	WGIII 38.37	Action 38.37: WMO to report on the outcome of the Workshop on Continuity and Architecture Requirements for Climate Monitoring, at CGMS-39 (Due date: CGMS-39).	29/09/2011 WMO: See WMO-WP-24	CGMS-39	CLOSED
CGMS Satellite Operators	WGIII 38.38	Action 38.38: CGMS satellite operators to report at CGMS-39 on their user-preparation activities for the next generation geostationary satellite series.	to be closed at Plenary, pending report to plenary under C.2	CGMS-39	CLOSED
WMO	WGIII 38.39	Action 38.39: WMO with the support of the relevant Expert Teams, to prepare an update of the baseline for the space-based component of the Global Observing System along the lines of Annex 3 to the report of CGMS-38 WG III, and circulate to CGMS Members in advance of CGMS-39.	29/09/2011 WMO-WP-02	CGMS-39	CLOSED
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.	29/09/2011 WMO: ongoing, see WMO-WP-09	CGMS-39	OPEN
CGMS Satellite Operators	WGIII 38.41	Action 38.41: CGMS Satellite Operators to confirm their commitments to contribute to the updated baseline for the space-based component of the Global Observing System (Due date: CGMS-39).	Closed at Plenary, after item D.1.	CGMS-39	CLOSED
WMO	WGIII 38.42	Action 38.42: WMO to take into account the revised CGMS baseline for the space-based component of the GOS in the updating process of relevant WMO Manuals and Guides, with a view of its endorsement by CBS-XV in 2012.	Shall be completed, based on the outcome of CGMS-39, will start after plenary	CGMS-39	OPEN
CGMS Members	WGIII 38.43	Action 38.43: CGMS Members to review the Draft Mapping of the gap analysis with the GCOS ECVs, and provide comments to WMO (Dr Bizzarro Bizzarri, bibizzar@tin.it) to be considered for a revised version to be submitted to the "Workshop on Continuity and Architecture Requirements for Climate Monitoring" on 13-14 January 2011. (Deadline: 15 December 2010.)	Action closed with the email of Jérôme Lafeuille 13/01	15-Dec-10	CLOSED
NOAA	WGIV 38.44	Action 38.44: NOAA to provide a report to CGMS on its planning for the transition of users from the current GOES system to GOES-R. Deadline CGMS 39.	Discussed at CGMS 39 Working Group IV/2	CGMS-39	CLOSED
EUM	WGIV 38.45	Action 38.45: EUMETSAT to provide CGMS with more detailed information and the schedule of implementation for the various MTG data dissemination schemes. Deadline CGMS39.	Discussed at CGMS 39 Working Group IV/2	CGMS-39	CLOSED
CGMS Satellite Operators	WGIV 38.46	Action 38.46: CGMS satellite operators to inform CGMS on progress towards the achievement of future broadcast services (physical layers, formats, etc.) in the timeframe of the EPS-SG and JPSS satellites. Deadline CGMS 39.	Discussed at CGMS 39 Working Group IV/2	CGMS-39	CLOSED
NOAA and EUM	WGIV 38.47	Action 38.47: NOAA and EUMETSAT to present a description of joint broadcast services for EPS-SG and JPSS. Deadline CGMS 39.	Discussed at CGMS 39 Working Group IV/2	CGMS-39	CLOSED
CGMS Satellite Operators	WGIV 38.48	Action 38.48: CGMS satellite operators to inform CGMS on efforts to widen user access and to establish and respond to user requirements with GEONETCast. Deadline CGMS 39.	Discussed at CGMS 39 Working Group IV/3	CGMS-39	CLOSED
CGMS Members	WGIV 38.49	Action 38.49: GMS members to report on their measures and plans regarding interoperability and standardised online data access for archived data-sets. Deadline CGMS-39.	Discussed at CGMS 39 Working Group IV/5 and IV/6	CGMS-39	CLOSED
CGMS Members	WGIV 38.50	Action 38.50 CGMS members are invited to report on the current measures taken in their Organisation for the long-term preservation of data and indicate if a future harmonised approach (e.g. common guidelines) would be helpful. Deadline CGMS-39.	Discussed at CGMS 39 Working Group IV/5	CGMS-39	CLOSED
CGMS Members	WGIV 38.51	Action 38.51: CGMS Members to verify if they have been registered as a part of WIS, in particular as Data Collection or Production Centres (DCPCs) or National Centres (NCs).	14/01/2011: EUM considers that action closed Discussed at CGMS 39 Working Group IV/6 IMD to clarify its position	CGMS-39	CLOSED
Candidate DCPCs or NCs	WGIV 38.52	Action 38.52: Candidate DCPCs or NCs to review the WIS specifications to ensure they are able to support the relevant WIS interfaces, including ensuring metadata describing their products and services is available in WMO format (ISO19115) for uploading to a Global Information System Centre (GISC).	29/09/2011: WMO: See WMO-WP-27 Discussed at CGMS 39 Working Group IV/6	CGMS-39	CLOSED
IMD and KMA	WGIV 38.53	Action 38.53: IMD and KMA are invited to nominate experts to the WMO/CGMS Task Force on Satellite Data Codes. Deadline end January 2011.	reminder sent on 13/01/2011: to KMA and IMD, cc J Lafeuille Answer 31/01/11 : KMA nominated 2 experts closed for KMA and IMD to clarify its position.	31-Jan-11	CLOSED

**CGMS-38 recommendations**

Actionee	Recommendat	Description	Action feedback/closing document	Deadline	Status
CGMS Members	Recommendation 38.01	Recommendation 38.01: CGMS recommended to consider the possibility to extend the IODC coverage after 2013 and after the end of life of Meteosat-7.		CGMS-39	CLOSED
CGMS Members	Recommendation 38.02	Recommendation 38.02: CGMS members to examine opportunities to incorporate Severe Weather Forecasting Demonstration Project (SWFDP) required data and products in their broadcast schemes.		CGMS-39	CLOSED
CGMS Members	Recommendation 38.03	Recommendation 38.03: CGMS members to consider ways and means to strengthen their support to international scientific expert teams involved in peer review of climate data records (for example, to the CGMS Working Groups IPWG, IWWG, ITWG and IROWG, and to the World Climate Research Programme Global Energy and Water Cycle Experiment Radiation Panel (WCRP GEWEX RP)).		CGMS-39	CLOSED

**CGMS-38 recommendations**

Actionee	Recommendat	Description	Action feedback/closing document	Deadline	Status
CGMS satellite operators	Recommendation 38.04	Recommendation 38.04 :CGMS Satellite Operators are invited to consider the development of new operational sensors for cryospheric variables, especially snowfall.		CGMS-39	CLOSED

## CGMS-38: List of Actions and Recommendations (Last update 06.10.2011)

CGMS Members	Recommendation 38.05 WGI	Recommendation 38.05: CGMS members are invited to provide information on the planned use of the band 7750 - 7850/7900 MHz in order to facilitate an early coordination of this band among MetSat operators in the framework of SFCG.		CGMS-39	CLOSED
CGMS Members	Recommendation 38.06 WGI	Recommendation 38.06: When planning frequency use of current and future DCS systems, CGMS members are encouraged to adhere to the content of Resolution SFCG 30-1 providing the basic general partitioning of the band 401 – 403 MHz and related sharing conditions for future long-term coordinated use of DCS systems on geostationary and non-geostationary MetSat and EESS systems. If considered necessary, further coordination within the selected sub-bands should be initiated and performed within the framework of SFCG.		CGMS-39	CLOSED
CGMS Members	Recommendation 38.07 WGI	Recommendation 38.07: CGMS members planning to use the 7750-7900 MHz band investigate using the CGMS global standards for AHRPT.		CGMS-39	CLOSED
NOAA	Recommendation 38.08 WGII	Recommendation 38.08: NOAA to consider sharing 1 minute simulated imagery upon request from CGMS agencies planning new advanced imagers in geostationary orbit.		CGMS-39	CLOSED
CMA	Recommendation 38.09 WGII	Recommendation 38.09: CMA to provide both short and long term time-series of the Qinghai and Dunhuang sites using geostationary satellites to evaluate the diurnal variation of the lake temperature and the BRDF of the Dunhuang site.		CGMS-39	CLOSED
CMA	Recommendation 38.10 WGII	Recommendation 38.10: CMA to consider the use of in-situ radiometers to routinely measure the Qinghai Lake surface temperature for improved accuracy.		CGMS-39	CLOSED
NOAA	Recommendation 38.11 WGII	Recommendation 38.11: NOAA to publish results on the characteristics of targets for vicarious calibration presented in NOAA-WP-26.		CGMS-39	CLOSED
NOAA	Recommendation 38.12 WGII	Recommendation 38.12: NOAA to use GPS RO measurements to assess the systematic bias remaining in the MSU/AMSU intercalibrated FCDRs.		CGMS-39	CLOSED
NOAA	Recommendation 38.13 WGII	Recommendation 38.13: NOAA to present results on the Stratospheric Sounding Unit (SSU) intercalibration and derived long term trends and comparisons with trends from MSU/AMSU.		CGMS-39	CLOSED
JMA	Recommendation 38.14 WGII	Recommendation 38.14: JMA is invited to report on the use of high resolution AMV derived for T-PARC experiment.		CGMS-39	CLOSED
CGMS Operators	Recommendation 38.15 WGII	Recommendation 38.15: CGMS operators are invited to express their interest in the portable AMV software package from the EUMETSAT 'Nowcasting SAF' for testing and internal comparisons.		CGMS-39	CLOSED
ISRO and partner Agencies	Recommendation 38.16 WGII	Recommendation 38.16: ISRO and partner Agencies to provide ROSA GPS RO data from Oceansat-2 and Megha-Tropiques to operational agencies in near real-time.		CGMS-39	CLOSED
CGMS satellite operators	Recommendation 38.17 WGIII	Recommendation 38.17: Once their operational requirements are fully satisfied, CGMS Satellite Operators should consider redeployment towards less covered areas if need arises, taking advantage of available in-orbit capacity in geostationary orbit.		CGMS-39	CLOSED
CGMS satellite operators	Recommendation 38.18 WGIII	Recommendation 38.18: CGMS Satellite Operators implementing new systems should provide the user community, as early as possible, with full technical details needed by users to get prepared to access and use these systems.		CGMS-39	CLOSED
CGMS Members	Recommendation 38.19 WGIII	Recommendation 38.19: Orbital planes of operational sun-synchronous satellites with sounding capability (IR and MW) should be coordinated with a view to optimize the temporal distribution in order to maximize coverage.		CGMS-39	CLOSED
CGMS Members	Recommendation 38.20 WGIII	Recommendation 38.20: The WG recommended to proceed with an update of the CGMS baseline for GEO, LEO and HEO satellites in advance of CBS-XV in 2012, describing the target configuration for 2015.	WMO ACTION	CGMS-39	CLOSED
CGMS Members	Recommendation 38.21 WGIII	Recommendation 38.21: CGMS to keep under review the baseline for GEO, LEO and HEO satellites for 2015 with the aim to ensure, by 2025, a full implementation of the WMO Vision for the GOS in 2025.	LONG TERM	CGMS-39	CLOSED

OPEN	HLPP #3.2	SEP/SSE. EUM has updated standard. Needs to make it available on system. WHEN? <b>EUM-WP??</b>
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**Actions open from CGMS-36 (at CGMS-37)**

Actionnee	Action	Description	Action feedback/closing document	Deadline	Status
WMO	WGIII 36.24	Action 36.24: WMO to convene a contingency planning workshop in the second half of 2009 in order to investigate critical missions and associated potential contingency actions regarding the new missions implied by the Vision for the GOS in 2025. Deadline: 30 June 2009		(30 Jun 2009) New deadline: 30 Jun 2010	CLOSED
CGMS Task Force on Codes	WGIV 36.27	Action 36.27: CGMS Task Force on Satellite Data Codes to propose a permanent framework for the activity by CGMS-37. Deadline: CGMS-37	At the TFSDC meeting on 14 September 2009, the Task Force recommended updated Terms of Reference to continue its work and proposed to close the action. (See CGMS-38 WMO-WP-09)	(CGMS-37) New deadline: CGMS-38	CLOSED

**CGMS-37 permanent actions**

Actionnee	Action	Description	Action feedback/closing document	Deadline	Status
CGMS Members	Permanent 01	All CGMS Members to inform the Secretariat of any change in the status or plans of their satellites to allow the updating of the CGMS Tables e-mail, of Satellites (tables 1-6 of the plenary report). The Secretariat to review the tables of current and planned polar and geostationary satellites, and to distribute this updated information, via the WWW Operational Newsletter, via Electronic Bulletin Board, or other means as appropriate. CGMS satellite operators to update table 7 for polar-orbiting satellite equator crossing times on an annual basis. CGMS Members to update the table on polar-orbiting satellite equator crossing times as well as the table on coverage from geostationary satellites.	EUM-WP-02, NOAA-WP-02, -03, -04, -07, -08, -19, -35, -40, -43	CGMS-38	OPEN
CGMS satellite operators	Permanent 02	CGMS Members to report on spacecraft anomalies from solar events at CGMS meetings.	EUM-WP-05, NOAA-WP-05	CGMS-38	OPEN
CGMS Members	Permanent 03	CGMS Members to review the list of available list servers used by CGMS groups and update as appropriate.	Ongoing	CGMS-38	OPEN
CGMS Members	Permanent 04	CGMS satellite operators to consider the IOC satellite requirements, especially the data dissemination methods, bearing in mind the ongoing formations of GOOS Regional	EUM-WP-16, NOAA responded at CGMS XXXV, no update at this time.	CGMS-38	OPEN

**CGMS-37 actions**

Actionnee	Action	Description	Action feedback/closing document	Deadline	Status
ROSHYDROMET	37.01	Action 37.01: ROSHYDROMET to inform CGMS about the availability of Meteor-M calibration data. Deadline: CGMS-38		CGMS-38 New Deadline: CGMS-39	OPEN
EUM, NOAA	37.02	Action 37.02: EUMETSAT and NOAA to inform CGMS about the cooperative scientific studies being carried out as part of the preparations for MTG and GOES-R. Deadline: CGMS-38	EUM-WP-26 WGII/10, NOAA-WP-08. Closed at CGMS-38.	CGMS-38	CLOSED
EUM	37.03	Action 37.03: EUMETSAT to inform CGMS about the data dissemination plan for MTG. Deadline: CGMS-38	EUM-WP-34 WGIV/2. Closed at CGMS-38.	CGMS-38	CLOSED
ESA	37.04	Action 37.04: ESA to inform CGMS whether the soil moisture information derived from SMOS data is comparable to that derived from Scatterometer data. Deadline: CGMS-39		CGMS-38 New Deadline: CGMS-39	OPEN

CGMS Members (JAXA)	37.05	Action 37.05: CGMS members are encouraged to collaborate with JAXA in the context of the GPM and CEOS Precipitation Constellation activities. JAXA to report on the status of these collaborative activities. Deadline: CGMS-38	NOAA collaborates with JAXA through mutual participation in GPM X-Cal Working Group and the CGMS International Precipitation Working Group (IPWG). Closed at CGMS-38.	CGMS-38	CLOSED
CGMS Members	37.06	Action 37.06: CGMS Members who are not represented at CEOS should designate a focal point who will receive from CEOS the annual call for updates. Deadline: 30 Apr 2010	Confirmed by CEOS. Closed at CGMS-38.	30-Apr-10	CLOSED
EUM	37.07	Action 37.07: CGMS Secretariat to revise the satellite table and provide it to CGMS Members. Deadline: 30 April 2010	The tables available on the WMO web site: <a href="http://www.wmo.int/pages/prog/sat/Satellites.html">http://www.wmo.int/pages/prog/sat/Satellites.html</a> will be used for this purpose. Closed at CGMS-38.	30-Apr-10	CLOSED
CGMS Members	37.08	Action 37.08: CGMS satellite operators take the Vision for the GOS in 2025 into account when developing their own planning, and to report at the next meeting of CGMS on their initiatives to respond and contribute to its continued implementation. Deadline: CGMS-38	NOAA-WP-11. Closed at CGMS-38.	CGMS-38	CLOSED
CGMS Members	37.09	Action 37.09: CGMS members to provide reports to the next session of CGMS on climate-related activities and plans in support of GCOS requirements. These reports should include comments on the maturity index for climate data records under development by NOAA, as well as on the <i>Guideline for the Generation of Satellite-based Datasets and Products Meeting GCOS Requirements</i> (GCOS-128). Deadline: CGMS-38	EUM-WP-15, NOAA-WP-13. Closed at CGMS-38.	CGMS-38	CLOSED
CGMS Members	37.10	Action 37.10: CGMS members to a) review the draft updated GCOS Implementation Plan (IP-09/10) during the open review period running from November 2009 to February 2010, and send their comments to the GCOS Secretariat; b) provide input to GCOS for the purpose of the Guideline for the generation of satellite-based datasets and products meeting GCOS requirements. Deadline: 15 February 2010.	E-mail to plenary 15 Jan 2010. JMA e-mail 3 Feb 2010: No further comments. Information provided to GCOS Secretariat 16Apr2010. 'Guideline on the Generation of Datasets and Products Meeting GCOS Requirements' (note the generic title) which is now available on the GCOS website as GCOS-143 (WMO/TD-No. 1530), May 2010 ( <a href="http://www.wmo.int/pages/prog/gcos/Publications/gcos-143.pdf">http://www.wmo.int/pages/prog/gcos/Publications/gcos-143.pdf</a> ); NOAA has reviewed the GCOS Implementation Plan. Closed at CGMS-38.	15-Feb-10	CLOSED
EUM	37.11	Action 37.11: CGMS Secretariat to prepare a letter including a statement from CGMS on the importance of space observations for climate monitoring. Deadline: 15 November 2009	CGMS Secretariat letter sent 16 Nov 2009. Copy iterated to CGMSPLEN on 4 Feb 2010. Closed at CGMS-38.	15-Nov-09	CLOSED
VL Co-chairs	37.12	Action 37.12: VL Co-chairs to discuss with VL sponsoring agencies the funding of the Technical Support Officer (TSO) position from the end of 2010 onwards. Deadline: CGMS-38	In consultation with VL Co-chairs, WMO sent a letter to CGMS satellite operators on 5/07/2010. In principle support was received. WMO-WP-16. NOAA accepted funding up to end of 2011. NOAA-WP-14 Funding still to be found for 2012 onwards. Deadline from the end of 2011 onwards	CGMS-38 New Deadline: CGMS-39	OPEN
VL Co-chairs	37.13	Action 37.13: VL Co-chairs and WMO to convene the fifth Virtual Laboratory Management Group (VLMG-5) meeting during the first half of 2010. Deadline: CGMS-38	VLMG-5 was convened in Beijing from 12 to 16 July 2010. Report available at: <a href="http://www.wmo.int/pages/prog/sat/Reports.html#VLMGWMO-WP-16">http://www.wmo.int/pages/prog/sat/Reports.html#VLMGWMO-WP-16</a> , NOAA-WP-14. Closed at CGMS-38.	CGMS-38	CLOSED

WMO	37.14	Action 37.14: WMO to continue dialogue with ISRO regarding the establishment of an Indian CoE and the co-sponsoring of the CoE in Oman. Deadline: CGMS-38	NOAA-WP-14 PLENARY	CGMS-38 New Deadline: CGMS-39	OPEN
WMO + VL Co-chairs	37.15	Action 37.15: VL Co-chairs and WMO to seek an agreement between CGMS, COMET and WMO with a view of using the ESRC as a resource library for the VL. Deadline: CGMS-38	WMO-WP-16. Closed at CGMS-38.	CGMS-38	CLOSED
WMO + VL Co-chairs	37.16	Action 37.16: The Co-chairs, in consultation with the WMO Space Programme and other relevant WMO Departments, to prepare a roadmap towards widening the scope of VL activities to serve the needs of emerging scientific communities in developing countries. This roadmap will be reviewed by the VLMG and presented to CGMS-38 for approval. Deadline: CGMS-38	NOAA-WP-14. Closed at CGMS-38.	CGMS-38	CLOSED
CGMS Members	37.17	Action 37.17: CGMS Members to complete the tables of data access information, and to provide the relevant internet links to WMO. Deadline: CGMS-38	EUM-WP-36; NOAA responded via email. PLENARY	CGMS-38 New Deadline: CGMS-39	OPEN
WMO	37.18	Action 37.18: WMO to finalise the IROWG Terms of Reference in accordance with the conclusions of CGMS-37 and inform the CGMS Secretariat and the two nominated Co-Chairs. Deadline: 31 December 2009.	WMO e-mail 7 Dec 2009 provided the ToR. CGMSPLEN informed via e-mail 4 Feb 2010. Closed at CGMS-38.	31/12/2009	CLOSED
EUM	37.19	Action 37.19: The CGMS Secretariat to send a proposal of the revised agenda to Members for comment and approval in order to use it at CGMS-38. Deadline: 28 February 2010	Circulated to working points of contact of Members in June 2010 for comment. Closed at CGMS-38.	28-Feb-10	CLOSED
EUM	WGI 37.20	Action 37.20: CGMS Secretariat to develop the CGMS coordinated response on the future use of the 401–403 MHz band at the 2010 SFCG-30 meeting (6-14 July 2010). Deadline: 31 January 2010	EUM input to SFCG-30 prepared meeting in July 2010. EUM-WP-24. Closed at CGMS-38.	31-Jan-10	CLOSED
EUM	WGI 37.21	Action 37.21: EUMETSAT to present the CGMS Secretariat's statement on the final outcome of the rationalisation of the frequency assignments and use of the DCS uplink band (401-403 MHz). Deadline: SFCG-30	To be discussed at SFCG-30 in July 2010. EUM-WP-24. Closed at CGMS-38.	30-Jun-10	CLOSED
CGMS Members	WGI 37.22	Action 37.22: CGMS members to present their plans for frequency bands above 275 GHz. Deadline: CGMS-38	EUM-WP-21, NOAA-WP-17. Closed at CGMS-38.	CGMS-38	CLOSED
CGMS Members	WGI 37.23	Action 37.23: All CGMS members to report on their plans of utilisation for the band 7750-7850/7900 MHz (i.e. including the 7850-7900 MHz extension if agreed in WRC-11). Deadline: CGMS-38	EUM-WP-22, NOAA-WP-18. Closed at CGMS-38.	CGMS-38	CLOSED
CGMS Members	WGI 37.24	Action 37.24: CGMS members to coordinate with CEOS in providing inputs for the report being prepared by ITU-R "The essential role and global importance of radio spectrum use for Earth observations and for related applications." In particular, for chapter 4 about the potential economical impacts of data loss due to RF interference. Deadline: 31 May 2010	Answered by EUMETSAT in EUM/SES/LET/10/0161 (10 March 2010), DG letter to CEOS EO Frequency Spectrum and SFCG Coordinator confirming name for coordinator on EUMETSAT side. EUM-WP-20. NOAA coordinated with CEOS and responded to the ITU report and provided input on chapter 4 about the potential economic impacts of data loss due to RF interference. Closed at CGMS-38.	31-May-10	CLOSED
CGMS Members	WGI 37.25	Action 37.25: CGMS members to review the proposed position for WRC-12 contained in WMO-WP-01 and send comments to the Chairman of SG-RFC (philippe.tristant (at) meteo.fr) and to WMO Secretariat (jlafeuille (at) wmo.int). Deadline: 31 December 2009	JMA e-mail 24 Dec 2009: Supports the proposal. EUM e-mail 3 Feb 2010: Supports the proposal. EUM-WP-20 Reminder to plenary 12Jul2010. NOAA responded via email and supports the proposal. Closed at CGMS-38.	31-Dec-09	CLOSED
CGMS Members	WGI 37.26	Action 37.26: In the future when reporting on systems, all CGMS members are asked to expand the details to cover the use of the different frequency bands and the related services. Deadline: CGMS-38	EUM-WP-23. NOAA provided expanded information on its frequency bands and services in all of its working papers. Closed at CGMS-38.	CGMS-38	CLOSED



CGMS Members involved in GSICS	WGII 37.27	Action 37.27: GSICS to work with CEOS WGCV to assess Dunhuang and Qinghai Lake as reference sites. Deadline: CGMS-38	NOAA-WP-24. Closed at CGMS-38.	CGMS-38	<b>CLOSED</b>
ESA	WGII 37.28	Action 37.28: ESA to provide a working paper on the long-term monitoring of MERIS as a reference calibration instrument. Deadline: CGMS-38		CGMS-38 New Deadline: CGMS-39	OPEN
NOAA (GSICS EP Chair)	WGII 37.29	Action 37.29: GSICS Executive Panel Chair to send letter to JAXA on the roles and responsibility of JAXA as a GSICS full member. Deadline: 30 Apr 2010	NOAA informed CGMS that the WMO Space Programme Director has completed this action. Closed at CGMS-38.	30-Apr-10	<b>CLOSED</b>
CGMS Members involved in GSICS	WGII 37.30	Action 37.30: GSICS agencies to implement web-accessible instrument performance monitoring capabilities using the guidelines provided from the GSICS Coordination Center. Deadline: CGMS-38	GSICS internal action that will take a few years to implement at all agencies. Closed at CGMS-38.	CGMS-38	<b>CLOSED</b>
CMA	WGII 37.31	Action 37.31: CMA to make available in near-real time the FY-3A sounder radiance data for NWP. CMA to provide a status of the work to the CGMS Secretariat. Deadline: 31 January 2010	CMA has started providing available FY-3A sounder radiance data to ECMWF. Also, access to FY-3 sounder data is possible through the ftp server by becoming a registered user of <a href="http://fy3.satellite.cma.gov.cn/ArssEn">http://fy3.satellite.cma.gov.cn/ArssEn</a> . Closed at CGMS-38.	31-Jan-10	<b>CLOSED</b>
NOAA (GSICS EP Chair)	WGII 37.32	Action 37.32: NOAA to organize a working-level meeting of experts in coordination with GSICS, to provide a consensus algorithm for achieving a GSICS version-1 MSU and AMSU intercalibrated dataset. Deadline: 30 Aug 2010	NOAA-WP-25. Closed at CGMS-38.	30-Aug-10	<b>CLOSED</b>
CGMS Members	WGII 37.33	Action 37.33: CGMS confirms Dr G. Huffman as single point of contact for GEO precipitation activities.	CLOSED (completed during the CGMS-37 plenary session). Closed at CGMS-38.	30-Oct-09	<b>CLOSED</b>
NOAA	WGII 37.34	Action 37.34: On the basis of existing scientific prototype software for GOES-R, NOAA to report on the availability of software to other satellite operators with similar planned geostationary instruments. Deadline: 30 June 2010	NOAA-WP-32. Closed at CGMS-38.	30-Jun-10	<b>CLOSED</b>
KMA	WGIV 37.35	Action 37.35: KMA to provide CGMS with information on its Point of Contact for user access enquiries. Deadline: 30 April 2010	Dr (Mr) Bongju Lee, National Meteorological Satellite Center/KMA E-mail: <a href="mailto:bjlee@kma.go.kr">bjlee@kma.go.kr</a> CGMSPLEN informed by e-mail 4 Feb 2010. Closed at CGMS-38.	30-Apr-10	<b>CLOSED</b>
NOAA	WGIV 37.36	Action 37.36 : NOAA is invited to develop a simplified current GOES/GOES-R user data access scheme, for use especially during the period of transition from the current GOES system to the operational GOES-R and S system. Deadline: CGMS-38	NOAA-WP-36. Closed at CGMS-38.	CGMS-38	<b>CLOSED</b>
CGMS satellite operators	WGIV 37.37	Action 37.37: All CGMS satellite operators to regularly include user statistics in their reports on current satellite systems. Deadline: CGMS-38	EUM-WP-03/-04. NOAA is actively investigating methods to include user statistics when reporting on current satellite systems.	CGMS-38 New Deadline: CGMS-39	OPEN
CMA	WGIV 37.38	Action 37.38: CMA to inform CGMS about its upgraded FENGYUNCast service. Deadline: CGMS-38	Closed at CGMS-38.	CGMS-38	<b>CLOSED</b>
NOAA	WGIV 37.39	Action 37.39: NOAA to report on its plans for the full integration of GEONETCast Americas into the global GEONETCast system and service all GEO Societal Benefit Areas. Deadline: CGMS-38	NOAA-WP-39. Closed at CGMS-38.	CGMS-38	<b>CLOSED</b>
CGMS satellite operators	WGIV 37.40	Action 37.40: CGMS satellite operators to consider using the layout of the table of satellite data requirements for South and central America, presented in document ET-SUP-RED-1/Doc. 6.2, (24.IX.2009) as a template for the collection of user requirements in other WMO Regions. Deadline: CGMS-38	NOAA-WP-42. Closed at CGMS-38.	CGMS-38	<b>CLOSED</b>
WMO	WGIV 37.41	Action 37.41: WMO to consider including Metop-IASI data within the RARS. Deadline: CGMS-38	Closed at CGMS-38.	CGMS-38	<b>CLOSED</b>



WMO - TFSDC	WGIV 37.42	Action 37.42: The Chairman of the Task Force on Satellite Data Codes should write to the CGMS Secretariat explaining the rationale behind the WMO-requested actions and provide full supporting documentation to allow CGMS to formulate possible further actions on Members concerning the categorization of their products. Deadline: 30 Apr 2010	Closed at CGMS-38.	30-Apr-10	CLOSED
WMO, ROSHYDROMET	WGIV 37.43	Action 37.43: WMO to confirm with ROSHYDROMET its membership of the Task Force on Satellite Data Codes. Deadline: 30 Apr 2010	Closed at CGMS-38.	30-Apr-10	CLOSED

### CGMS-37 recommendations

Actionee	Recommendation	Description	Action feedback/closing document	Deadline	Status
WMO	Recommendation 37.01	Recommendation 37.01: WMO to continue to keep the Dossier on the Space-based Global Observing System under review by the relevant groups of experts of WMO Members (e.g. the CBS/OPAG-IO Expert Teams on Satellite Systems and on Satellite Utilization and Products). (Replacing recommendation 36.02)	The Dossier is updated at least twice a year and is brought to attention of the relevant Expert Teams (ET-SAT, ET-SUP, ET-EGOS). WMO-WP08	CGMS-38	CLOSED
WMO, CGMS satellite operators	Recommendation 37.02	Recommendation 37.02: <ul style="list-style-type: none"> <li>• WMO to continue to pursue harmonisation of structure and contents of the GOS Dossier and the CEOS databases, in cooperation with CEOS. (Replacing recommendation 36.03);</li> <li>• That CGMS space agencies support WMO in filling the gaps in the GOS Dossier Volume II (Instrument descriptive tables) in response to specific requests by WMO;</li> <li>• WMO to continue to inform CGMS of the status of the Rolling Requirements Review process (RRR); and additionally</li> <li>• that WMO continues to report on the major updates to the Dossier on the Space-based Global Observing System.</li> </ul>	NOAA is very supportive of this recommendation and will provide any information needed by the WMO. WMO-WP-08	CGMS-38	CLOSED
ESA	Recommendation 37.03	Recommendation 37.03: As far as practical, ESA will include additional fields in the forms used for the CEOS Call for updates, in order to address the detailed questions to be answered for the Dossier.		CGMS-38	CLOSED
CGMS satellite operators	Recommendation 37.04	Recommendation 37.04 CGMS satellite operators are invited to take the Vision for the GOS in 2025 into account when developing their own planning, and to report at the next meeting of CGMS on their initiatives to respond and contribute to its continued implementation. (Ref. Recommendation 36.04).	NOAA-WP-11 / WMO-WP-03	CGMS-38	CLOSED
CGMS Members	Recommendation 37.05	Recommendation 37.05: CGMS Members, including research space agencies, are invited to participate in SCOPE-CM and propose additional pilot projects for the sustained and coordinated processing of environmental satellite data, in particular for the oceanic and/or terrestrial ECVs.	Action being pursued by SCOPE-CM.	CGMS-38	CLOSED
CGMS Members	Recommendation 37.06	Recommendation 37.06: CGMS Members are invited to support collaboration and CGMS invited individual countries to contribute to the WMO Trust Fund or provide a secondment, as appropriate.	NOAA has no response at this time. WMO appreciates secondment from Japan in 2010 and from Germany in 2010-2011.	CGMS-38	CLOSED
CGMS Members	Recommendation 37.07 WGI	Recommendation 37.07: CGMS members are encouraged to continue to inform spectrum meeting representatives on the relevance and importance of frequency agenda items of importance to CGMS.	Discussed in WGI EUM: Discussed in relevant European fora including EUMETSAT Delegate bodies in spring 2010. NOAA-WP-16.	CGMS-38	CLOSED
CGMS Members involved in CEOS WG CV and GSICS	Recommendation 37.08 WGII	Recommendation 37.08: CEOS WG CV and GSICS to study and report on intercomparisons of vicarious calibrations and trends in visible channels obtained from various land sites.	EUM-WP-27, NOAA-WP-26	CGMS-38	CLOSED

CGMS Members involved in GSICS	Recommendation 37.09 WGII	Recommendation 37.09: GSICS to establish a publicly accessible database to provide full history of operational changes that affect instrument performance and calibration. It should include the date and time of each operating changes that affect the performance and calibration of each instrument, a short summary of the change, and a quantitative assessment of the severity of the impact on the instrument's calibration.	NOAA reports this action is underway within GSICS.	CGMS-38	CLOSED
CGMS Members	Recommendation 37.10 WGII	Recommendation 37.10: All CGMS agencies are encouraged to participate in GSICS in order to ensure a world wide comparability and seamless integration of space-based observation data sets, which will ultimately benefit all.	ISRO, JAXA and ROSHYDROMET are now full members, ESA is observer.	CGMS-38	CLOSED
NOAA	Recommendation 37.11 WGII	Recommendation 37.11: NOAA is encouraged to merge the MSU and AMSU data into a consistent climate time series of radiance/temperature data. A report to CGMS-38 is welcome.	NOAA-WP-27	CGMS-38	CLOSED
CGMS Members	Recommendation 37.12 WGII	Recommendation 37.12: CGMS Members to contribute to page changes of the "Special Collection Issue" of papers arising from IPWG-4 in the AMS Journal of Applied Meteorology and Climatology.	NOAA will be providing the resources (~10 K) to print 150-200 copies of the issue, anticipated in early 2011.	CGMS-38	CLOSED
CGMS Members	Recommendation 37.13 WGII	Recommendation 37.13: CGMS members to provide support for attendance at the next IPWG Workshop, 4-8 October 2010, in Hamburg, Germany for six scientists from developing and least developed countries.	See NOAA's response to Recommendation 37.12.	31-Aug-10	CLOSED
CGMS Members involved in GSICS	Recommendation 37.14 WGII	Recommendation 37.14: GSICS is requested to provide IPWG current and archived instrument metadata and information regarding instrument health for sensors used to estimate precipitation.	NOAA has started to provide this information as part of their real-time instrument monitoring system which includes AMSU-A and -B (MHS) and SSMIS see: <a href="http://www.star.nesdis.noaa.gov/smcd/spb/icvs/index.php">http://www.star.nesdis.noaa.gov/smcd/spb/icvs/index.php</a> .	CGMS-38	CLOSED
CGMS Members - satellite operators	Recommendation 37.15 WGII	Recommendation 37.15: CGMS operators are requested to undertake reprocessing of L1 radiance data and L2 precipitation data sets when significant calibration corrections are developed and algorithm improvements are implemented into operations.	NOAA has a new climate data records program which is planning this activity.	CGMS-38	CLOSED
CGMS Members - satellite operators	Recommendation 37.16 WGII	Recommendation 37.16: CGMS operators are requested to contribute in a timely fashion to the open archive of the international constellation of precipitation-relevant sensors, for example, for use in GPM.	NOAA sensor datasets contributing to GPM are always open and available from CLASS. ( <a href="http://www.class.noaa.gov">www.class.noaa.gov</a> )	CGMS-38	CLOSED
CGMS Members involved in IPWG	Recommendation 37.17 WGII	Recommendation 37.17: Co-chairs of IPWG are invited to formally contact KMA concerning its participation in IPWG. KMA to provide IPWG with the point of contact. Deadline: 30 June 2010	During visit to KMA in August 2010, NOAA invited KMA to attend IPWG.	30-Jun-10	CLOSED
CGMS Members	Recommendation 37.18 WGII	Recommendation 37.18: WMO encourages CGMS members to repeat the very informative international operational AMV algorithm intercomparisons at regular time intervals of about 3-4 years.	EUM-WP-28. NOAA is investigating AMV algorithm intercomparisons at regular time intervals.	CGMS-38	CLOSED
CGMS Members	Recommendation 37.19 WGII	Recommendation 37.19: CGMS members should provide support to the next IWW10 meeting by approving participation of scientists and operational staff working on the utilisation and derivation of satellite winds and, if possible, by providing some support to travel of relevant people from the research community.	EUM-WP-29. NOAA supported travel of Dr. John LeMarshall (Australian Bureau of Meteorology) to IWW10.	30-Jun-10	CLOSED
CGMS Members	Recommendation 37.20 WGII	Recommendation 37.20: Efforts by CGMS Members to enhance the use of AMVs in NWP should continue to address both the quality of the AMVs as well as the way the product is utilized in NWP assimilation systems.	EUM-WP-28. NESDIS is involved in the many activities that contribute to this recommendation (see response within NOAA-WP-01).	CGMS-38	CLOSED
CGMS polar operators	Recommendation 37.21 WGII	Recommendation 37.21: In view of the success of the polar winds all efforts should be undertaken to continue such products as long as possible from imaging instruments in polar orbits.	EUM-WP-28. See NOAA response within NOAA-WP-01.	CGMS-38	CLOSED

CGMS members involved in IWWG 10	Recommendation 37.22 WGII	Recommendation 37.22: IWWG 10 is requested to address the development of a stand-alone software package for the derivation of AMVs from imaging satellite instruments.	EUM-WP-29. IWW10 co-chairs, Jaime Daniels (NOAA) and Mary Forsythe (Met Office) have submitted a working paper (see EUM-WP-42) on this topic to Jo Schmetz (EUMETSAT; IWWG rapporteur to CGMS).	CGMS-38	CLOSED
CGMS Members	Recommendation 37.23 WGII	Recommendation 37.23: CGMS endorsed and recommended all topics listed in EUM-WP-31 section 6 for a detailed discussion at IWWG 10.	EUM-WP-29. IWW10 co-chairs, Jaime Daniels (NOAA) and Mary Forsythe (Met Office) have submitted a working paper (see EUM-WP-29) to Jo Schmetz (EUMETSAT; IWWG rapporteur to CGMS) that summarizes the outcomes of the 10th International Winds Workshop (IWW10) that took place in Tokyo from 22-26 February 2010. This working paper includes a summary of discussions and recommendations of items listed in EUM-WP-31.	CGMS-38	CLOSED
JMA	Recommendation 37.24 WGII	Recommendation 37.24: JMA is invited to report at IWW10 on the derivation and quality of AMVs derived from the MTSAT imaging at time intervals as short as 7 and 4 minutes, respectively.	NOAA reported that JMA did present material at IWW10 on this action.	CGMS-38	CLOSED
EUM, NOAA	Recommendation 37.25 WGII	Recommendation 37.25: On the basis of existing scientific prototype software for product retrievals, NOAA and EUMETSAT offer to other satellite operators existing prototype algorithm software for testing and further development.	EUM-WP-26. NOAA can only provide software through bilateral agreements and potential licensing agreements.	CGMS-38	CLOSED
CGMS Members	Recommendation 37.26 WGII	Recommendation 37.26: CGMS agencies are encouraged to review NOAA-WP-17 and EUM-WP-28, and provide working papers describing their product development processes at CGMS-38.	NOAA and EUMETSAT propose the action.	CGMS-38	CLOSED
NOAA	Recommendation 37.27 WGII	Recommendation 37.27: NOAA is encouraged to include GRUAN radiosondes into NPROVS and to provide regular performance statistics of satellite products with GRUAN.	NOAA-WP-33.	CGMS-38	CLOSED
CGMS Members	Recommendation 37.28 WGII	Recommendation 37.28: CGMS members are invited to consider the testing and use of the NOAA NPROFS and EDGE systems and to contribute to comparisons by providing relevant data sets.	NOAA-WP-33.	CGMS-38	CLOSED
CGMS satellite operators	Recommendation 37.29 WGIV	Recommendation 37.29: Satellite operators to support the further development and expansion of IGDDS/RARS as operational components of the WIS architecture.	NOAA has no response at this time.	CGMS-38	CLOSED
CGMS satellite operators	Recommendation 37.30 WGIV	Recommendation 37.30: All Satellite operators to consider applying as DCPCs.	NOAA is reviewing the criteria for applying as a DCPC. WMO-WP-06	CGMS-38	CLOSED
CGMS satellite operators	Recommendation 37.31 WGIV	Recommendation 37.31: Satellite operators to prepare metadata related to satellite data and products to the GISCs in accordance with the WMO core profile of the ISO metadata standard and to make them available to the GISCs.	NOAA is preparing new metadata standards are being applied to JPSS and GOES-R.	CGMS-38	CLOSED
CGMS satellite operators	Recommendation 37.32 WGIV	Recommendation 37.32: Satellite operators to apply ISO 23950 for search as an effective enablement for interoperability between systems, including the WIS.	NOAA has no response at this time.	CGMS-38	CLOSED
CGMS - TFSDC	Recommendation 37.33 WGIV	Recommendation 37.33: The CGMS Task Force on Satellite Data and Codes (TFSDC) to interact as appropriate with the WMO/CBS Inter-Programme Expert Team on Data Representation and Codes (IPET-DRC), and the WMO/CBS Inter-Programme Expert Team on Metadata and Data Interoperability (IPET-MDI) with a view to contributing to the development of the WMO/WIS data representation and code forms for satellite data and products, and to the development of a comprehensive WIS data representation system policy.	On-going task of TFSDC. WMO-WP-05.	CGMS-38	CLOSED

	A	B	C	D	E	F	G
1	<b>Actions open from CGMS-35 (at CGMS-36)</b>						
2	<b>Actionee</b>	<b>Action</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	
3	NOAA	35.01	Action 35.01: NOAA to provide more detailed information on the DMSP satellite system. Deadline: CGMS-36	NOAA-WP-02&03. The CEOS Earth Observation Handbook also provides information on this matter available on <a href="http://www.eohandbook.com">www.eohandbook.com</a> IPWG was approached via e-mail to provide specific details on the mission, to which the IPWG co-chair Ralph.R.Ferraro@noaa.gov provided during CGMS-36. As a result, reporting will be made at CGMS-37.	(CGMS-36) New deadline: CGMS-37	<b>CLOSED</b>	
4							
5							
6	NASA	35.02	Action 35.02: CGMS invited NASA to provide information on its current R&D Earth Observation satellites. Deadline: CGMS-36	The "Earth Science and Applications from Space: National Imperatives for the Next Decade and Beyond" (2007) is available for free downloading at <a href="http://books.nap.edu/catalog.php?record_id=11820">http://books.nap.edu/catalog.php?record_id=11820</a>  A pdf copy is available on the CGMS ftp-server <a href="ftp://cgmsread:welcome100@ftp.eumetsat.int/">ftp://cgmsread:welcome100@ftp.eumetsat.int/</a> in sub directory 'CGMS-37'; in 'Actions recommendations inputs'.  Plenary informed 15 July 2009.	(CGMS-36) New deadline: 31 Dec 2008	<b>CLOSED</b>	
7	CGMS Members	35.11	Action 35.11: All CGMS Members to nominate points of contact to support the CGMS website editorial committee. Deadline: 31 December 2007	ESA: OPEN EUM: anne.taube (at) eumetsat.int, JMA/MSC: Mr. Motoo Hayashi, System Engineering Division  Tel: +81-42-493-4976, Fax: +81-42-492-2433, E-mail: mhayashi (at) met.kishou.go.jp NOAA: daniel.muller (at) noaa.gov WMO: jlafeuille (at) wmo.int Members were encouraged to provide support as necessary. Closed following CGMS-37	(31 Dec 2007) New deadline: 31 Dec 2008	<b>CLOSED</b>	
8							
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15	WMO, EUM	35.12	Action 35.12: WMO and CGMS Secretariat to establish a CGMS web editorial committee by March 2008 in order to guide the completion and further enhancement of the CGMS website and the ftp server and ensure their sustainability. Deadline: March 2008 and to report to CGMS-36	Action was deferred due to lack of availability on both sides.  Members were encouraged to provide support as necessary. Closed following CGMS-37	(CGMS-36) New deadline: 31 Mar 2009	<b>CLOSED</b>	
16							
17	NOAA, EUM	WGIV 35.31	Action 35.31: NOAA and EUMETSAT to study possibilities for the use of NPOESS ground infrastructure to improve the timeliness of Metop data, within the framework of JPS discussions and report findings to CGMS. Deadline: CGMS-36	Discussed in WGIV. EUM-WP-R[24]C NOAA: NOAA and EUMETSAT are engaged in ongoing discussions regarding the use of NOAA ground infrastructure to improve timeliness of Metop data. NOAA and EUMETSAT have exchanged letters agreeing to expand the IJPS partnership to include using the NPOESS ground infrastructure at McMurdo Station, Antarctica to improve the timeliness of Metop data. An initial operational capability is planned for 2011. NOAA-WP-	(4 Nov 2008) New date: CGMS-37	<b>CLOSED</b>	
18							
19	CGMS Members	WGIV 35.32	Action 35.32: CGMS members involved with the IGDDS to consider applying as DCPCs within the context of the IGDDS and WIS, in consultation with WMO. Deadline: May 2008	Discussed in WGIV. WMO-WP	(31 May 2008)	<b>CLOSED</b>	

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20				<p>CGMS-36 WMO-WP-13 WMO was informed of the intention of JMA to prepare an application. Letter sent by WMO Oct 2008 to all WMO Members and EUMETSAT, informing on the process of GIS/DCPC designation, and inviting to notify their intention to apply.</p> <p>An IGDDS Implementation Group meeting was held 5-6 Feb 2009. Information provided to plenary on 17 July 2009.</p> <p>NOAA input by e-mail 22 Oct 2009: NOAA is considering applying as a DCPC. CGMS is reminded that NOAA consist of several data production centers. Each data production center in NOAA is evaluating the resources necessary to be compliant with ISO 19115. As each data production center completes their investigation, they will make a recommend the NOAA PR. NOAA will continue to keep CGMS inform on the progress of these considerations. CGMS-37: NOAA-WP-31. Plenary informed by e-mail on 24 Oct 2009.</p> <p>WMO: CGMS-37, WMO-WP-06</p> <p>Closed. Addressed in new action R[31]Cat CGMS-37</p>	New deadline: 31 Dec 2008		
21							
22	<b>CGMS-36 permanent actions</b>						
23	<b>Actionee</b>	<b>Action</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	
24	CGMS Members	Permanent 01	All CGMS Members to inform the Secretariat of any change in the status or plans of their satellites to allow the updating of the CGMS Tables e-mail, of Satellites (tables 1-6 of the plenary report). The Secretariat to review the tables of current and planned polar and geostationary satellites, and to distribute this updated information, via the WWW Operational Newsletter, via Electronic Bulletin Board, or other means as appropriate. CGMS satellite operators to update table 7 for polar-orbiting satellite equator crossing times on an annual basis. CGMS Members to update the table on polar-orbiting satellite equator crossing times as well as the table on coverage from geostationary satellites.	CMA-WP-01, ESA-WP-01/-02/-04, EUM-WP-01/-02, JMA-WP-01/-02/-03, KMA-WP-01, NOAA-WP-01/-38	CGMS-37	CLOSED	
25	CGMS satellite operators	Permanent 02	CGMS Members to report on spacecraft anomalies from solar events at CGMS meetings.	EUM-WP-06 NOAA-WP-04	CGMS-37	CLOSED	
26	CGMS Members	Permanent 03	CGMS Members to provide information for the WMO database of satellite receiving equipment, as appropriate.	NOAA-WP- After consultation with WMO, the Secretariat proposes to close this action in future. Closed at CGMS-37	CGMS-37	CLOSED	
27	CGMS Members	Permanent 04	CGMS Members to review the list of available list servers used by CGMS groups and update as appropriate.	Ongoing. Inputs provided by Members as and when needed.	CGMS-37	CLOSED	
28							
29	CGMS Members	Permanent 05	CGMS satellite operators to consider the IOC satellite requirements, especially the data dissemination methods, bearing in mind the ongoing formations of GOOS Regional Alliances (GRAs).	ESA-WP-03  Closed for NOAA.	CGMS-37	CLOSED	
30							
31							
32	<b>CGMS-36 actions</b>						
33	<b>Actionee</b>	<b>Action</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	
34	ROSC, ROSH, CMA, CNSA, CGMS Members	36.01	Action 36.01 ROSCOSMOS/ROSHYDROMET, CMA/CNSA and other CGMS Members to provide JAXA with their points of contact if planning to join the activities of the CEOS Precipitation Constellation as microwave satellite operators. Deadline: 31 March 2009	EUM: Not applicable. Reminder to plenary 15Jul09 CNSA: TBD if CNSA will join the activities of the CEOS Precipitation Constellation or not (Oct 09). Discussed at CGMS-37 with a new action agreed.	31-Mar-09	CLOSED	

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35	WMO	36.02	Action 36.02: WMO to report at CGMS on the major updates brought to the Dossier on the Space-based Global Observing System. Deadline: CGMS-37	WMO-WP-10	CGMS-37	CLOSED	
36	CGMS agencies	36.03	Action 36.03: CGMS agencies with current and/or future geostationary programmes to review CGMS-36 NOAA-WP-21 (Characterisation of future channels and sensors for fire monitoring, WGII), and to complete an assessment on the level of compliance to the recommendations in the Working Paper. Deadline: 31 May 2009	EUM-WP-29 NOAA-WP Discussed at CGMS-37	31-May-09	CLOSED	
37	VLMG co-Chairs	36.04	Action 36.04: The VLMG co-Chairs to set in place the procedure to recruit the technical support officer whose list of duties were presented in the Working Paper and to report to CGMS-37. Deadline: CGMS-37	WMO-WP-18	CGMS-37	CLOSED	
38	CGMS satellite operators	WGI 36.05	Action 36.05 All CGMS satellite operators are invited to consider the above proposal and the status of discussions at SFCG for a coordinated future use of the band 401 – 403 MHz, and to provide responses to the CGMS Secretariat. Deadline: 30 December 2008	CNES expressed that the ARGOS-4 satellite network would not operate in 401.69-402.4MHz frequency band as the Beam2. Under this condition, both Japanese and French administrations agreed that there is no harmful interference between the MTSAT and the ARGOS-4 satellite networks in the band of 402MHz. Document sent by e-mail 18 Dec 2009  JMA e-mail 15 Jan 2009: - Regarding the band 401.701-402.435MHz, the band should be maintained only for the DCS of the geostationary meteorological satellite systems in the world, since JMA will use the band for the DCS of the follow-on satellites to the MTSAT series, and  - Regarding the satellite frequency coordination about MTSAT-DCS (JMA, Japan) and ARGOS-4 (CNES, France) in the band of 402 MHz, the coordination has been already completed.  Invitation letter for 17 Feb 2009, CNES + JMA feedback provided to cgmsplen on 26 Jan 2009.  NOAA plans to provide updates at future meetings	30-Dec-08	CLOSED	
39	EUM	WGI 36.06	Action 36.06 CGMS Secretariat to develop a coordinated response, based on the input received from CGMS members, on the future use of the 401 - 403 frequency band. Deadline: 31 January 2009.	Provided at 17 Feb 2009 meeting.	31-Jan-09	CLOSED	
40	EUM	WGI 36.07	Action 36.07 CGMS Secretariat to request WMO to coordinate a separate meeting of all CGMS satellite operators that are in attendance at the Working Party 7B and 7C meetings in Geneva, Switzerland, February 2009, to discuss the coordination of the CGMS response to the proposal for future use of the 401 – 403 MHz band. Deadline: 30 December 2008	Roshydromet/SRC Planeta: Document by e-mail 30 Jan 2009. The meeting took place on 17 Feb 2009 in Geneva. Minutes of meeting distributed via plenary on 15 April 2009.	30-Dec-08	CLOSED	
41	EUM	WGI 36.08	Action 36.08 CGMS Secretariat to develop a final, coordinated report, based on CGMS members input, for the future use of the 401 – 403 MHz frequency band. Deadline: 30 April 2009	A meeting took place on 17 Feb 2009 in Geneva. Minutes of meeting + comments distributed via plenary on 15 April 2009.	30-Apr-09	CLOSED	
42	EUM	WGI 36.09	Action 36.09: CGMS Secretariat to present the CGMS coordinated response on the future use of the 401 – 403 MHz band at the SFCG meeting in June 2009. Deadline: 1 June 2009	EUM-WP-21 Discussed at CGMS-37	01-Jun-09	CLOSED	

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43	EUM	WGI 36.10	Action 36.10: CGMS Secretariat to send a letter thanking the SFCG Executive Secretariat for the "SFCG Liaison Statement to CGMS." Deadline: 30 November 2008	Letter sent to SFCG Executive Secretary (EUM/SES/LET/08/0367 of 18 Nov 2008), copy disseminated to cgmsplen on 28 Nov 2008.  Feedback from CMA by e-mail to cgmsplen on 4 Dec 2008: "Based on preliminary analysis and estimation by the frequency manager of NSMC/CMA the planned Argos would bring potential harmful interference to the DCS of FY-2 in the band 401.1MHz - 401.4 MHz. Considering that the FY-2 series satellite networks have finished coordination with other frequency networks, and the successive satellites, the FY-2E to be launched December 2008, and the FY-2F and FY-2G that are being manufactured, shall all use this band, there is little possibility for FY-2 to make change. CMA hopes that 401.1MHz - 401.4MHz remain available for DCS using geostationary MetSat systems."	30-Nov-08	CLOSED	
44	CGMS Members	WGI 36.11	Action 36.11: CGMS members should implement the IDCS frequency allocation plan change in their systems and update the associated documentation and webpages. The Secretariat will update the IDCS Users' Guide. Due date 31 July 2009	Report sent to plenary on 15 July 09 for review by Members by 31 Aug. NOAA-WP-12 Available on EUMETSAT's CGMS web pages: <a href="http://www.eumetsat.int/CGMS">http://www.eumetsat.int/CGMS</a> under CGMS publications and reports	31-Jul-09	CLOSED	
45	NOAA	WGII 36.12	Action 36.12: NOAA to facilitate the setting up of a small Working Group comprising CGMS representatives to encourage public access of agency satellite datasets for nowcasting applications. Deadline: CGMS-37	NOAA-WP. Discussed in WGII.	CGMS-37	CLOSED	
46	CGMS Members	WGII 36.13	Action 36.13: All CGMS Members to make available the instrument characterisation of their imaging and sounding instruments in polar and geostationary orbit, in particular the spectral response functions. This should include both the currently operational as well as all previous instruments. It is sufficient to make available the web link where the instrument characterisation data can be found. Deadline: 30 May 2009	ESA: <a href="http://earth.esa.int/pcs">http://earth.esa.int/pcs</a> EUM-WP-24 JMA: Input 1 Jun 2009: The spectral response functions of MTSAT-1R and the previous satellites are available at <a href="http://mscweb.kishou.go.jp/operation/index.htm#function">http://mscweb.kishou.go.jp/operation/index.htm#function</a> Plenary informed 12 Jul 2009. NOAA-WP-13 and -15	30-May-09	CLOSED	
47	GSICS	WGII 36.14	Action 36.14: GSICS to finalise recommendations for its instrument performance monitoring website. Deadline: CGMS-37	NOAA-WP-11 and -14. Discussed in WGII.	CGMS-37	CLOSED	
48	GSICS (+ CEOS WG)	WGII 36.15	Action 36.15: GSICS, in consultation with CEOS WG Cal/Val, to finalise development of guidelines for prelaunch instrument characterization. Deadline: CGMS-37	CEOS Cal/Val WG will make a presentation about their activity in CGMS-37 WGII and plenary. WMO-WP-02	CGMS-37	CLOSED	



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49	CGMS agencies	WGII 36.16	Action 36.16: CGMS agencies to provide URL addresses of satellite-based climate datasets to the CGMS Secretariat for posting on the CGMS website. Deadline: CGMS-37	EUM input to plenary 12 July 2009. a) EUMETSAT's product navigator/portal: <a href="http://www.eumetsat.int/Home/Main/Access_to_Data/ProductNavigator/index.htm">http://www.eumetsat.int/Home/Main/Access_to_Data/ProductNavigator/index.htm</a> b) Satellite Application Facility on Climate Monitoring: <a href="http://www.eumetsat.int/Home/Main/What_We_Do/SAFs/Projects/SP_1124289151210?l=en">http://www.eumetsat.int/Home/Main/What_We_Do/SAFs/Projects/SP_1124289151210?l=en</a> c) Archive data: <a href="http://www.eumetsat.int/Home/Main/Access_to_Data/Archive_Service/index.htm?l=en">http://www.eumetsat.int/Home/Main/Access_to_Data/Archive_Service/index.htm?l=en</a>  ESA response provided to plenary 21 Sept 2009: <a href="http://www.tv5.org/TV5Site/meteo/temperature-des-mers.php">http://www.tv5.org/TV5Site/meteo/temperature-des-mers.php</a> <a href="http://www.globcarbon.info">http://www.globcarbon.info</a> <a href="http://www.globcolour.info/">http://www.globcolour.info/</a> <a href="http://www.medspiration.org/">http://www.medspiration.org/</a> <a href="ftp://uranus.esrin.esa.int/pub/globcover_v2/global/">ftp://uranus.esrin.esa.int/pub/globcover_v2/global/</a>  JMA: JMA-WP-04 <a href="http://mscweb.kishou.go.jp/product_reprocess/index.htm">http://mscweb.kishou.go.jp/product_reprocess/index.htm</a>	CGMS-37	CLOSED	
50	WMO, EUM	WGII 36.17	Action 36.17: WMO and the CGMS Secretariat to initiate the formation of the small group (J. Lafeuille [WMO], M. Goldberg (NOAA) and J. Schmetz [EUMETSAT]) to consider the role of a new International Radio-occultation Working Group under CGMS, to elaborate its draft terms of reference. Deadline: CGMS-37	Roshydromet fax response to CGMS Secretariat 17 Apr 2009; International Radio Occultation WG, Dr Mikhail Gorbunov, Institute of Atmospheric Physics, RAS. (m_e_gorbunov@mail.ru) Tel. Russia, Moscow, 9519574 WMO-WP-20	CGMS-37	CLOSED	
51	IWWG Co-Chairs (+ Dr Genkova)	WGII 36.18	Action 36.18: Co-Chairs of IWWG, jointly with Dr Iliana Genkova, to provide a summary paper describing and evaluating the CGMS AMV intercomparisons using MSG image data. Deadline: CGMS-37	EUM-WP-26. Discussed in WGII.	CGMS-37	CLOSED	
52	CGMS satellite operators	WGII 36.19	Action 36.19: Satellite operators deriving AMVs to summarise their methods and ways to characterise the AMV errors, with emphasis on the height assignment error. Deadline: CGMS-37	EUM-WP-27 JMA-WP-05 NOAA-WP-21	CGMS-37	CLOSED	
53	CGMS Members	WGII 36.20	Action 36.20: CGMS Members to present WPs to CGMS-37 describing their processes for product development, verification and implementation into operations, as well as the process for continuous improvement. Deadline: CGMS-37	ESA-WP-05 JMA-WP-05/-06 NOAA-WP-17	CGMS-37	CLOSED	
54		WGII 36.21	Action 36.21: The CGMS Secretariat to include "Coordination of code forms for satellite data" within the agenda of WG IV, instead of WG II for future CGMS meetings. Deadline: CGMS-37	The agenda has been updated and the item has been included in the CGMS-37 WGIV part of the agenda.	CGMS-37	CLOSED	
55	CGMS Task Force on Codes	WGII 36.22	Action 36.22: CGMS Task Force on Codes to investigate whether the WMO file naming convention can be made more flexible than merely having (long filename).bin for all data types. Deadline: CGMS-37	File name extensions have been agreed at the last CBS meeting in Dubrovnik 2009 to distinguish netCDF and HDF data.	CGMS-37	CLOSED	
56	WMO	WGII 36.23	Action 36.23: WMO to revise the Terms of Reference of the Task Force on Satellite Data Codes as proposed by the Task Force. Deadline: 28 Feb 2009	To be discussed (and closed) at the TFSDC meeting on 14 September 2009. WMO-WP-09	28-Feb-09	CLOSED	
57	WMO	WGIII 36.24	Action 36.24: WMO to convene a contingency planning workshop in the second half of 2009 in order to investigate critical missions and associated potential contingency actions regarding the new missions implied by the Vision for the GOS in 2025. Deadline: 30 June 2009		(30 Jun 2009) New deadline: 30 Jun 2010	OPEN	
58	EUM	WGIV 36.25	Action 36.25: CGMS Secretariat to propose a revised Terms of Reference for Working Group IV to reflect the fact that it will now also include activities of the CGMS Task Force on satellite data codes. Deadline: 31 December 2008	WMO-WP. Discussed in WGIV and will be taken into account in the revised CGMS agenda. (Action closed and included in new action 37.19).	31-Dec-08	CLOSED	NB: CGMS Charter overall ToR (none for WGs) Reference should be made to charter only. An agenda item will be included in WG IV!



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59	CGMS Members	WGIV 36.26	Action 36.26: CGMS Members to nominate their participants to the CGMS Task Force on Satellite Data Codes. Deadline: 31 January 2009	CMA: sunal@cma.gov.cn EUM: Dr Simon Elliott, Meteorological Operations Division, Tel +49-6151-807385, Fax +49-6151-807??? simon.elliott@eumetsat.int JMA: Mr. Motoo Hayashi, System Engineering Division, MSC Tel: +81-42-493-4976, Fax: +81-42-492-2433 E-mail: mhayashi (at) met.kishou.go.jp NOAA: Thomas Smith (NOAA/NESDIS) thomas.smith@noaa.gov ROSHYDROMET: parkhom@planet.iitp.ru WMO: Jerome Lafeuille jlafeuille@wmo.int, Pierre Kerherve pkerherve@wmo.int, Atsushi Shimazaki ashimazaki@wmo.int WMO-WP-09	31-Jan-09	CLOSED	
60	CGMS Task Force on Codes	WGIV 36.27	Action 36.27: CGMS Task Force on Satellite Data Codes to propose a permanent framework for the activity by CGMS-37. Deadline: CGMS-37	To be discussed at the TFSDC meeting on 14 September 2009. WMO-WP-09	(CGMS-37) New deadline: CGMS-38	OPEN	
61	CMA	WGIV 36.28	Action 36.28: CMA to investigate possibilities for the provision of global FY-3 data to the GTS main trunk network and report back at CGMS-37. Deadline CGMS-37	Discussed in WGIV.	CGMS-37	CLOSED	
62	NOAA	WGIV 36.29	Action 36.29: NOAA to provide CGMS with more information on the reception of GOES-R data sets. Deadline: CGMS-37	NOAA: Response: NOAA wishes to inform CGMS that additional information on the status of GOES-R data reception and consideration to use a multi-cast service to support the dissemination of GOES-R data and products is currently not available. Since the GOES-R Ground System contract was just recently awarded and only in its initial development phase, sufficient information on the design of the direct readout and broadcast service is still being formulated. As these the development of the Ground System continues, NOAA will keep CGMS apprised on the development of these activities.	CGMS-37	CLOSED	
63	NOAA	WGIV 36.30	Action 36.30: NOAA to consider options for a multi-cast service in support of the dissemination of GOES-R data and products and inform CGMS accordingly. Deadline: CGMS-37	See reponse to action WGIV 36.29	CGMS-37	CLOSED	
64	<b>CGMS-36 recommendations</b>						
65	<b>Actionee</b>	<b>Recommendat</b>	<b>Description</b>	<b>Action feedback/closing document</b>	<b>Deadline</b>	<b>Status</b>	
66	CGMS satellite operators	Recommendation 36.01	Recommendation 36.01: CGMS Satellite Operators to keep the WMO Space Programme Office informed of updates of their programmes, satellite and instrument plans to allow the Space Programme Office to incorporate this factual information into Volume I, II and III of the Dossier on the Space-based Global Observing System, as appropriate.	ESA: WMO and CEOS have coordinated inputs about agency plans. Already provided by ESA. JMA-WP-03 NOAA-WP	CGMS-37	CLOSED	
67	WMO	Recommendation 36.02	Recommendation 36.02: WMO to continue to keep the Dossier on the Space-based Global Observing System under review by the relevant groups of experts of WMO Members (e.g. the CBS/OPAG-IOS Expert Teams on Satellite Systems and on Satellite Utilization and Products).		CGMS-37	CLOSED	
68	WMO	Recommendation 36.03	Recommendation 36.03: WMO to coordinate as appropriate with CEOS for further updates of the Dossier on the Space-based Global Observing System, with a view to avoid duplication in the call for input from space agencies, taking into account the updating process of the CEOS Earth Observation Handbook (www.eohandbook.com).		CGMS-37	CLOSED	
69	CGMS satellite operators	Recommendation 36.04	Recommendation 36.04: CGMS satellite operators are invited to take the Vision of the GOS into account when developing their own planning and to report at the next meeting of CGMS on their initiatives to respond and contribute to its implementation.	ESA-WP-01/-02 JMA-WP-03 NOAA-WP	CGMS-37	CLOSED	
70	GSICS Executive Panel	Recommendation 36.05	Recommendation 36.05: GSICS Executive Panel to develop a WIGOS pilot project proposal based on GSICS activities. Deadline: February 2009	NOAA-WP	28-Feb-09	CLOSED	

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71	WMO	Recommendation 36.06	Recommendation 36.06: WMO to maintain the International Polar Year (IPY) Space Task Group (STG) as a mechanism to promote cooperation between major satellite agencies ensuring coordination of their polar observations beyond IPY.	WMO-WP-22	CGMS-37	CLOSED	
72	CGMS Members	Recommendation 36.07	Recommendation 36.07: CGMS Members to continue their coordination of international efforts in securing collection of space-borne "snapshots" of the Polar Regions during the IPY and to give further consideration to the establishment of a preliminary structure for sustaining observations in the future, with the goal to achieve a Polar Satellite Constellation as a significant part of the IPY legacy.	ESA: ESA contributes to the IPY-STG. JMA-WP-06 NOAA-WP	CGMS-37	CLOSED	
73	CGMS web editorial committee	Recommendation 36.08	Recommendation 36.08: The CGMS web editorial committee to evaluate suggesting to CGMS Members the creation of a dedicated CGMS page on their institutional web sites, and to define broad guidelines for the preparation of such a page. Deadline: October 2009 and to report to CGMS-37		31-Oct-09	CLOSED	
74	WMO and EUM	Recommendation 36.09	Recommendation 36.09: Nomination of CGMS representative to attend the 3rd THORPEX International Science Symposium on 9-13 Mar 09 in Monterey, USA. Deadline: 14 February 2009		14-Feb-09	CLOSED	
75	CGMS Members	WGII Recommendation 36.10	Recommendation 36.10: CGMS Members to pursue the provision of further satellite data of common interest via ADDE servers for training and scientific cooperation activities and to report back to CGMS-37.	JMA intends to introduce an ADDE server. NOAA-WP	CGMS-37	CLOSED	
77	GSICS Executive Panel	WGII Recommendation 36.11	Recommendation 36.11: The GSICS Executive Panel to consider establishing in 2009 an end-to-end demonstration toward an operational GSICS by including beta-users in the GSICS process.	NOAA-WP	CGMS-37	CLOSED	
78							
79	CGMS Members	WGII Recommendation 36.12	Recommendation 36.12: All CGMS Members are encouraged to actively participate in GSICS by sending delegates to the Executive Panel meetings, and also to participate in the GSICS Research and Data Working Groups. This invitation addresses, in particular, the research space agencies that are planning long-term missions and data analyses for climate applications.	NOAA-WP Roshydromet fax response to CGMS Secretariat 17 Apr 2009; GSICS Data Management WG, Dr Victor Saulskiy, RC Planeta.	CGMS-37	CLOSED	
80							

	A	B	C	D	E	F	G
81	GSICS GPRCs	WGII	Recommendation 36.13: GSICS GPRCs should compare geostationary observations with both AIRS and IASI to demonstrate consistency and relative stability of AIRS and IASI.		CGMS-37	CLOSED	
82		Recommendation 36.13					
83	CGMS Agencies	WGII	Recommendation 36.14: CGMS Agencies to support aircraft campaigns and other methods for using reference observations to provide independent assessment of the absolute accuracy of satellite observations. Comparisons should be periodic (at least annually) and each campaign needs to be tied to a SI traceable reference.		CGMS-37	CLOSED	
84		Recommendation 36.14					
85	CGMS Members	WGII	Recommendation 36.15: In view of the most recent studies showing the great benefit of hyperspectral sounding to predict the onset of severe weather with much longer lead times and the potential for climate monitoring and improved satellite intercalibration, CGMS sees a firmly established need to fly hyperspectral sounders on next-generation geostationary satellites.		CGMS-37	CLOSED	
86		Recommendation 36.15					
87	CGMS Members	WGII	Recommendation 36.16: CGMS Members to provide Working Papers addressing the seven top concerns of ITWG, as listed in the CGMS-36 WG II Report.		CGMS-37	CLOSED	
88		Recommendation 36.16					
89	CGMS WGII	WGII	Recommendation 36.17: That Dr. Volker Gaertner (EUMETSAT) takes over from Dr. J. Purdom as IPWG rapporteur to CGMS.		CGMS-37	CLOSED	
90		Recommendation 36.17					
91	CGMS Members	WGII	Recommendation 36.18: CGMS Members consider ways to provide additional financial support for attendance at CGMS Science Working Group Meetings, particularly for those participants coming from developing and least developed countries.		CGMS-37	CLOSED	
92		Recommendation 36.18					
93	CGMS Members	WGII	Recommendation 36.19: CGMS Members provide and update the inventory of routinely produced precipitation estimates, either operational or experimental/research, and investigate common methods to describe their error characteristics.	NOAA-WP (EUMETSAT verbal feedback in WGII) Discussed in WGII	CGMS-37	CLOSED	
94	CGMS Members	WGII	Recommendation 36.20: CGMS Members continue to provide data necessary for global, 4-km IR data-products in a timely manner to precipitation product producers.		CGMS-37	CLOSED	
95		Recommendation 36.20					
96	WMO, IPWG Co-Chairs	WGII	Recommendation 36.21: The WMO Space Programme, the IPWG through its Co-chairs, and the WMO Hydrology Programme establish a small team to investigate the feasibility of "Mainstreaming the Operational use of Satellite Precipitation Data and Products" for Meteorological and Hydrological Services.		CGMS-37	CLOSED	
97		Recommendation 36.21					
98	CGMS Members	WGII	Recommendation 36.22: All CGMS members are encouraged to continue or to commence participation in the CGMS AMV intercomparison using the specific MSG image data.	Discussed in WGII. NOAA-WP	CGMS-37	CLOSED	
99		Recommendation 36.22					
100	CGMS Agencies	WGII	Recommendation 36.23: CGMS agencies to report on the height assignment of AMV cloud tracers using additional information on cloud characteristics.	EUM-WP- (same as for WGII 36.19) JMA-WP-05 NOAA-WP	CGMS-37	CLOSED	
101		Recommendation 36.23					
102	ITWG, IPWG	WGII	Recommendation 36.24: CGMS encourages the ITWG and IPWG to consider case studies to intercompare algorithms similar to the activity underway in IWWG.		CGMS-37	CLOSED	
103		Recommendation 36.24					
104	CGMS Members	WGII	Recommendation 36.25: CGMS Members should actively participate in THORPEX field programmes and become engaged in the planning and execution of those programmes.		CGMS-37	CLOSED	
105		Recommendation 36.25					
106	CGMS Members	WGII	Recommendation 36.26: CGMS Members should support the YOTC concept and objectives and, in particular, encourage satellite agencies to facilitate access to relevant satellite data sets and help provide the verification data and products needed to make this project a success.		CGMS-37	CLOSED	
107		Recommendation 36.26					
108	CGMS Members	WGII	Recommendation 36.27: CGMS Members to identify a point of contact to aid in the development of a comprehensive satellite component to the YOTC and for further detailed discussion of satellite requirements to support YOTC.		CGMS-37	CLOSED	
109		Recommendation 36.27					

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110	CGMS Members	WGII Recommendation 36.28	Recommendation 36.28: CGMS Members to consider their participation in the Task Force on Satellite Data Codes to ensure broad and permanent representation of CGMS members.	WMO sent invitation for 14 Sept 2009 mtg to Anlai Sun (CMA); Simon Elliott (EUMETSAT); Akihiro Shimizu (JMA); Thomas Smith (NOAA); George Parkhomenko (Russia) with copy to Milan Dragosavac (ECMWF); Takashi Ohshima (JMA email address); Atsushi Shimazaki (WMO); Barbara Ryan (WMO); Jerome Lafeuille (WMO); Pierre Kerherve (WMO) EUM: Simon.elliott@eumetsat.int	CGMS-37	<b>CLOSED</b>	
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**Actions open from CGMS-33 (at CGMS-35)**

Actionee	Action	Description	Action feedback/closing document	Deadline	Status
EUM; NOAA; WMO	33.24	Action 33.24 EUMETSAT, NOAA together with WMO to develop a EUMETCast to NOAA ADM transition plan for users in South America and report details to CGMS.	<p>NOAA-WP-27 (CGMS-36)</p> <p>WMO-WP-12 (CGMS-36). At its 4th session in September 2008, the CBS Expert Team on Satellite Systems Utilization and Products (ET-SUP) confirmed the requirement for a sustainable coverage of South-America by a DVB-S service containing level 1 data. It pointed out the significant value to South American NMHS of the EUMETCast-Americas service and encouraged agencies to find a way to ensure that the associated requirements continue to be met in the future.</p> <p>During the Regional Training Course organized at the Centre of Excellence in Argentina (22/09-03/10/2008) participants from 13 Central/South American countries confirmed their need for frequent geostationary imagery, reaffirmed the strong interest of GOES-10 at 60°W for South-America, and regretted the lack of low-cost operational receiving systems to get GOES-10 imagery since it is neither present on EUMETCAST, nor in GEONETCast Americas.</p> <p>NOAA-WP-33 (CGMS-35), however, NOAA has positioned its GOES-10 satellite to provide geostationary satellite coverage over South America. GOES-10 data is currently being disseminated via direct broadcast and used operationally. NOAA does not currently have plans to develop ADM capability, but is in the process of developing GEONETCast service.</p> <p>EUM-WP-11 (CGMS-33). WMO-WP-20 (CGMS-33) and WMO-WP-24 (CGMS-35).</p>	(5 Nov 2007) New date: CGMS-36	<b>CLOSED</b>

**Actions open from CGMS 34 (at CGMS-35)**

Actionee	Action	Description	Action feedback/closing document	Deadline	Status
CGMS Members	34.12 WGI	Action 34.12 CGMS members to review Space Frequency Coordination Group (SFCG) Resolution Res A12-1R2 and inform whether this resolution shall be used by CGMS agencies. Deadline: 31 August 2007	<p>Statement and resolution provided by e-mail to CGMS plenary. ESA and NOAA are SFCG members and use RES A12-1R2 for frequency coordination. (ESA-WP-05, CGMS-34; EUM-WP-15, CGMS-35; NOAA-WP-01, CGMS-36)</p> <p>JMA will use RES A12-1R2 for frequency coordination in principle if it is necessary (JMA-WP-01, CGMS-35)</p> <p>Discussed in WGI.</p>	(31 Aug 2007) New date: 31 Jul 08	<b>CLOSED</b>

WMO	34.27	Action 34.27: WMO to set up a Task Force on Codes following the TORs spelled out in WMO-WP-36 and report progress at CGMS 35. Deadline: CGMS-35	The first meeting was convened on 26-27 February 2008. Information and documents are available at: <a href="http://www.wmo.int/pages/prog/sat/meetings/TFSDC-1.html">http://www.wmo.int/pages/prog/sat/meetings/TFSDC-1.html</a> The minutes of meeting can be found at <a href="http://www.wmo.int/pages/prog/sat/Reports.html#TFSDC">http://www.wmo.int/pages/prog/sat/Reports.html#TFSDC</a> Message to plenary on 28 May 2008. EUM-WP-27 WMO-WP-08	07-Nov-07	<b>CLOSED</b>
CGMS satellite operators	34.28	Action 34.28: Each Satellite Operator is invited to nominate an expert to contribute to the WMO led Task Force on codes. Deadline: 31 December 2006	CMA: Anlai Sun, <a href="mailto:sunal@cma.gov.cn">sunal@cma.gov.cn</a> ET-DRC Chairman: Milan Dragosavac, <a href="mailto:milan.dragosavac@ecmwf.int">milan.dragosavac@ecmwf.int</a> EUM: Dr Simon Elliott, <a href="mailto:simon.elliott@eumetsat.int">simon.elliott@eumetsat.int</a> NOAA: Mr Thomas Smith, <a href="mailto:Thomas.Smith@noaa.gov">Thomas.Smith@noaa.gov</a> SRC Planeta/ROSHYDROMET: George Parkhomenko, <a href="mailto:parkhom@planet.iitp.ru">parkhom@planet.iitp.ru</a> Message to plenary on 28 May 2008. CGMS Members are still invited to nominate representatives. EUM-WP-27 WMO-WP-08	31-Dec-06	<b>CLOSED</b> (reopened as a CGMS-36 action)

CGMS 35 actions					
Actionee	Action	Description	Action feedback/closing document	Deadline	Status
CGMS Members	Permanent 01	All CGMS Members to inform the Secretariat of any change in the status or plans of their satellites to allow the updating of the CGMS Tables e-mail, of Satellites (tables 1-6 of the plenary report). The Secretariat to review the tables of current and planned polar and geostationary satellites, and to distribute this updated information, via the WWW Operational Newsletter, via Electronic Bulletin Board, or other means as appropriate. CGMS satellite operators to update table 7 for polar-orbiting satellite equator crossing times on an annual basis. CGMS Members to update the table on polar-orbiting satellite equator crossing times as well as the table on coverage from geostationary satellites. <i>(CGMS-35 permanent actions 02 and 09 were closed and are partly incorporated in permanent action 01).</i>	CMA and ROSHYDROMET by e-mail ESA-WP-05 EUM included in the final report JMA-WP-02/-03 KMA-WP-02 NOAA-WP-02&03, 05&06, 30	CGMS-36	CLOSED
CGMS satellite operators	Permanent 02	CGMS Members to report on spacecraft anomalies from solar events at CGMS meetings. <i>NB The Secretariat has included the word "spacecraft" in this permanent action since CGMS-35</i>	CMA-WP-04 EUM-WP-05 NOAA-WP-04 See also <a href="http://www.swpc.noaa.gov/dregion/index.html">http://www.swpc.noaa.gov/dregion/index.html</a>	CGMS-36	CLOSED
CGMS Members	Permanent 03	CGMS Members to provide information for the WMO database of satellite receiving equipment, as appropriate.	JMA: By e-mail. Document is available in the JMA directory on the ftp-server. NOAA-WP-25	CGMS-36	CLOSED
CGMS Members	Permanent 04	CGMS Members to review the list of available list servers used by CGMS groups and update as appropriate.	CMA, CNES, JAXA, KMA, ROSHYDROMET, WMO by e-mail. ESA-WP-05 JMA-WP-01 NOAA-WP-01	CGMS-36	CLOSED
CGMS Members	Permanent 05	CGMS satellite operators to consider the IOC satellite requirements, especially the data dissemination methods, bearing in mind the ongoing formations of GOOS Regional Alliances (GRAs).	ESA-WP-04, EUM-WP-09 (NOAA-WP-29, CGMS-34)	CGMS-36	CLOSED
CGMS Members	Permanent 06	CGMS Members to consider WMO Core Metadata profiles within the context of the ISO Standard for Geographic Metadata (ISO 19115).	The Secretariat proposes to close this action. The topic has been incorporated in the CGMS-36 WGII Order of Business. NOAA-WP-01	CGMS-36	CLOSED
NOAA	35.01	Action 35.01: NOAA to provide more detailed information on the DMSP satellite system. Deadline: CGMS-36	NOAA-WP-02&03. IPWG to be approached to provide specific details on the mission. The CEOS Earth Observation Handbook also provides information on this matter available on <a href="http://www.eohandbook.com">www.eohandbook.com</a> <i>Ref. to e-mail</i>	(CGMS-36) New deadline: CGMS-37	OPEN
NASA	35.02	Action 35.02: CGMS invited NASA to provide information on its current R&D Earth Observation satellites. Deadline: CGMS-36	NOAA will investigate if they can disseminate the NASA Decadal report to CGMS	(CGMS-36) New deadline: 31 Dec 2008	OPEN



CMA, CNSA, WMO	35.03	<p>Action 35.03: CMA/CNSA and WMO will cooperate in finalising the work of the GEO-Microwave Focus Group that, according to its Terms of Reference and taking into account the work already done, should:</p> <ul style="list-style-type: none"> <li>- define a mission scenario attempting to converge with results of feasibility studies in China as they become progressively available;</li> <li>- identify mission components suitable for international partnerships and preliminary assess the realism of collecting the interest of prospective partners;</li> <li>- draft a proposal to the group of prospective partners, including work plan and schedule; and present it to CGMS-36, that implies that CMA/CNSA commit to act as Leading Agency.</li> </ul> <p>Deadline: CGMS-36, preceded by a presentation at a last meeting of the Focus Group possibly to be held tentatively with the next IPWG meeting in Beijing in autumn 2008.</p>	<p>FG-5 meeting held in conjunction with the 4th Workshop of the IPWG (13-17 October 2008).</p> <p>WMO-WP-15 A proposal document for a GEO MW mission was completed and is provided as background information to Document CGMS-36 WMO-WP-15. The 5th IGEOLab Focus Group meeting on GEO MW was convened on 15-16 October 2008 during IPWG. However, as explained in WMO-WP-15, the discussion was not conclusive; no agency is currently in a position to take the lead of the project</p>	IPWG 2008 and CGMS 36	<b>CLOSED</b>
CNSA	35.04	Action 35.04: CNSA to inform WMO of the data policy for the HY-2 satellite after completion of HY-2 phase B studies. Deadline: CGMS-36	CNSA-WP-05	CGMS-36	<b>CLOSED</b>
CGMS Members	35.05	Action 35.05: CGMS Members to indicate to JAXA their interest in having access to GOSAT data (kawai.takayuki@jaxa.jp and umezawa.kazuo@jaxa.jp). Deadline: CGMS-36	<p>GOSAT: Greenhouse gases observing satellite. Monitoring of the distribution of the density of carbon dioxide. JMA started discussion with JAXA about cooperation on the GOSAT project such as utilization of the data/products. ESA is coordinating with JAXA (ESA-WP-05). NOAA contacted JAXA. WMO-WP-13. WMO confirmed to JAXA the strong interest from GAW, GCOS and WCRP.</p>	CGMS-36	<b>CLOSED</b>
CGMS Members	35.06	Action 35.06: CGMS Members to provide feedback [on the gap analysis] to WMO (bibizzar@tin.it). Deadline: On a continuous basis, and for review at CGMS-36.	<p>EUMETSAT provided an input via WMO (GSICS meeting, July 08). WMO-WP-16. An updated set of documents including the Gap Analysis is provided in attachment to the WP.</p>	continuous and CGMS-36	<b>CLOSED</b>
EUM, NOAA, WMO	35.07	Action 35.07: CGMS to form a small focus group to consider the recommendation "establish a new international science working group on the theme of climate and calibration", and to report their finding back to CGMS-36. The focus group to be composed of Dr Schmetz, EUMETSAT, Dr Goldberg NOAA/NESDIS, and Dr Purdom, Chairperson WMO OPAG-IOS. Deadline: May 2008 and to report at CGMS-36	<p>Report from the GCOS/WCRP Atmospheric Observation Panel for Climate (AOPC, 14th session) is available at <a href="http://gcos.wmo.int">http://gcos.wmo.int</a> It was recommended that no new WG is created (page 6, point 47). CGMS plenary message sent on 1 July 08. NOAA-WP-01</p>	30 May 2008; CGMS-36	<b>CLOSED</b>
WMO	35.08	Action 35.08: WMO (supported by CGMS Members) to update their THORPEX Focal Points and Contacts given in Table 1, Annex 2 of WMO-WP-09 to CGMS THORPEX Rapporteur. Deadline: 1 December 2007	<p>Information provided by ESA and EUM via cgmssplen listserver 29/30 Nov 07. CLOSED for EUM; ESA (Herland has been nominated) WMO-WP-06 Discussed in WGII</p>	01-Dec-07	<b>CLOSED</b>
EUM	35.09	Action 35.09: EUMETSAT to prepare a paper on its SAF activities for the Bulletin of the Meteorological Society. Deadline: CGMS-36	This has been deferred to EUMETSAT.	CGMS-36	<b>CLOSED</b>
WMO	35.10	Action 35.10: WMO to contact IMD with a view to clarifying its plans as co-sponsor of the VL Centre of Excellence in Oman. Deadline: 31 December 2007	<p>VL management meeting to take place in Sept 2009. WMO-WP-20. At ET-SAT/SUP-4 in September 2008, the representative from ISRO indicated that ISRO was considering to co-sponsor the Oman CoE.</p>	31-Dec-07	<b>CLOSED</b>

CGMS Members	35.11	Action 35.11: All CGMS Members to nominate points of contact to support the CGMS website editorial committee. Deadline: 31 December 2007	ESA: TBD EUM: anne.taube (at) eumetsat.int, piero.valabrega (at) eumetsat.int JMA/MSC: Mr. Motoo Hayashi, System Engineering Division Tel: +81-42-493-4976, Fax: +81-42-492-2433, E-mail: mhayashi (at) met.kishou.go.jp NOAA: daniel.muller (at) noaa.gov WMO: jlafeuille (at) wmo.int	(31 Dec 2007) New deadline: 31 Dec 2008	OPEN
WMO, EUM	35.12	Action 35.12: WMO and CGMS Secretariat to establish a CGMS web editorial committee by March 2008 in order to guide the completion and further enhancement of the CGMS website and the ftp server and ensure their sustainability. Deadline: March 2008 and to report to CGMS-36	EUM-WP-13 Action was deferred due to lack of availability on both sides.	(CGMS-36) New deadline: 31 Mar 2009	OPEN
EUM	35.13 WGI	Action 35.13: CGMS Secretariat, with assistance of WMO, to prepare a draft letter to FCC expressing its concerns over the potential RF power increase for unlicensed fixed services devices around 60 GHz. Deadline: 30 November 2007	Letter submitted online with the FCC on 9 November 2007 (only online submissions accepted by the FCC).	30-Nov-07	CLOSED
WMO	35.14 WGI	Action 35.14: WMO to confirm its requirement for the continued use of the CGMS coordinated IDCS to support its ASAP programme, and to assist with the promotion of the IDCS for potential future ASAP operators. Deadlines: CGMS-36	EUM-WP-15/16/17 WMO does not confirm such requirement and does not promote the use of IDCS for ASAP since, as indicated at CGMS-35, ASAP operators prefer other telecommunication systems.	CGMS-36	CLOSED
NOAA	35.15 WGI	Action 35.15: NOAA to organise with other IDCS coordinator agencies (CMA, JMA, EUMETSAT) a meeting to discuss the future use and technical aspects of the IDCS. The participation of other CGMS Members would be welcomed. Deadline: 30 April 2008	Discussed in WGI. EUM-WP-18/19 NOAA-WP-01	30-Apr-08	CLOSED
WMO	35.16 WGII	Action 35.16: WMO to distribute the RGB Workshop report and present representative examples of RGB schemes on the WMO web site. Deadline: 31 January 2008	This report is available at: <a href="http://www.wmo.int/pages/prog/sat/documents/RGB_workshop_final_report_rev1.pdf">http://www.wmo.int/pages/prog/sat/documents/RGB_workshop_final_report_rev1.pdf</a> An introduction to RGB examples was prepared for the web pages but not finalized because of image size constraints on the WMO web site.	31-Jan-08	CLOSED
CMA, EUM, JMA, NOAA, WMO	35.17 WGII	Action 35.17: VL partners to implement RGB schemes for training use within the WMO Virtual Laboratory. Deadline: CGMS-36	(EUM-WP-12) JMA posted a RGB schemes training material on JMA's VRL website at <a href="http://mscweb.kishou.go.jp/VRL/index.htm">http://mscweb.kishou.go.jp/VRL/index.htm</a> . NOAA-WP-01 and -08 WMO has published the results of the RGB Workshop in 2007 on their web site.	CGMS-36	CLOSED
WMO	35.18 WGII	Action 35.18: GSICS GCC to propose web-based interface to other satellite agencies for near-real-time instrument monitoring. Deadline: CGMS-36	Input provided to GSICS (meeting July '08). NOAA-WP-14	CGMS-36	CLOSED
NOAA	35.19 WGII	Action 35.19: NOAA/NESDIS to send to all CGMS members the URL of web sites on climate products described in NOAA-WP-29. Deadline: 31 December 2007	NOAA-WP-31	31-Dec-07	CLOSED
NOAA	35.20 WGII	Action 35.20: NOAA/NESDIS to include information on global and regional anomalies in their products as well. Deadline: CGMS-36	NOAA-WP-14	CGMS-36	CLOSED
JAXA, NASA	35.21 WGII	Action 35.21: NASA and JAXA to report on status and plans for GPM at CGMS-36. Deadline: CGMS-36	JAXA-WP-04 NASA-WP-01	CGMS-36	CLOSED
CGMS Members	35.22 WGII	Action 35.22: CGMS Members to report on precipitation estimation and validation activities at CGMS-36. Deadline: CGMS-36	CMA-WP-08 ESA: There are no planned campaigns at ESA. EUM-WP-23 NASA-WP-02 NOAA-WP-19	CGMS-36	CLOSED

Satellite operators (+ WMO)	35.23 WGII	Action 35.23: The Task Force on codes to consider possible use of additional data formats for satellite product dissemination and archive delivery, and report to CGMS. Deadline: CGMS-36	The first Task Force on Codes met on 26-27 February 2008. The agenda included the use of different formats. Working document: <a href="http://www.wmo.int/pages/prog/sat/meetings/TFSDC-1.html">http://www.wmo.int/pages/prog/sat/meetings/TFSDC-1.html</a> The Task Force noted in particular the increasing demand on NetCDF. Report: <a href="http://www.wmo.int/pages/prog/sat/Reports.html#TFSDC">http://www.wmo.int/pages/prog/sat/Reports.html#TFSDC</a> Message to plenary 28 May 2008.  EUM-WP-27 NOAA-WP-01	CGMS-36	CLOSED
Satellite operators (current and future + WMO)	35.24 WGIII	Action 35.24: CGMS current and future satellite operators to review their possible flexibilities to adjust the nominal locations of their baseline geostationary satellites and to provide the information at the next CGMS session. Deadline: CGMS-36	Discussed in WGIII. JMA-WP-03 KMA-WP-01: COMS has three missions: communication, ocean and atmosphere monitoring. Due to another two missions of the different organizations, i.e., communication (ETRI) and ocean monitoring (KORDI), the flexibilities of COMS (orbit is 128.2E) will be highly limited. NOAA-WP-01: NOAA would be willing to entertain movement within existing physical and frequency constraints +/- 5 degrees.	CGMS-36	CLOSED
CMA, ROSH, EUM, NOAA	35.25 WGIII	Action 35.25: Each CGMS polar orbiting satellite operator to consider providing to all other polar orbiting satellite operators, and to the direct readout community, their processing software necessary to produce Level 1B data from the direct broadcast data stream, and to provide the technical specifications for their direct broadcast data stream necessary to produce Level 1B data. Deadline: 31 March 2008	Discussed in WGIII. NOAA-WP-01, also available in the CGMS-36 NOAA directory on the CGMS ftp server.	31-Mar-08	CLOSED
EUM	35.26 WGIV	Action 35.26: EUMETSAT to provide CGMS with the results of the Post-EPS, Phase 0 studies, in particular, results pertaining to data dissemination. Deadline: CGMS-36	Discussed in WGIV. See also plenary papers EUM-WP-06 and -07. Further information will be provided at CGMS-37.	CGMS-36	CLOSED
EUM	35.27 WGIV	Action 35.27: EUMETSAT to provide CGMS with the results of the MTG trade-off studies, in particular, results pertaining to the MTG data dissemination system. Deadline: CGMS-36	EUM-WP-08	CGMS-36	CLOSED
Satellite operators	35.28 WGIV	Action 35.28: Satellite operators to provide WMO with detailed information, on all the methods available, or planned, for operational data access from each of their satellites contributing to the GOS, via relevant URL of the satellite operator's web page. This detailed information shall include the designation of the dissemination or retrieval services, their summary contents, formats used, and technical characteristics such as:  <ul style="list-style-type: none"> <li>• For real-time dissemination via the satellite itself (Direct Broadcast): frequency, bandwidth, data rate (uncompressed);</li> <li>• For Real-time dissemination through multi-mission satellite dissemination system (Advanced Dissemination Methods): satellite name, location, frequency band, area covered, data rate (uncompressed);</li> <li>• For Real-time dissemination via Internet FTP: address;</li> <li>• For On-line data retrieval : address;</li> <li>• URL for precise information on data access modalities</li> </ul> Deadline: May 2008, and to report at CGMS-36	Discussed in Working Group IV. CMA-WP-10 (ESA-WP-03, CGMS-35) EUM-WP-29 JMA: See JMA's web site: <a href="http://www.jma.go.jp/jma/jma-eng/satellite/ds.html">http://www.jma.go.jp/jma/jma-eng/satellite/ds.html</a> and <a href="http://www.jma.go.jp/jma/jma-eng/satellite/index.html">http://www.jma.go.jp/jma/jma-eng/satellite/index.html</a> NOAA's response is available in the CGMS-36 NOAA directory on the CGMS ftp server. WMO-WP-21	31 May 2008; CGMS-36	CLOSED

WMO, EUM	35.29 WGIV	Action 35.29: WMO/CGMS Secretariat to collect the data access information from satellite operators and make it available through the CGMS and/or WMO websites. Deadline: CGMS-36	EUM-WP-29 WMO-WP-13. Link to the JMA web site was posted at: <a href="http://www.wmo.int/pages/prog/sat/Onlineproducts.html">http://www.wmo.int/pages/prog/sat/Onlineproducts.html</a> It is considered to redesign this part of the WMO Space Programme website when more input from satellite operators will be available. WMO-WP-21	CGMS-36	<b>CLOSED</b>
CGMS Members	35.30 WGIV	Action 35.30: CGMS members to report on their use of compression techniques (from the operational and user perspectives) for current and future satellite systems. Deadline: CGMS-36	Discussed in WGIV. CLOSED for ESA: At application level ESA applies compression in different parts of the G/S: Data archiving: Compression is applied on the tape archive at HW level. Algorithm used is a variation of LZ (Lempel-Ziv). Internal data transfer: Mainly ZIP used for selected data that compress well to transfer data from one centre to another or internally in a centre.. Products distribution: ESA normally uses two types of compression for distribution of products to the end users: standard ZIP and JPEG2000/Wavelet. In DDS we are sending products compressed with GZIP. NO compression applied at network level  EUM-WP-27 JMA-WP-03 NOAA-WP-26	CGMS-36	<b>CLOSED</b>
NOAA, EUM	35.31 WGIV	Action 35.31: NOAA and EUMETSAT to study possibilities for the use of NPOESS ground infrastructure to improve the timeliness of Metop data, within the framework of JPS discussions and report findings to CGMS. Deadline: CGMS-36	Discussed in WGIV. NOAA: NOAA and EUMETSAT are engaged in ongoing discussions regarding the use of NOAA ground infrastructure to improve timeliness of Metop data.	(4 Nov 2008) New date: CGMS-37	<b>OPEN</b>
CGMS Members	35.32 WGIV	Action 35.32: CGMS members involved with the IGDDS to consider applying as DCPCs within the context of the IGDDS and WIS, in consultation with WMO. Deadline: May 2008	Discussed in WGIV. WMO-WP-13 WMO was informed of the intention of JMA to prepare an application. Letter sent by WMO Oct 2008 to all WMO Members and EUMETSAT, informing on the process of GISC/DCPC designation, and inviting to notify their intention to apply.	(31 May 2008) New deadline: 31 Dec 2008	<b>OPEN</b>
CGMS Members	Recommendation 35.01	Recommendation 35.01: CGMS Members were invited to use the Gap Analysis as a reference for further discussions on the evolution of the GOS and global planning of future missions.	(See also action 35.06). CNSA-WP-04	CGMS-36	<b>CLOSED</b>
Satellite operators (+ WMO)	Recommendation 35.02 WGII	Recommendation 35.02: Satellite operators are requested to provide near real-time monitoring of instrument performance on easily accessible websites and to archive the information.	GSICS data archive. ESA: Noted. Useful information can be found at <a href="http://wgcv.ceos.org">http://wgcv.ceos.org</a> EUM-WP-20/21 JMA-WP-05. JMA contribution provided via cgmsplen on 4 Jul 08 and is available at <a href="http://mscweb.kishou.go.jp/monitoring/calibration.htm">http://mscweb.kishou.go.jp/monitoring/calibration.htm</a> Intercalibration results can be observed at <a href="http://mscweb.kishou.go.jp/monitoring/gsics/ir/gsir_mt1r.htm">http://mscweb.kishou.go.jp/monitoring/gsics/ir/gsir_mt1r.htm</a> Guidance on using charts <a href="http://mscweb.kishou.go.jp/monitoring/gsics/ir/techinfo.htm">http://mscweb.kishou.go.jp/monitoring/gsics/ir/techinfo.htm</a> NOAA-WP-14	CGMS-36	<b>CLOSED</b>

	Recommendation 35.03 WGII	Recommendation 35.03: Continue aircraft campaigns with SI traceable instruments to provide absolute calibration opportunities for critical satellite instruments, such as IASI, AIRS and CrIS.	Discussed in WGII.	CGMS-36	CLOSED
Satellite operators (+ WMO)	Recommendation 35.04 WGII	Recommendation 35.04: Satellite operators to explain significant discrepancies in satellite inter-calibration as part of their contribution to GSICS. Pertinent reports should be delivered to the GCC.	CMA-WP-07 ESA: Noted: To be coordinated with CEOS Cal/Val WG NOAA-WP-12 WMO: Information available on WMO/GCC website.	CGMS-36	CLOSED
	Recommendation 35.05 WGII	Recommendation 35.05: In view of the positive impact of radio-occultation measurements on NWP forecasts CGMS expresses strong support to future plans for the continuation of radio-occultation measurements from constellations with adequate coverage.	Discussed in WGII.	CGMS-36	CLOSED
CGMS Members	Recommendation 35.06, WGII	Recommendation 35.06: CGMS encourages continuation of the generation of long-term satellite-based climatologies.	Discussed in WGII. ESA-WP-03 (EUM-WP-09) JMA-WP-05 NOAA-WP-17	CGMS-36	CLOSED
CGMS Members	Recommendation 35.07 WGII	Recommendation 35.07: CGMS members to respond to recommendation 34.15 should finalise the first phase of the project (i.e. the processing of the AMVs with their own operational AMV algorithm without any modification) before IWW9 and discuss the results.	EUM-WP- 25 JMA-WP-06 NOAA-WP-??	31-Jan-08	CLOSED
EUM	Recommendation 35.08 WGII	Recommendation 35.08: IWW9 should discuss the results from the height assignment studies based on advanced instruments on the A-train. The co-Chairs of IWWG are invited to provide a summary report to CGMS-36.	EUM-WP- 25	30 Apr 08 CGMS-36	CLOSED
EUM	Recommendation 35.09 WGII	Recommendation 35.09: IWW9 should discuss the results of the studies using the images simulated from NWP model output to track AMVs. Co-Chairs of IWWG are invited to provide a summary report to CGMS-36 on results of the ongoing studies on deriving AMVs from images simulated from NWP model. The report should address both the imagers as well as the hyperspectral sounders.	EUM-WP- 25	30 Apr 08 CGMS-36	CLOSED
ESA	Recommendation 35.10 WGII	Recommendation 35.10: Direct retrievals of wind fields from Doppler Wind Lidars need to be continued beyond the ESA ADM mission.	ESA has initiated plans for an ADM follow-on.	CGMS-36	CLOSED
EUM	Recommendation 35.11 WGII	Recommendation 35.11: IWW9 should discuss the height allocation to atmospheric layers and pursue tests within NWP assimilation and forecast systems.	EUM-WP- 25	30-Apr-08	CLOSED
EUM	Recommendation 35.12 WGII	Recommendation 35.12: CGMS 35 recommends to put the CGMS wind statistics on the new IWWG web site and to discuss at IWW9 whether a strict adherence to CGMS collocation criteria should be followed and whether the criteria need to be re-defined.	EUM-WP- 25	30-Apr-08	CLOSED
CGMS Members	Recommendation 35.13 WGII	Recommendation 35.13: CGMS members are encouraged to present papers demonstrating the possibilities of advanced sounding for analysing convective instability of the atmosphere, particularly utilising information from the hyperspectral sounders AIRS and IASI.	EUM-WP-26 NOAA-WP-15	CGMS-36	CLOSED
Satellite operators (+ WMO)	Recommendation 35.14 WGII	Recommendation 35.14: Future satellite sensors are expected to be used for fire monitoring; relevant channels and sensors should be adequately characterised for this application. The matter should be part of the pertinent work under GSICS.	To be discussed in WGII. NOAA-WP-21	CGMS-36	CLOSED
Satellite operators	Recommendation 35.15 WGII	Recommendation 35.15: CGMS satellite operators to consider making a data interface available such as ADDE servers so that McIDAS-V and HYDRA can be applied to their data. Deadline:	EUM-WP-28 NOAA-WP-23	CGMS-36	CLOSED
CGMS Members	Recommendation 35.16 WGII	Recommendation 35.16: CGMS Members to continue to support activities of the three International Working Groups (ITWG, IWWG and IPWG) particularly upcoming science meetings in 2008.	Discussed in WGII. Ongoing. ESA generally supporting such WGs EUM-WP-25 JMA-WP-01: JMA dispatched an expert on AMV to IWWG-9. JMA will host the IWWG-10 in the first quarter of 2010.	2008 GMS-36	CLOSED

## CGMS 34 actions

Actionee	Action	Description	Closing document	Deadline	Status
CGMS Members	Permanent 01	Permanent 01. All CGMS Members to inform the Secretariat of any change in the status or plans of their satellites to allow the updating of the CGMS Tables e-mail, of Satellites (tables 1-7). The Secretariat to review the tables of current and planned polar and geostationary satellites, and to distribute this updated information, via the WWW Operational Newsletter, via Electronic Bulletin Board, or other means as appropriate. CGMS satellite operators to update table 7 for polar-orbiting satellite equator crossing times on an annual basis. CGMS Members to update the table on polar-orbiting satellite equator crossing times as well as the table on coverage from geostationary satellites. (Permanent actions 02 and 09 of CGMS-35 were closed and incorporated in permanent action 01).	CNES e-mail input (no change). CMA-WP-02/03/04/05 (annexes); CNSA-WP01/02; EUM-WP-02; ESA-WP-01; JMA-WP-02/03; KMA-WP-02; NOAA-WP-02/03/05/06/37. See also <a href="http://cgms.wmo.int">http://cgms.wmo.int</a>	07-Nov-07	
CGMS satellite operators	Permanent 02	Permanent 02. All CGMS satellite operators to review the Transition Tables for LRIT/LRPT (appendix A of CGMS-31 WMO-WP-03) and provide any updates as appropriate at every CGMS plenary meeting.	EUM-WP-02; JMA-WP-02;KMA-WP-02; NOAA-WP-35.  WMO: Transition to HRIT/LRIT and HRPT/LRPT soon completed except for NOAA-POES series, and new dissemination approaches are being implemented (including DVB-S, Internet). It is suggested to close this action and to ask WG IV to propose a new and broader action requesting the provision of the list of dissemination means available for each satellite mission.	07-Nov-07	CLOSED
CGMS Members	Permanent 03	Permanent 03. CGMS Members to report on spacecraft anomalies from solar events at CGMS meetings.	ESA-WP-07; EUM-WP-05; NOAA-WP-04;	07-Nov-07	
CGMS Members	Permanent 04	Permanent 04. CGMS Members to provide information for the WMO database of satellite receiving equipment, as appropriate.	EUM: Operations biannual report via CGMS plenary listserver. JMA: Provided to WMO by e-mail 26 Sep 2007. NOAA-WP-26 WMO has temporarily suspended the database on-line access pending review and update of the content (Oct 2007).	07-Nov-07	
CGMS Members	Permanent 05	Permanent 05. CGMS Members to review the list of available list servers used by CGMS groups and update as appropriate.	continuous/ongoing. ESA-WP-07, sent by e-mail; JMA by e-mail; NOAA by e-mail; WMO-WP-15	07-Nov-07	
CGMS satellite operators	Permanent 06	Permanent 06. CGMS satellite operators to consider the IOC satellite requirements, especially the data dissemination methods, bearing in mind the ongoing formations of GOOS Regional Alliances (GRAs).	ESA-WP-04. NOAA-WP-29 (CGMS-34)	07-Nov-07	
CGMS Members	Permanent 07	Permanent 07. CGMS Members to consider the WIS (WMO Information System) concept (notion of DCPC [Data Collecting Product Centre], catalogue/metadata standards, protocols) when changing/implementing processing and dissemination systems. <i>After confirmation from WMO, this action has been closed as it is now more appropriately taken into account in Action 35.32.</i>	EUM: Portal project started with the hope to have something ready by 2008 and to take the WIS concept into consideration. Status of portal to be reported at CGMS-36. NOAA continues to investigate the WIS concept.	07-Nov-07	CLOSED
CGMS Members	Permanent 08	Permanent 08. CGMS Members to consider WMO Core Metadata profiles within the context of the ISO Standard for Geographic Metadata (ISO 19115).	EUM-WP-18 NOAA's response to consider the WMO Core Metadata profiles remains the same as stated in their response at CGMS-XXXII. However, NOAA continues to investigate the WMO Core Metadata profiles within the context of the ISO Standard for Geographic Metadata (ISO 19115). CGMS will be informed of any changes in the NOAA position.	07-Nov-07	
CGMS satellite operators	Permanent 09	Permanent 09. All CGMS satellite operators to update the WMO generated tables indicating transition of broadcast services of satellites in polar and geostationary orbit, and inform the Secretariat accordingly.	EUM-WP-02; JMA-WP-02; KMA-WP-02; NOAA-WP-35. It is proposed to close this action (see WMO input to permanent action 02).	07-Nov-07	CLOSED

CGMS 34 actions					
Actionee	Action	Description	Closing document	Deadline	Status
CMA;WMO;CNSA	34.01	Action 34.01 CNSA/CMA and WMO to organise the 4th IGeoLab GEO-Microwave Focus Group meeting (FG-4) in China, with a goal to review scientific and technological elements in support of a possible Chinese undertaking in respect of FY-4M. Deadline: Before 30	IGEOlab GEO MW FG4 was held at CMA in Beijing on 12-13 April 2007 and the report was circulated by e-mail to Plenary. WMO-WP-04.	29-Jun-07	CLOSED
WMO	34.02	Action 34.02 WMO to convene a Task Group to determine the interest of space agencies for an IGeoLab mission based on Molniya orbits. Deadline: CGMS-35	Task Group convened in Moscow, 24 Apr 2007 and Geneva 9-10 Oct 2007. WMO-WP-03.	07-Nov-07	CLOSED
ESA	34.03	Action 34.03 ESA to check whether it is envisaged that ECMWF will further distribute ADM AEOLUS level 2 data to other NWP centres. Deadline: CGMS-35	ESA-WP-03. ECMWF allowed to distribute levels 1b, 2b and 2c to met user community for any use. Registration according to procedures.	07-Nov-07	CLOSED
WMO	34.04	Action 34.04 WMO to organise a second Workshop on optimisation of GEO and LEO satellite plans to monitor progress in implementing the recommendations from the first Workshop and extend considerations to detailed instrument capability, taking into account	Workshop held 21-22 June 2007. Report to be presented at CGMS-35. ESA attended. WMO-WP-05/06.	15-Sep-07	CLOSED
EUM	34.05	Action 34.05 EUMETSAT to convene and lead a Task Force to assess possibilities for sharing ground segment facilities for radio-occultation missions and report at CGMS-35. EUMETSAT point of contact Dr Kenneth Holmlund (kenneth.holmlund@eumetsat.int). Deadline: CGMS-35	EUM-WP-09	07-Nov-07	CLOSED
WMO	34.06	Action 34.06 WMO shall set up a RARS implementation group with participation of CGMS members involved in RARS, in accordance with the draft Terms of Reference proposed in Appendix of CGMS-34 WMO-WP-28. Deadline: June 2007	RARS Workshop held 3-4 July 2007. Report available at <a href="http://www.wmo.int/pages/prog/sat/Reports.html#RARSIG">http://www.wmo.int/pages/prog/sat/Reports.html#RARSIG</a> . WMO-WP-25.	30-Jun-07	CLOSED
WMO	34.07	Action 34.07 WMO, with the support of ET-SAT, to refine the response to GCOS requirements on the basis of WMO-WP-37. Deadline: CGMS-35	Meeting held 3-7 Sept 2007. NASA to develop customised interface with Global Change Master Directory on-line portal to facilitate access to GCOS-related satellite data. ESA involved in ET SAT.  WMO-WP-01; ET-SAT-3 has reviewed the response to GCOS requirements on 3-7 September with GCOS Secretariat. Following action was agreed: Action ET-SAT-3.11 M. King to provide an interface, to be developed by NASA/GSFC, to the Global Change Master Directory portal ( <a href="http://www.gcmd.nasa.gov">www.gcmd.nasa.gov</a> ) in order to facilitate browsing and retrieval of instrument data that have been identified as relevant for FCDRs of GCOS Essential Climate Variables. (end November 2007)	07-Nov-07	CLOSED
WMO	34.08	Action 34.08 WMO to coordinate with CEOS to ensure that CGMS and CEOS provide consistent responses to GCOS requirements and complement each other's efforts. Deadline: CGMS-35	ESA is involved in both CEOS and CGMS. EUM-WP-14. WMO: WMO Space Programme and CEOS Chair have kept each other informed of their activities and cooperated on this issue, namely through participation of CEOS Constellations in the Second Re-design and Optim	07-Nov-07	CLOSED
CGMS Members	34.09	Action 34.09 CGMS to continue its support of the VL, its structure and goals, and requests a full report on VL implementation (from the VL Management Group Meeting in 2007) be presented to CGMS-35. Deadline: CGMS-35	EUM-WP-12; JMA submitted the activity report for VL to VLMG-3 on 4 June 2007; NOAA-WP-10;	07-Nov-07	CLOSED
EUM	34.10	Action 34.10 The Secretariat to contact the IPWG Chairpersons to invite inputs for WRC 2007, and whenever appropriate, to the Chair of WGI - Telecommunications, concerning the requirements for frequency bands for advanced sensors operating at frequencies	Discussed in WGI. An IPWG on Microwave frequency protection report has been provided including parameters of required frequency bands for passive MW observations. This information will be forwarded to SFCG to be included into the relevant SFCG recommendation.	07-Nov-07	CLOSED



**CGMS 34 actions**

Actionee	Action	Description	Closing document	Deadline	Status
WMO	34.11	Action 34.11 WMO to confirm nomination of a frequency management expert representing CGMS at SFCG on an annual basis (currently Mr Robert Wolf). Deadline: CGMS-35	Meeting held 3-7 Sept 2007. NASA to develop customised interface with Global Change Master Directory on-line portal to facilitate access to GCOS-related satellite data. ESA involved in ET SAT.  WMO-WP-01; ET-SAT-3 has reviewed the response to GCOS requi	07-Nov-06	CLOSED
CGMS Members	34.12	Action 34.12 CGMS members to review Space Frequency Coordination Group (SFCG) Resolution Res A12-1R2 and inform whether this resolution shall be used by CGMS agencies. Deadline: 31 August 2007	ESA and NOAA are SFCG members and use RES A12-1R2 for frequency coordination. EUM-WP-15 Statement and resolution provided by e-mail to CGMS plenary.	(31/08/2007) New date: 31 Jul 08	OPEN
EUM;WMO	34.13	Action 34.13 CGMS Secretariat, with the support of WMO, to respond to SFCG Liaison statement as soon as possible. Deadline: 15 December 2006	Statement and resolution provided by e-mail to CGMS plenary. EUM-WP-15. WMO-WP-18	15-Dec-06	CLOSED
CMA;KMA	34.14	Action 34.14 CMA and KMA to consider nominating a representative to the expert group related to meteorological satellite service matters of SFCG. Deadline: 31 December 2006	Dr. Bong-Ju Lee, Senior Engineer, Environmental and Meteorological Satellite Division, KMA, bjlee@kma.go.kr Mr. Zhiqing ZHANG, CMA, zqzhang@nsmc.cma.gov.cn	31-Dec-06	CLOSED
EUM	34.15	Action 34.15 EUMETSAT to inform CGMS Members when it has determined which three IDCS channels will be allocated for Tsunami monitoring purposes. Deadline: 31 December 2006	Additional international channels number 17, 19 and 21. Information provided via the plenary list server.	31-Dec-06	CLOSED
WMO	34.16	Action 34.16 WMO to inform CGMS Members via the Secretariat when the ASDAR programme is terminated so that the Secretariat can reallocate ASDAR IDCS channel to other purposes. Deadline: 31 December 2006	On 20 March 2007, WMO informed CGMS Secretariat that the last ASDAR unit had been deactivated on 20 February 2007 and that the ASDAR IDCS channels could be reallocated to other applications.	31-Dec-06	CLOSED
EUM	34.17	Action 34.17 The Secretariat, in coordination with NOAA, to initiate the discussions of the ad hoc IDCS Working Group by proposing an agenda, schedule and priority of discussion topics, follow up of discussions and report results to CGMS on a regular basi	To be discussed in WGI. EUM-WP-17.	07-Nov-07	CLOSED
CMA	34.18	Action 34.18 CMA is requested to put the software for image enhancement and analysis on a server for download by CGMS members. Deadline: 31 December 2006	Provided by e-mail on 7 Feb 2007: ftp server ftp://nsmc-ftp.cma.gov.cn username: bangsh password: ban123	31-Dec-06	CLOSED
CGMS Members	34.19	Action 34.19 CGMS members to explore the potential of the Open Archival Information System Reference Model (OAIS-RM) as a framework for long-term satellite information preservation for enhancing interoperability of current, future, and historical data set	EUM-WP-18, NOAA-WP-39	07-Nov-07	CLOSED
NOAA	34.20	Action 34.20 NESDIS is invited to provide a paper to CGMS-35 on progress in novel studies on the height allocation of AMVs to layers. Deadline: CGMS-35	NOAA-WP-22	07-Nov-07	CLOSED
CGMS Members	34.21	Action 34.21 CGMS members operating imaging instruments on polar orbiters should consider producing AMV wind products over the poles and report to CGMS-35 on the investigations. Deadline: CGMS-35	EUM-WP-22, NOAA-WP-24,	07-Nov-07	CLOSED
CGMS Members	34.22	Action 34.22 All CGMS members producing AMV products to report on the use of the standard CGMS AMV statistics with a paper to CGMS 35. The paper should also present the co-location criteria currently in use. Deadline: CGMS-35 (feedback from 2 co-chairs)	EUM-WP-23; JMA-WP-06; NOAA-WP-25;	07-Nov-07	CLOSED
KMA	34.23	Action 34.23 KMA is invited to present a tentative product generation and dissemination plan for COMS at CGMS 35. Deadline: CGMS-35	KMA-WP-08	07-Nov-07	CLOSED
WMO	34.24	Action 34.24 The CGMS THORPEX Rapporteur will contact CGMS Member focal points with regards to their becoming involved in THORPEX Regional Planning activities. Deadline: CGMS-35	ESA was contacted. WMO-WP-09.	07-Nov-07	CLOSED



CGMS 34 actions					
Actionee	Action	Description	Closing document	Deadline	Status
NOAA	34.25	Action 34.25 NOAA is invited to report on reprocessing of AVHRR data for a new aerosol climatology over the oceans to CGMS 35. Deadline: CGMS-35	NOAA-WP-27	07-Nov-07	CLOSED
EUM	34.26	Action 34.26 EUMETSAT to present paper on the results of the cloud workshop held in 2005 and subsequent investigations. Deadline: CGMS-35	EUM-WP-25	07-Nov-07	CLOSED
WMO	34.27	Action 34.27: WMO to set up a Task Force on Codes following the TORs spelled out in WMO-WP-36 and report progress at CGMS 35. Deadline: CGMS-35	It is now envisaged to convene this Task Force by the end of January or February 2008 time frame. The first meeting was convened on 26-27 February 2008. Information and documents are available on: <a href="http://www.wmo.int/pages/prog/sat/meetings/TFSDC-1.html">http://www.wmo.int/pages/prog/sat/meetings/TFSDC-1.html</a>	07-Nov-07	OPEN
CGMS satellite operators	34.28	Action 34.28: Each Satellite Operator is invited to nominate an expert to contribute to the WMO led Task Force on codes. Deadline: 31 December 2006	CMA: Anlai Sun, <a href="mailto:sunal@cma.gov.cn">sunal@cma.gov.cn</a> ECMWF: Milan Dragosavac, <a href="mailto:milan.dragosavac@ecmwf.int">milan.dragosavac@ecmwf.int</a> EUM: Dr Simon Elliott, <a href="mailto:simon.elliott@eumetsat.int">simon.elliott@eumetsat.int</a> JMA: Mr Masahito Osugi, <a href="mailto:mosugi@met.kishou.go.jp">mosugi@met.kishou.go.jp</a> NOAA: Mr Thomas Smith, <a href="mailto:Thomas.Smith@noaa.gov">Thomas.Smith@noaa.gov</a> SRC Planeta/ROSHYDROMET: George Parkhomenko, <a href="mailto:parkhom@planet.iitp.ru">parkhom@planet.iitp.ru</a>	31-Dec-06	OPEN
CGMS satellite operators	34.29	Action 34.29: CGMS operators to report to CGMS-35 on their future plans for using direct broadcast beyond 2015. Deadline: CGMS-35	EUM-WP-06/08; JMA-WP-07; NOAA-WP-31;	07-Nov-07	CLOSED
CGMS Members	Recommendation 34.01	Recommendation 34.01 CGMS, noting that the technical work on the GIFTS payload on ground is providing excellent results, and that it appears feasible to host the payload on Elektro-L2 in 2010, invites the main concerned parties to unblock the situation enabling EDU upgrading to flight model, thus also unblocking several CGMS members willing to contribute to the project once the core space segment issue is solved. Deadline: CGMS-35	CNES is involved in the GSICS Implementation Plan and provides adequate resources on a best effort basis. EUM participates. NOAA: In January of 2006, NOAA informed the Federal Space Agency of Russia that while it is interested in having GIFTS in geostationary orbit, GIFTS is a NASA designed instrument that still requires considerable investment to make it flight qualified. In February of 2006, NASA informed the Federal Space Agency that due to funding constraints, it does not intend to complete a flight-qualified instrument.	07-Nov-07	CLOSED
CGMS Members	Recommendation 34.02	Recommendation 34.02 CGMS, noting that marked progress has taken place in setting the scientific background and developing several technical concepts for a GEO-Microwave, invites space agencies that are considering or may consider microwave missions in geostationary orbit to accelerate their decisional process and identify a 'lead space agency' as soon as possible; and invites all Members, including user-oriented ones, to prepare contributions to the IGeoLab GEO-Microwave initiative following the identification of the 'lead space agency'. Essential contributions have already been indicated in previous CGMS sessions, as follows: provision of experimental data by airborne campaigns (CGMS-32.16), and securing funds for scientific activities (CGMS-33.01). Deadline: CGMS-35	ESA has attended workshops. NOAA: NOAA is supportive of the IGeoLab studies and feels the research agencies need to lead. Direct contributions by NOAA would be in data evaluation, assimilation of geo-microwave data into models, calibration/validation studies, and ground station processing system development.	07-Nov-07	CLOSED
CGMS Members	Recommendation 34.03	Recommendation 34.03 CGMS to pursue the geographical expansion of the global RARS network towards South-America, southern Africa and the Pacific, as well as the expansion of the RARS concept to additional time-critical parameters for NWP beyond ATOVS. Deadline: CGMS-35	JMA-WP-08; WMO-WP-25. NOAA does not plan to implement RARS, however, data would be available through the environmental satellite processing centre (ESPC) ftp service.	07-Nov-07	CLOSED
CGMS Members	Recommendation 34.04	Recommendation 34.04 All CGMS members should make software tools useful for image enhancement and analysis available to other CGMS members and inform them accordingly. Deadline: CGMS-35	ESA-WP-06. EUM ongoing/continuous. NOAA-WP-08	07-Nov-07	CLOSED

CGMS 34 actions					
Actionee	Action	Description	Closing document	Deadline	Status
CGMS Members	Recommendation 34.05	Recommendation 34.05 In order to assure a rapid implementation of the GSICS, CGMS Members need to assure that adequate resources (manpower, infrastructure) are made available to adhere to the agreed implementation plan. Deadline: CGMS-35	CNES involved, on a best effort for resource provision. ESA is co-chair of CEOS Cal/Val and coordinates with GSICS. EUM-WP-19 JMA-WP-05 NOAA-WP-09	07-Nov-07	CLOSED
CGMS satellite operators	Recommendation 34.06	Recommendation 34.06 Operational archive operators to install necessary reprocessing capabilities to allow for regeneration of datasets with improved quality. This includes that archive operators provide sufficient information of data quality and calibration accuracies to the user community. Deadline: CGMS-35	JMA-WP-05; NOAA-WP-15 Not yet done by EUMETSAT.	07-Nov-07	CLOSED
CGMS satellite operators	Recommendation 34.07	Recommendation 34.07 Archive operators are invited to develop mechanisms and provide means to allow running of third parties algorithms. Deadline: CGMS-35	ESA-WP-06, NOAA-WP-15 Nnt yet done by EUMETSAT.	07-Nov-07	CLOSED
CGMS satellite operators	Recommendation 34.08	Recommendation 34.08 It is recommended to make further efforts toward a near-global RARS and also include the data of advanced sounders and other data critical to NWP. Deadline: CGMS-35	JMA-WP-08; WMO-WP-25 NOAA: The development of the NOAA RARS is being reconsidered. Data from the current NOAA series of advanced sounders and the advanced sounders of the NPP/NPOESS will be available through the NESDIS Environmental Satellite Processing Center's (ESPC's) File Transfer Protocol (FTP) service.	07-Nov-07	CLOSED
CGMS Members	Recommendation 34.09	Recommendation 34.09 ITWG should foster coordinated international collaboration for future product development related to increasing the amount of data assimilated in NWP by the use of cloudy radiances (e.g. need improved cloudy radiative transfer modelling), cloud-cleared infrared radiances, and surface channels (need improved surface emissivity modelling). The ITWG Rapporteur should inform the ITWG co-chairs of this new recommendation. Status reports from each CGMS agency on these topics at the next CGMS meeting are encouraged. Deadline: CGMS-35	EUM input provided via ITWG Rapporteur. NOAA-WP-16  Discussed in CGMS-35, Working Group II	07-Nov-07	CLOSED
CGMS Members	Recommendation 34.10	Recommendation 34.10 ITWG should foster coordinated international collaboration for future product development related to development of climate data records from TOVS and other long-term satellite series. The ITWG Rapporteur should inform the ITWG co-chairs of this new recommendation. Status reports from each CGMS agency on the generation of CDRs at the next CGMS meeting are encouraged. Deadline: CGMS-35	CNES supports scientific developments of climate data records from TOVS. (E.g. cirrus properties deduced from TOVS measurements (Stubenrauch C.J. <mailto:Claudia.Stubenrauch@lmd.polytechnique.fr> , Chédin A., Rädcl G., Scott N.A., Serrar S.: Cloud propert NOAA-WP-38 Discussed in CGMS-35 Working Group II	07-Nov-07	CLOSED
ESA	Recommendation 34.11	Recommendation 34.11 CGMS recommends that the status of the European contribution to the Global Precipitation Measurement (GPM) is clarified by ESA. Deadline: CGMS-35	ESA-WP-08	07-Nov-07	CLOSED
CGMS satellite operators	Recommendation 34.12	Recommendation 34.12 Satellite operators should provide detailed information in near-real-time as well as quarterly assessment reports of instrument performance, particularly information should include noise assessment, spectral response characteristics (central wave number, shape and stability). Deadline: CGMS-35	JMA started to provide detailed information on MTSAT-1R navigation and calibration through the Meteorological Satellite Center (MSC) website at <a href="http://mscweb.kishou.go.jp/monitoring/mtsats_monit.htm">http://mscweb.kishou.go.jp/monitoring/mtsats_monit.htm</a> on 2 November 2006. NOAA-WP-18	07-Nov-07	CLOSED
CGMS satellite operators	Recommendation 34.13	Recommendation 34.13 Satellite operators should maintain both conical scanning microwave imagers and cross-track scanning sounders on the same satellite platform. Deadline: CGMS-35	EUM: Will be considered in the context of Post-EPS. NOAA: NPOESS will fly the Cross-track Infrared Sounder (CrIS), Advanced Technology Microwave Sounder (ATMS), and, beginning with NPOESS C2, the Microwave Imager/Sounder (MIS).	07-Nov-07	CLOSED
CGMS satellite operators	Recommendation 34.14	Recommendation 34.14 There should be a comparison of standard methods for the height assignment of AMVs with the new measurements from instruments on the A-Train (e.g. with the cloud lidar). Deadline: CGMS-35	EUM-WP-21, KMA-WP-09; NOAA-WP-19,	07-Nov-07	CLOSED

CGMS 34 actions					
Actionee	Action	Description	Closing document	Deadline	Status
CGMS satellite operators	Recommendation 34.15	Recommendation 34.15 There should be a comparison of the operational algorithms of all satellite wind producers for the height assignment of AMVs from clouds using a common data set from SEVIRI on MSG, and the same ancillary data . Deadline: CGMS-35	EUM-WP-23; JMA-WP-06; KMA-WP-09; NOAA-WP-20	07-Nov-07	CLOSED
CGMS satellite operators	Recommendation 34.16	Recommendation 34.16 An experiment should be performed to apply operational AMV retrieval algorithms to simulated images from high resolution NWP fields. Deadline: CGMS-35	NOAA-WP-21	07-Nov-07	CLOSED
CGMS satellite operators	Recommendation 34.17	Recommendation 34.17 Considering the positive impact on re-analyses of re-processed AMVs it is recommended to complete the global reprocessing by including all geostationary satellites. Deadline: CGMS-35	Done by EUM. NOAA-WP-23	07-Nov-07	CLOSED
NOAA;EUM;WMO	Recommendation 34.18	Recommendation 34.18 Co-Chairs of the ITWG, IWWG and IPWG to consider common topics for future joint sessions during potential parallel conduct of future workshops. Deadline: CGMS-35	To take place in 2010 at the earliest. NOAA: During the final session of ITSC-15 the idea of a joint ITWG, IWWG and IPWG meeting/session was discussed. No official action or recommendation was recorded in the ITSC-15 report. However the majority of the ITWG participants are not in favor of a joint event. In the forthcoming ITSC-16, to be held in May 2008, ITWG will again review this topic and report the outcome to CGMS. Discussed in CGMS-35 Working Group II.	07-Nov-07	CLOSED
NASA;ESA;CNES;ISRO	Recommendation 34.19	Recommendation 34.19 NASA, ESA, CNES and ISRO to consider partnership towards the long term continuity of altimeter missions and inform CGMS-35. Deadline: CGMS-35	ESA-WP-04	07-Nov-07	CLOSED
CGMS Members	Recommendation 34.20	Recommendation 34.20: CGMS to take into consideration plans for Earth radiation budget instruments on future GEO missions when evaluating the adequacy in low Earth orbit planning. Deadline: CGMS-35		07-Nov-07	CLOSED
NASA;ESA;JAXA;CNES;ISRO;CNSA	Recommendation 34.21	Recommendation 34.21 NASA, ESA, JAXA, CNES, ISRO and CNSA to indicate the potential contributions their missions could make towards optimization of the polar-orbit prior to CGMS-35. Deadline: CGMS-35	ESA attended the optimisation workshop. CNSA-WP-03.	07-Nov-07	CLOSED
WMO	Recommendation 34.22	Recommendation 34.22 The WMO Space Programme to host a Workshop to allow CGMS satellite operators (both operational and R&D) to consider how their combined plans for low Earth and geostationary missions could respond to WMO requirements. Deadline: 31 July 2007	The 2nd Workshop was held on 21-22 June 2007. WMO-WP-06.	31-Jul-07	CLOSED
CGMS satellite operators	Recommendation 34.23	Recommendation 34.23 CGMS operators should support the objectives of the IGDDS implementation plan. Deadline: CGMS-35	JMA has been disseminating HRIT imagery data from MTSAT-1R via the Internet as its contribution to ADM/IGDDS. In addition, JMA is planning to provide MTSAT-1R imagery data in the compact JPEG format via the Internet by the end of 2007. EUM: Contributes with EUMETCast; RMDCN and GTS data feed.	07-Nov-07	CLOSED

CGMS-33 actions						
Actionee	Action	Description	Closing Document	Deadline	Status	Comment
CGMS Members	33.07	Action 33.07 CGMS Members are requested to support the arrangements for their high profile training event as described in the document WMO-WP-17.	EUM-WP-12, JMA-WP-01, WMO SP built a webpage to carry out on-line registration.	02-Nov-06	CLOSED at CGMS-34	NOAA refers to this action in CGMS-35 NOAA-WP-10 and WMO in WMO-WP-14. Furthermore it has been decided to move away from the HP training events due to the time zone constraints and to hold regional training events instead.
CGMS Members	33.10	Action 33.10 CGMS CGMS Members are requested to provide comments and inputs on the proposal for a new CGMS Internet site to the Secretariat by the end of 2005. Based on this input, the CGMS Secretariat to discuss with WMO a way forward.	JMA by e-mail, NOAA, WMO. See also WMO-WP-16 (CGMS-35) for the way forward.	31-Dec-05	CLOSED at CGMS-34	The way forward was discussed in 2007 by CGMS Secretariat and WMO. WMO-WP-16
WMO	33.18	Action 33.18 The fire papers prompted CGMS to recommend that the WMO Space Programme Office create a web site posting all the links to real time fire detection data.	ESA, EUM, NOAA by e-mail. WMO: web page created in May 2007, the real time fire detection data is now available at <a href="http://www.wmo.int/pages/prog/sat/Onlineproducts.html#Fire">http://www.wmo.int/pages/prog/sat/Onlineproducts.html#Fire</a>	05-Nov-07	CLOSED	WMO: Please note also Recommendation 33.06: CGMS Members are encouraged to provide the location of their web sites on real time fire detection to the WMO.
EUM;NOAA; WMO	33.24	Action 33.24 EUMETSAT, NOAA together with WMO to develop a EUMETCast to NOAA ADM transition plan for users in South America and report details to CGMS.	EUM-WP-11 (CGMS-33). WMO-WP-20 (CGMS-33) and WMO-WP-24 (CGMS-35). Pending input from NOAA. NOAA-WP-33??	05-Nov-07	OPEN	NOAA has positioned its GOES-10 satellite to provide geostationary satellite coverage over South America. GOES-10 data is currently being disseminated via direct broadcast and used operationally. NOAA does not currently have plans to develop ADM capability, but is in the process of developing GEONETCast service. See NOAA-WP-33. Discussed in WGIV.

**Actions open from CGMS-37 (at CGMS-38)**

Actionee	Action	Description	Action feedback/closing document	Deadline
ROSHYDROMET	37.01	Action 37.01: ROSHYDROMET to inform CGMS about the availability of Meteor-M calibration data. Deadline: CGMS-39		(CGMS-38) New Deadline: CGMS-39
ESA	37.04	Action 37.04: ESA to inform CGMS whether the soil moisture information derived from SMOS data is comparable to that derived from Scatterometer data. Deadline: CGMS-39		(CGMS-38) New Deadline: CGMS-39
VL Co-chairs	37.12	Action 37.12: VL Co-chairs to discuss with VL sponsoring agencies the funding of the Technical Support Officer (TSO) position from the end of 2010 onwards. Deadline: CGMS-39 (from the end of 2011 onwards)	NOAA-WP-14 PLENARY	(CGMS-38) New Deadline: CGMS-39
VL Co-chairs	37.13	Action 37.13: VL Co-chairs and WMO to convene the fifth Virtual Laboratory Management Group (VLMG-5) meeting during the first half of 2010. Deadline: CGMS-39	NOAA-WP-14 PLENARY	(CGMS-38) New Deadline: CGMS-39
WMO	37.14	Action 37.14: WMO to continue dialogue with ISRO regarding the establishment of an Indian CoE and the co-sponsoring of the CoE in Oman. Deadline: CGMS-39	NOAA-WP-14 PLENARY	(CGMS-38) New Deadline: CGMS-39
WMO + VL Co-chairs	37.15	Action 37.15: VL Co-chairs and WMO to seek an agreement between CGMS, COMET and WMO with a view of using the ESRC as a resource library for the VL. Deadline: CGMS-39	NOAA-WP-14 PLENARY	(CGMS-38) New Deadline: CGMS-39
WMO + VL Co-chairs	37.16	Action 37.16: The Co-chairs, in consultation with the WMO Space Programme and other relevant WMO Departments, to prepare a roadmap towards widening the scope of VL activities to serve the needs of emerging scientific communities in developing countries. This roadmap will be reviewed by the VLMG and presented to CGMS-38 for approval. Deadline: CGMS-39	NOAA-WP-14 PLENARY	(CGMS-38) New Deadline: CGMS-39
CGMS Members	37.17	Action 37.17: CGMS Members to complete the tables of data access information, and to provide the relevant internet links to WMO. Deadline: CGMS-39	EUM-WP-36; NOAA responded via email. PLENARY	(CGMS-38) New Deadline: CGMS-39
ESA	WGII 37.28	Action 37.28: ESA to provide a working paper on the long-term monitoring of MERIS as a reference calibration instrument. Deadline: CGMS-39		(CGMS-38) New Deadline: CGMS-39
CGMS satellite operators	WGIV 37.37	Action 37.37: All CGMS satellite operators to regularly include user statistics in their reports on current satellite systems. Deadline: CGMS-39	NOAA is actively investigating methods to include user statistics when reporting on current satellite systems. 14/01: to be closed at CGMS-39, will report via the Permanent Action number 06	(CGMS-38) New Deadline: CGMS-39

**CGMS-38 permanent actions**

Actionee	Action	Description	Action feedback/closing document	Deadline
CGMS Members	Permanent 01	All CGMS Members to inform the Secretariat of any change in the status or plans of their satellites to allow the updating of the CGMS Tables e-mail, of Satellites (tables 1-6 of the plenary report). The Secretariat to review the tables of current and planned polar and geostationary satellites, and to distribute this updated information, via the WWW Operational Newsletter, via Electronic Bulletin Board, or other means as appropriate. CGMS satellite operators to update table 7 for polar-orbiting satellite equator crossing times on an annual basis. CGMS Members to update the table on polar-orbiting satellite equator crossing times as well as the table on coverage from geostationary satellites.	EUM-WP-02, NOAA-WP-02, -03, -04, -07, -08, -19, -35, -40, -43	CGMS-38
CGMS satellite operators	Permanent 02	CGMS Members to report on spacecraft anomalies from solar events at CGMS meetings.	EUM-WP-05, NOAA-WP-05	CGMS-38
CGMS Members	Permanent 03	CGMS Members to review the list of available list servers used by CGMS groups and update as appropriate.	Ongoing	CGMS-38
CGMS Members	Permanent 04	CGMS satellite operators to consider the IOC satellite requirements, especially the data dissemination methods, bearing in mind the ongoing formations of GOOS Regional Alliances (GRAs).	EUM-WP-16, NOAA responded at CGMS XXXV, no update at this time.	CGMS-38
CGMS Members	Permanent 05	CGMS should develop a coordinated approach for direct broadcast services of future polar orbiting meteorological satellite systems.		CGMS-39
CGMS Members	Permanent 06	All CGMS satellite operators to regularly include user statistics in their reports on current satellite systems. Deadline: CGMS-39.		CGMS-39

#### CGMS-38 actions

Actionee	Action	Description	Action feedback/closing document	Deadline
EUM	38.01	Action 38.01: EUMETSAT to report on availability of IASI Level-2 product extraction software for direct readout. CGMS-39		CGMS-39

ROSH	38.02	Action 38.02: Roshydromet to make technical details of microwave Sounder data (meta-data, format) available to the global user community. Deadline: 31 March 2011.	sent email to Alexander Nurullaev on 28/03/11 - no answer so far-, 2nd reminder sent on 29/04/2011 to Alexander. Closed on 19/05: Roshydromet and SRC Planeta in particular will be able to make technical details of microwave sounder data available to the global user community after commissioning the Russian meteorological satellite Meteor-M N1. 20/06/2011: postponed after commissioning of METEOR-M N1	31-Mar-11
CGMS Members	38.03	Action 38.03: CGMS Members to report on their activities related to Space Debris / collision mitigation measures by CGMS-39.		CGMS-39
CGMS Members	38.04	Action 38.04: CGMS Members to provide information on anomalies affecting their spacecrafts and payload caused by cosmic radiation. Deadlin: CGMS-39		CGMS-39
CGMS Members	38.05	Action 38.05: CGMS Members to provide written recommendation to WMO on its proposal to develop a space-based architecture for climate monitoring by 15 December 2010.		15-Dec-10
CGMS Secretariat	38.06	Action 38.06: CGMS Secretariat is invited to send a letter from CGMS Members to the WMO SG asking to reinstate a discussion on the WMO Space Program at the next WMO Congress in 2011.		15-Dec-10
CGMS Satellite Operators	38.07	Action 38.07: CGMS Satellite Operators are encouraged to note the usefulness of RA II Pilot Project web pages on the WMO Space Programme (WMOSP) website providing information related meteorological satellites for NMHSs users, and to support the Project providing the information of satellite data and products answering to the questionnaire, which will be sent from the project co-coordinators.		CGMS-39

#### CGMS-38 actions

Actionee	Action	Description	Action feedback/closing document	Deadline
CGMS Members	38.08	Action 38.08: CGMS Members are invited to participate in the First Workshop on Space-based Architecture for Climate, focussing on "Continuity and architecture requirements for climate monitoring", to be held on 13 and 14 January 2011 in Geneva. Comments on Workshop outline to be received by to WMO by 1.12.2010		01-Dec-10

WMO	38.09	Action 38.09: WMO SP to check with the GEO SEC the possibility to co-sponsor the Workshop. Deadline: January 2011.		31-Jan-11
CGMS Members	38.10	Action 38.10: CGMS Members are invited to support the Global Cryosphere Watch (GCW) by identifying relevant operational satellite products, and developing new satellite derived climate products, which would contribute to GCW and to comment on the benefit of cryosphere reference sites that meet long-term in-situ needs as well as satellite cal/val needs.		CGMS-39
WMO / CGMS Virtual Laboratory Management Group (VLMG)	38.11	Action 38.11: The WMO / CGMS Virtual Laboratory Management Group (VLMG) to liaise with the SWFDP to identify opportunities to coordinate training activities and share training resources that would allow Member countries in SWFDP project regions, such as Southern and Eastern Africa, Southeastern Asia and the Southern Pacific, to further enhance the benefits realized through the SWFDP in better using satellite-based products in support of severe weather forecasting.		CGMS-39
CGMS Satellite Operators	38.12	Action 38.12: CGMS Satellite Operators to provide a contact point for Severe Weather Forecasting Demonstration Project (SWFDP), who would contribute to inform the SWFDP project on relevant satellite data and products responding to SWFDP needs, and to identify opportunities for development of improved products and services. Deadline: CGMS-39.		CGMS-39
CGMS Members	38.13	Action 38.13: CGMS members to respond to the updated set of GCOS needs, through the proposed space-based architecture for climate monitoring and the CEOS response (cf. CGMS-38 NOAA-WP-13), as appropriate.		CGMS-39
CGMS Members	38.14	Action 38.14: CGMS Members are invited to nominate further representatives for the web committee and send it to cgmsec@eumetsat.int. The CGMS Secretariat will be the point of contact. The committee to receive comments/feedback/ suggestions on the website.		31-Dec-10



CGMS Members	WGI 38.15	Action 38.15: CGMS Members to provide to each CGMS meeting a list of frequencies used by their current and future systems in the format provided in WG I report (Annex 1) (merged version of WMO frequency reports amended with the extra fields as provided in Tables 1 and 2 of Document CGMS-38 EUM-WP-23). Deadline: CGMS-39		CGMS-39
CGMS Members	WGI 38.16	Action 38.16: CGMS members to provide to the CGMS Secretariat and IMD their operational and planned use of the data collection service (regional and international) that contains or overlap the band 402.25-402.65 in a format as provided in Annex 1 of this WG I report. Deadline: 15 December 2010 at the latest.	02/12 H/SES: No input received yet except EUM which replied during the meeting and was recorded in the report (dd is 15.12 so perhaps they are still preparing the answer). 15/12/2010 "NOAA has no plans to use the band 402.25-402.65." email from Derek Hanson sent to H/SES 12/01/11 14/01/11: reminder sent to Cgmsplen. If no input by 21/01 we will close the action 14/01/11: EUM considers this action closed	15-Dec-10
CGMS Members	WGI 38.17	Action 38.17: Concerning US public enquire for sharing with 4G mobile systems of the 1675-1710 MHz band CGMS members are encouraged to provide CGMS secretariat their inputs and position regarding the impact on their current and future systems (or a more general copy of the letters submitted in response of the US public enquire). Deadline: 1 December 2010.		01-Dec-10
CGMS Secretariat	WGI 38.18	Action 38.18: CGMS Secretariat to draft a letter to the appropriate US officials to address the concern of the WMO and CGMS members and the implications on their systems and services based on the shared use of this band by 4G mobile systems. Deadline: 15 December 2010.		15-Dec-10
NOAA	WGII 38.19	Action 38.19: NOAA to report on progress towards using SSMS to extend the SSMS records on total precipitable water. Deadline: CGMS-39		CGMS-39
CGMS Agencies	WGII 38.20	Action 38.20: CGMS agencies to provide reports on satellite calibration anomalies Deadline: CGMS-39.		CGMS-39
NOAA	WGII 38.21	Action 38.21: NOAA to submit the current version of the AVHRR Fundamental Climate Data Record for GSICS Product Acceptance.		CGMS-39
EUM	WG II 38.22	Action 38.22: EUMETSAT to provide to CGMS agencies information on the EUM Convection Working Group. Deadline: 28 February 2011.	sent an email to Marianne on 23/02, email sent out to CGMS	28-Feb-11

ITWG rapporteur	WG II 38.23	Action 38.23: ITWG rapporteur will provide actions related to calibration to GSICS. Deadline: 28 February 2011.	sent an email to Mitch 23/02, Email back from Derek on 28/03 : he has not heard anything from Mitch, and he's left him emails and voicemails. Mitch just took on an additional responsibility at NOAA that will take a lot of his time, but he's still trying to get in touch. 29/04 FUP with Derek, FUP 20/06/2011	28-Feb-11
ITWG rapporteur	WGII 38.24	Action 38.24: ITWG rapporteur will provide actions related to climate to SCOPE-CM. Deadline: 28 February 2011.	sent an email to Mitch 23/02, Email back from Derek on 28/03 : he has not heard anything from Mitch, and he's left him emails and voicemails. Mitch just took on an additional responsibility at NOAA that will take a lot of his time, but he's still trying to get in touch. 29/04 FUP with Derek, FUP, 20/06/2011	28-Feb-11
ITWG rapporteur and ITWG co-chairs	WGII 38.25	Action 38.25: ITWG rapporteur and ITWG co-chairs to invite IMD and ISRO to consider participation in ITWG. Deadline: 28 February 2011.	sent an email to Mitch 23/02, Email back from Derek on 28/03 : he has not heard anything from Mitch, and he's left him emails and voicemails. Mitch just took on an additional responsibility at NOAA that will take a lot of his time, but he's still trying to get in touch. 29/04 FUP with Derek, FUP 20/06/2011	28-Feb-11
EUM and NOAA	WGII 38.26	Action 38.26: Recognising limited validation data-sets and the use of SEVIRI for GOES-R and MTG algorithm development, EUMETSAT and NOAA to coordinate with South Africa for creation of validation data-sets for rainfall products and to report at CGMS 39.		CGMS-39
All Satellites Operators	WGII 38.27	Action 38.27: All satellite operators are invited to inform the CGMS Secretariat whether they will support a second AMV intercomparison study. They are also invited to provide feedback on potential improvements and changes (due date 31 March 2011).		31-Mar-11
Co-chairs of the IWWG	WGII 38.28	Action 38.28: Co-chairs of the IWWG should develop a workplan for a second AMV intercomparison study on the basis of lessons-learnt from the 1st intercomparison and the pertinent feedback and comments provided by CGMS members. Deadline: CGMS-39		CGMS-39

#### CGMS-38 actions

Actionnee	Action	Description	Action feedback/closing document	Deadline
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EUM	WGII 38.29	Action 38.29: EUMETSAT to conduct an extended validation campaign for AMVs derived with the NWCSAF portable AMV software package. Deadline: 31 May 2011 and a report to CGMS-39.		31-May-11
WMO	WGII 38.30	Action 38.30: WMO to coordinate efforts between operational data providers and NWP agencies to establish long term continuity plans, including the use of research data in operational products and optimal configurations for climate applications. Deadline: CGMS-39.		CGMS-39
CGMS Satellite Operators	WGII 38.31	Action 38.31: CGMS Satellite Operators are invited to report on a regular basis on their capabilities and plans to support volcanic ash monitoring, including the development of relevant products and techniques for utilisation, in order to inform the relevant ICAO and WMO bodies: the WMO/IUGG Volcanic Ash Scientific Advisory Group and the ICAO International Volcanic Ash Task Force/International Airways Volcanic Watch Operations Group (IVATF/IAVWOPSG).		CGMS-39
CMA, IMD, NOAA, and other interested CGMS agencies	WGII 38.32	Action 38.32: Propose CMA, IMD, NOAA, and other interested CGMS agencies to support future training related to the use of satellites to monitor dust, volcanic ash, fog, and forest fires in conjunction with the WMO Virtual Laboratory. Deadline: CGMS-39.		CGMS-39
CGMS operators	WGII 38.33	Action 38.33: Invite CGMS operators to submit to the next CGMS meeting Working Papers on nowcasting applications, including cloud analysis, fog detection and forest fires. Deadline: CGMS-39.		CGMS-39
IOC	WGII 38.34	Action 38.34: IOC to provide a paper on guidance to CGMS members to improve sea surface temperature measurements. Deadline: CGMS-39.		CGMS-39
CMA	WGII 38.35	Action 38.35: CMA is invited to provide more detailed intercomparisons of FY-3A ERB with CERES.		CGMS-39
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.		CGMS-39
WMO	WGIII 38.37	Action 38.37: WMO to report on the outcome of the Workshop on Continuity and Architecture Requirements for Climate Monitoring, at CGMS-39 (Due date: CGMS-39).		CGMS-39
CGMS Satellite Operators	WGIII 38.38	Action 38.38: CGMS satellite operators to report at CGMS-39 on their user-preparation activities for the next generation geostationary satellite series.		CGMS-39

WMO	WGIII 38.39	Action 38.39: WMO with the support of the relevant Expert Teams, to prepare an update of the baseline for the space-based component of the Global Observing System along the lines of Annex 3 to the report of CGMS-38 WG III, and circulate to CGMS Members in advance of CGMS-39.		CGMS-39
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.		CGMS-39
CGMS Satellite Operators	WGIII 38.41	Action 38.41: CGMS Satellite Operators to confirm their commitments to contribute to the updated baseline for the space-based component of the Global Observing System (Due date: CGMS-39).		CGMS-39
WMO	WGIII 38.42	Action 38.42: WMO to take into account the revised CGMS baseline for the space-based component of the GOS in the updating process of relevant WMO Manuals and Guides, with a view of its endorsement by CBS-XV in 2012.		CGMS-39
CGMS Members	WGIII 38.43	Action 38.43: CGMS Members to review the Draft Mapping of the gap analysis with the GCOS ECVs, and provide comments to WMO (Dr Bizzarro Bizzarri, bibizzar@tin.it) to be considered for a revised version to be submitted to the "Workshop on Continuity and Architecture Requirements for Climate Monitoring" on 13-14 January 2011. (Deadline: 15 December 2010.)		15-Dec-10
NOAA	WGIV 38.44	Action 38.44: NOAA to provide a report to CGMS on its planning for the transition of users from the current GOES system to GOES-R. Deadline CGMS 39.		CGMS-39
EUM	WGIV 38.45	Action 38.45: EUMETSAT to provide CGMS with more detailed information and the schedule of implementation for the various MTG data dissemination schemes. Deadline CGMS39.		CGMS-39
CGMS Satellite Operators	WGIV 38.46	Action 38.46: CGMS satellite operators to inform CGMS on progress towards the achievement of future broadcast services (physical layers, formats, etc.) in the timeframe of the EPS-SG and JPSS satellites. Deadline CGMS 39.		CGMS-39
NOAA and EUM	WGIV 38.47	Action 38.47: NOAA and EUMETSAT to present a description of joint broadcast services for EPS-SG and JPSS. Deadline CGMS 39.		CGMS-39

CGMS Satellite Operators	WGIV 38.48	Action 38.48: CGMS satellite operators to inform CGMS on efforts to widen user access and to establish and respond to user requirements with GEONETCast. Deadline CGMS 39.		CGMS-39
CGMS Members	WGIV 38.49	Action 38.49: GMS members to report on their measures and plans regarding interoperability and standardised online data access for archived data-sets. Deadline CGMS-39.		CGMS-39
CGMS Members	WGIV 38.50	Action 38.50 CGMS members are invited to report on the current measures taken in their Organisation for the long-term preservation of data and indicate if a future harmonised approach (e.g. common guidelines) would be helpful. Deadline CGMS-39.		CGMS-39
CGMS Members	WGIV 38.51	Action 38.51: CGMS Members to verify if they have been registered as a part of WIS, in particular as Data Collection or Production Centres (DCPCs) or National Centres (NCs).	14/01/2011: EUM considers that action closed	CGMS-39
Candidate DCPCs or NCs	WGIV 38.52	Action 38.52: Candidate DCPCs or NCs to review the WIS specifications to ensure they are able to support the relevant WIS interfaces, including ensuring metadata describing their products and services is available in WMO format (ISO19115) for uploading to a Global Information System Centre (GISC).		CGMS-39
IMD and KMA	WGIV 38.53	Action 38.53: IMD and KMA are invited to nominate experts to the WMO/CGMS Task Force on Satellite Data Codes. Deadline end January 2011.		31-Jan-11

### CGMS-38 recommendations

Actionee	Recommendation	Description	Action feedback/closing document	Deadline
CGMS Members	Recommendation 38.01	Recommendation 38.01: CGMS recommended to consider the possibility to extend the IODC coverage after 2013 and after the end of life of Meteosat-7.		CGMS-39
CGMS Members	Recommendation 38.02	Recommendation 38.02: CGMS members to examine opportunities to incorporate Severe Weather Forecasting Demonstration Project (SWFDP) required data and products in their broadcast schemes.		CGMS-39

CGMS Members	Recommendation 38.03	Recommendation 38.03: CGMS members to consider ways and means to strengthen their support to international scientific expert teams involved in peer review of climate data records (for example, to the CGMS Working Groups IPWG, IWWG, ITWG and IROWG, and to the World Climate Research Programme Global Energy and Water Cycle Experiment Radiation Panel (WCRP GEWEX RP)).		CGMS-39
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**CGMS-38 recommendations**

Actionee	Recommendation	Description	Action feedback/closing document	Deadline
CGMS satellite operators	Recommendation 38.04	Recommendation 38.04 :CGMS Satellite Operators are invited to consider the development of new operational sensors for cryospheric variables, especially snowfall.		CGMS-39
CGMS Members	Recommendation 38.05 WGI	Recommendation 38.05: CGMS members are invited to provide information on the planned use of the band 7750 - 7850/7900 MHz in order to facilitate an early coordination of this band among MetSat operators in the framework of SFCG.		CGMS-39
CGMS Members	Recommendation 38.06 WGI	Recommendation 38.06: When planning frequency use of current and future DCS systems, CGMS members are encouraged to adhere to the content of Resolution SFCG 30-1 providing the basic general partitioning of the band 401 – 403 MHz and related sharing conditions for future long-term coordinated use of DCS systems on geostationary and non-geostationary MetSat and EESS systems. If considered necessary, further coordination within the selected sub-bands should be initiated and performed within the framework of SFCG.		CGMS-39
CGMS Members	Recommendation 38.07 WGI	Recommendation 38.07: CGMS members planning to use the 7750-7900 MHz band investigate using the CGMS global standards for AHRPT.		CGMS-39
NOAA	Recommendation 38.08 WGII	Recommendation 38.08: NOAA to consider sharing 1 minute simulated imagery upon request from CGMS agencies planning new advanced imagers in geostationary orbit.		CGMS-39
CMA	Recommendation 38.09 WGII	Recommendation 38.09: CMA to provide both short and long term time-series of the Qinghai and Dunhuang sites using geostationary satellites to evaluate the diurnal variation of the lake temperature and the BRDF of the Dunhuang site.		CGMS-39
CMA	Recommendation 38.10 WGII	Recommendation 38.10: CMA to consider the use of in-situ radiometers to routinely measure the Qinghai Lake surface temperature for improved accuracy.		CGMS-39

NOAA	Recommendation 38.11 WGII	Recommendation 38.11: NOAA to publish results on the characteristics of targets for vicarious calibration presented in NOAA-WP-26.		CGMS-39
NOAA	Recommendation 38.12 WGII	Recommendation 38.12: NOAA to use GPS RO measurements to assess the systematic bias remaining in the MSU/AMSU intercalibrated FCDRs.		CGMS-39
NOAA	Recommendation 38.13 WGII	Recommendation 38.13: NOAA to present results on the Stratospheric Sounding Unit (SSU) intercalibration and derived long term trends and comparisons with trends from MSU/AMSU.		CGMS-39
JMA	Recommendation 38.14 WGII	Recommendation 38.14: JMA is invited to report on the use of high resolution AMV derived for T-PARC experiment.		CGMS-39
CGMS Operators	Recommendation 38.15 WGII	Recommendation 38.15: CGMS operators are invited to express their interest in the portable AMV software package from the EUMETSAT 'Nowcasting SAF' for testing and internal comparisons.		CGMS-39
ISRO and partner Agencies	Recommendation 38.16 WGII	Recommendation 38.16: ISRO and partner Agencies to provide ROSA GPS RO data from Oceansat-2 and Megha-Tropiques to operational agencies in near real-time.		CGMS-39
CGMS satellite operators	Recommendation 38.17 WGIII	Recommendation 38.17: Once their operational requirements are fully satisfied, CGMS Satellite Operators should consider redeployment towards less covered areas if need arises, taking advantage of available in-orbit capacity in geostationary orbit.		CGMS-39
CGMS satellite operators	Recommendation 38.18 WGIII	Recommendation 38.18: CGMS Satellite Operators implementing new systems should provide the user community, as early as possible, with full technical details needed by users to get prepared to access and use these systems.		CGMS-39
CGMS Members	Recommendation 38.19 WGIII	Recommendation 38.19: Orbital planes of operational sun-synchronous satellites with sounding capability (IR and MW) should be coordinated with a view to optimize the temporal distribution in order to maximize coverage.		CGMS-39
CGMS Members	Recommendation 38.20 WGIII	Recommendation 38.20: The WG recommended to proceed with an update of the CGMS baseline for GEO, LEO and HEO satellites in advance of CBS-XV in 2012, describing the target configuration for 2015.	WMO ACTION	CGMS-39
CGMS Members	Recommendation 38.21 WGIII	Recommendation 38.21: CGMS to keep under review the baseline for GEO, LEO and HEO satellites for 2015 with the aim to ensure, by 2025, a full implementation of the WMO Vision for the GOS in 2025.	LONG TERM	CGMS-39

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