

WORLD METEOROLOGICAL ORGANIZATION

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COMMISSION FOR BASIC SYSTEMS
OPEN PROGRAMME AREA GROUP ON INTEGRATED OBSERVING SYSTEMS

EXPERT TEAM ON SATELLITE UTILIZATION AND PRODUCTS

ITEM: 16

EIGHTH SESSION

GENEVA, SWITZERLAND, 14-17 APRIL 2014

Original: ENGLISH

PREPARING FOR CGMS-42

(Submitted by the Secretariat)

Summary and Purpose of Document

To present the agenda for the 42nd session of the Coordination Group for Meteorological Satellites (CGMS) to be held 19-23 May 2014 in Guangzhou, China, including planned input by WMO and co-sponsored Programmes.

ACTION PROPOSED

The eighth session is invited to take note and comment, as appropriate.

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- Appendices:** A. Draft agenda of CGMS-42
B. Draft WMO input

Appendix A: Draft agenda of CGMS-42

CGMS-42 ANNOTATED AGENDA AND SCHEDULE
*** THE WEEK AT A GLANCE ***

Sun 18 May	Mon 19 May	Tue 20 May	Wed 21 May	Thu 22 May	Fri 23 May	Sat 24 May
	Working Groups WGI 08:30-14:00 Room #	Working Groups WGII 09:00-16:00 Room #	Preparation of WG actions, conclusions, final report, and presentations to plenary	Plenary 08:30-12:30 Room #	Plenary 08:30-12:20 Room #	
	WGII 09:00-18:00 Room #	WGIII 08:30-15:00 Room #	Ad-hoc meeting on space weather 10:00-13:00 Room #			
	Lunch #	Lunch #		Lunch #	Lunch #	
Briefing to WG chairpersons, rapporteurs and CGMSSEC 17:00-18:00 Room #tbd	Working Groups WGI/WGII continued WGIV 14:00-18:00 room #	Working Groups WGII/WGIII continued Preparation of WG high level conclusions for plenary	Preparation of WG actions, conclusions, final report, and presentations to plenary (continued)	Plenary 13:30-18:50 Room #	Plenary 13:20-18:00 Room #	
Attendance registration 17:00-19:00			Briefing to Plenary Chairpersons* 17:00-18:00 Room #		*Debriefing of CGMS-42 and identification of way forward 18:30-19:15	

*Participation: CGMS WGI-IV chairs, rapporteurs, CGMS-42 hosts, CGMS Secretariat and representatives of CGMS-43 hosts

Meeting rooms:

Tbd

Meeting secretariat: #tbd

CGMS-42 PLENARY – ANNOTATED AGENDA

Monday 19 May 2014, 08:00-08:30, room #tbd
Briefing with all WG Chairpersons, rapporteurs and the CGMS Secretariat

Date/time: 22 May 2014, 08:45-18:15 to 23 May 2014 08:30-18:30
Location: Room #tbd,

THURSDAY 22 MAY 2014 - PLENARY

Plenary chair: tbc, CMA
Rapporteur: CGMS Secretariat with the support of the session facilitators

A: OPENING SESSION [30']

08:30 Welcome addresses

B: INTRODUCTION TO THE MEETING [15']

09:00 **Objectives of the meeting**
Paul Counet, CGMS Secretariat

Approval of the agenda

Review of actions (from CGMS-41)
Anne Taube, CGMS Secretariat

C: USER REQUIREMENTS [120']

Session facilitator: Jérôme Lafeuille, WMO

09:15 Session C: WMO requirements [120']

- C.1 Use of satellite data in WMO climate assessments [20']
Wenjian Zhang, WMO
- C.2 Emergency satellite support to disaster risk reduction [15']
Jérôme Lafeuille, WMO
- C.3 Use of satellite data in emergency situations in China [20']
Fang Xiang, CMA

- C.4 Benefits of Infrared Sounding Missions for Nowcasting purposes [20']
Kenneth Holmlund, EUMETSAT

10:30 Break (coffee break room #tbd)

- 10:45 C.5** Satellite User Readiness Navigator (Saturn) web portal [20']
(In response to HLPP E.3 and to CGMS-41 plenary actions 41.05 and 41.06)
Mikael Rattenborg, WMO

Discussion [25']

D: REPORTS FROM SPACE AGENCIES

Session facilitator: CGMS Secretariat

- 11:30 Reports on the status of current and future satellite systems by Space Agencies** [195'; 15min/agency]

Session D.1: Operational agencies

CMA
EUMETSAT
IMD/ISRO
JMA
KMA

12:30 Break (Lunch in room #tbd)

- 13:30 Reports on the status of current and future satellite systems by Space Agencies – continued** [15 min/agency]

Session D.1: Operational agencies

NOAA
ROSHYDROMET

Session D.2: R&D agencies

CNES
CNSA/SOA-NSOAS
ESA
JAXA
NASA
ROSCOSMOS

15:45 Break (coffee break #tbd)

E: WORKING GROUP REPORTS

16:00 Session E.1 Global issues on satellite systems and telecommunication coordination (WGI) [60']

Session facilitator: Joaquin Gonzalez Picazo, EUMETSAT

Session E.1.1 Harmonisation of global Data Collection Systems [20']
Sean Burns, EUMETSAT (through Webex)

Session E.1.2 Coordination of existing regional retransmission services (RARS) Europe/US perspective [15']
tbd, EUMETSAT/NOAA

Session E.1.3 Report from Working Group I, Marlin Perkins, NOAA, WGI Chairperson [10']

Discussion [15']

17:00 Session E.2: Global data dissemination (WGIV) [45']

Session facilitator: Klaus-Peter Renner, EUMETSAT

Session E.2.1 Status of Himawari-8/-9 data distribution/dissemination [10']
Tbd, JMA

Session E.2.2 Terrestrial data dissemination of high volume data [10']
Klaus-Peter Renner, EUMETSAT

Session E.2.3: Report from Working Group IV [10']
Klaus-Peter Renner, EUMETSAT, WGIV rapporteur

Discussion [15']

F: EDUCATION AND TRAINING

Session facilitator: Stephan Bojinski, WMO

17:45 Session F.1: Education and Training [45']

F.1.1 Status report on CMA VLab activities (incl. FY-3 product suite) [20']
Xuehao Gao or Hong Wu, CMATC

F.1.2 Status report on the VLab activities [15']
Stephan Bojinski/Wenjian Zhang, WMO

Discussion [10']

G: OUTREACH ACTIVITIES

Session facilitator: Charles Wooldridge, NOAA

18:30 Outreach Activities [15']

Status report of CGMS Outreach activities
Charles Wooldridge, NOAA

Discussion

18:45 Conclusions (day one, overview of day two, announcements...)

18:50 End of plenary day one

FRIDAY 23 MAY 2014 - PLENARY

E: WORKING GROUP REPORTS (continued)

08:30 Session E.3 Satellite data and products (WGII) [90']

Session facilitators: Mitch Goldberg/Fuzhong Weng, NOAA,
Johannes Schmetz, EUMETSAT

Session E.3.1: Scientific presentations [60' incl. discussions]

Key notes:

E.3.1.1 Status of volcanic ash test bed activities [15']
Toshiyuki Kurino, JMA

E.3.1.2 Summary of highlights and request for guidance from ITSC-19 [15']
Niels Bormann, ITWG co-chair

E.3.1.3 Summary of highlights and request for guidance from IROWG-3 [15']
Tony Mannucci (NASA, Rapporteur IROWG)

E.3.1.5 SCOPE-Nowcasting status report [15']
Stephan Bojinski/Jérôme Lafeuille, WMO

Session E.3.2: Report from Working Group II [30' incl. discussions]

Working Group II report incl. decision on CREW, a new CGMS International
Science Working Group
Mitch Goldberg/Fuzhong Weng, Johannes Schmetz, WGII rapporteurs

10:00 Session E.4 Operational Continuity and Contingency Planning (WGIII) [70']

Session facilitator: Jérôme Lafeuille, WMO

Session E.4.1: Key notes [40']

E.4.1.1 Risk assessment of operational programmes [10']
Jérôme Lafeuille, WMO

E.4.1.2 Report from socio-economic tiger team and proposed way forward [10']
Charles Wooldridge, NOAA

Discussion [20']

11:10 **Break** (coffee break room #tbd)

11:25 **Session E.4.3: Report from Working Group III, Suzanne Hilding, NOAA, WGIII Co-Chair** [10']

Discussion [20']

H: CROSS CUTTING ISSUES

11:55 **Session H.1: Space weather** [25']

Session facilitator: Jérôme Lafeuille, WMO

Report from the ad-hoc meeting on space weather [10']
Suzanne Hilding, NOAA

Discussion [15']

12:20 **Break** (Lunch in room #tbd)

13:20 **Session H.2: Oceanography** [60']

Session facilitator: tbd

Key notes:

H.2.1 Joint Requirements by IOC-UNESCO and WMO [20']
David Halpern, IOC-UNESCO

H. 2.2 Status of Chinese ocean observing satellite systems (HY) [15']
Mingsen Lin, SOA/NSOAS

H.2.3 CGMS coordination in the ocean context [10'] - TBC
Mikael Rattenborg, CGMS Secretariat

Discussion [15']

14:20 **Session H.3: Climate** [70']

Session facilitator: Charles Wooldridge, NOAA

H.3.1 GCOS progress report and new implementation plan [20']
Carolin Richter, GCOS

H.3.2 CEOS/CGMS Joint Working Group on Climate [25']

- Status report by the CEOS/CGMS Joint Working Group on Climate
- Next steps
- Proposed way forward for handling climate issues at CGMS in future
John Bates, Chairperson, CEO/CGMS JWG on Climate

Discussion [23']

H.3.3 Announcement

Symposium on Climate Research and Earth Observation from Space [2']
Alain Ratier, EUMETSAT

15:30 Break (coffee break room #tbd)

I: HLPP

Session facilitator: Mikael Rattenborg, EUMETSAT

15:45 CGMS High Level Priority Plan (HLPP) [45']

Status of implementation [10']
Proposed update of the HLPP [10']

Discussion [25']

J: REVIEW OF CGMS-42 ACTIONS AND RECOMMENDATIONS

Session facilitator: CGMS Secretariat (Paul Counet/Anne Taube, EUMETSAT)

16:30 Review of summary list of actions and recommendations [60']

K: AOB AND CLOSING SESSION

Session facilitator: Anne Taube

17:30 Session K.1: Nominations [5']

CGMS representatives at other meetings
Chairpersons and rapporteurs of CGMS Working Groups I-IV

17:35 Session K.2: Any other business [5']

17:40 Session K.3: Closing [20']

Date and place of CGMS-43
Hand-over of CGMS flag
Closing words

18:00 End of CGMS-42 plenary session

18:30 Meeting of extended CGMS Secretariat

CGMS-42 WORKING GROUP I – DRAFT AGENDA AND PROVISIONAL SCHEDULE Global issues on satellite systems and telecommunication coordination

*Monday 19 May 2014, 08:00-08:30, room #tbd
Briefing with all WG Chairs, rapporteurs and the CGMS Secretariat*

Monday 19 May 2014, 08:30-14:00
Room: #tbd

Chairperson: Marlin O Perkins, NOAA
Rapporteur: Joaquin Gonzalez, EUMETSAT

- WGI/0 Objectives
- WGI/1 Review of actions and recommendations from previous meetings
- WGI/2 Frequency Management matters: SFCG, ITU and WRC Activities
- WGI/3 Direct Broadcast Services
 - WGI/3.1 Direct Read-out Stations
 - WGI/3.2 Coordination and Global Standards
 - WGI/3.2.1 Optimisation/Harmonisation of direct readout dissemination (CGMS DB global spec)
 - Current systems
 - Transition to new direct readout systems (GOES-R, JPSS, FY-3, EPS-SG, ..)
 - technical implications of the move of FY-3E to an early morning orbit
- WGI/4 Data Collection Systems
- WGI/5 Regional Retransmission Services (RARS) incl. support for NPP and Metop
- WGI/6 Review and updating of the HLPP
- WGI/7 Any other Business
- WGI/8 Planning of inter-sessional activities/meetings [CGMS-42 → CGMS-43]
- WGI/9 Review of actions, conclusions, preparation of WG report for plenary

Coffee break: 10:30-11:00 (Room #tbd)
Lunch: 12:30-13:30 (Room #tbd)

CGMS-42 WORKING GROUP II – DRAFT AGENDA AND PROVISIONAL SCHEDULE Satellite data and products

*Monday 19 May 2014, 08:00-08:30, room #tbd
Briefing with all WG Chairs, rapporteurs and the CGMS Secretariat*

**Monday 18 May 2014, 09:00-18:00, Tuesday 19 May 2014, 09:00-16:00
Room: #tbd**

Co-chairs: Stephan Bojinski, WMO, Toshiyuki Kurino, JMA
Rapporteurs: Mitch Goldberg/ Fuzhong Weng, NOAA, Johannes Schmetz, EUMETSAT

- WGII/0 Objectives
- WGII/1 Review of actions and recommendations from previous meetings
- WGII/2 Image processing techniques and satellite imagery for nowcasting
- WGII/3 Satellite data calibration and validation including climate related aspects
- WGII/4 Infrared/MicroWave sounding and ITWG matters
- WGII/5 Precipitation and IPWG matters
- WGII/6 Atmospheric Motion Vectors and IWWG matters
- WGII/7 Radio Occultation and IROWG matters
- WGII/8 Cloud and Ash/Dust Related matters including proposal for a new CGMS International Science Working Group (CREW)
- WGII/9 Ocean parameters
- WGII/10 Other parameters and products
- WGII/11 Review and updating of the HLPP
- WGII/12 Any other Business
- WGII/13 Planning of inter-sessional activities/meetings [CGMS-42 → CGMS-43]
- WGII/14 Review of actions, conclusions, preparation of WG report for plenary

Coffee breaks: 10:30-11:00, 15:45-16:15 (Room #tbd)
Lunch: 12:30-13:30 (Room #tbd)

CGMS-42 WORKING GROUP III – DRAFT AGENDA AND PROVISIONAL SCHEDULE Operational Continuity and Contingency Planning

*Monday 19 May 2014, 08:00-08:30, room #tbd
Briefing with all WG Chairs, rapporteurs and the CGMS Secretariat*

**Tuesday 19 May 2014, 08:30-15:00
Room: #tbd**

Co-chairs: Suzanne Hilding, NOAA, Peng Zhang, CMA
Rapporteur: Jérôme Lafeuille, WMO

- WGIII/0 Objectives
- WGIII/1 Review of actions and recommendations from previous meetings
- WGIII/2 Status of implementation of the CGMS baseline
- WGIII/2.1 Mapping of planned missions against the baseline
- WGIII/2.2 Continuity issues, risk analysis
- WGIII/3 Space-based observing system review and optimisation
- WGIII/4 Integration of R&D missions (research to operations transition)
- WGIII/5 Socio-economic benefits of space missions
- WGIII/6 Review and updating of the HLPP
- WGIII/7 Any other Business
- WGIII/8 Planning of inter-sessional activities/meetings [CGMS-42 → CGMS-43]
- WGIII/9 Review of actions, conclusions, preparation of WG report for plenary

Coffee break: 10:30-11:00 (Room #tbd)
Lunch: 12:30-13:30 (Room #tbd)

CGMS-42 WORKING GROUP IV – DRAFT AGENDA AND PROVISIONAL SCHEDULE Global data dissemination

Monday 19 May 2014, 08:00-08:30, room #tbd

Briefing with all WG Chairs, rapporteurs and the CGMS Secretariat

Monday 19 May 2014, 14:00-18:00

Room: #tbd

Co-chairs: Vasily Asmus, ROSHYDROMET, and Jae-Dong JANG, KMA

Rapporteur: Klaus-Peter Renner, EUMETSAT

- WGIV/1 Objectives
- WGIV/2 Review of actions and recommendations from previous meetings
- WGIV/3 Global DVB satellite services
- WGIV/4 Incorporation and dissemination of R&D and pre-operational mission data
- WGIV/5 Coordinated dissemination services for:
 - WGIV/5.1 Disaster mitigation purposes
 - WGIV/5.2 Ocean user community
- WGIV/6 Global data exchange of data from next generation GEO satellites
- WGIV/7 development of coordinated approach for compression of data, incl. geo location, from high-resolution imaging instruments
- WGIV/8 Contribution to the WIS infrastructure incl. RMDCN
- WGIV/9 Coordination of metadata for satellites and instruments
 - WGIV/9.1 Task force on metadata
- WGIV/10 Data access portals, harmonisation between different portals
- WGIV/11 User dialogue and interface
 - WGIV/11.1 Response to region-based requirements for satellite data access and exchange
- WGIV/12 Review and updating of the HLPP
- WGIV/13 Any other Business
- WGIV/14 Planning of inter-sessional activities/meetings [CGMS-42 → CGMS-43]
- WGIV/15 Review of actions, conclusions, preparation of WG report for plenary

Coffee break: 15:45-16:15 (Room #tbd)

AD-HOC MEETING ON SPACE WEATHER

Wednesday 21 May 2014, 09:00-13:00

Room: #tbd

Chair: Suzanne Hilding, NOAA

Rapporteur: Jérôme Lafeuille, WMO

- 1 Introduction
- 2 Status of actions from CGMS-41
- 3 Updates by CGMS Members and partner organisations on their space weather activities and plans:
 - Operational or “sustained” space-based missions observing space weather
 - Space weather services, in particular in support of spacecraft operations
 - Report on space weather induced spacecraft anomalies
- 4 Review and endorsement of the CGMS Space Weather ToR and proposed establishment of a Working Group on Space Weather
- 5 OSCAR
 - Overview of OSCAR/space and its usage to support the work of the SW group
 - Mechanism to provide input for OSCAR/space regarding space weather missions of CGMS members and partner organisations
- 6 Process for collecting Space weather induced spacecraft anomalies
 - Review the procedure for reporting these anomalies
 - Discuss the need of information on observed or planned periods of critical space weather activity with potential impact on spacecraft operations
- 7 Develop a response to the actions from the WMO Implementation Plan for Evolution of Global Observing Systems:
 - Coordinated planning of solar, solar wind and interplanetary magnetic field observations and data sharing
 - Coordinated planning for plasma and energetic particle environment observations and data sharing
 - Timeliness and availability of GNSS radio-occultation data
 - Availability of dual-frequency radar altimeter observations for use in ionospheric models and TEC monitoring
- 8 Conclusions

Appendix B: Draft WMO input

	Plenary / WG item	Title (to be confirmed)	Responsible	Comments
1	Plenary/C.1	Use of satellite data in WMO Climate Assessments	O. Baddour	WP to include (i) the annual WMO Statement on the State of the Global Climate, (ii) the climate statement for Africa, (iii) the decadal climate statement 2001-2010, with a focus on (a) satellite products used, (b) satellite products possibly required in the future, and (c) seeking feedback and support for these future inputs
2	Plenary/H.3.1	GCOS Progress Report and new Implementation Plan	C. Richter	WP to include references to the GFCS priority areas, describe mechanisms to establish detailed observation requirements for these e.g. through GCOS-sponsored workshops on adaptation and mitigation-related observation needs and indicate the expected participation of CGMS satellite operators
3	Plenary/C	Update on GFCS governance and projects	F. Lucio	WP to describe progress in (i) policy and governance of the GFCS including the advisory committees (e.g., have CEOS and CGMS been invited to join the PAC?), (ii) technical aspects of GFCS such as projects funded or planned in support of GFCS; the paper should include the Draft Resolution on Climate Data Policy, as a result of the related EC Task Team
4	Plenary/C.2	Emergency satellite support to disaster risk reduction	J. Lafeuille, T. Peng, M. Golnaraghi	WP should describe improvements in TC forecasting using satellites; highlight gaps in coordinating rapid responses by satellite agencies in providing additional sensor coverage or product dissemination to areas at risk of disasters; describe the role of RSMC-TCs and potential gaps eg. in Southern Indian Ocean; discuss how such coordination could complement the International Charter on Major Disasters
5	WG II/9	The Blue Planet Initiative (and POGO?)	B. Lee	Maybe for info in Plenary H.2 (Oceans)
6	WG II/9	Update on JCOMM Task Team on Satellite Requirements	B. Lee	Coordinate with D. Halpern; to be included in Plenary H.2 (Oceans) or in D. Halpern's paper (H.2.1)?
7	WG I/2	Preliminary WMO position on frequency protection for WRC-2015	D. Thomas	To report on outcome of SG-RFC
8	WG IV/9	Role of the WMO Inter-Programme Expert Team on Metadata and Data Representation	S. Foreman	WP to clarify the role of IPET-MDRD and what input is expected from the WMO-CGMS Task Force on meta data implementation (CGMS Action 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)

	Plenary / WG item	Title (to be confirmed)	Responsible	Comments
9	WG IV/11 or WG III/3	Results of the Coordination Group on Satellite Data Requirements for Region III and IV	S. Bojinski	WP to describe the results of the RA-III-IV Satellite Data Requirements Group regarding the NOAA GOES-13 optimized scanning schedule; WP to include results of regional user survey
10	WG IV/10	Demonstration of WMO Product Access Guide	S. Bojinski, J. Lafeuille	M. Rattenborg to assist
11	WG II/2	Update on SCOPE-Nowcasting	S. Bojinski, A. Rea	
12	WG II/10	Review of Observation Requirements and Satellite Needs for Atmospheric Composition	D. Terblanche	Potentially item for Plenary and talk in WMO session, instead of "Emergency response", given the air quality concerns in China?
13	WG III/2.2	Updated risk assessment and gap analysis	J. Lafeuille	+ Plenary presentation
14	A-SW/4,5,7	Terms of Reference and WMO Support to CGMS Space Weather Activities	J. Lafeuille	
15	WG II/10	Highlights of Commission for Agricultural Meteorology, 16 th session	B. Stefanski	Session 10-15 April 2014, preceded by TECO
16	Plenary/F.1.2	VLab Report of Activities 2013-2014	V. Gärtner, K.-A. Caesar, S. Bojinski	Update on VLab Activities, including TF situation; nomination of new VLab co-chair, seeking CGMS endorsement
17	WG III?	Long-term Data Preservation Guidelines	O. Baddour	Reaction of CCI to GEO Long-term Data Preservation Guidelines; WP needed?
18	WG IV/8	Satellite data in the WIS	D. Thomas, S. Foreman	Status of satellite data registration and ingestion into the WIS catalogues and the GTS; call upon all operators to comply (based on ET-SUP paper)