

CGMS-XXVIII  
Prepared by: USA  
Agenda Item: A.5  
USAWP-01

## **USA Review of CGMS XXVII Action Items**

### Summary and Purpose of Document

Lists CGMS XXVII Actions and provides Status of US responses to various Actions
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## SUMMARY LIST OF ACTIONS

October 3, 2000

### (i) **Permanent actions**

1. 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.

Status: US provided the Secretariat information on the current status of the operational and future geostationary/polar programs.

2. 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.

3. All satellite operators to provide NOAA/NESDIS with information on unexplained anomalies for study, and NOAA to provide solar event information to the satellite operators on request and a status report on the correlation study at each meeting.

Status: No Information on unexplained anomalies received from CGMS members.

### (ii) **Outstanding actions from previous meetings**

ACTION 26.50            Japan and PRC to study the possibilities for back-up of product generation and inform CGMS XXVII of the progress in their discussions.

ACTION 26.52            India to study possibilities for supporting the CGMS principles on regional contingency planning and transmit them to higher authorities and report at CGMS XXVII.

ACTION 26.53            India to actively promote the use of INSAT data throughout the Indian Ocean region and inform CGMS XXVII of such use.

### (iii) **Actions from CGMS XXVII**

ACTION 27.01            (1) EUMETSAT, Japan and USA to implement the monitoring of IDCS performance using the agreed set of reporting statistics and report to CGMS Secretariat.

(2) CGMS Secretariat to report on the effectiveness of this scheme at CGMS XXVIII.

Status: US continues to provide monitoring statistics and monthly reports

via the GOES DCS home page, <http://www.dcs.noaa.gov>.

ACTION 27.02 NOAA/NESDIS to provide information on the status of its plans for direct broadcast services on the NPOESS satellites at CGMS XXVIII.

Status: USA will provide information on NPOESS broadcast service at CGMS XXVIII. See USA-WP-06

ACTION 27.03 CGMS Members to inform USA if they wish to propose experimental payloads for future GOES Satellites by 15 December 1999.

Status: No proposals were received from CGMS members.

ACTION 27.04 Japan to place the draft MTSAT, HiRID, LRIT and WEFAX schedule on the WMO server.

ACTION 27.05 All CGMS satellite operators to review the Tables in Appendix A of WMO-WP-03 and provide any updates to WMO prior to 31 December 1999.

Status: USA reviewed the Tables in Appendix A and provided updates of the current geostationary and polar spacecraft to the WMO, January 2000.

ACTION 27.06 The Secretariat and Drafting Committee for the CGMS Consolidated Report to complete the following by 31 December 1999:

(i) CGMS Secretariat in cooperation with WMO to draft the “general” CGMS sections and send the drafts for comments and approval to the members of the drafting committee.

(ii) Members of the drafting committee to comment or approve the text.

(iii) Each CGMS Member to update the sections referring to its organisation and to send these to the CGMS Secretariat. The representative of the drafting committee will be responsible for coordinating the inputs of its organisation.

Status: USA provided input for the Consolidated Broadcast Guide, June 2000.

ACTION 27.07 CGMS Members to announce the names of participants of the Conference Preparatory Meeting and the World Radio Conference 2000, which will support meteorological issues. The announcement shall be done using the WMO list server: cgmsfreq@www.wmo.ch

Status: USA representatives to the WRC 2000 were Richard Barth and David McGinnis.

ACTION 27.08 Japan and USA to inform CGMS by 31 December 1999 on their plans and the dates to when the partition plan for the band 1675 – 1710 MHz would be fully complied.

Status: USA informed CGMS at CGMS XXVII that it does not plan to partition the 1675-1710 MHz as part of its ongoing GOES procurement. Making a change of this nature to the current spacecraft contract is cost prohibitive. Partitioning the band may be considered for the next generation GOES planned for the 2007-2010 time frame.

ACTION 27.09 CGMS Members planning the use of the frequency band 7750 – 7850 MHz to start allocating the band from its edges.

Status: US will provide on allocations in the frequency band 7750 – 7850 MHz at CGMS XXVII. See USA-WP-17.

ACTION 27.10 CGMS Members to notify national ITU representatives of the benefits of meteorological satellites in seeking an exemption from costing recovery for satellite network filings of these systems.

Status: See USA-WP- 15.

ACTION 27.11 All satellite operators to inform their responsible Telecommunication Administration (with copy to JMA) before MTSAT will be operational, that they are convinced that there would be no unacceptable interference between MTSAT and their satellite systems in UHF, S-band and USB.

Status: SA observed the possibility of some interference based on cursory observation of MTSAT spacecraft specifications. See USA-WP-17(1).

ACTION 27.12 USA to provide detailed technical information on the new location system for interference to the IDCS to CGMS Members.

Status: See USA-WP-18.

ACTION 27.13 Satellite operators performing cross-calibration to study the importance of

cloud clearing and near nadir viewing for inter-comparisons and to report at the next meeting.

Status: This is an ongoing activity with EUMETSAT, see USA-WP-19.

ACTION 27.14

All satellite operators to initiate investigations whether spectral response functions of current and previous satellites are potentially erroneous and quantify the error if possible.

Status: Mike Weinreb posted information on web site about GOES SR on the GOES calibration page at: <http://www.oso.noaa.gov/goes/goescal.htm>). The specific site is [http://www.oso.noaa.gov/goes/goes\\_8\\_and\\_10\\_srfs.htm](http://www.oso.noaa.gov/goes/goes_8_and_10_srfs.htm).

ACTION 27.15

All satellite operators to report at the next CGMS on activities concerning satellite radiance applications over land (e.g. thermodynamic soundings, surface albedo).

Status: USA-WP-20 reports on initial research results regarding corrections for surface emissivity in the IR retrievals

ACTION 27.16

All satellite operators to propose at the next CGMS which information should be put into a data base to be used in future satellite data reprocessing activities.

Status: US have identified the following key datasets that would be needed for reprocessing purposes:

- GOES imager and sounder data (McIDAS and/or simple binary format)
- calibration coefficients, etc., model data (GRIB or McIDAS format)
- coefficients (radiance bias correction, SFC temperature, etc)
- validation datasets (mandatory/significant level radiosonde data; model analyses data; other) surface observations (McIDAS format).

The primary format of this data should be McIDAS since all of our geostationary product processing is done within the McIDAS environment. This would make any reprocessing effort a bit easier.

ACTION 27.17

Satellite wind producers to review utilisation of their AMVs with their respective NWP centers and report on these efforts at the next CGMS.

Status: JMA took action to poll NWP centers on their utilization of winds;

## 1) EMC's current use of NESDIS wind products

<b>EMC Assimilation Network Using Satwinds</b>						
<i>Product</i>	<i>Coverage</i>	<i>Frequency</i>	<i>ETA/EDAS</i>	<i>NGM/RDAS</i>	<i>AVN/MRF/ GDAS</i>	<i>RUC-II</i>
<b>Cloud-drift</b>	NH,SH	8x/day	<b>YES</b> Ocean Land (South of 20N) +/- 1.5 hrs	<b>YES</b> Ocean Land (South of 20N) +/- 1.5 hrs	<b>YES</b> Ocean Land +/- 1.5hrs	<b>YES</b> Ocean Land (South of 20N) +/- 2.5 hrs
<b>WV</b> (cloud-top)	NH,SH	8x/day	<b>YES</b> Ocean Land (South of 20N) +/- 1.5 hrs	<b>YES</b> Ocean Land (South of 20N) +/- 1.5 hrs	<b>YES</b> Ocean Land +/- 1.5hrs	<b>YES</b> Ocean Land (South of 20N) +/- 2.5 hrs
<b>WV</b> (clear-air)	NH,SH	8x/day	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>YES</b>
<b>VIS</b> (low level)	NH/SH	5x/day	<b>NO</b>	<b>NO</b>	<b>In testing</b>	<b>YES</b>

- 2) On July 19,2000 EMC officially made the switch to use the BUFR wind datasets
- 3) EMC is currently examining the impact of thinning the high density wind datasets. Data thinning tests involving the use of the quality control flags (RFF and QI parameters) are underway.

**ACTION 27.18** WMO to query NWP centers on the utilization of the BUFR format and report at CGMS XXVIII.

**ACTION 27.19** JMA on behalf of CGMS to submit the selection criteria at NWP centers for the cloud tracked winds to WGNE/JSC and ask for comment on the wide range of given observation errors.

**ACTION 27.20** EUMETSAT to make an effort to utilize the 5 minute-scans for wind derivation and conduct a comparison with wind fields from the standard 30 minute-scans.

- ACTION 27.21 IWW5 to advise the CGMS at the next meeting with regard to the NWP SAF proposal to post their results from NWP monitoring of all satellite tracked winds on the Internet.
- ACTION 27.22 JMA to invite NASDA to present further information on the Global Change Observation Mission at CGMS XXVIII.
- ACTION 27.23 EUMETSAT to invite ESA to provide further information on ENVISAT and the Earth Explorer Mission at CGMS XXVIII.