

Report from Working Group II – Satellite Data and Products

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Rapporteurs: Johannes Schmetz (EUMETSAT), Mitch Goldberg (NOAA)

Overview of CGMS WG II

Purpose: WG II is the forum where aspects of technical and scientific nature related to instrument calibration, and satellite data and products are discussed.

Agenda:

WGII/2 Image Processing Techniques

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

WGII/9 Ocean Parameters

WGII/10 Other Parameters and Products (Space weather; Other..)

WG II – Working Papers

- 55 Working Papers from 12 different CGMS members
- Including reports from International Science Working Groups
 - Covered in plenary talks by Int'l Science Working Group co-chairs

WG-II: Actions/Recommendations

- R: CGMS agencies to routinely provide instrument performance monitoring information on their respective websites.
- R: All CGMS members should actively participate in GSICS, including in developing the GSICS vision for the next 5-10 years

“Our operational system for calibration is totally based on GSICS since it is the community-agreed calibration standard.” (CMA, WG II, 5 Nov 2012)

WG-II: Actions/Recommendations

- A: 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. The related scientific development should be considered as a pilot activity of the WMO SCOPE-Nowcasting initiative.
- R: CGMS recommends 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.

WG-II: Actions/Recommendations

- R: CGMS members to actively participate in the Polar Space Task Group, which coordinates space agency responses to polar and cryosphere-related user requirements including those in support of the WMO Global Cryosphere Watch (GCW)
- R: CGMS members to support initiatives facilitating the use of satellite-derived information in developing countries, such as in the WMO Severe Weather Forecasting Demonstration Projects (SWFDP)
- R: CGMS members to participate in phase 2 of SCOPE-CM by responding to the call for proposals to be issued in January 2013

WG II comments on HLPP

- The need to keep a technical and scientific focus in CGMS discussions
- The need to coordinate with other programmes and activities, such as CEOS and WCRP
- GSICS to achieve fully consistent calibration of relevant satellite instruments across operational CGMS agencies, using the high-quality calibration of satellite instruments from research agencies

WG II comments on HLPP

- Continuous improvement of satellite products through validation and intercomparison, through international working groups [incl. CGMS ISWGs] and SCOPE-type mechanisms [incl. SCOPE-CM, -Nowcasting]

Thank you for your attention.