

Title GRWG Web Meeting

Date 16 Dec 2008, 1200 – 1400 UTC

Participants EUMETSAT: Marianne König, Tim Hewison
CMA: Peng Zhang, Xiuqing Hu, Yuan Li, Zhiguo Rong, Jingjing Liu, Yong Zhang, Ling Sun
JMA: Yoshihiko Tahara, Arata Okuyama, Koji Kato, Ryuichiko Nakayama
KMA: Dohyeong Kim
NESDIS: Xiangqian Wu (Chair), Robert Iacovazzi, Likun Wang, Rama Mundakkara
WMO: Jerome Lafeuille

Agenda

1. Web Meeting Tools
2. GSICS Hierarchical Algorithm Update
3. Actions from EP-5 and Agenda for GRWG-4
4. Member Reports
 - a. NOAA
 - b. CMA (shortened due to technical difficulty)
 - c. KMA (canceled due to technical difficulty)
5. Actions

The 2nd web meeting of the Global Space-based inter-Calibration System (GSICS) Research Working Group (GRWG) was scheduled for 25 Nov 2008 but was postponed to 15 Dec 2008, due to technical difficulties.

1. Web Meeting Tools

This is the first meeting conducted with Centra software, although basic training has been provided on 25 Nov 2008. Technical support by EUMETSAT is appreciated. It was noted that:

- All need to get more proficient with the tool
- All are reminded that web presentations may take a bit longer than face-to-face meetings
- CMA and KMA still have difficulties to make presentation
- NOAA is recommended to purchase and install the Centra software.

2. GSICS Hierarchical Algorithm Update

T. Hewison provided an update of GSICS hierarchical algorithm documentation, accompanied with a detailed example for SEVIRI-IASI. Participants applauded his effort and agreed to write the Algorithm Theoretical Basis Document (ATBD) for one pair of

instruments they are inter-calibrating following the proposed hierarchical structure. Since some algorithms are based on NESDIS algorithm, it helps for NESDIS to complete its ATBD sooner. We should discuss this topic again in Tokyo meeting, reviewing our experience and the questions Tim posed on p. 12 of his presentation.

3. Actions from EP-5 and Agenda for GRWG-4

J. Lafeuille briefed the meeting on the 5th Executive Panel Meeting in Nov. In addition to highlighting the major achievements, he drew attention to the 2009 Operation Plan and Actions from past EP meetings. M. König suggested forming the Tokyo meeting agenda based on these plan and actions. X. Wu agreed to develop the agenda in more details, e.g., working with members to draft initial response or recommendations. He also noted the offer by CNES to make the SADE database partially available to the GSICS community and agreed to coordinate a GRWG response. Members are encouraged to send request and comment to him.

4. Member Reports

4.1. CMA

Y. Liu reported calibration work using ground observations at Dunhuang site.

4.2. KMA

Inter-calibration of MTSAT-1R with AIRS and IASI has been implemented at KMA, as well as vicarious calibration of the visible channel using a desert site characterized by SeaWiFS and MODIS. Investigations are on going regarding the impact of scene homogeneity and method of spectral convolution. Unfortunately KMA did not present their results due to technical difficulties.

4.3. JMA

Y. Tahara noted outliers in JMA's inter-calibration of MTSAT-1R 3.8 μm channel with both AIRS and IASI, which were attributed to solar contamination of the measurements around satellite midnight. He also raised the question whether the Major Axis or Reduced Major Axis regression is more appropriate than the conventional Least Squares regression since the independent variable may also contain error.

4.4. NOAA

L. Wang presented recent research results using GSICS tools and data. He showed that long term monitoring using multiple inter-calibrations, including double differencing, can increase confidence of GEO-LEO inter-calibration and offer a complementary way for LEO-LEO inter-calibration. T. Hewison recommended plotting the standard deviation of the double differencing.

5. Actions:

5.1. Old Actions (080930 Meeting)

1. R. Iacovazzi, in collaboration with M. Uz, will conduct further tests on Centra, bi-lateral initially and multi-lateral later.
Executed. Lingering problems remain. New actions are needed.
2. T. Hewison will draft the IASI-SEVIRI ATBD as a basis for further consideration.
Completed. Further actions for the group.
3. X. Wu will coordinate the next GRWG tele-conference in late November. In addition to continuing the discussion on ATBD, other agenda will be developed.
Completed and closed.

5.2. *New Actions (081216 Meeting)*

1. X. Wu will explore the possibility for NOAA to host future web meetings using Centra software (090128).
2. R. Iacovazzi, possibly in collaboration with M. Uz (pending Action 1), will provide further training on Centra (090320).
3. X. Wu will distribute the hierarchical ATBD for GOES-AIRS (081231).
4. X. Wu will distribute the hierarchical ATBD (baseline version at GCC) for all GEO-LEO pairs (090128).
5. Y. Tahara will distribute the hierarchical ATBD for MTSAT-AIRS as installed at JMA (090128).
6. D. Kim will distribute the hierarchical ATBD for MTSAT-AIRS as installed at KMA (090128).
7. P. Zhang will distribute the hierarchical ATBD for FY-2C-AIRS as installed at CMA (090128).
8. T. Hewison will critically review the submitted ATBDs and report on how to organize them in various forms (table, HTML, wiki) (090128, if possible).
9. X. Wu, in collaboration with GRWG members, GDWG chair, GCC director, and EP members, will develop agenda for Tokyo meeting (090128, 1st draft by 081231).
10. X. Wu will coordinate a GRWG response to the EP Action regarding collaboration with CNES on SADE database (initial report 090128).