

GSICS MW SubGroup 13 May 2015, 1100 UTC

GRWG Microwave Sub-Group Web Meeting Wednesday, 13. May 2015 13:00 | Europe Summer Time (Berlin, GMT+02:00) | 3 hrs

Join WebEx meeting Meeting number: 958 827 146 Meeting password: gsics

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Agenda for Today

- Introduction, review of any old action items Ralph (10 min)
 - SMMR L1 Archive Ralph
 - GSCICS MW Products Tim
- Updates from the Annual GRWG/GDWG Meeting Tim (10 min)
- Ongoing/Emerging GSICS Topics ALL (60 min)
 - Linkages to CEOS MW subgroup Cheng-Zhi
 - Interactions with India Institute of Science Manik
 - GDWG MW products and standards Manik
 - JAXA's role in leading active MW Keiji
 - Updates from WGCV Plenary Meeting Tim, Dong?
 - Anything else?
- Science Report GMI Calibration Rachel (15 min)
- Preparation for GSICS Users Meeting All (10 min)
- Next meeting and wrap up (5 min)



Scope of Microwave Sub-Group

- Understanding the users' requirements for inter-calibration products for microwave instruments
 - Imagers + sounders passive only, initially?
 - Retrospective calibration
 - Forward looking calibration
- Identifying existing products that could meet those requirements, but first....
 - Need to define criteria...Reference standards (sensor(s), models, calibration methodologies....)
 - And then a process that adheres to GSICS principles
- Define data standards (jointly with GDWG)
- Encourage the creators of those products to submit them to the GSICS Procedure for Product Acceptance (GPPA), once its defined for MW
 - Candidates include Cheng-Zhi Zou (MSU-AMSU), Karsten Fennig (SSMI)
- GSICS Products could be developed within the Microwave Sub-Group.
- Coordination with other groups (such as the CEOS Microwave Sub-Group)
 would also be required to generate standards and best practices for microwave
 radiometer calibration (and potentially microwave radars).



Anticipated Focus Topics for Upcoming Year

Moving ahead with GSICS MW products/new opportunities:

- Continue to move forward on the NOAA MSU/AMSU product/methodology once the GDWG clearly defines generic standards for MW products
- Move forward with the EUMETSAT SSM/I (MW Imager) product/methodology
- Develop splinter group on bringing in SMMR data to MW imager time series

Tying together other groups/opportunities

- JAXA's participation with MW/imagers (e.g., AMSR-E and AMSR-2)
- Engaging more closely GPM X-Cal
- Linkages to CEOS MW subgroup future meeting in China and get China involvement in GSICS?

Upcoming Meetings of Interest and Relevance:

- GPM X-Cal June 3-4 2015, Fort Collins, CO, USA
- GSICS Users Meeting September 2015, Toulouse, France



Potential Actions/Topics from 2015 Annual GRWG/GDWG meeting

- JAXA to correspond with Microwave Sub-Group to consider whether GSICS products could/should be generated for active instruments such as DPR. (Keiji Imaoka)
- It was agreed that the UV and Microwave Sub-Groups should be encouraged to consider running sessions in parallel with the IR and VIS/NIR sessions respectively at the next annual meeting. (JMA/JAXA to host)
- NOAA to provide templates of proposed WMO file name and the content of the MW GSICS product on the GSICS wiki. (Manik, Ralph?)



What is a GSICS MW Product?

- MW products differ from those from VIS or IR because there are not potential SI standards to consider
- MW products can come in two classes:
 - Retrospective type products (FCDR "components" geolocation, scan biases, intersatellite corrections, etc.)
 - Forward looking (quasi-real time)
- A possible path forward:
 - Determine from users what specific MW products they would like to see from GSICS
 - Define a MW primary reference
 - WindSat or GMI for MW imagers?
 - ATMS for MW sounders?
 - A radiative transfer model like RTTOVS or CRTM?
 - Work with GDWG to define:
 - Data formats
 - Meta-data standards
 - Distribution mechanism
 - Work with the GCC to see how the products could be reviewed through the GPPA
- Two potential products?
 - AMSU-MSU (C-Z. Zou)
 - SSM/I (K. Fennig)



Backup Slides



Members

Signed up as at 2015-1-13

- NOAA (and affiliates) Ralph Ferraro (Chair), Huan Meng, Cheng-Zhi Zou, Manik Bali (Univ. Maryland), Isaac Moradi (Univ. Maryland), Hu ("Tiger) Yang (Univ. Maryland), Wenze Yang (Univ. Maryland), Jun Park (Univ. of Maryland)
- EUMETSAT (and affiliates) Tim Hewison, Karsten Fennig, Viju John, Jörg Ackermann
- NASA (and affiliates) Ed Kim, Linwood Jones (Univ. of Central Florida), Rachel Kroodsma (Univ. of Marylnad), Wes Berg (Colorado State Univ.)
- NIST David Walker
- CMA (and affiliates) Songyan Gu, Qifeng Lu, Lin Cheng, Hu Yang
- KMA (and affiliates) Jun Park, Dong-Bin Shin (Yonsei University, South Korea)
- JAXA Keiji Imaoka, Misako Kachi