



GSICS Coordination Center (GCC) Report GSICS Executive Panel Meeting 15

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**2014 GSICS Executive Panel Meeting
Guangzhou, China
May 16-17, 2014**



Outline

- **Staff change**
- **GCC progress**
 - *GSICS Quarterly*
 - *Meeting Support*
 - *Product promotion*
 - *Modification to GPPA*
 - *End-to-end demonstration*
 - *Awards and Outreach*
- ***Outcome of Annual GRWG+GDWG meeting in Darmstadt, Germany***
- ***Proposed Website***
- **Newsletter Article Acceptance and Review Procedure**
- ***Near Term goals***
- ***Approvals from EP***

Staff Change in GCC

- **New onboard: Lawrence E Flynn (Director GCC)**
Manik Bali (Deputy Director GCC)
- **GCC staff:**
 - Lawrence E Flynn: Director, Fuzhong Weng (till Mar 2013)
 - Manik Bali: Deputy Director, FangFang Yu (till Aug 2013)
 - Manik Bali: GQ Editor ,George Ohring(till Aug 2013)
 - Jonathan Engelberg and Anne Dunne : Consultants
 - Constant help from Fred Wu and Aleksandar Jelenak(left Jan 2014)

GSICS Quarterly Newsletter

- All *GSICS Quarterly* Volume 7 issues are completed and distributed.
- Positive feedback on GQ have been received
 - Starting Fall 2013 issue, brand new format of [GQ](#)
 - Features include, clickable navigation and Rate and Comment section.
 - The [Winter 2014](#) has a doi number.
 - Winter 2014 to be cited in a book written by NIST .
 - Spring 2014 issue to be cited in two papers and a website
 - Coming issues this year, to be special issues on UV and VIS

Considering increased requests for article submission, GCC would publish the procedure for acceptance of NL articles on the WIKI. Examples would be uploaded to inform authors of expectations and the review process.



Meeting Support

- **Formation of New Subgroup on UV**
- **All the web meetings hosted by EUMETSAT**
- **WMO CBS**
- **CEOS QA4EO GPPA**
- **GSICS Users workshop at NOAA April -2013**
- **GSICS Annual Meeting at EUMETSAT, May-2014**

Product Acceptance and Promotions

- **NOAA LEO-LEO MSU/AMSU FCDR product in Pre-Op phase**
 - Completed the review of the LEO-LEO product in four weeks time.
 - Upon the successful completion of the review product was promoted to Pre-Op phase. (*The File-Naming Convention was relaxed and this needs to be addressed.*)

Modification of GSICS Procedure for Product Acceptance- (Ongoing Activity)

- Existing GPPA works well with products that are a part of GSICS planned activity.
 - GSICS Meta Data , GSICS Filenaming conventions and maturity can directly be applied on the products though some modification is needed in Meta Data to extend these standards to all the channels (UV, Vis, MW) of the spectrum.

Present GPPA would be applied to transition GEO-LEO pre-op products to op.

However

- GPPA may not be directly applicable to third party products that are already are following their hosts conventions.
 - EP approval required to make changes to GPPA.
- GPPA needs to be simplified to help reviewers and data producers- make it online.
- Prepare a broad base reviewer panel to support the GPPA.



GCC working on identifying areas for improvement, EP approval required

Awards Outreaches

Awards

- In Oct 2014 GSICS handed out certificates to reviewers of MW product in order to recognize their efforts.
- Recognition certificates backed by WMO and CGMS.
- In all eight reviewers received these from GCC Director
- GCC proposes to broaden the awards category...
(More in M.Bali. et. al. presentation)

Outreaches

- Work with CEOS QA4EO on GPPA.
- Outreach with UMD and NIST.
- Supporting the 2014 Users' Workshop, in conjunction with CMA.

GEO-LEO

LEO-LEO

FCDR

GOES /IASI
SEVIRI /IASI
MTSAT-2/AIRS

IASI/HIRS

Microwave

Inter-Comparison at a glance

[Latest GSICS Newsletter](#)

Schedule meeting

Students interns register

About GSICS Co-ordination Center.

Become a GSICS member.

Get your product reviewed by GSICS experts

Become a VIS IR MW UV Model sub-group
member

Nominate scientist for GSICS award.

Contact US.

GSICS News:

GSICS Newsletter gets DOI number.

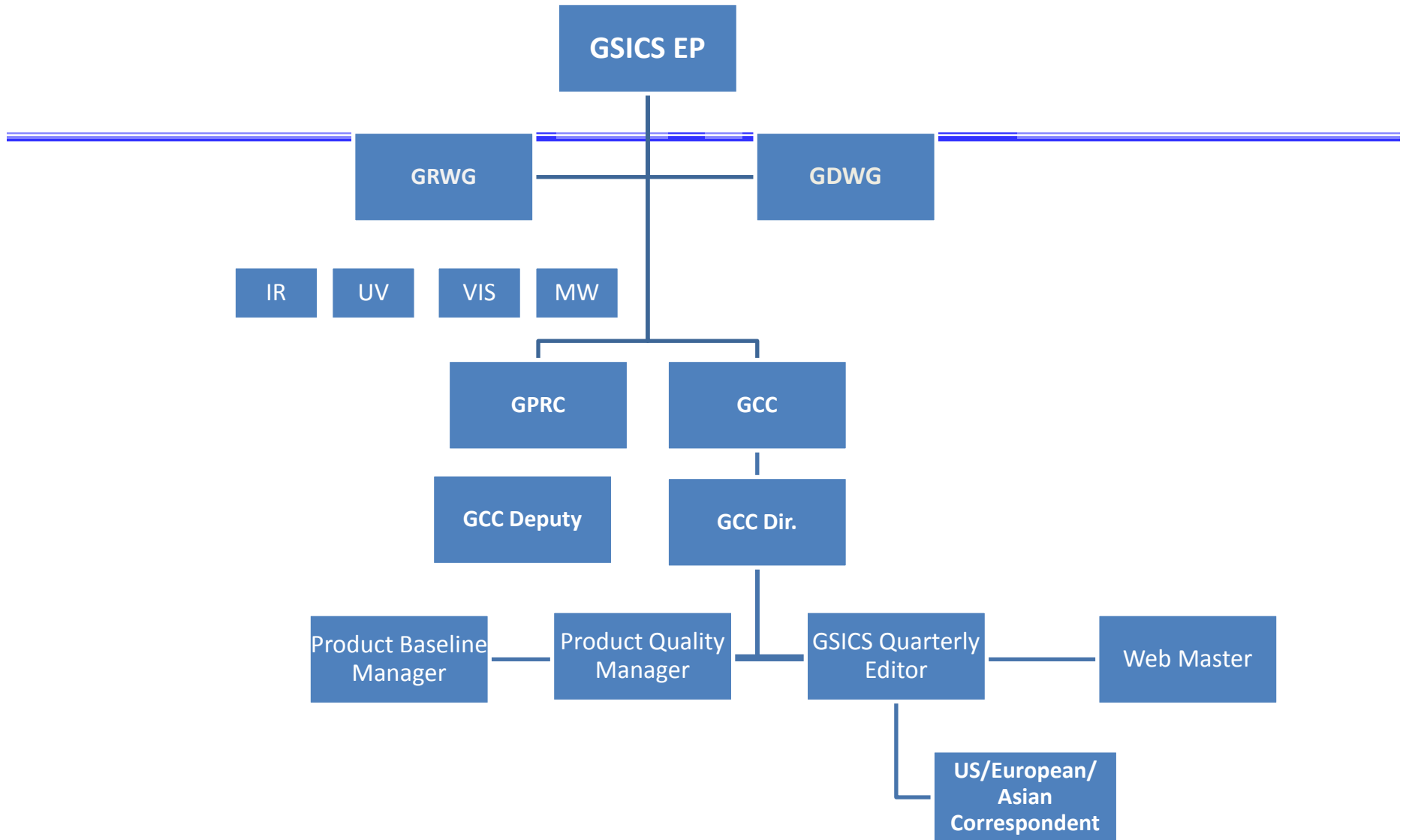
EUMETSAT to provide alternative calibration coefficients for
Meteosat-10/SEVIRI.

New AMSU/MSU inter-comparison products accepted by GSICS.

GSICS forms groups dedicated to UV and MW.

GSICS goes to the University.

Draft website



Each of these would be hyperlinked to a page.
 Chairs have been requested to supply information.

Newsletter Article Acceptance and Review Procedure (1)

Three months prior to its release, GCC puts up a message on the GSICS Dev server on an upcoming Newsletter and requesting members to contribute. (This time for completing the process is very tight.) A submission date is set. The description of acceptable length of article and number of figures are also stated.

1. The Articles are sent to the Editor of the Newsletter.
2. The editor goes through the article and checks the following:
 - i. The article is in scope of GSICS.
 - ii. The article follows the 700 word and two figure limits
 - iii. The article focuses on its intended topic.
3. If article does not conform to these standards it is sent back for to the author for revision.

Newsletter Article Acceptance and Review Procedure (2)

4. **Upon receipt of an acceptable article, the article is sent to a reviewer.**
 - I. Reviewers are normally members of GSICS sub-groups or people who have extensive experience on the topic.
 - II. Normally 1 reviewer is assigned to an article.
5. **A reviewer provides comments on the article.**

The editor iteratively coordinates the author's responses until the reviewer gives a go ahead.
6. **Upon receipt of a go ahead for all the articles in the Newsletter the Newsletter is formatted in the recently designed format to produce a draft version of the Newsletter.**

Newsletter Article Acceptance and Review Procedure (3)

7. The draft version is sent out to authors, reviewers, GCC Director, GRWG, GDWG Chair for a final check.
8. A opening letter is then drafted.
9. The newsletter is published using the GSICS User Messaging Service.

Special guidelines have been drafted for writing a lead article of a special issue.

The 'Meet GSICS Members' section is drafted by the Editor after taking inputs from the members.

News Section is normally done by the editor with the help of the news provider.

**GCC does not have the resources to review articles consisting of new unpublished results.
Between the reviewer and the author an of average two revisions occur.**

Outcome of the GSICS Annual Meeting

GCC Director represented GCC in the GSICS Annual Meeting. There were five action items on GCC (All were addressed).

Major Outcomes

- **GCC proposed to write a combined publication to a reputed journal on GSICS products (an Email has been sent in this regard to members).**
- **GCC to work with EUMETSAT and DWD to include DMSP FCDR as a GSICS product.**
- **GCC need to identify a user for advice on preferred format for delta correction.**
- **GCC is working on building a new website of GCC.**

Near-term 2014-2015 Goals

- **GSICS Procedure for Product Acceptance**
 - *Modify GPPA to accept more products (FCDRs, Delta Corrections, more Channels)*
 - *Two pre-op GEO-LEO IR products to operational phase*
- **Coordination**
 - *Continue to coordinate efforts to establish the GSICS baseline algorithms, especially those for the GEO solar reflective channels,*
 - *Continue to provide communication between the developing group and users.*
 - *Complete development of the proposed new website.*
- **GSICS Quarterly**
 - *Continue to create and distribute this important link to the GSICS community*
- **Meeting Support**
 - *Joint Meeting, GSICS Web Meetings and QA4EO telcons (if possible)*
 - *Organization of GSICS 6th Users Workshop*



Approvals Required from EP

In order to meet Near Term Goals GCC needs approvals from EP...

- FCDRs as GSICS Product.
- Awards (will be discussed separate presentation ...)
- GCC Newsletter Article Review Process
 - Is this just an internal GCC issue?
- Relaxation of GPPA guidelines for new products and operationalization of existing products.
 - Correct, category exists and the terminology that is normally used in GSICS is 'GSICS Products' and Third Party products.
 - We need EP's approval to deviate/apply relaxation in GPPA in the case of third party products (for example filenaming meta data).
 - In fact we need EP's guidance on the mechanism to be able to relax GPPA for promoting products.



THANK YOU

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- GCC to coordinate with WMO to add GSICS products catalogue to WMO OSCAR database.
 - GCC will discuss with GPRCs to prepare for the GSICS user conference 2014 to promote the GSICS products.
 - GCC shall take a look at WMO/CGMS documents to prepare templates for GSICS documents and provide these to the GDWG for discussion.
 - GCC shall provide a Document Management Plan (for example NOAAs) to the GDWG so that GSICS has a framework to publish documents.
 - GCC and Tim Hewison to follow up on the support to CEOS WGCV regarding the GPPA as an example for best practices for QA4EO - after reviewing at web meeting in Summer 2014.

Operations Plan Updates: Unfulfilled Actions

- GRWG06_19: Update GPPA to reflect delta correction due to migrating reference Status: Open, need update file not make a new product
- GRWG06_23: ER2 underflights June 2011 Status: Old action item (Fang Fang to explain why it is closed)
- GWG_13.12: GEO to GEO differences (for NOAA and EUMETSAT Status: Will be discussed in the IR Subgroup
- Joint07_3R GRWG for LEO IR and GEO IR Status: Xingming Liang will present status of this action item in the meeting
- GWG_13.31: Transfer of GCC responsibilities to WMO. Status: Answer is no, Completed/Closed.

Summary of 2013 GSICS Users' Workshop

- Hosted by NOAA/NESDIS/STAR in College Park, Maryland, the United States on 8 April 2013, in conjunction with the first NOAA Satellite Conference
- More than 50 people from 15 agencies, universities and private companies attended
- A total of 14 oral talks, together with 10 posters presented during the workshop.
- Workshop included four sections: Introduction and Updates on GSICS, insights of current and future instrument inter-calibrations, Users' feedback and requests, and Questions and discussion on the future potential products.
- All the oral presentations and the workshop minutes are available at: <https://gsics.nesdis.noaa.gov/wiki/Development/UsersWorkshop2013>



Outcomes of 2013 GSICS Users' Workshop

- **Success of GSICS products displayed by the Users**
 - Successful applications of the GSICS spectral response function corrections to improve the GOES imager data quality
 - Some examples of GSICS correction products to improve some GOES Sounder MTSAT products
- **Users plan to continue the investigation of the GSICS correction product impact on the L2 and L3 products**
- **GSICS Inter-calibration is expected to play an important role in the GOES-R on-orbit cal/val project**
- **Users' Requests**
 - Satellite operational anomaly alerting system for the GOES-R series
 - New GSICS sub-groups, ultraviolet (UV) and synthetic observation sub-groups, for a better understanding of UV instrument calibrations and radiative simulation performance
 - Intermediate data-sets requested during the off-line discussion



Request of current GEOLEO IR products to Operational Status

- **EUMETSAT/NOAA GEOLEO IR products are very close to meet the operational criteria**
 - Decision in 2014 annual meeting: The diurnal calibration variation should be provided in GEO-LEO IR products before promotion to operational status.
- **Request to promote the pro-op products to op status as the currently are.**
 - All the GEO IR channels have midnight issue.
 - Causes to the midnight GEO-LEO bias are different from the “day-time” data (data beyond the midnight time). SEVIRI has straylight issue while GOES has the stray-light + non-perfect blackbody (midnight blackbody calibration correction) issues
 - All the current documentations (published and unpublished) are focused on the data beyond the midnight time, in consistent with the current GEOLEO IR products.
- **Continue efforts to develop and implement a IR midnight correction**
 - The diurnal variation correction (or midnight data correction) may be published in a new version of operational product or a new product if a new ATDB is available.



Proposed GCC/GDWG discussion on a better solution to tracking GSICS

Actions:

- Suggested improvements:
- Add date closed – or replace due date
- Allow actions raised in web meetings to be entered
- With consistent numbering of actions
- Identify responsible person for each action
- Automatic reminders
- Allow outcomes to be recorded
- inline/links
- Allow items to be filtered by actionee, status, date, ...
- would allow customised views

Diurnal Variation in the GEOLEO IR Product

- **Decision:** The diurnal calibration variation should be provided in GEO-LEO IR products before promotion to operational status.
- **Recommendation** for EUMETSAT to use analysis done by Fangfang, quantify the diurnal variations on a monthly basis.
- **Action:** Fangfang Yu to propose what the variables should be in the NetCDF file to provide information on the calibration diurnal variation, and report to GRWG.