



GSICS Working Group on Data Management

Chair Report



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Topics for GDWG-II Discussion



- **GSICS Cooperation Servers**
- **Sample Data sets**
- **Refinement of Metadata**
- **Software and Documentation configuration control**
- **User Workshop
(Co-located with EUMETSAT conference in Bath ?)**
- **Web Site and Web Portal**

GSICS website <http://www.orbit.nesdis.noaa.gov/smcd/spb/calibration/icvs/GSICS/index.html>

Members of the GDWG



Volker Gärtner **Chairman**

Bruce Barkstrom

Aleksandar Jelenak

Peter Miu

Arata Okuyama

Rong Zhiguo

Jérôme Lafeuille

EUMETSAT

NOAA *

NOAA

EUMETSAT

JMA

CMA

WMO

Support from

Tim Hewison

Harald Rothfuss

Bob Iacovazzi

EUMETSAT

EUMETSAT

NOAA

* **Bruce retired in autumn 2008**

Recommendations from GDWG-II (1)



GDWG2R1 - EUMETSAT will take the lead in implementing a prototype collaboration data management server according to their presentation of the concepts for such a server.

GDWG2R2 - The generic data flow diagram should be taken as a basis for the definition of source and product formats. The group recommended that the GSICS data format should be NetCDF4.

GDWG2R3 - The members of the GDWG should create data format templates in accordance with the generic data flow diagram. The GSICS partners should use these formats in generating their data and products.

GDWG2R4.- A draft GSICS service specification document, including a list of deliverables, should be written by GCC for review by the GSICS members and approval by the GSICS executive panel.

Recommendations from GDWG-II (2)



GDWG2R5- GSICS should seek feedback from the user communities (e.g. RSSC, NWP) on the list of deliverables defined in the service specification.

GDWG2R6 - GCC should display the generic data flow diagram on the GSICS web site showing the data organisation and related processes. A description of archive data format(s) should be provided here as well.

GDWG2R7 - The GCC web site should have samples of all satellite comparison results from GSICS members.

GDWG2R8 - GSICS members should host on their Web sites their GSICS specific pages. These will be linked to via the GCC central website.

GDWG2R9 - It was recommended to upgrade the central GSICS Web site at GCC into a GSICS portal in the medium term future (end of 2009 ?)

Recommendations from GDWG-II (3)



GDWG2R10 - A GSICS Wiki should be installed on the GCC central GSICS web site that allows GSICS partners to regularly provide input to.

GDWG2R11 - All GSICS partners are invited to support GCC to keep the central GSICS pages up to date.

GDWG2R12 - The GPRCs should create Algorithm Theoretical Basis Documents (ATBD) explaining the processes and algorithms applied in their product generation processes.

GDWG2R13 - The GPRCs are invited to create a common style/template for presenting their graphs and tables.

GDWG2R14 - Documentation exchange should be in PDF format.

GDWG2R15 - The WMO is invited to investigate the registration of the GSICS web site domain, www.gsics.int.

Actions from GDWG-II (1)



ACTION No.	ACTION	ACTIONEE	Status Jan 2009
•WG 2 / 01	•Development of a GSICS data management server	Peter Miu 4th Quarter 2008	Ongoing at EUMETSAT and NOAA. On track
•WG 2 / 02	<ul style="list-style-type: none"> •Using the generic data flow definition; specify the set of data formats needed to support GSICS. •Specification to be distributed to GPRCs for implementation. 	Bruce Barkstrom Aleksandar Jelenak Peter Miu End April 2008	Done. Data Flow Diagram is the on the GCC website
•WG 2 / 03	•Creation of the first set of source data sets.	EUMETSAT, JMA, NOAA End July 2008	EUMETSAT SEVIRI and IASI NetCDF formats have been prepared and the test data will be delivered to the partners JMA created a NetCDF3 collocation data set as well
•WG 2 / 04	<ul style="list-style-type: none"> •Investigate the registration of the official GSICS domain name. •As indicated by WMO during GDWG-2, WMO confirmed on 29 May its readiness to create "gsics.wmo.int" as was done e.g. for "cgms.wmo.int". This can be done when the host server will be defined. Action in stand-by since 29/05/08 pending indication of the host server. •It was agreed on gsics.wmo.int 	Jerome Lafeuille 4th Quarter 2008 All to decide?	Done. A host server still needs to be identified.

Actions from GDWG-II (2)



ACTION No.	ACTION	ACTIONEE	Status Jan 2009
•WG 2 / 05	<ul style="list-style-type: none"> •GSICS central server (GCC) Updates: <ul style="list-style-type: none"> •1. Documentation: <ul style="list-style-type: none"> • 1.1. Operation Service Specification. • 1.2. Generic Data Flow Diagram • 1.3. Links to the GPRC web sites •2. Presentation of Results. •3. Installation of a Wiki application. 	GCC (Robert Iacovazzi) End July 2008	Partly completed. 1.1. to be reviewed at Exe. Panel in Maspalomas GCC to sent the latest version to WMO (Jerome) 1.2. On GCC website 1.3. Done 2. First set of results are available at Web sites of NOAA, JMA and EUMETSAT. 3. Done by NOAA
•WG 2 / 06	<ul style="list-style-type: none"> •GPRCs shall create common style/tables for graphs and tables. •Supply this common style to GCC. •NOAA, JMA and EUM have similar styles. 	GPRCs End July 2008	Initial design of the presentation styles is available. GRWG needs to give feedback on the styles used by NOAA, EUMETSAT and JMA on their Web pages..
•WG 2 / 07	<ul style="list-style-type: none"> •GPRCs shall create their GSICS web pages. 	EUMETSAT, JMA, 4th Quarter 2008	Some Web sites exist. Other partners are invited to follow.
•WG 2 / 08	<ul style="list-style-type: none"> •GCC investigate necessary steps to develop the central GSICS Web site into a GSICS portal. 	GCC End 2009	Open.

Actions from GDWG-II (3)



Further actions had been identified during the teleconference on 28th Oct.

ACTION No.	ACTION	ACTIONEE	Status
•WGT 1 / 01	EUMETSAT test data sets to be sent to all GDWG mailing list members	EUM (Peter Miu) Deadline: End November 2008	Done
•WGT1 / 02	•Presentations from EUM, JMA and NOAA to be uploaded on the GSICS website	GCC (Bob Iacovazzi) Deadline: 15/11/08	Done
•WG T1 / 03	File extension .nc has to be requested for NetCDF. On 25/11/08 J. Lafeuille has forwarded the request to the WMO WIS branch, who consulted the presidents of Expert Team on Operational Implementation of the GTS. Awaiting reply.	EUM to talk to WMO Deadline: end 2008	
•WG T1 / 04	URL of WMO file name description to be sent to GDWG members	EUM (Peter Miu) Deadline: End October 2008	Done
•WG T1 / 05	Link to GPRC product pages (JMA and EUM) to be put on GSICS website (see WG 2 / 05).	GCC (Robert Iacovazzi) Deadline:15/11/08	

Actions from GDWG-II (4)



ACTION No.	ACTION	ACTIONEE	Status
•WG T1 / 06	Send latest version of the roster (Operation Service Specification) to WMO for discussion at the Exe Panel meeting in Maspalomas (see WG 2 / 05). Was approved by ExPanel with changes	GCC (Robert Iacovazzi) Deadline: End October 2008	Done
•WG T1 / 07	Acceptance procedure document to be sent to WMO (Jerome) Was approved by ExPanel	GCC (Robert Iacovazzi) Deadline: End October 2008	Done
•WG T1 / 08	Clarification regarding copyrights source of data	To be communicated to Exe Panel by GDWG chair Deadline: 7 November 2008	
•WG T1 / 09	A demonstration on JAVA viewer will be shown at next GDWG meeting in Tokyo.	NOAA (Aleksandar Jelenak) Deadline: End January 2009	



- **The GDWG is providing a service to the GRWG, so GRWG is invited to specify technical question which GDWEG will address.**
- **Routine exchange and provision of datasets to start in 2009.**
- **Acceptance procedure for GSICS products to be applied.**
- **Inventory of GSICS products to be promoted with key users – User workshop.**



Thank you and let's work together.

Issues (1)



➤ Collocation

- Determination and distribution of locations for simultaneous observations by different sensors (space-based and in-situ)
- Collocation with benchmark measurements

➤ Data collection

- Archive, metadata - easily accessible
- Retrieval of collocation datasets from the archives

➤ Software Version Control & Distribution

- Pseudo Code
- Actual Code if possible

➤ Documentation of Methods and Algorithms

Issues (2)



- **Data Formats & Accessibility**
 - **NetCDF, HDF, Binary, ...**
 - **FTP sites, Web Sites**
 - **Metadata**

- **Basic Calibration Information**
 - **Information provided by Satellite Operators**
 - **Inter-calibration results**

- **Deliverables to End Users – Product and Service Roster**

- **Common Catalogues – Web portal**

- **Inventory of historic Information**
 - **Sensor Data (manufacturer Info – Lab tests)**
 - **Spacecraft Events ...**

Collaboration Tool: GSICS Data and Products Servers



- A server where GSICS partners can upload their data into a 'rolling archive' for use by other partners.
- This data shall be made available for download via a web browser.
- Inter-calibration products created from this data can be uploaded back to the server into the same 'rolling archive' as the source data.
- These products shall also be made available for download via a web browser.
- The Operator of the server can optionally archive the inter-calibration products received. This requirement is mentioned here but is not within the scope of the GSICS Data and Products Server design.