



GSICS Working Group on Data Management

Chair Report

Volker Gärtner

volker.gaertner@eumetsat.int



Topics for GDWG-II Discussion

- **GSICS Cooperation Servers**
- **Data sets**
- **Metadata**
- **Software and Documentation configuration control**
- **Security Requirements**
- **Web Presence (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

Recommendations from GDWG-I (1)

- Provide on this Web site URLs to link to the GSICS GPRC/CSS Web sites' pages that provide information on their current and historic satellites. Information such as how these systems were calibrated and the relevant data sets used, which characterised their sensors (e.g. spectral response function, noise figures) should be accessible via these links
- Enable the GSICS partners to regularly provide input to the central Web site (e.g. publications regarding the operational calibration of the instruments, news, recent progress reports).
- On these individual GSICS GPRC/CSS web pages, make use of the GSICS logo
- Provide the characteristics of the collocation data sets shared by the GSICS partners (e.g. the sub-area defined, the frequency for which the data sets will be distributed, format guides and the recipients of these data sets)

Recommendations from GDWG-I (2)

- **Store useful tools such as data readers from GPRC/CSS, scientist and interested parties like the CSS.**
- **Store Wiki pages providing useful information such as algorithms, techniques, pseudo code recommended and used by GSICS partners. These can be reviewed and edited by all GSICS partners to facilitate sharing of knowledge.**
- **Store software code submitted by GSICS partners (this Web area will NOT be publicly accessible and will be limited to GSICS partners use only).**
- **Store a mailing list where emails sent can be automatically transferred to GSICS partners.**
- **Provide a software configuration environment where software developed between GSICS partners can be stored and versioned.**

Actions from GDWG-I (1)

ACTION No.	ACTION	ACTIONEE	
•WG 1 / 01	<ul style="list-style-type: none"> Investigate the possibility of providing a server to host the GSICS Web site together with registering a domain like www.gsics.int. 	Aleksandar Jelenak End July 2007	✗
•WG 1 / 02	<ul style="list-style-type: none"> Depending on the outcome of action 1, development of all services for the Web site. 	Aleksandar Jelenak	✗
•WG 1 / 03	<ul style="list-style-type: none"> Investigate whether it is possible for GSICS partners to receive MODIS data sets from NASA. 	Bruce Barkstorm End July 2007	✓
•WG 1 / 04	<ul style="list-style-type: none"> Define the metadata and catalogue schemes for data exchange. 	Marc Jenner End 2007	✓
•WG 1 / 05	<ul style="list-style-type: none"> Define the logical namespace for the files and documentation guidelines. 	Bruce Barkstorm End October 2007	✗

Actions from GDWG-I (2)

ACTION No.	ACTION	ACTIONEE
WG 1 / 07	<ul style="list-style-type: none">• GRWG shall define the co-location sub-area for each partner's data sets.	Volker Gärtner Fred Wu End June 2007
WG 1 / 08	<ul style="list-style-type: none">• Depending on the outcome of action 1, request the pseudo code / code offered by GSICS partners.	Aleksandar Jelenak



Suggestions for this GRWG-GDWG meeting

- **Review completion of June milestones**
- **Prepare future milestones / enable their completion**
- **End-user deliverables ? Form to be defined**



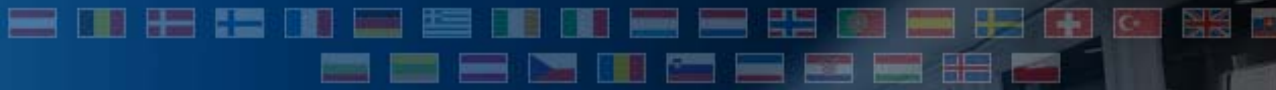
Issues (1)

- **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**

- **Common Catalogue**

- **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 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.