**Topics discussed at the breakout session**

* Review Websites
* Review Standards
* Existing netCDF format Updates
* New GSICS Products
* Data Versioning Updates
* Proposed MW Standards
* Repository for Code
* Existing tools updates
* Product Content Access Study
* Event log
* Clarification of storage of GSICS support data
* Tool for GRWG activities
* THREDDS Directory Structure
* Collaboration server mirroring of products
* Document Management System

**Notable action items**

**Collaboration Servers (THREDDS) major updates; mirroring of products across servers.**

Action: CMA to investigate if their GSICS source data download tool can be used to perform the transfer of GSICS products between the collaboration servers support the mirroring of the products can be achieved.

Action: NOAA to investigate the mirroring of EUMETSAT products on the NOAA server.

Action: CMA to check the proposed new THREDDS server's directory structure with their GRWG member if the new structure fits the needs of CMA.

Action: EUMETSAT to take the lead in performing THREDDS server updates and provide these to the administrators of the other collaboration servers.

**GSICS products’ templates; all GSICS products of a particular type shall be formatted according to these templates.**

Action: JMA to update the GEOLEOIR GSICS product template on the Wiki.

Action: NOAA to provide templates of proposed WMO file name and the content of the MW GSICS product on the GSICS wiki.

**Product Format Validation Tool; automated syntactic validation of GSICS products using the products’ templates.**

Action: EUMETSAT to provide requirements and design for the netCDF GSICS product checker.

Action: CMA, IMD, JMA and KMA to collaborate in the implementation of the netCDF GSICS product checker.

**Code / Data Storage Proposal; what mechanism to use to store code for Data Management Systems to facilitate collaboration.**

Action: all GPRC to report what version controlling software is used and propose possible software to be used in the GSICS activities.

Action: GCC to check the availability to provide administration role on gitHub.

Action: JMA GRWG to provide the list of existing SRF data sets to be stored. GPRC responsible for these data sets shall provide them to GDWG co-chair as soon as possible.

Action: JMA to provide the netCDF template to GDWG co-chair for these SRF files.

Action: EUMETSAT to support the generation of the existing SRF files into the netCDF format.

Action: GCC to update the Instrument Info Kiosk with the SRF netCDF files provided by EUMETSAT.

Action: The GEOLEOVISNIR or LEOLEOVISNIR shall include an optional global attribute referencing the location of the associated SRF netCDF file.

Action: EUMETSAT to investigate how THREDDS can be used to limit access to data sets.

**Event logging support; landing pages definition and input to CGMS team.**

Action: IMD and ISRO to nominate a representative that is part of the calibration events task team (CGMS-42: WGII/3 Action 42.02).

Action: EUMETSAT and JMA to provide templates of landing page to GDWG (or GSICS wiki).

Action: EUMETSAT to write a white paper on the standard nomenclature for calibration logging and monitoring.

**Provision of User access to GIRO software and GSICS lunar observation data components.**

Action: GDWG co-chair to support GRWG to implement the recommendations for sharing work in a Data Managed way. Ongoing activity: EUMETSAT User Service would support the registration of the users of the software and data.

**Other Actions (No Recommendation was assigned at the GDWG breakout session)**

Action: ISRO to provide GPRC web pages to GDWG co-chairs for review.

Action: EUMETSAT to support the review of all GPRC for minimum content and provide suggestions for updates.

Action: ISRO to support GCC to provide a satellite constellation image for the GCC website.

Action: WMO to update JMA GPRC website URL on the WMO portal (closed on 24 March 2015).

Action: KMA to add hyperlinks to the GCC, product catalogue, and THREDDS servers.

Action: KMA to modify a hyperlink to CMA GPRC website.

Action: WMO to contact current ISRO EP member to provide updates to the GSICS members.

Action: IMD are kindly requested to provide ISRO LocationIndicator and sub centre indicator for updating the Manual on Codes document (common codes Table C-12, note CCCC code is DEMS) prior to the development of their productions identified by a WMO filename where this information is required.

Action: EUMETSAT and JMA to examine the aspects to be revalidated and confirm they have no major impact (ref: changing the existing GEOLEOIR variables to combined versions).

Action: JMA to Update the Wiki to include the accurate timing information as an optional comment attribute of the validity\_period in their products.

Action: JMA to provide list of new GEOLEOIR global attributes to GDWG members and member should provide input within 1 week on the proposed updates

Action: EUMETSAT and JMA to identify if using the enhanced data model has impact to the usage of the new products. (e.g. usage of “grouping” for multiple methods/references in one netCDF file)

Action: GCC to support the revising of the GSICS versioning and update the Wiki.

Action: EUMETSAT to provide estimate the resources needed and the expectations for when the updates of the bias plotting tool will be implemented, and present these to the GDWG and EP to request for resources.

Action: CMA to discuss with CMA GPRC members on the usefulness of GSICS products in database.

Action: WMO and GPRCs to provide the GCC with examples of document management procedures including templates to support the creation of GSICS branding documentation templates.

Action: EUMETSAT to provide a harmonised action identifier for the working groups and the EP.