

Report of Working Group IV

Global Data Dissemination

Introduction

- The Group provides a forum for the discussion of data access in general and the contribution to the WMO Information System. The working group will address issues related to the dissemination systems, data formats and metadata exchange, and will also deal with the user interfaces and data access.
- Co-Chairs:
Vasily Asmus (ROSHYDROMET)
Hiroshi Kunimatsu (JMA) - newly elected in this session
- Rapporteur: Klaus-Peter Renner (EUMETSAT)
- Participants: CEOS-CSIRO, CMA, ESA, EUMETSAT, ISRO, JMA, KMA, NASA (WEBEX), NOAA, ROSCOSMOS, ROSHYDROMET, WMO

Objectives of WG IV

Objectives are reflected in WG-IV agenda:

- 1) Support user-provider dialogue on regional/continental scales;
- 2) Support the implementation of sustained and coordinated communication satellite broadcast systems;
- 3) Support the use of the WIS infrastructure for data provision and discovery;
- 4) Increase access to R&D and pre-operational mission data;
- 5) Analyse the extension of coordinated dissemination services for additional user communities;
- 6) Support the development of efficient standardized data handling for high-resolution imaging and hyper-spectral instruments;
- 7) Coordination of metadata for satellites and instruments;
- 8) Support the evolution and promote harmonisation of data access portals;
- 9) Address additional topics from the CGMS High Level Priority Plan within the scope of WG-IV

Relevant HLPP items

- Relevant HLPP items are all items under section 2:

2 COORDINATION OF DATA ACCESS AND CONTRIBUTION TO THE WMO INFORMATION SYSTEM (WIS)

WGIV key issues

Coordination of metadata for satellites and instruments

- In its second year, the CGMS Task Force on Metadata (TFMI) has made further progress towards completion of its mandate:
 - The finalisation of the guidance documentation on metadata creation,
 - the participation of the Task Force to the creation of the WIS metadata official documentation and to the outcome within the WIS from the last year “WIS Portal Usability Report”.
- It is proposed to extend the mandate to insure that WIGOS is covering the most common use-cases for satellite observations.
 - Action TFMI to submit the “Guidance Documentation on WMO Core Profile Metadata Creation For Satellite Products” to WMO IPET-MDRD and IPET-SUP.
 - WG-IV recommends to **CGMS plenary to endorse** the extension of the CGMS TFMI mandate to assess the WIGOS Metadata OGC Observations and Measurements mapping.

WGIV key issues

User Readiness Planning

- The WMO WP “Best Practices for Achieving User Readiness for New Meteorological Satellites” presents, in an integrated manner, Best Practices for User Readiness Projects performed by user organisations (e.g. NHMSs) as well as for satellite development programmes in support to user readiness.
- WG-IV recommends to CGMS plenary **to endorse** "CGMS-44-WMO-WP-02 Best Practices for Achieving User Readiness for New Meteorological Satellites", as far as it applies to satellite operators, as CGMS Best Practice.

WGIV key issues

IODC data dissemination plan (CMA, EUM, ISRO, ROSH)

- The status of data access in the IODC region was presented showing that there is no single “one fits all” data access solution available, but the combination of data access methods from different agencies covers the region very well. After a set of essential data is defined (covered in agenda item E.3.3), the details of data access and distribution can be assessed which requires support from the partners.
- Plenary recommendation proposed:
CGMS agencies in the IODC region (CMA, EUMETSAT, ISRO, ROSHYDROMET) to support the distribution of essential data to IODC users via their existing dissemination methods (CMACast, EUMETCast, GTS, Internet, etc.).

Brief summary of WPs and discussions

- NOAA presented an Update on the Product Distribution and Access (PDA) System. The PDA will become the main source for near real time distribution of satellite data via terrestrial networks (mainly internet), which is in particular important for handling the high data volumes from GOES-R and JPSS. Some questions were raised regarding the handling of priorities of users in case of high demand.
- EUMETSAT presented an update of the 3rd party data services, providing products from non-EUMETSAT satellites including R&D satellites to EUMETSAT member states.

Brief summary of WPs and discussions

- NOAA provided a comprehensive report on Status and Future Plans for GEONETCast Americas:
Bandwidth has been and will be further increased to accommodate new products, also to support GOES-R products.
GEONETCast Americas is active supporting Disaster Charter, user coordination, capacity building and training activities, and was recognized as an AmeriGEOSS Foundational Group Activity in November 2015.
- JCOMM Cross cutting task team
Needs support in defining a suitable standard for surface wind vectors
→ Action to work together with the International Wind Working Group and OSVW-VC at developing a project on Surface Vector Winds, **using the GHRSSST Project as a model** for the adoption of globally-agreed standards for the production and distribution of global, integrated, surface vector winds and associated products..

Brief summary of WPs and discussions

- EUMETSAT MTG dissemination standard and data formats
Preliminary and high level information was provided
→ Action to provide a timeline for the users preparation information for MTG, in accordance with “Best Practices for Achieving User Readiness for New Meteorological Satellites”
- WMO Dissemination Strategy
An update was given discussing performance indicators assessing progress of dissemination elements, with examples (such as DBNet coverage)

Brief summary of WPs and discussions

- WMO WIGOS Metadata standard V1.0
The new standard was presented by WMO and is proposed to be reviewed by the Task Force on Metadata Implementation (TFMI)
- CEOS *Working Group on Information System and Services* (WGISS) Data Access Infrastructure and Interoperability Standards
→ Action on JWG CLIM to discuss CEOS response: CEOS recommends the adoption of the WGISS supported standards
- ROSHYDROMET presented an overview of the Satellite data exchange
- WMO Update on data requirements of the WMO Coordination Group on Satellite Data Requirements for Region III and IV (Americas) reporting good progress

Actions / Recommendations

- After CGMS-43 there were 13 actions open
- During CGMS-44
 - 9 actions could be closed, 4 actions remained open
 - 4 new actions created
 - 3 new recommendations created
 - 2 requests for endorsements by plenary
 - 1 plenary recommendation

Contribution to HLPP

- Proposed updates were agreed by WG-IV as follows:
- 2.6 Develop efficient standardized data handling for high-resolution imaging and hyper-spectral instruments, employing novel methods like dissemination of hyperspectral infrared data based on Principal Component Analysis. -> moved to WG-I
- Inclusion of space weather in relevant WG-IV sections for:
 - Metadata description
 - Data format documentation
 - Near real time data access and global data exchange

Inter-sessional Meetings

- Tentative dates,
- 5 October 2016, 13:00 UTC:
WG-IV intersessional meeting: topics are IODC dissemination coordination, status of actions/recommendations
- 7 December 2016, 13:00 UTC:
WG-IV intersessional meeting: topics are IODC dissemination coordination, status of actions/recommendations and preparation of agenda for CGMS-45
- 15 February 2017, 13:00 UTC:
WG-IV intersessional meeting: preparation for CGMS-45.