CGMS-53-WGI-WP-05
27 February 2025

Prepared by: EUMETSAT
Agenda Item 4.1
Discussed at WG-I

Subject	**Report from the CGMS WGI Task Group on Satellite Data and Codes (incl. latest ToR, status on current & proposed/planned activities)**
In response to CGMS action/recommendation	
HLPP reference	
Executive Summary	The CGMS Task Group on Satellite Data and Codes has been actively supporting the coordination of work on satellite product format issues within the CGMS community and providing support to the work of WMO's expert teams since its first meeting in 2008. This paper reviews the status of the Task Group and looks forward to its forthcoming activities.
Action/Recommendation proposed	Recommendation: Working Group I to support CGMS's work on satellite data and codes through the continued activities of its Task Group on Satellite Data and Codes. The Working Group is recommended to encourage active participation in the work of the Task Group from all satellite operators.

1 INTRODUCTION

CGMS established the Task Group on Satellite Data and Codes (TFSDC) in order to coordinate work on satellite product format issues within the CGMS community and to support the work of WMO's expert teams. The group had its first meeting in 2008.

As of 2022, the activities of the CGMS WGI ad hoc team on coordination of CF-netCDF standards have been assimilated into the work of this Task Group.

This paper briefly summarises the status of the Task Group and looks forward to its upcoming activities.

2 CURRENT STATUS

2.1 Membership

The current membership of the TGSDC is listed below:

CMA	Xu Zhe
JMA	Kazutaka Yamada
JMA	Kazuki Shimoji
CGMS	Mikael Rattenborg
WMO	Heikki Pohjola
NOAA	Maurice McHugh
EUMETSAT	Daniel Lee
KMA	Junho Kim
KMA	Jae-dong Jang
WMO	Enrico Fucile
EUMETSAT	Simon Elliott - chairman and liaison with WMO
SRC Planeta	Nikita Ekimov

As noted at previous CGMS meetings, an additional member from ISRO would complement the current composition well.

2.2 Current activities

2.2.1 Introduction of new BUFR encoding sequences for satellite data

The Task Group has worked with the WMO Secretariat and the WMO Expert Team on Data Standards (ET-Data) and its Task Team on Table Driven Code Forms (TT-TDCF) on the development of a number of new BUFR encoding sequences and Common Code Table entries. In each case, the Task Group acts as a reference group of experts who are invited to consider and endorse relevant proposals going through WMO's approval process.

2.2.1.1 Satellite identifiers

During the period since CGMS-52, the following entries have been defined in Common Code Table C-5 for satellite identifiers:

Satellite	Code table entry	WIGOS station identifier
Loft Orbital YAM Longbow	768	0-20009-0-768
tomorrow.io 6U CubeSat	769	0-20009-0-769
GCOM-C	123	0-20009-0-123
GOSAT-GW	142	0-20009-0-142
Tianmu-1	540	0-20009-0-540
NOAA-22	805	0-20009-0-805
NOAA-23	806	0-20009-0-806

2.2.1.2 Instrument identifiers

During the period since CGMS-52, the following entries have been defined in Common Code Table C-8 for instrument identifiers:

Instrument	Agency	Type	Code table entry
Microwave sounder (MWS)	tomorrow.io	Radiometer	536
Ka band precipitation radar (KPR)	tomorrow.io	Radar	537
Advanced Microwave Scanning Radiometer 3 (AMSR3)	JAXA	Imaging multi spectral radiometer (passive microwave)	477
Integrated CO2 and NO2 Imaging Spectrometer (CO2I)	ESA	Spectrometer	214
Multi-Angle Polarimeter (MAP)	ESA	Multiple direction/polarization radiometer	215
Cloud Imager (CLIM)	ESA	Imaging multi-spectral radiometer (vis/IR)	216

2.2.2 Update to Oscar/Space to include satellite and instrument identifiers

The Group continued to encourage WMO to ensure that OSCAR/Space includes references to the Common Code Table entries used for satellite identifiers (table C-5) and instruments (C-8). WMO has made significant progress in this area and the WIGOS Station Identifier is included in WMO OSCAR Space for some satellites, e. g. METEOSAT-10: 0-20009-0-057. The Group will continue to encourage the inclusion of instrument identifiers from C-8.

2.2.3 WIS 2.0 status

Some satellite data are live on WIS 2.0 as follows:

Meteosat-10 SEVIRI images (EUMETSAT pilot node)

Subscription topic: `cache/a/wis2/int-eumetsat/data/core/weather/space-based-observations/meteosat-10/seviri`

Metop-B IASI 3D winds (EUMETSAT pilot node)

Subscription topic: `cache/a/wis2/int-eumetsat/data/core/weather/space-based-observations/metop-b/iasi`

FY-3E GNOS (CMA)

Subscription topic: `cache/a/wis2/cn-cma/data/core/weather/space-based-observations/fy-3e/gnos-2`

INSAT-3DR winds (IMD)

Subscription topic: `cache/a/wis2/in-imd/data/core/weather/space-based-observations/insat-3dr/imager`

S-NPP/NOAA-20/NOAA-21/Metop-B/Metop-C CrIS/IASI full spectral resolution (NOAA/CIMSS)

Subscription topic: `cache/a/wis2/us-cimss/data/core/weather/space-based-observations/noaa-21/cris`

3 UPCOMING ACTIVITIES

Between CGMS 53 and CGMS 54, the Task Group will continue work on coordinating format standardisation for satellite data, following the implementation of WIGOS station identifiers for satellite platforms, and providing subject matter expertise to WMO Expert Teams.

An important task for this period will be working together with the WGI Task Group on Metadata on supporting WMO with the transition to WIS 2.0, and the input to this from the satellite community.

Two intersessional meetings are planned; late September 2025 and early January 2026.

4 ACTIONS AND/OR RECOMMENDATIONS FOR CONSIDERATION BY WORKING GROUP I

Recommendation: Working Group I to support CGMS's work on satellite data and codes through the continued activities of its Task Group on Satellite Data and Codes. The Working Group is recommended to encourage active participation in the work of the Task Group from all satellite operators.

5 CONCLUSION

The Task Group on Satellite Data and Codes continues to play a useful role. During the forthcoming intersessional period, the group's main activities will be concerned with the support of the global migration from GTS to WIS 2.0.