

## **CGMS ADDRESS - WMO Executive Council 78**

Thank you for the opportunity to address the WMO Executive Council on behalf of the Coordination Group for Meteorological Satellites - CGMS.

In recent years, we have seen a strengthening of the space-based component of the global observing system, with the launch of new generation satellites by nearly all CGMS members and on many different orbits. The CGMS baseline captures the approved plans of members, i.e. a commitment to contribute to the WIGOS Vision 2040. The most recent annual gap analysis, performed in February 2024, shows the maturity of the backbone observing system with promising plans for adding observations in the years to come.

At last week's plenary session, hosted by NOAA, CGMS members confirmed their commitment to remain a strong partner of the WMO and to contribute to its recently started global initiatives, in particular on climate, Early Warnings for All and Global Greenhouse Gas Watch.

CGMS will also work with the WMO to address how operational space agencies could best fulfil the needs of its meteorological user community taking into account development in areas such as AI/ML or the emergence of the private sector.

The CGMS agencies support climate monitoring from space with their long-term multi-satellite programmes, the continuity of which has led to time-series of more than 45 years. The agencies are continuously improving the quality of measurements, expanding their observation portfolio and increasingly collaborating on data rescue related to historical satellite observations. For example, a greatly improved set of ~~all~~ past observations from the spacecraft forming the geostationary ring will ~~soon~~ be released, forming a new basis for many climate data records for the Essential Climate Variables of GCOS.

Climate data records are also well suited to support the EW4ALL by promoting a better understanding of changes in extreme weather events and thus, supporting better climate change adaptation strategies.

CGMS coordinates its climate-related activities with CEOS in the Joint Working Group on Climate, which has produced a Greenhouse Gas Roadmap that is currently being updated to better meet the requirements of the G3W. It also provides a coordinated response to the GCOS Implementation Plan, which is supported by the ongoing inventory of climate data records from space-based data that represent the best information linking

climate data needs to the space-based measurements available and needed in the future.

CGMS will work to sustain and operationalise the space-based observational framework for G3W. This includes areas like risk assessment and contingency planning, sensor intercalibration, standardisation of products and data management etc.

CGMS agencies continue to take advantage of new approaches to secure the need for observations, including the procurement of commercial data to complement the backbone observations. A set of best practices has been endorsed to this purpose, in an effort to ensure coherent provision of commercial data and products to the users.

Demonstration of the socio-economic benefits of satellite systems remains a pre-requisite to secure the approval of new CGMS Member programmes and CGMS will work with the WMO to ensure that space-based observations will be addressed fully in future quantitative SEB studies.

Thank you for your attention.

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