WMO Space Programme: a bridging role between satellite operators and users

CGMS-43, Item D.1

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World Meteorological Organization (WMO)
WMO in The United Nations System

- International Court of Justice
- General Assembly
- Economic and Social Council
- Security Council
- Secretariat
- Trusteeship Council

- Main and other sessional committees
- Standing committees and ad-hoc bodies
- Other subsidiary organs and related bodies

- UNRWA
- IAEA
- INSTRAW
- UNCHS
- UNCTAD
- UNDCP
- UNDP
- UNEP
- UNFPA
- UNHCR
- UNICEF
- UNIFEM
- UNITAR
- UNU
- WFC

- Functional Commissions
- Regional Commissions
- Sessional and Standing Committees
- Expert, AD-HOC and Related Bodies

- ILO
- FAO
- UNESCO (IOC)
- WHO

- World Bank Group
  - IBRD
  - IDA
  - IFC
  - MIGA

- IMF
- ICAO
- UPU
- ITU
- WMO World Meteorological Organization

- IMO
- WIPO
- IFAD
- UNIDO
- WTO

- Military Staff Committee
- Standing committees and ad-hoc bodies
- UN programmes and organs (representative list only)
- Specialized agencies and other autonomous organizations within the system
- Other commissions, committees and ad-hoc related bodies
Organizational Structure of WMO (191 Members)

CONGRESS

Executive Council

6 Regional Associations
- Working Groups
- Rapporteurs
- Working Groups Panel of Experts

8 Technical Commissions
- Working Groups
- Rapporteurs
- Other Bodies
  - JSC-WCRP
  - IPCC
  - JSTC-GCOS

Secretary-General
- Secretariat
WMO Regional Associations

R.A. VI Europe
(49 Members)

R.A. IV North America, Central America And the Caribbean
(25 Members)

R.A. I Africa
(56 Members)

R.A. III South America
(13 Members)

R.A. V South-West Pacific
(22 Members)

R.A. II Asia
(35 Members)
WMO Programmes

World Weather Watch Programme

WMO Space Programme
Natural Disaster Prevention and Mitigation Programme

World Climate Programme
Atmospheric Research and Environment Programme
Applications of Meteorology Programme
Hydrology and Water Resources Programme

Education and Training Programme
Technical Cooperation Programme
Regional Programme
Basic Commissions

- Commission for Basic Systems (CBS)
- Commission for Instruments and Methods of Observations (CIMO)
- Commission for Hydrology (CHy)
- Commission for Atmospheric Sciences (CAS)

Applications Commissions

- Commission for Aeronautical Meteorology (CAeM)
- Commission for Agricultural Meteorology (CAgM)
- Joint WMO/IOC technical Commission for Oceanography and Marine Meteorology (JCOMM)
- Commission for Climatology (CCI)
WMO organigram during the 16th Financial Period
High-level goal to promote wide *availability* and *utilization* of satellite data & products for weather, water, climate and related applications of WMO Members

Four main components:
- Develop an integrated observing system
- Data & product accessibility, interoperability and quality
- User information and training
- Space weather coordination

Partnership
- With space agencies, CGMS and CEOS
- With international science groups
- With other relevant international bodies

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Value Chain for WMO Space Programme

- Satellites & sensors
- Calibrated data sets
- Quality-controlled products
- Dissemination & access
- Awareness & training
- Users
Our ambition: a joint undertaking

For satellite operators

to contribute to the global picture in a cost-effective way, to meet their goals to serve users

Provide a framework for dialogue, develop a shared vision, foster interoperability, share best practices & resources

For users

to consolidate their requirements, to be informed and trained to take advantage of satellite systems
For Earth Observation and Space Weather

- Observing requirements
- Vision of space-based system
- OSCAR/Space
- Gap analysis
- Calibration

- Data access strategy
- RARS (DBNet)
- Regional data requirements
- Frequencies

Access to data and products

- SCOPE-CM
- SCOPE-NWC
- Polar STG
- IxWG

Information capacity building

- VLab
- User Readiness SATURN
- Product access Guides
- Sponsoring conferences
- User limitations & challenges

Products and application

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On the agenda of CGMS-43

- **Observing systems**
  - WP-02: Vision of WIGOS/Space in 2040
  - WP-04: Satellite data user needs in the Indian Ocean region
  - WP-05: Observation requirements of the GAW
  - WP-06: GSICS in the architecture for climate monitoring
  - WP-07: GCOS
  - WP-14: Gap Analysis
  - WP-16: GSICS Report
  - WP-17: OSCAR/Space new functionality

- **Access to data and products**
  - WP-08: Draft WMO Resolution on Exchange of Data & Products
  - WP-09: Satellite Data Dissemination Strategy
  - WP-13: Direct Broadcast Network (DBNet)
  - WP-15: Operational data requirements from RA III/RA IV

- **User Information and training**
  - WP-03: User preparation (SATURN)
  - WP-12: Vlab

- **Cross-cutting:**
  - WP10: Socioeconomic benefits;
  - WP-11: Space weather