

World Meteorological Organization

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**COMMISSION FOR BASIC SYSTEMS**

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10

## **WMO INTEGRATED GLOBAL OBSERVING SYSTEM**

### **TECO-WIGOS CONFERENCE STATEMENT**

#### **SUMMARY**

**ISSUE TO BE DISCUSSED:**

Leading role of CBS in WIGOS

**DECISIONS/ACTIONS REQUIRED:**

Adoption of the draft text for inclusion in the general summary of CBS-XIV

**CONTENT OF DOCUMENT:**

**Appendix for inclusion in the final report:**

Draft text for inclusion in the general summary of CBS-XIV

## **DRAFT TEXT FOR INCLUSION IN THE GENERAL SUMMARY OF CBS-XIV**

### **10. WMO INTEGRATED GLOBAL OBSERVING SYSTEM (agenda item 10)**

#### **TECO-WIGOS Conference statement**

10.x The Commission for Basic Systems (CBS) Technical Conference on the WMO Integrated Global Observing Systems (TECO-WIGOS) welcomes the progress that has been achieved towards further understanding and articulating the concept of a comprehensive, coordinated and sustainable system of observing systems based on the observational requirements of all WMO Programmes, pursuant to the request of Congress-XV (Cg-XV), bearing in mind the rapid development of systems and technologies and the risks of divergence. The development of WIGOS as a framework for integration of the component global observing systems across WMO and relevant co-sponsored systems, in collaboration with partner agencies, recognises the additional value that can be achieved through a more coordinated and collaborative approach. The benefits that will flow include reduced financial demands on Members, increased availability of required information, improved access, higher data quality standards, and archiving and technical innovations. However, the development of WIGOS also poses challenges at many levels that the various contributing players and partners must resolve together.

10.x The TECO-WIGOS acknowledged and commended:

- The foundation role of the CBS systems, GOS and WIS, in the development of WIGOS and the need for a collaborative approach, involving all Technical Commissions and WMO Programmes, to build WIGOS so that it is greater than the sum of the individual component parts;
- The progress of the Pilot Projects, especially those focussing on AMDAR, ocean observations through JCOMM, atmospheric monitoring through CAS/GAW and the key cross-cutting role of CIMO, and the initial steps taken in addressing satellite intercalibration through the WMO Space Programme and the space community;
- The progress of the Demonstration Projects in all WMO Regions, especially integration of various observing systems, standardisation and quality control of observational data at the national level, with NMHSs playing the leading role and reaching out to a wide range of stakeholders;
- The active engagement in the development of a framework for WIGOS by agencies co-sponsoring component observing systems and programs, recognising the opportunities for cooperation and mutual support and the need to respect individual mandates and policies;
- The fundamental importance of constructing WIGOS together with the WMO Information System (WIS) so that a comprehensive and coordinated solution supporting WMO Members and other users is achieved;
- The commitment of Members and partners engaged on WIGOS activities;
- The increasing consideration of coordinated planning of space-based and surface-based component systems in the WIGOS context, noting the development of the proposed Vision for the GOS in 2025; and
- The breadth of understanding of the technical complexities and the growing engagement of a broad range of experts that provide an increasingly sound foundation for WIGOS to build on.

10.x TECO-WIGOS highlighted the challenges that remain, including:

- Achieving the timeline as laid out by Cg-XV and, in particular, the need for an early start to additional Pilot Projects and Demonstration Projects;
- The need for a comprehensive and costed development and implementation strategy for WIGOS that, inter alia:
  - Fully outlines the technical challenges to be addressed and the roles and responsibilities of all players;
  - Elucidates the process for capturing the lessons-learnt from the Pilot Projects and Demonstration Projects;
  - Outlines a capacity building strategy to ensure the benefits of WIGOS will reach all Members; and
  - Designates clear responsibilities across the WMO system for the further development of WIGOS;
- The current lack of WMO resources allocated to addressing WIGOS, which is an impediment to progress, including the need for a fully functioning WIGOS project office;
- The need to complete the full functionality of WIS so that WIGOS can exploit new data access and retrieval facilities
- The importance of engaging the hydrological community in WIGOS activities;
- The need to clarify and communicate the relationship and intersection of WIGOS with the co-sponsored observing systems, (GOOS, GTOS and GCOS) and with GEOSS;
- Finding ways to demonstrate the opportunities of WIGOS to all potential partners and users to build their ongoing support, trust and collaboration; and
- Finding a way to more effectively incorporate all WMO observing activities into WIGOS and address their different requirements and priorities, especially the need to ensure WIGOS effectively supports all WMO applications programmes.

10.x TECO-WIGOS encouraged CBS to focus on what it can contribute to the further development of the WIGOS concept, and in particular to construction of a comprehensive roadmap that takes WIGOS from concept to reality, and to the implementation of WIGOS, both through leadership and collaboration.