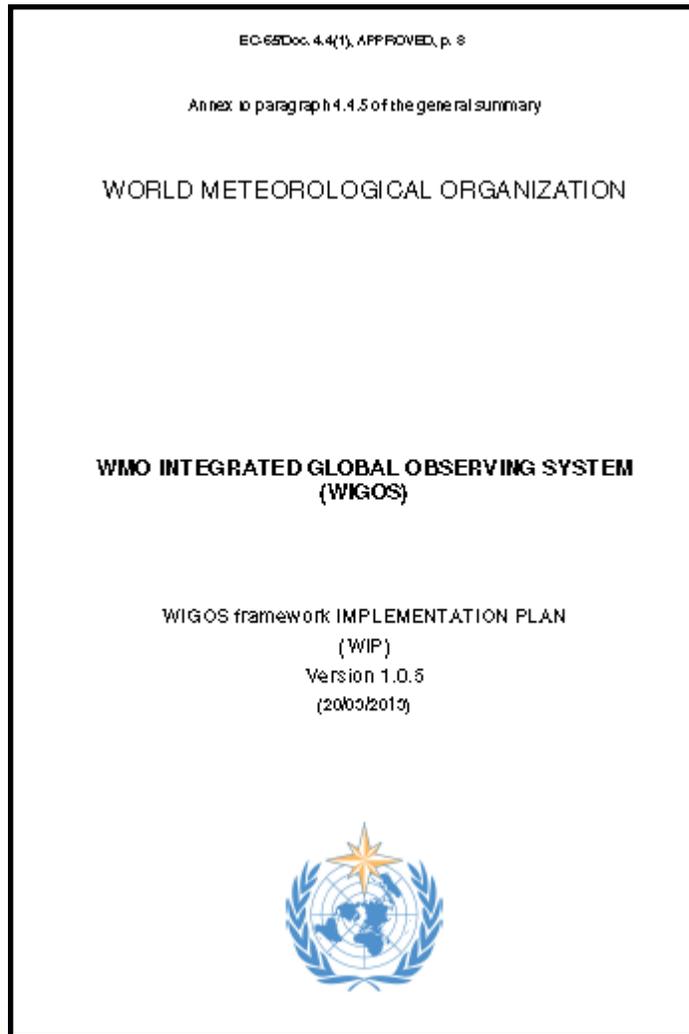


CBS / OPAG-IOS / IPET-WIFI-1 / Doc. 3.3(1)

# STATUS OF TT-WRM



# Background: the WIGOS framework Implementation Plan



- Ten Key Activity Areas:
  1. Management of WIGOS implementation;
  2. Collaboration with the WMO co-sponsored observing systems and international partner organizations and programmes;
  3. Design, planning and optimized evolution;
  4. Observing System operation and maintenance;
  5. Quality Management;
  6. Standardization, system interoperability and data compatibility;
  7. The WIGOS Operational Information Resource;
  8. Data and metadata management, delivery and archival;
  9. Capacity development;
  10. Communications and outreach.



# Background: role of Task Team on WIGOS Regulatory Material (TT-WRM)

- Executive Council → ICG-WIGOS (Inter-commission Coordination Group on WIGOS)
- ICG-WIGOS →
  - TT-WIP: Task Team on WIGOS Implementation Plan;
  - TT-WRM: Task Team on WIGOS Regulatory Material;
  - TT-WMD: Task Team on WIGOS Metadata;
  - TT-WQM: Task Team on WIGOS Quality Management.



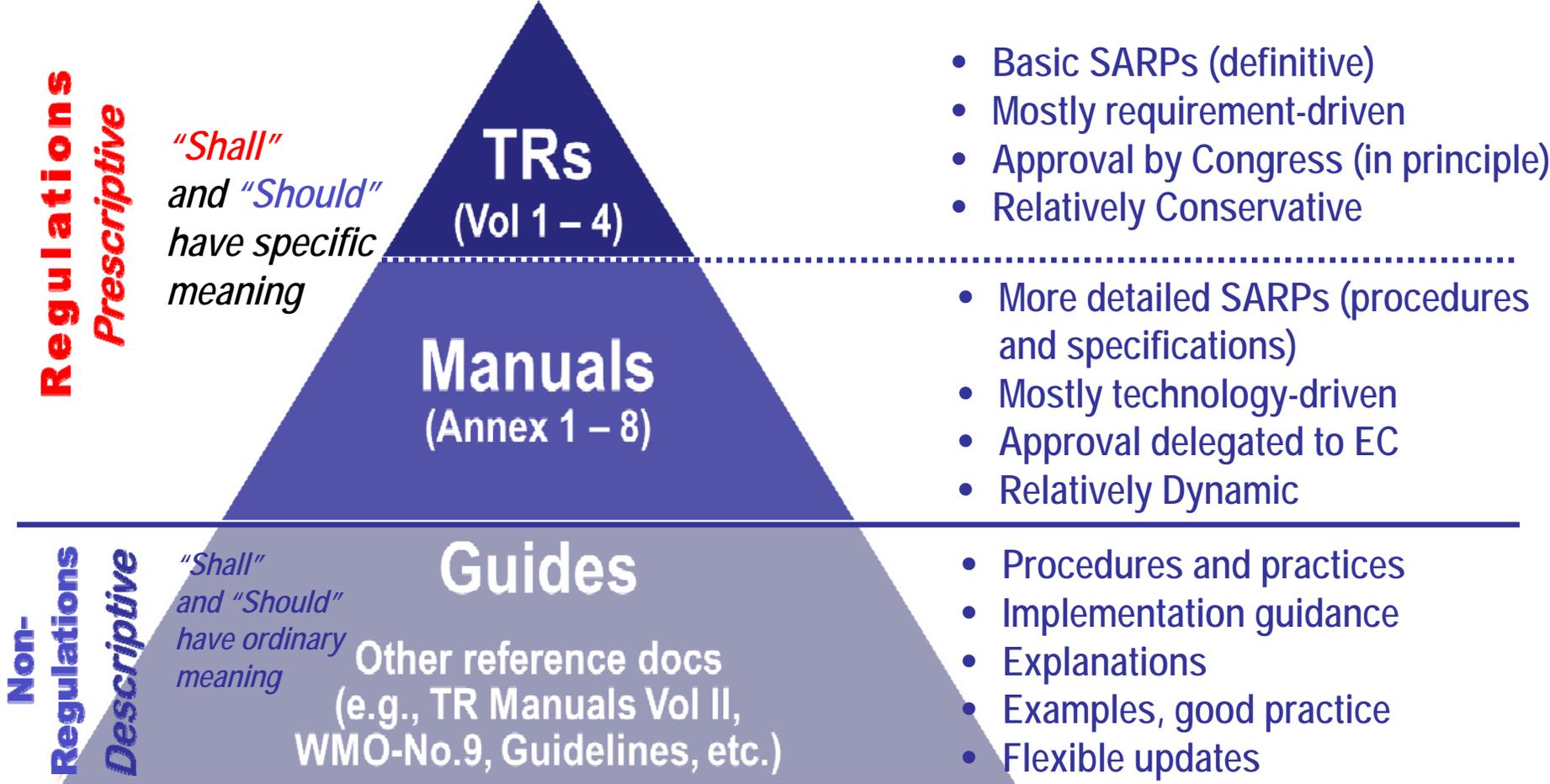
# Background: TT-WRM Terms of Reference

- 1. To develop a high-level WIGOS-Functional Architecture;
- 2. To review WMO Technical Regulations (WMO-No. 49), Volume I General Meteorological Standards and Recommended Practices and other relevant regulatory material and make proposal for updates vis-à-vis WIGOS Manual;
- 3. To develop the WMO Manual and Guide on WIGOS;
- 4. To develop mechanisms for the update and maintenance of the Manual and Guide on WIGOS and, in order to maintain structural relationships between related documents, develop complementary mechanisms for the update and maintenance of related documents (existing, planned and future Manuals and Guides, such as GOS Manual, GAW Manual, WHyCOS Manual, and GCW Manual).
- 5. To submit the WMO Manual and Guide on WIGOS to the ICG-WIGOS for its coordination with and reporting to EC and for its eventual recommendation for approval by Cg-XVII;
- 6. To coordinate regularly with the ICG-WIGOS as needed and report at least annually to the ICG-WIGOS on the progress;
- 7. To complete its tasks by July 2015.



# WMO Technical Regulations (WMO-No. 49)

## Generic concept



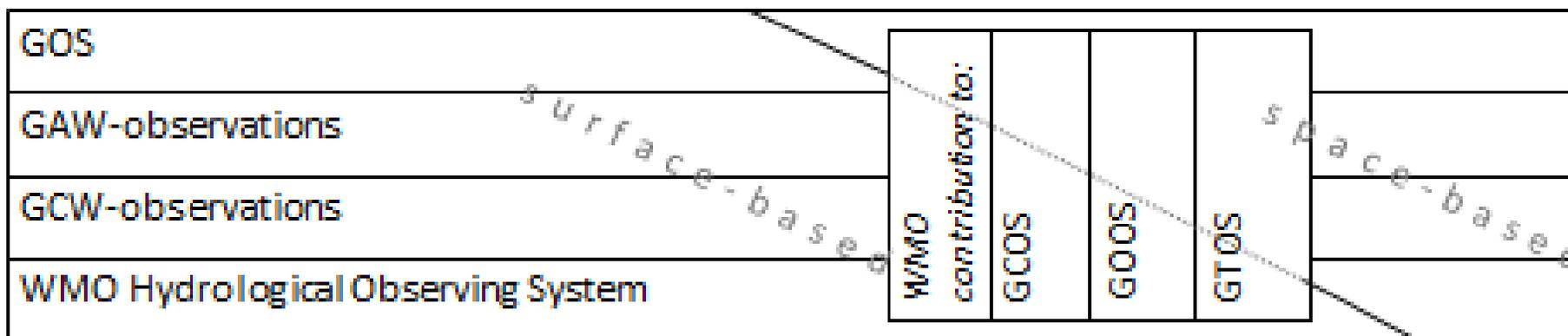
# WMO Technical Regulations

- Two points from ICG-WIGOS-2 (see Doc 3.2)
- **c) Content:** "what" and "how" are the topics for regulatory material, without background and elaboration on "why" or on policies, strategies, concepts, plans for the future, etc. That can all go in Manuals and more particularly in Guides and other documents. A corollary is: don't use the writing of TRs as a surrogate means of developing or clarifying concepts, strategies, programmes, policies, etc;
- **d) Compliance:** to give meaning to mandatory regulations, it is important to also emphasise processes to monitor and promote compliance.



# Scope of WIGOS Regulatory Material

## WIGOS



- WIGOS provides WMO's contribution to the observations requirements of the GFCS
- WIGOS in total is a contribution by WMO to GEOSS

The component observing systems of WIGOS comprise the Global Observing System (GOS), the observing component of the Global Atmosphere Watch (GAW), the WMO Hydrological Observing System (incl. World Hydrological Cycle Observing System (WHYCOS)) and the observing component of the Global Cryosphere Watch (GCW), including their surface-based and space-based components. The above component systems include all WMO contributions to the cosponsored systems, i.e., GCOS, GOOS, GTOS, as well as the WMO contributions to GFCS and GEOSS.

To migrate the existing observing systems into a more integrated single system that is WIGOS, focused effort is required in ten key activity areas.



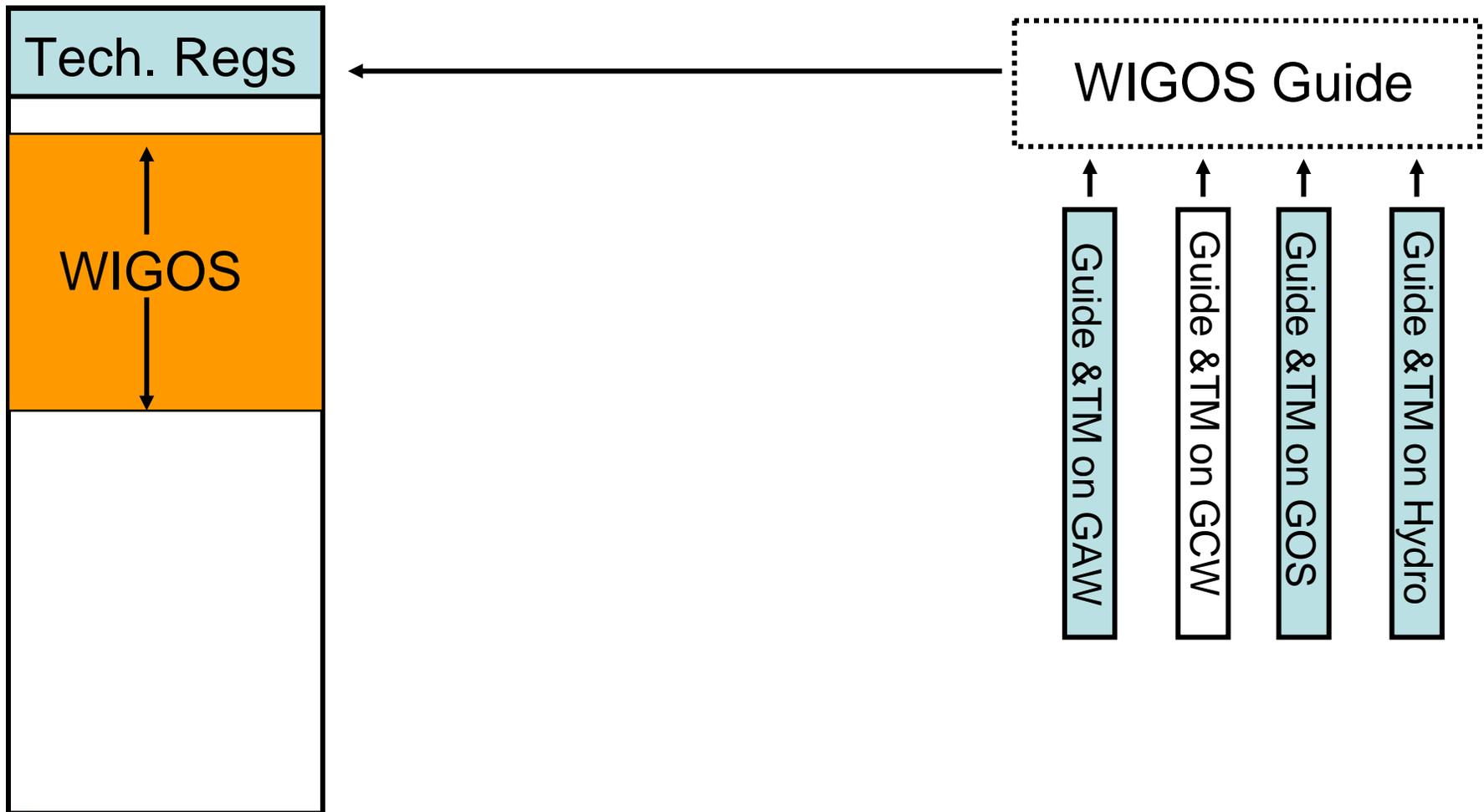
# WIGOS Regulatory Material - Status

## TT-WRM-1, Nov. 2012:

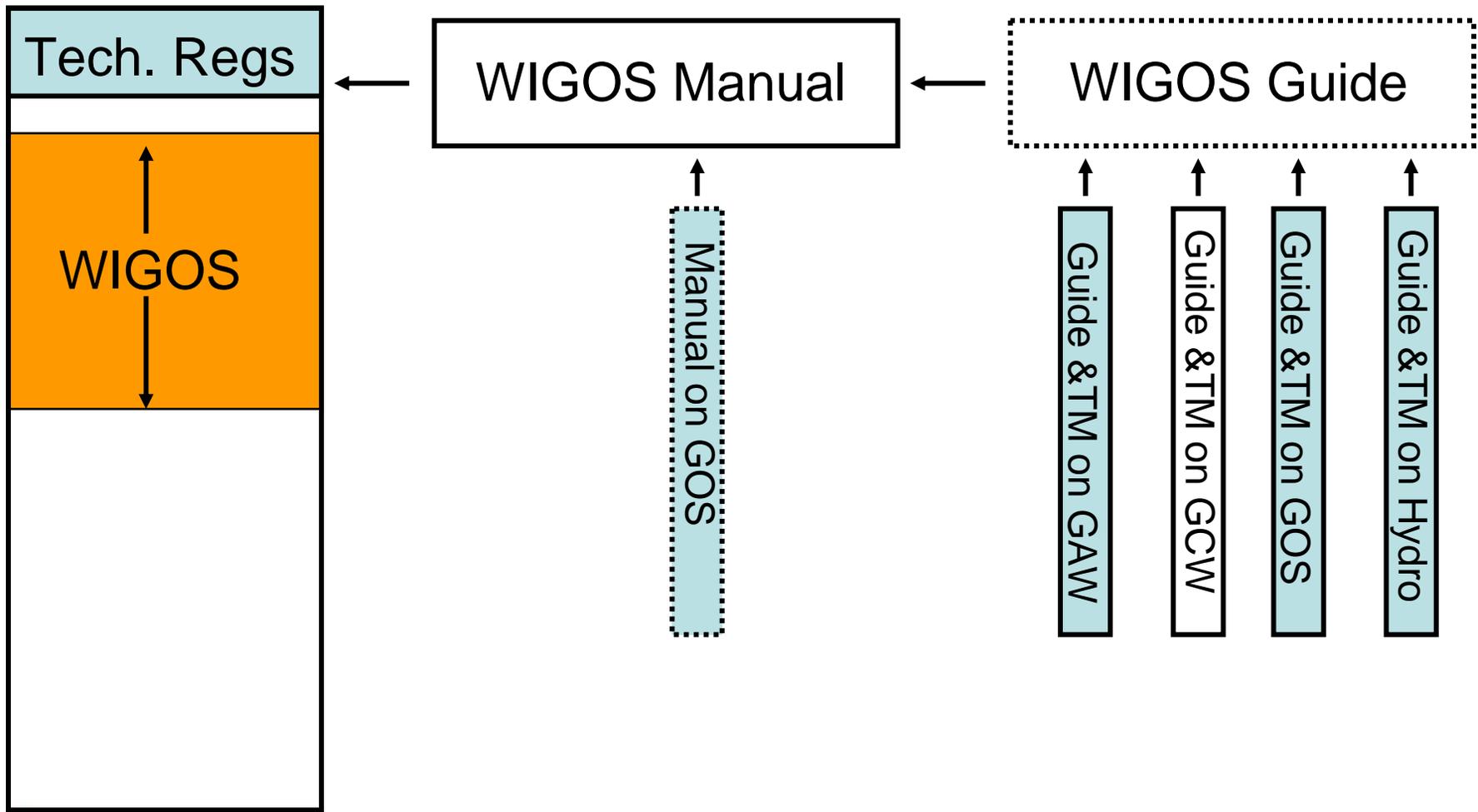
- Approach & key principles to be applied in developing WIGOS Reg. Material;
- Draft Structure of the WIGOS sections in WMO Technical Regulations (WMO-No. 49), Vol. I., Part I. WIGOS;



# Approach prior to ICG-WIGOS-2: WIGOS Regulatory material – interim model



# Major outcome of ICG-WIGOS-2: WIGOS Regulatory material - new model



# PROPOSED STRUCTURE OF WIGOS SECTIONS IN WMO TR:

## 1. INTRODUCTION

- Purpose of WIGOS
- WIGOS component observing systems
  - Global Observing System (GOS)
  - Global Atmosphere Watch (observing component of GAW)
  - WMO Hydrological Observing System
  - Global Cryosphere Watch (observing component of GCW)
- Collaboration with co-sponsored and non-WMO observing system
- Governance and management

## 2. COMMON ATTRIBUTES OF COMPONENT SYSTEMS

- Requirements
- Design, planning and evolution
- Instrumentation and Methods of Observation
- Operations
- Observational Metadata
- Quality Management
- Capacity Development

## 3. COMMON ATTRIBUTES SPECIFIC TO THE SURFACE-BASED SUB-SYSTEM OF WIGOS

## 4. COMMON ATTRIBUTES SPECIFIC TO THE SPACE-BASED SUB-SYSTEM OF WIGOS

## 5. OBSERVING COMPONENT OF THE GLOBAL ATMOSPHERE WATCH (GAW)

## 6. OBSERVING COMPONENT OF THE GLOBAL CRYOSPHERE WATCH (GCW)

## 7. GLOBAL OBSERVING SYSTEM (GOS) OF WWW

## 8. WMO HYDROLOGICAL OBSERVING SYSTEM



# WIGOS Regulatory Material – Plan for 2013

- Draft WIGOS sections in WMO TR (WMO-No. 49), Vol. I., Part I. WIGOS:
  - **February:** zero draft:
  - **April:** First draft
  - **June:** Review of the first draft (TT-WRM-2)
  - **October:** Competition of the draft
  - **November:** Near-final draft (TT-WRM-3)



# TT-WRM progress so far in 2013

- Webex meetings held:
  - 6 February
  - 6 March
  - 5 April
  - 25 April(drafting efforts continuing)
  
- TT-WRM-2 scheduled next week



Russell Stringer  
Australian Bureau of Meteorology

**THANK YOU**

