

**WORLD METEOROLOGICAL ORGANIZATION**

EC-WG/WIGOS-WIS-1/Doc. 3.4(1)

EXECUTIVE COUNCIL WORKING GROUP ON

(19.XI.2007)

THE WMO INTEGRATED GLOBAL OBSERVING SYSTEM (WIGOS)  
AND

THE WMO INFORMATION SYSTEM (WIS)

ITEM: 3.4

*FIRST SESSION*

GENEVA, 4– 7 DECEMBER 2007

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**DEVELOPMENT OF AN OVER-ARCHING  
WIGOS DEVELOPMENT AND IMPLEMENTATION PLAN**

***Status of the joint GOS-GAW Pilot Project to accelerate implementation of WIGOS/WIS***

*(Submitted by the Secretariat)*

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**Summary and Purpose of Document**

This document provides information on the Status of the joint GOS-GAW Pilot Project to accelerate implementation of WIGOS/WIS.

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***ACTION PROPOSED***

The Working Group is invited to consider the above information when elaborating a WIGOS Development and Implementation Plan.

**APPENDIX:** PILOT PROJECT 1 - Joint GOS-GAW Pilot Project to accelerate implementation of WIGOS/WIS

**References:**

1. Cg-XV, PINK 7.4(3), Evolution of NMHSs and WMO, Towards Enhanced Integration between the WMO Observing Systems.
2. Res. 2/4 (EC-LIX) — Executive COUNCIL WORKING GROUP on the WMO Integrated Global Observing System (WIGOS) and the WMO Information System (WIS).
3. Towards Enhanced Integration between the WMO Observation Systems (Revised EC- TT/WIGOS Doc. 3, submitted by Jim Rasmussen 15 July 2007)
4. Minutes 2nd CAS Management Group Meeting (Norwegian Meteorological Institute, Oslo, 24-26 September 2007)

## **DISCUSSION**

1. The preparation of a WMO Integrated Global Observing Systems (WIGOS) Development and Implementation Plan includes WIGOS/WIS Pilot Projects, as identified by Cg-XV.

The CBS-MG7 (June 2007) determined the overall role of CBS in the implementation of WIGOS initiative and decided, inter-alia, on the proposal to be developed jointly with CAS for a pilot project to unify access to GOS-GAW information. During CAS-MG2, it was agreed to establish an “ad-hoc CBS and CAS Experts Group on WIGOS”. CAS-MG2 approved the joint GOS-GAW Pilot Project as described in the Annex.

The Appendix to this document contains the description of the status of the Joint GOS-GAW Pilot Project to accelerate implementation of WIGOS/WIS.

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## **PILOT PROJECT 1 -**

### **Joint GOS-GAW Pilot Project to accelerate implementation of WIGOS/WIS**

#### **Background**

1. Fifteenth Congress (Geneva, May 2007), when discussing the concept of integration between WMO Observing Systems, agreed that planning and implementation of the integration process should proceed in phases defined by the annual meetings of the Council in order to assure oversight, review and direction. The process foreseen is one where planning and implementation of an integrated WMO observing system and of the WIS would culminate with Cg-XVI (2011) adopting improvements towards strengthening the WMO programme structure and the system of technical commissions, which would be positioned to extend the benefits of the integration into the service and application components of the overall WMO Programmes at both the national and international levels. Congress also agreed that several "Pilot Projects", as proposed by the EC Task Team, should be designed to test concepts, identify problem areas, and to help in elaborating the Plan. It recommended that possible candidate Pilot Projects include:

- (a) Integration of WWW/GOS and GAW;
- (b) Initiation of a Global Hydrologic network addressing a GCOS requirement;
- (c) Elaborating the underpinning/crosscutting role and responsibilities of the Instruments and Methods of Observation Programme;
- (d) Integration of AMDAR into the WMO global observing systems;
- (e) Integration of marine meteorological and other appropriate oceanic observations into the WMO global observing systems.

2. EC-LIX (Geneva, May 2007) established an Executive Council Working Group on the WMO Integrated Global Observing System (WIGOS) and the WMO Information System (WIS) with terms of reference as follows:

- (1) Provide advice and guidance in the preparation of an over-arching WIGOS Development and Implementation Plan;
- (2) Refine the WIS Development and Implementation Plan and ensure coordination between WIGOS and WIS plans to allow for an integrated WMO end-to-end system of systems;
- (3) Monitor the development and implementation of WIGOS and WIS through a "rolling review" mechanism;
- (4) Monitor WIGOS/WIS "Pilot Projects", as identified by Cg-XV, to test concepts, identify problem areas, and to help in elaborating the Development and Implementation Plan;

#### **Joint GOS-GAW Pilot Project**

3. As follow-up, CBS-MG7 (June 2007) determined the overall role of CBS in the implementation of WIGOS initiative and decided, inter-alia, on the proposal to be developed jointly with CAS for a pilot project to unify access to GOS-GAW information in a system of systems architecture – include proposed scope, levels of integration and timetable. MG entrusted the president of CBS to participate in CAS-MG2 (September 2007) and consider a joint GOS-GAW pilot project to accelerate implementation of WIGOS/WIS.

4. During CAS-MG2, it was agreed to establish an "ad-hoc CBS & CAS Experts Group on WIGOS". As a first step, it was agreed to develop Terms of Reference for an "ad

hoc CAS/CBS Experts Group on WIGOS” as described below. The CAS Management Group and CBS President agreed that the plan was a suitable response to the request from Cg-XV to implement WIGOS. Thus, it agreed that an “ad-hoc CBS & CAS Experts Group on WIGOS” would develop a project implementation plan as outlined in Annex I with an associated timetable. In response to 3(i) of the proposed schedule, it was agreed that the Terms of Reference of the Group are:

- (a) *Produce a Joint CAS/CBS GAW-GOS Project Plan for review by both MGs as a matter of urgency. The Project Plan will also be available to the EC WG on WIGO/WIS whose first meeting is planned for December 2007. The Project Plan should support the high level WIGOS/WIS goal to establish a comprehensive, coordinated and sustainable system of WMO observing systems with ensured access to its component observing systems' data and products through interoperable arrangements.*
- (b) *Following approval by the respective Management Groups, the Joint CAS/CBS GAW-GOS Expert Group will work through CAS and CBS to implement the Project Plan to enhance delivery of chemical composition data for assimilation by numerical weather prediction models and the delivery of pre-operational products to a user community.*
- (c) *Proposed Members of the Experts Group are:*
  - i. CBS OPAG-IOS Chair;*
  - ii. CBS ET-EGOS Chair;*
  - iii. CBS Co-chair of OPAG-ISS (Dr. Steve Foreman);*
  - iv. CAS Chair OPAG-EPAC;*
  - v. CAS Chair of GAW Expert Team on NRT-CDD; and*
  - vi. CAS Chair of Expert Team on World Data Centres.*

CAS-MG2 approved the joint WIGOS GAW/GOS Pilot Project as described in the Annex.

## ANNEX

### PILOT PROJECT 1 - Joint GOS-GAW Pilot Project to accelerate implementation of WIGOS/WIS

#### 1. Background

As part of its WIGOS decision, Cg XV requested several pilot projects: – one for CBS and CAS to undertake a joint pilot project to enhance coordination of GOS and GAW in WIGOS/WIS. The high level WIGOS/WIS goal is to establish a comprehensive, coordinated and sustainable system of observing systems with ensured access to its component observing systems' data and products through interoperable arrangements. WIGOS is the system of observing systems and WIS provides the access through the interoperable arrangements. WIGOS/WIS will address all WMO Programme requirements, ensure availability of required information, meet data quality standards, and facilitate access in real/quasi-real time as well as to archived information. The CBS/CAS Joint Pilot Project will make an important contribution in the development of WIGOS/WIS.

Factors bearing on planning:

- CAS MG meeting held 24-26 Sept 2007, Oslo and planned for Geneva in Sept 2008
- CBS MG meeting in August 2008
- EC WIGOS/WIS Working Group Meeting Dec 2007 or January 2008
- CAS OPAG EPAC Meeting March 2009

#### 2. Joint GOS-GAW Pilot Project Development

To accelerate implementation of WIGOS/WIS, the GOS-GAW pilot project (including relevant WIS items) mandated by CG-XV should, as a first step, develop a draft project plan through an “ad-hoc CBS & CAS experts group on WIGOS”. Follow-on steps envision joint meetings of CAS and CBS management groups (MGs) and appropriate OPAGs to finalize the project plan and implement it as well as reporting to the MGs and the EC WIGOS/WIS Working Group.

#### 3. Proposed Schedule and Actions:

- i. Early August 2007, D/AREP and D/WWW consulted by email with the CAS and CBS Presidents, OPAG chairs, explaining the proposal and assigning responsibilities for a joint document to be submitted to the CAS MG meeting jointly by AREP and WWW.
  - ii. 24-26 September 2007 at CAS MG Meeting Oslo. CBS MG was represented by President of CBS and AD/WWW. It initiated development of a draft project plan by approving terms of reference of the “ad-hoc CBS & CAS Experts Group on WIGOS” and approved a joint CAS/CBS MG meeting to be held in 2008, possibly July.
  - iii. February 2008 Geneva 1<sup>st</sup> Meeting of “ad-hoc CBS & CAS Experts Group on WIGOS”. Complete the joint CBS-CAS Project Plan for GAW-GOS for EC WG WIGOS/WIS review and EC-LX guidance (June 2008).
  - iv. July 2008: Joint meeting of CBS & CAS MG (accordance with item ii) Purpose: Incorporate EC LX guidance and decisions into final joint Project Plan.
  - v. Implement the project by November 2010 reporting to CAS and CBS and EC WG on WIGOS/WIS and finally Cg-XVI (May 2011)
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