

## The CIMO Pilot Project on WIGOS

<b>Project Name</b>	Elaboration of the underpinning / cross-cutting role and responsibilities of the Instruments and Methods of Observation Programme and CIMO in the context of WIGOS
<b>Acronym</b>	N/A
<b>Project Type</b>	Pilot
<b>Project Status</b>	<p><b>Phase 1:</b> of Pilot Project planning and implementation is nearly completed. CIMO has actively worked with each of the ad hoc working groups except for CHy. Planning and implementation is currently in various stages with GOS / GAW, AMDAR and JCOMM and as soon as CHy completes its initial planning and confirmation of its pilot CHy and CIMO can begin its dialogue addressing the CHy Pilot Project and how CIMO might provide assistance. This awaited meeting will likely not take place prior to the WIGOS / WIS Sub-group meeting scheduled for November 2008.</p> <p><b>Phase 2:</b> is underway with the three remaining pilot projects. At these meetings each program addressed how CIMO could assist each in meeting the goals of their respective pilot projects. Each meeting resulted in identifying activities and tasks in which CIMO could provide the necessary assistance to complete the requisite activity / task. The pilots are currently at different stages of development; JCOMM has fully developed its implementation plan and will be seeking JCOMM and IOC approval. The AMDAR and GOS / GAW pilots are in the process of drafting their implementation plans.</p> <p><b>Phase 3:</b> support activities will commence once each implementation plan has been finalized and approved. Due to the advanced nature of the JCOMM and AMDAR plans, CIMO representatives have initiated work on several activities.</p>
<b>Project Overview</b>	This Pilot Project is directed at defining the CIMO's role and responsibilities within the WIGOS framework. Once these proposed roles and responsibilities (Terms of Reference (ToR)) are endorsed by the EC-WG-WIGOS/WIS and Sub-group on WIGOS, the proposal will be tested and demonstrated across the remaining WIGOS Pilot and Demonstration Projects to validate the effectiveness of the proposed TOR in addressing the WIGOS needs.
<b>Project Aims</b>	<p><b>Phase 1:</b> of this project is to elaborate the underpinning / cross-cutting roles and responsibilities of the CIMO in the WIGOS (ToR for CIMO in the context of WIGOS).</p> <p><b>Phase 2:</b> of this project will involve meeting with the remaining four pilot project Ad hoc Working Groups. In addition CIMO will meet with any new pilot and demonstration projects approved by the EC-WG on WIGOS/WIS. As of the November 2008 meeting of the CIMO Ad-hoc WG the decision was made to contact the Brazilian and Moroccan points of contact to see if CIMO assistance might be required to assist in their demonstration projects. The Secretariat was tasked to contact these representatives and the representatives of any newly approved projects by the EC-WG on WIGOS/WIS/</p> <p><b>Phase 3:</b> of this project is to develop and implement a plan which demonstrates the process by which CIMO fulfils its newly, EC-agreed upon roles and responsibilities within the WIGOS framework. It will also address CIMO's collaborative activities with pilot projects and select demonstration projects.</p>
<b>Partners / Participants</b>	<p><b>Phase 1:</b> All WMO Technical Commissions, Co-sponsored Programmes and related International Organizations.</p> <p><b>Phase 2:</b> Selected WIGOS Pilot and Demonstration Projects relevant to the CIMO-Pilot Project.</p> <p><b>Phase 3:</b> Selected WIGOS Pilot &amp; Demonstration Projects relevant to the CIMO-Pilot Project.</p>
<b>Funding Source(s)</b>	The three phases of this project will, to the maximum extent possible, make use of the expertise to be provided through the working structure of the CIMO and its WIGOS partners. Additional support will be required through the WMO budget and / or WIGOS-WIS Trust Fund.

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<b>Project Timescale</b>	<p><b>Phase 1:</b> Pilot Project proposal for the role of the CIMO within the WIGOS and draft implementation plan development: fourth quarter 2008.</p> <p><b>Phase 2:</b> Meet with each of the Pilot Project groups to determine the CIMO's role with each Pilot Project: fourth quarter 2008.</p> <p><b>Phase 3:</b> Implementation: 2009-2011.</p>
<b>Expected Key Deliverables</b>	<p><b>Phase 1:</b> Proposed CIMO TOR within the framework WIGOS and draft proposal for implementation.</p> <p><b>Phase 2:</b> Project approval and implementation and management, periodic evaluation and reporting of lessons learned and the documentation as well as tracking of recommendations and actions.</p> <p><b>Phase 3:</b> Complete collaborative efforts with all pilot and demonstration projects to insure the delivery of pilot and demonstration objectives tasked to CIMO.</p>
<b>Project Links</b>	<p><a href="http://www.wmo.int/pages/prog/www/wigos/index_en.html">http://www.wmo.int/pages/prog/www/wigos/index_en.html</a></p>
<b>Project Summary</b>	<p>The Commission shall be responsible for matters relating to international standardization, compatibility and sustainability of instruments and methods of observation of meteorological, climatological, hydrological, oceanographic, and related geophysical and environmental variables.</p> <p>The CIMO representative has met with the various PP and through these meetings has identified how CIMO can assist these PPs, JCOMM-IODE and AMDAR in meeting their identified goals of the WIGOS PPs. It was determined that CIMO related assistance was not required for the activities identified in the GAW/GOS and Chy WIGOS PPs. This information was provided to the CIMO PP Ad-hoc Working Group at their last meeting.</p> <p>The Ad-hoc WG also reviewed the possible need for CIMO support of the various demonstration projects. The Brazil and Morocco demonstration projects were identified as the most likely candidates requesting CIMO support. The Ad-hoc WG requested the Secretariat to contact these and the remaining demonstration project managers to determine whether CIMO support would be required in meeting the goals of their respective projects.</p> <p>The Ad-hoc WG is also awaiting the decisions of the EC- Working Group on WIGOS/WIS as to the recommendations made by the Subgroup on WIGOS on approving additional pilot and demonstration projects presented at the initial meeting of the Subgroup in November of 2008. Once approved the Secretariat will contact each project lead to identify whether CIMO is needed to support their respective projects.</p>
<b>Date of Last Update</b>	<p>10/03/2009</p>
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## **Role and Responsibilities of the Commission for Instruments and Methods of Observation (CIMO) within the framework of the WMO Integrated Global Observing Systems (WIGOS)**

Within the framework of the WMO Integrated Global Observing Systems (WIGOS):

The Commission shall be responsible for matters relating to international standardization, compatibility and sustainability of instruments and methods of observation of meteorological, climatological, hydrological, oceanographic, and related geophysical and environmental variables.

This responsibility underpins all observations within WIGOS, and will be carried out in close consultation with relevant WMO partner organizations that co-sponsor, own and/or operate some of the observing systems.

This shall include in particular (priority to be defined at later stage):

- (a) Respond to the requirements for standardized and compatible observations, including data content, quality and metadata;
  - (b) Provide advice, and recommendations, and promote studies concerning effective and sustainable use of instruments and methods of observation, including quality management procedures such as methods for testing, calibration and quality assurance;
  - (c) Conduct and / or coordinate global and regional intercomparisons and performance testing of instruments and methods of observation;
  - (d) Promote the development of measurement traceability to recognized international standards, including reference instruments and effective hierarchy of world, regional, national and lead centres for instrument calibration, development and testing;
  - (e) Promote compatibility, inter-calibration, integration and inter-operability with respect to both, and between, space-based and surface-based (in situ and remote-sensing) observations, including conducting testbed observing experiments;
  - (f) Encourage research and development of new approaches in the field of instruments and methods of observation of meteorological, climatological, hydrological, oceanographic, and related geophysical and environmental variables;
  - (g) Promote the appropriate and economical production and use of instruments and methods of observation with particular attention to the needs of developing countries; and
  - (h) Support training and capacity-building activities in the area of instruments and methods of observation.
  - (i) Liaise with the scientific research community and HMEI in introducing new observing systems into operations
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