

WIGOS Project Progress Reporting

WIGOS-WIS Pilot Project GAW-WDC

Improvement of Interoperability of GAW World Data Centres with WIS and Establishment of Prototype Services to Facilitate User Access to GAW Data

February 2011

1. Introduction	<p>(Brief Project overview, aims and current status)</p> <p>The intention of this pilot project is to demonstrate improvements to the interoperability of GAW WDCs within WIS by exposing ISO 19115-compliant metadata representations describing the data archived at each WDC. These metadata will be used to establish a “proof of concept” prototype client (human-machine interface) through which data holdings and metadata of a given station that are archived at different WDCs can be combined and retrieved with a single client. Project aims are to:</p> <ul style="list-style-type: none">- Improve the possibility to discover data archived at the individual WDCs through catalogues of data holdings- Improve the dissemination of data archived at the WDCs beyond their designated communities- Establish tailored services for the GAW global stations allowing them comfortable access to data and information products available from WDCs while retaining the visibility of the individual data centres <p>Progress has been reported in October 2009 to the Executive Council Working Group on WIGOS-WIS for their Meeting 19-23 October in Geneva (Doc-4-1-1, revised version) as well as in January 2010 to the WIGOS project office. This document reports on progress since then.</p>
2. Implementation Progress	<p>(Progress achieved in comparison with the Project Implementation Plan)</p> <p>NDACC has been included in the automatic metadata exchange with GAWSIS. TCCON has been registered as a contributing network.</p> <p>In order to be WIS compliant, the WDC-RSAT is currently making the metadata of all its products available in ISO 19115/19139 view to German GISC DWD. The metadata will be accessible through the DWD GISC DAR catalogue, and subsequently are used for the description of discovery metadata (search by keywords, abstract, title, time, location ...). Metadata for all data and products available from the DCPC WDC-RSAT are incorporated in the DAR Catalogue of the GISC DWD, before the data or products are released. The WDC-RSAT is registered since October 2010 as GISC Customer through the DWD GISC Website (http://gisc.dwd.de). The WDC-RSAT is currently implementing OGC CSW Catalogue in order to manage its metadata and make them available to DWD within WIS through standard web services interface. The development of a toolkit providing details of satellite overpasses, trajectories etc. (contribution by WDC-RSAT to the pilot project) is still in an early stage of development.</p>
3. Implementation Constrains	<p>(Description of problems encountered during the implementation)</p> <p>In terms of representing metadata in an ISO/WIS-compliant way, the main obstacle remains a thorough examination of the metadata representations of data holdings at each WDC. Vocabularies used have been informally reviewed, but more work is needed. Certain aspects of implementation and scope (e.g., who should implement search interfaces and how?; what is the intended work flow for the generated XML files?) require further consultation and guidance.</p>
4. Action Plan	<p>(Description of activities undertaken to overcome the problems)</p>

	encountered during the implementation) - No coordinated action is presently foreseen beyond what has been achieved so far. Incremental improvement is foreseen at each WDC.
5. Lessons Learned	(Description of lessons learned during implementation)
6. Challenges	Further development of pilot project requires guidance on requirements from WIGOS/WIS management, as well as more financial resources for further implementation.
7. Implementation Priorities for the next period	<ul style="list-style-type: none">- Improve machine access to data archived at WRDC.- Ensure that all WDC's are consistent in their state of operations (example metadata – consistent data dictionaries) in keeping with the project priorities.- Agree on vocabularies.- Continue implementation individually at each WDC.
8. Resources Status	(Summary of resources already used as well as resources available for further implementation) Resources used: in-kind contributions from project partners Resources available: no resources available for further implementation
9. Project Focal Point	Contact Person: Jörg Klausen Position: Chair ET-WDC Organization: MeteoSwiss E-mail: joerg.klausen@meteoswiss.ch
10. Place and Date	Zürich, 1 February 2011