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IPET-MDRD WORK PLAN

This document provides a plan of work for IPET-MDRD (or its successor) during the next CBS Session. Aiming to provide flexibility, the work plan focuses on the objectives and outcomes to be achieved rather than specific activities.

OBJECTIVE | OUTCOME | DELIVERABLE

Deliverables may be delivered in collaboration with another Expert Team.

1. OBJECTIVE: Improve relevance of WIS Discovery metadata.

A. OUTCOME: WIS users are able to find information on data and services

DELIVERABLES:

- i. User-centred analysis of effectiveness of GISC catalogue search interface [ET-WISC]
- ii. Guidance for GISC/DCPC providers on search interface design [ET-WISC]
- iii. Guidance for metadata authors (as input to WMO No. 1061)- including assessment of 'metadata granularity'
- iv. Guidance for metadata tool developers- including automated keyword suggestion for routinely exchanged code forms (e.g. SYNOP; surface, upper air land, ship, buoy, etc.)
- v. Guidance on making WIS metadata records discoverable via industry search engines

B. OUTCOME: Periodical (e.g. monthly) monitoring of metadata quality in WIS DAR catalogue

DELIVERABLES:

- i. Procedures for metadata quality monitoring- including tracking 'missing' metadata and engagement with GISCs to remedy systematic quality issues
- ii. Metadata catalogue monitoring tool(s)

C. OUTCOME: WIS metadata records are resolvable by URL

DELIVERABLES:

- i. URL naming convention for WIS metadata records
- ii. URL resolver implementation (to direct requests to appropriate GISC) [ET-WISC]

D. OUTCOME: WMO Core Metadata Profile (WCMP) compatible with community best practice

DELIVERABLES:

- i. Biannual (fast-track) releases of WCMP amended to accommodate needs of Members and Programmes
- ii. Assessment of value to be realised from migration of WCMP to ISO 19115-1:2014 & ISO/TS 19115-3:2016(e) based on validation of national / organisational implementation experience
- iii. Pending assessment of value, major release of WCMP (“WCMP 2.0”) based on ISO 19115-1:2014 and ISO/TS 19115-3:2016(e) and migration plan

2. OBJECTIVE: Extend WMO data model(s) to address additional WMO information exchange requirements.

A. OUTCOME: Model-driven code forms are available to Programmes that require them

DELIVERABLES:

- i. Plan for engagement with Programmes to elicit data exchange requirements; where appropriate identifying opportunities to adopt external (open) formats
- ii. Updates to WIGOS MD Application Schema in support of OSCAR implementation
- iii. Updates to IWXXM in support of ICAO Annex 3 Amendments 78 and 79 and ICAO SWIM
- iv. Application Schema (and associated code form) to encode climate station metadata and climate data streams
- v. WMO endorsement of OGC standards; candidates include WaterML 2.0 - Part 2 and HY_Features
- vi. Updated Guidelines on data modelling (reflecting changes to METCE etc.)

B. OUTCOME: Guidance regarding use of model-driven code forms available to Members

DELIVERABLES:

- i. Online documentation
- ii. Software tools that simplify use of model-driven code forms

3. OBJECTIVE: Publish standard vocabularies in support of WMO information exchange requirements.

A. OUTCOME: Consistent naming within WMO

DELIVERABLES:

- i. Consolidated CBS code lists; including incorporation of WIGOS MD Table (1-01) within Common Table D2; new WIGOS MD code lists, subsets of the (extended) table D-2 relevant to each code form (e.g. FM-12 SYNOP) for use in WMO discovery metadata etc.

B. OUTCOME: Extend use of WMO Codes Registry

DELIVERABLES:

- i. Agreed workflow for updating content in WMO Codes Registry [IPET-DRMM]
- ii. WMO Codes Registry extended beyond TDCF: add code tables from WIS (WCMP metadata), WIGOS Metadata, GDPFS, hydrology
- iii. Clarified navigation within WMO Codes Registry; e.g. thematic root-level registers, improved labelling, support for role-specific views of content etc.
- iv. Definitions and language translations added to WMO Codes Registry (e.g. sourced from International Vocabulary of Meteorology)

- v. Cross links between terms added to WMO Codes Registry- including references to terms in external code lists; e.g. CF Standard Names, Unified Code of the Units of Measurement (UCUM) [<http://unitsofmeasure.org/ucum.html>] and EU GEMET (GEneral Multilingual Environmental Thesaurus)
- vi. WMO data models (e.g. METCE, OPM, IWXXM, WIGOS MD) published as ontology resources within WMO Codes Registry
- vii. Enhanced registry software; to support browsing of cross-links (e.g. using SSSvoc API), visualising data model ontologies, improved user-interface

4. OBJECTIVE: Establish new working practices for data exchange

A. OUTCOME: Faster, consistent response to new requirements

DELIVERABLES:

- i. Cross-WMO standard procedures for managing code lists and terms
- ii. Framework to support engagement with external organisation with which to deliver standards, practices and guidance material through collaboration
- iii. Where necessary, Memorandum of Understanding (MoU) in place with external organisation through which WMO requirements for data exchange may be met

B. OUTCOME: Improved management of data exchange

DELIVERABLES:

- i. Guidance on proven data exchange best practices collated and published on-line; incorporating implementation feedback from Members