WORLD WEATHER WATCH
COMMISSION FOR BASIC SYSTEMS

World Meteorological Organization
Working together in weather, climate and water

Ad hoc inter-programme workshop on representation of WIGOS and climate metadata

IPET-MDRD-2/D01

Draft 8

Melbourne, 22-25 June 2015

22-Jun-15

Provisional Agenda

Agenda item	Lead	Doc
1. Organization of the meeting		
1.1. Welcome and objectives (Dr Barrell (BoM), WMO, Chair)	Chair	P01.1
1.1.1. Introduction to WIGOS.	Dr Barrell	P01.1.1
1.2. Adoption of the agenda	Chair	D01
1.3. Working arrangements	Chair	P01.3
2. Background		
2.1. Approach to model-driven development of data exchange standards	Tandy	
2.2. UML basics	Lowe	P02.2
2.3. Rules for Application Schema; feature types and datatypes etc.	Lowe	P02.3
2.4. Model-driven development workflow and tools	Lowe	P02.4, P02.4(2), P02.4(3)
2.5. A simple example	Lowe	
2.6. Overview of Observations and Measurements	Lowe	P02.6
2.7. Overview of WMO data model: METCE	Tandy	
2.8. Timeseries and TimeseriesML - a close up look	Lowe	P02.8
3. Review high level requirements for the use of Observations Metadata		
3.1. Detailed review of WIGOS Metadata specification	Klausen	D03, P03.1(1)
3.2. Observation data in practice: implications for data encoding		
3.2.1 Managing reference data (e.g. station metadata): OSCAR/Surface, Vol A Station Gazetteer and other systems	Klausen	
3.2.1.1. What NMHS are doing.	Monnik	
3.2.2. Compiling a time-series from regular observations: GAWSIS	Klausen	
3.2.3. CHy requirements for observations metadata and related experience with the Australian Water Act.	Boston	
3.2.4. Aggregating crowd-sourced observations: WOW	Tandy	
3.2.5. Managing a historical climate record	Bannerman	P03.2.5

3.2.5.1. Experiences of Observations Metadata requirements in Developing Countries	Stuber	
3.2.5.2. Bureau of Meteorology climate data quality management.	Flannery	
3.2.5.3. Experiences in establishing and using an homogenised high quality climate network (ACORN-SAT).	Trewin	P03.2.5.3, D03.2.5.3
3.2.5.4. Defending the Climate Record: Responding to Parliamentary Inquiries and Freedom of Information requests	Trewin / Flannery	
3.2.6. What is the Authoritative record?	Bannerman	P03.2.6
3.3. Compilation of user stories that can be used to validate the formal encoding of WIGOS Metadata (outline level only)	Bannerman	P03.3
4. Data Modelling	Chair	D02
4.1. Mapping WIGOS Metadata specification to METCE, Timeseries and WMO Core Metadata Profile	Tandy	
4.2. Integrating Timeseries with METCE	Tandy	
4.3. Extension points: how and where to extend the formal encoding of WIGOS Metadata to meet future requirements	Bannerman	
4.3.1. Use of Climate Data Management System Specification to provide extensibility requirements	Bannerman	P04.3.1
4.4. Create a first-cut Application Schema (UML model) for the formal encoding of WIGOS Metadata (based on requirements captured in Day2)	Lowe	
4.5. Identification of new controlled vocabularies for publication for WMO Codes Registry (codes.wmo.int)	Tandy	
4.6. Derive GML Application Schema (XML Schema) from the UML	Lowe	
5. Data Modelling and Developing Work Plan		
5.1. Encoding of sample data	Tandy	R01, R02, Link01
5.2. Evaluation of encoded sample data against outline use cases (from Day2)	Lowe	
5.3. Testbed design- how will we validate the formal encoding of WIGOS Metadata?	Bannerman	
5.4. Considerations for future iterations including alternative encodings: BUFR, NetCDF / HDF5, RDF?	Tandy	
5.5. Develop the work plan	Bannerman	
5.5.1. Identify other organisations (if any) with whom we can collaborate to accelerate the work	Bannerman	
5.5.2. Creation of WMO regulation (additions to WMO No 306 Manual on Codes Vol I.3)	Tandy	
6. Any other business	Bannerman	
7. Closure of the meeting	Bannerman	