

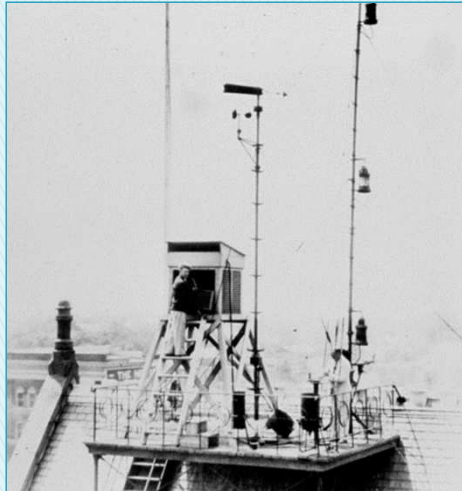
WIGOS Metadata Standard (WMDS)



- Specifies metadata elements to be recorded and exchanged for all stations/platforms under WIGOS
- Applies to all WIGOS component observing systems: GOS, GAW, WHOS, GCW
- Practical implementation via the OSCAR/Surface database (metadata repository)

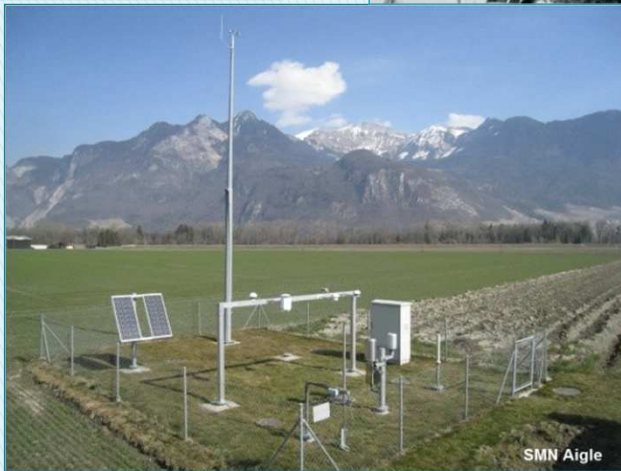
WIGOS METADATA PRINCIPLES:

- Enable adequate use of observations
- Timestamp on every piece of metadata
- For all internationally exchanged observations
- Metadata updates in a timely/useful manner
- For all types of observations
- Applicable to all disciplines
- Acceptable to and applicable by all Members
- Forward-looking but also respect legacy



WMDS CATEGORIES:

- 1- Observed variable
- 2- Purpose of observation
- 3- Station/Platform
- 4- Environment
- 5- Instruments and methods of observation
- 6- Sampling
- 7- Data processing and reporting
- 8- Data quality
- 9- Ownership and data policy
- 10- Contact

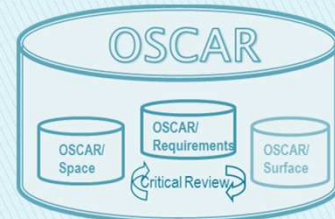


What Members have to do:

- Keep records of WIGOS metadata
- For observations exchanged internationally:
 - Exchange also the associated WIGOS metadata
 - Keep entries in **OSCAR/Surface** up to date



Three levels of metadata reporting
Mandatory - Required for all WIGOS observing systems/platforms
Conditional - Required if applicable (e.g. instrument calibration makes little sense for a human observer)
Optional - Desirable/useful, but non-compulsory



The Observing Systems Capabilities Analysis and Review tool (OSCAR) database is the key source of information for WIGOS metadata - other global compilations of specific components of WIGOS are held in several databases, e.g. GAWSYS, JCOMMOPS.

WIGOS Identifiers

- Used to link observations, stations/platforms and other items to their associated WIGOS metadata;
- For any station/platform known to Members, regardless of the commitment for data quality or sustained operation;
 - For managing and planning the networks

WIGOS Metadata Implementation phases

2016	2017-18	2019-2020
Metadata elements that are less challenging to implement	Elements that will require additional data and/or changes to procedures	Remaining elements