

DISCOVERY

1. Specifications for modelling metadata
2. Specifications for observation metadata
3. We cross-analysed these with Erins mapping Excel sheet
4. A good deal of ISO standards and CF are already there

It is easier than we thought!

Modelling metadata (I)

Modified modeling metadata elements

- Title
- Modeling ID = Institution running model + model name(s) + version(s) + run ID

2a, Time of creation or update – ISO code

2b. Abstract – human readable description – Free text

2c, userLimitations – ISO codes

2d. Access Constraints .. Not clear whether the ISO standard exists ? Probably yes.

- Modeling scope = Regulatory/Research + Directive (if applic) + Regulatory Authority Codelist (if applic)
- Modeling method
 1. Originator or Distributer //// Provider=PI= Point of contact
 2. Model Name/Model Type(s) [specific tags to be determined from a managed vocabulary: e.g., Regional, Global, Local, AQ, Climate, Met, Emissions, Transport, ...]
 3. (s)
 4. Simulation Type(s) [also need managed vocabulary, e.g. Forecast, Hindcast, Analysis, Off-line, On-line, ...] – type specific information also needed, e.g. forecast length, ...
 5. Model Version(s)
 6. Assimilated Observational Data [Define details...]
 7. Link(s) to Documentation
- Model **output** time period

1. Start time
 2. End time
 3. Model output frequency (highest output resolution, e.g. hourly) ISO
 4. Model output frequency type (e.g. average or instantaneous)
 5. Dataset aggregation period (e.g. monthly, ...)
 6. Number of time periods...[FINISH this later]
- Model **output** spatial characterization
 1. Extent Geographic Bounding Box = lat/lon coordinates of output domain boundaries
 2. Vertical extent Bounding Box = 3D coordinates of output domain boundaries
 3. Coordinate Reference System (e.g., horizontal reference = EPSG, OGC, ...; vertical reference = pressure, etc)
 4. Horizontal resolution
 5. Vertical resolution (not in ISO)
 6. Processing and aggregation (not in ISO. We need CF) [FINISH later]