Developments to the WMO Codes Registry

http://codes.wmo.int

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Content additions

“There is lots left to do, but we've done most of the large tables”

- BUFR
  - code and flag
  - table b
- GRIB
  - parameter codes

Optimising navigation?

- “In general it's quite difficult to navigate around the Manual on Codes registers. It would be good if there were clearer, hierarchical "navigational" registers which followed a predictable pattern” [D.Lowe]
- http://codes.wmo.int/306 becomes the top-level register for the Manual on Codes and is the primary entry point for the manual on codes
- (At the moment http://codes.wmo.int/306 is labelled as 306 Significant Weather, although the actual significant weather register is w’w')
- Then http://codes.wmo.int/306/VI1 could be defined as a sub-register of 306 containing entries relevant to Volume I.1 … and so on
- 'root' and 'common' are to some extent trying to do this navigation already but the pathway through the registers isn't that clear
- can this be done without changing any of the existing URIs; it’s really about adding navigational aids to group the sub-registers appropriately?

Content additions (in progress)

- Atmospheric Chemistry Vocabulary (TT-ACV) - *collaboration with Martin Schultz*
- WIGOS Metadata code lists (TT-WMD) - *collaboration with Jörg Klausen*

Questions:

- *should we create a top-level 'wigosmd' register?*
- *where should 'acv' go? ('acv' is not a child of 'wigosmd')*

Functional enhancements: *major release*

- export to csv
- snapshots and replication
- admin level delete
- new styling and presentation (fix to front page pending)
- authentication oauth
- xss protection
- https admin support
- prototype uml-like rendering of Ontologies e.g. /def/grib2
- development community for the underpinning project is growing
- bug fixes

Future enhancements?

- Use of SKOS Concept Schemes to enhance navigation

- Browsable cross-links between terms; e.g. SISSVoc API to traverse SKOS relationships

- Improved visual display of ontology resources

> *SISSVoc is a Linked Data API for accessing published vocabularies. SISSVoc provides a RESTful interface via a set of URI patterns that are aligned with SKOS. These provide a standard web interface for any vocabulary which uses SKOS classes and properties.*

> *SISSVoc provides web pages for human-readable views, and machine-readable resources for client applications (in RDF, JSON, and XML).*

Read more about SISSVoc API in the Semantic Web Journal