Metadata Hack-a-Thon

July 10, 2014, 4pm Ptarmigan B

ESIP Summer Meeting

**Discussed Topics**

1. **HTML displays of metadata leveraging** [**schema.org**](http://schema.org/) **tags (crosswalking tags to ISO metadata)- 14**
   1. <http://schema.org/Dataset>
   2. we briefly looked at at some of the schema.org tags
   3. decision to at a minimum: tag up a landing page with dataset, time, location and URLs mapped from ISO standards
   4. ADD Examples HERE:
      1. <http://jsbin.com/kuquyori/21/edit>
2. **xlinks in metadata to linked open data terms -6** 
   1. Cruise Metadata Examples: <http://www.ngdc.noaa.gov/docucomp/page?xml=NOAA/NESDIS/NGDC/MGG/Cruise/iso/xml/HLY0302.xml&view=xml2text/xml-to-text-ISO>
   2. can we use this as another discovery mechanism?
   3. Example: <gmx:Anchor @xlink:href=”URLtoThing” xlink:title=”Thing Name”>Thing Name</gmx:Anchor>
      1. Can we use the Xlink:role or ArcRole...?
      2. maybe the tool can find all xlinks and aggregate them?

**Potential Topics**

1. **consistent description of data quality information in ISO 19157 - 6**
   1. <https://www.iso.org/obp/ui/#iso:std:iso:19157:ed-1:v1:en>
2. **relationships between provenance and ISO lineage - 6**
   1. ontology development:
      1. <http://def.seegrid.csiro.au/isotc211/iso19115/2003/lineage>
      2. <http://def.seegrid.csiro.au/isotc211/iso19115/2003/extent>
   2. <https://github.com/roomthily/gstore-elseweb/tree/master/metadata_to_prov>
3. **utilization of metadata to facilitate DOI citations -5** <http://www.ngdc.noaa.gov/metadata/published/views/doiRubricHTML.xsl>
   1. <http://www.ngdc.noaa.gov/metadata/published/views/getDataView.xsl>
   2. <http://www.iris.edu/doi/>
4. **generation of metadata from domain specific databases: questions, approaches? -2**
   1. Hand-coded mapping to an established format
      1. code up from db schema OR
      2. code down from data format
   2. ORM or Schema mapping document fitting to metadata API
5. **web applications for exploring metadata (hyperlink trees, cross referencing, discovery) -2**
   1. <http://www.iris.edu/mda>
6. **web services that provide metadata - 2**
   1. <http://service.iris.edu/>
   2. <http://podaac.jpl.nasa.gov/ws/metadata/dataset/index.html>
   3. <http://podaac.jpl.nasa.gov/ws/metadata/granule/index.html>
7. **systems and protocols for exchanging metadata -1**
   1. <http://www.fdsn.org/xml/station/>
   2. <https://quake.ethz.ch/quakeml>
8. **geographic representation of metadata, drilldown capability -3**
   1. <http://www.iris.edu/gmap/_GSN-BROADBAND>
   2. <http://www.iris.edu/ieb>

**Other Resources**

1. ISO Explorer on the NOAA Environmental Data Management Wiki
   1. <https://geo-ide.noaa.gov/wiki/index.php?title=MI_Metadata>
2. ESIP Documentation Cluster Wiki
   1. <http://wiki.esipfed.org/index.php/Category:Documentation_Cluster>
3. Getting Tools Set Up
   1. <https://ngdc.noaa.gov/wiki/images/f/f4/ToolSetUp.pdf>
4. EMMA
   1. <http://www.ngdc.noaa.gov/metadata/emma>
5. <https://cdn.earthdata.nasa.gov/iso/resources/transforms/>