WP 8.1- Progress with vocabulary developments in D8.1

Alexandra Kokkinaki, Gwen Moncoiffe, Quyen Luong, Simon Cox, Adam Leadbetter, Rob Thomas
WP8.1 Progress

- **W8.1.1** Improve the transparency of the vocabulary governance model (BODC, CSIRO, MI)
- **WP8.1.5** Make versioning and history of concepts visible through NVS (BODC, CSIRO, MI)
- **WP8.1.6** Document the provenance of mappings (BODC, CSIRO, MI)
- **WP8.1.4** Deprecation of vocabularies (MARIS, IFREMER, BSH, BODC)
- **D8.1 report**
machine readable
interoperable
unambiguous

NVS

http://vocab.nerc.ac.uk/sparql/

http://vocab.nerc.ac.uk/collection/{XXX}/current/

http://vocab.nerc.ac.uk/collection/{XXX}/current/Y/

http://vocab.nerc.ac.uk/vocab2.wsdl

http://vocab.nerc.ac.uk/collection/
WP8.1.1 Transparency of the governance model

Contact details to the governance authority or records of governance discussions and decisions

sdn-userdesk@seadatanet.org – www.seadatanet.org
Transparency of the governance model

- Github (issue tracker)
  - [https://github.com/nvs-vocabs](https://github.com/nvs-vocabs)
  - [https://github.com/nvs-vocabs/S02](https://github.com/nvs-vocabs/S02)
  - [https://github.com/nvs-vocabs/S06](https://github.com/nvs-vocabs/S06)
  - [https://github.com/nvs-vocabs/S29](https://github.com/nvs-vocabs/S29)
  - [https://github.com/nvs-vocabs/S27](https://github.com/nvs-vocabs/S27)
  - [https://github.com/nvs-vocabs/S26](https://github.com/nvs-vocabs/S26)
  - [https://github.com/nvs-vocabs/P01](https://github.com/nvs-vocabs/P01)
BODC parameter semantic model relationships between what theme and where theme

Terms used to describe the relationship between the 'where theme' and the 'what theme' in the BODC semantic model for measured phenomena

2018-03-28 02:00:04.0

Natural Environment Research Council

British Oceanographic Data Centre

Version Info: 1.3

British Oceanographic Data Centre

https://github.com/nws-vocabs/S02
WP8.1.5 Versioning of concepts

In NVS, each concept carries its own version number and publication date. Each time any concept attribute is modified, a DB trigger archives the record as it was, increments the version number and sets the last modification/publication timestamp to the current time.

Links to previous version
Access to the concept’s information as it was in previous version
Requirements

• Provide access to version information about the concept

Steps

• URL design
• RDF model design
• Implementation
  • REST
  • SPARQL and
  • SOAP interfaces
URL Design

- [http://vocab.nerc.ac.uk/collection/P07/current/CF12N86/](http://vocab.nerc.ac.uk/collection/P07/current/CF12N86/)
  - Brings the current concept version
- [http://vocab.nerc.ac.uk/collection/P07/current/CF12N86/1/](http://vocab.nerc.ac.uk/collection/P07/current/CF12N86/1/)
  - Brings concept version 1
- [http://vocab.nerc.ac.uk/collection/P07/current/CF12N86/2/](http://vocab.nerc.ac.uk/collection/P07/current/CF12N86/2/)
  - Brings concept version 2
- [http://vocab.nerc.ac.uk/collection/P07/current/CF12N86/3/](http://vocab.nerc.ac.uk/collection/P07/current/CF12N86/3/)
  - Brings concept version 3 etc.
<table>
<thead>
<tr>
<th>ONTOLOGY</th>
<th>PROPERTY</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>provenance, authoring and versioning (PAV)</td>
<td>hasCurrentVersion</td>
<td>This property is intended for relating a non-versioned or abstract resource to a single snapshot that can be used as a permalink to indicate the current version of the content.</td>
</tr>
<tr>
<td></td>
<td>hasVersion</td>
<td>This property is intended for relating a non-versioned or abstract resource to several versioned resources, e.g. snapshots</td>
</tr>
<tr>
<td></td>
<td>previousVersion</td>
<td>The previous version of a resource in a lineage</td>
</tr>
<tr>
<td></td>
<td>version</td>
<td>The version number of a resource. This is a freetext string</td>
</tr>
<tr>
<td>dcterms</td>
<td>isVersionOf</td>
<td>A related resource of which the described resource is a version, edition, or adaptation.</td>
</tr>
<tr>
<td>URI</td>
<td><a href="http://vocab.nerc.ac.uk/collection/L24/current/BAG/">http://vocab.nerc.ac.uk/collection/L24/current/BAG/</a></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Identifier ()</td>
<td>SDN:124:BAG</td>
<td></td>
</tr>
<tr>
<td>Preferred label (en)</td>
<td>Bathymetric Attributed Grid format</td>
<td></td>
</tr>
<tr>
<td>Alternative label ()</td>
<td>BAG</td>
<td></td>
</tr>
</tbody>
</table>

**Has Current Version**: http://vocab.nerc.ac.uk/collection/L24/current/BAG/1/

**PAV Authored On**: 2014-06-24 08:56:13.0

**Definition (en)**: A global, non-proprietary, open source exchange format created to facilitate the processing and storage of large volume multibeam sonar data. It is developed by the Open Navigation Surface Working Group.

**Deprecation**: false

**Date**: 2014-06-24 08:56:13.0

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<table>
<thead>
<tr>
<th>URI</th>
<th><a href="http://vocab.nerc.ac.uk/collection/L24/current/CF/">http://vocab.nerc.ac.uk/collection/L24/current/CF/</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Identifier ()</td>
<td>SDN:124:CF</td>
</tr>
<tr>
<td>Preferred label (en)</td>
<td>Climate and Forecast NetCDF</td>
</tr>
<tr>
<td>Alternative label ()</td>
<td>CF_NETCDF</td>
</tr>
</tbody>
</table>

**Has Current Version**: http://vocab.nerc.ac.uk/collection/L24/current/CF/3/

**PAV Authored On**: 2013-07-16 12:27:17.0

**Definition (en)**: SeaDataNet extension of the Climate and Forecast (http://www.cfconventions.org/) version 1.5 standard binary format with additional semantics embedded. Designed for gridded data.

**Deprecation**: false

**Related**: http://vocab.nerc.ac.uk/collection/C10/current/SPGRID/

**Date**: 2013-07-16 12:27:17.0

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<table>
<thead>
<tr>
<th>URI</th>
<th><a href="http://vocab.nerc.ac.uk/collection/L24/current/CFOINTER/">http://vocab.nerc.ac.uk/collection/L24/current/CFOINTER/</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Identifier ()</td>
<td>SDN:124:CFOINTER</td>
</tr>
<tr>
<td>Preferred label (en)</td>
<td>Climate and Forecast Point Data NetCDF</td>
</tr>
<tr>
<td>Alternative label ()</td>
<td>C1.6_NETCDF</td>
</tr>
</tbody>
</table>

**Has Current Version**: http://vocab.nerc.ac.uk/collection/L24/current/CFOINTER/1/

**PAV Authored On**: 2013-07-16 12:27:20.0

**Definition (en)**: SeaDataNet extension of the Climate and Forecast (http://www.cfconventions.org/) version 1.6 standard binary format for point data with additional semantics embedded. Designed for profiles, time series and trajectories.
WP8.1.5 Versioning of concepts

### -- Latitude north (WGS84) by unspecified GPS system --

| URI     | http://vocab.nerc.ac.uk/collection/P01/current/ALATGP01/ |
| Identifier () | SDN:P01::ALATGP01 |
| Preferred label (en) | Latitude north (WGS84) by unspecified GPS system |
| Alternative label (en) | Lat_GPS |
| Definition (en) | Unavailable |
| Version Info () | 2 |
| Date () | 2012-07-25 11:51:09.0 |

### -- Latitude north (WGS84) by unspecified GPS system --

| URI     | http://vocab.nerc.ac.uk/collection/P01/current/ALATGP01/ |
| Identifier () | SDN:P01::ALATGP01 |
| Preferred label (en) | Latitude north (WGS84) by unspecified GPS system |
| Alternative label (en) | Lat_GPS |
| Definition (en) | Global Positioning System (receiver type unspecified) |
| Version Info () | 1 |
| Is Version Of | http://vocab.nerc.ac.uk/collection/P01/current/ALATGP01/ |
| PAV Version () | 1 |
| PAV Author (en) () | 2009-05-19 14:31:28.0 |
| Deprecated () | false |
| Date () | 2009-05-19 14:31:28.0 |

Link to previous versions

Access to the concept’s information as it was in previous versions
Provenance of mappings

To ensure that there is confidence in mappings carried out, information relating to who has carried out the mappings and their reliability was stored alongside the mappings.
<table>
<thead>
<tr>
<th><strong>Mappings</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Preferred label (en)</strong></td>
<td>Protoperidinium humile (WoRMS 233263)</td>
</tr>
<tr>
<td><strong>Same as</strong></td>
<td><a href="http://www.marinespecies.org/aphia.php?p=taxdetails&amp;id=233263">http://www.marinespecies.org/aphia.php?p=taxdetails&amp;id=233263</a></td>
</tr>
<tr>
<td><strong>Same as</strong></td>
<td><a href="http://lsid.tdwg.org/urn:lsid:marinespecies.org:taxname:233263">http://lsid.tdwg.org/urn:lsid:marinespecies.org:taxname:233263</a></td>
</tr>
<tr>
<td><strong>Broader</strong></td>
<td><a href="http://vocab.nerc.ac.uk/collection/S01/current/S015/">http://vocab.nerc.ac.uk/collection/S01/current/S015/</a></td>
</tr>
<tr>
<td><strong>Narrower</strong></td>
<td><a href="http://vocab.nerc.ac.uk/collection/P01/current/BE6789AB/">http://vocab.nerc.ac.uk/collection/P01/current/BE6789AB/</a></td>
</tr>
<tr>
<td><strong>Date ()</strong></td>
<td>2011-03-04 11:01:44.0</td>
</tr>
</tbody>
</table>
New URL

• http://vocab.nerc.ac.uk/mapping/{l/E}/{mapref}/

Unique identifier for the mapping
Click entity for XPath. Double-click to collapse/expand. Enter XPath or XML string then click XPath/Parse for results or to XML Tree-ify, respectively.

```xml
    <rdf:Description rdf:about="http://vocab.nerc.ac.uk/mapping/I/61/">
        <rdf:type rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#Statement"/>
        <rdf:subject rdf:resource="http://vocab.nerc.ac.uk/collection/P03/current/C038/"/>
        <rdf:predicate rdf:resource="http://www.w3.org/2004/02/skos/core#broader"/>
        <rdf:object rdf:resource="http://vocab.nerc.ac.uk/collection/P09/current/DS02/"/>
        <reg:submitter rdf:parsertype="Resource">
            <rdf:type rdf:resource="http://xmlns.com/foaf/0.1/Person"/>
            <rdf:type rdf:resource="http://www.w3.org/ns/prov#Agent"/>
            <foaf:name>Roy Lowry</foaf:name>
            <foaf:title>Dr</foaf:title>
            <org:memberOf rdf:resource="http://vocab.nerc.ac.uk/collection/C75/current/B0D/"/>
        </reg:submitter>
    </rdf:Description>
</rdf:RDF>
```
Give me all the mappings Michele has submitted

?a <http://www.w3.org/1999/02/22-rdf-syntax-ns#subject> ?s .
?a <http://www.w3.org/1999/02/22-rdf-syntax-ns#object> ?o.
FILTER(regex(?u,"Fich","i"))
} limit 100
Task WP8.1.4: Deprecation of vocabularies
IFREMER, MARIS, BSH

- MARIS CDI import
- IFREMER Mikado, Nemo, Download Manager
- BSH CSR XML import, CSR data input webform
- BODC EDIOS import, EDMED import
## Work Overview

<table>
<thead>
<tr>
<th>Tasks</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVS2.0 SOAP/API/SPARQL enhancement to handle deprecation</td>
<td>Done</td>
</tr>
<tr>
<td>Support for deprecation</td>
<td>Ongoing</td>
</tr>
</tbody>
</table>
All vocabs that have been updated since October 2018

- select * where {?a
- FILTER((?dateX)="2018-10")
- }

sdn-userdesk@seadatanet.org – www.seadatanet.org
All deprecated terms and the terms that replace them

select * where {?a <http://purl.org/dc/terms/isReplacedBy> ?p .} limit 100
Thank you

Questions?