Further development of Common Vocabularies WP8.1

SeaDataCloud – Technical Task Group meeting 1

Riga, Latvia

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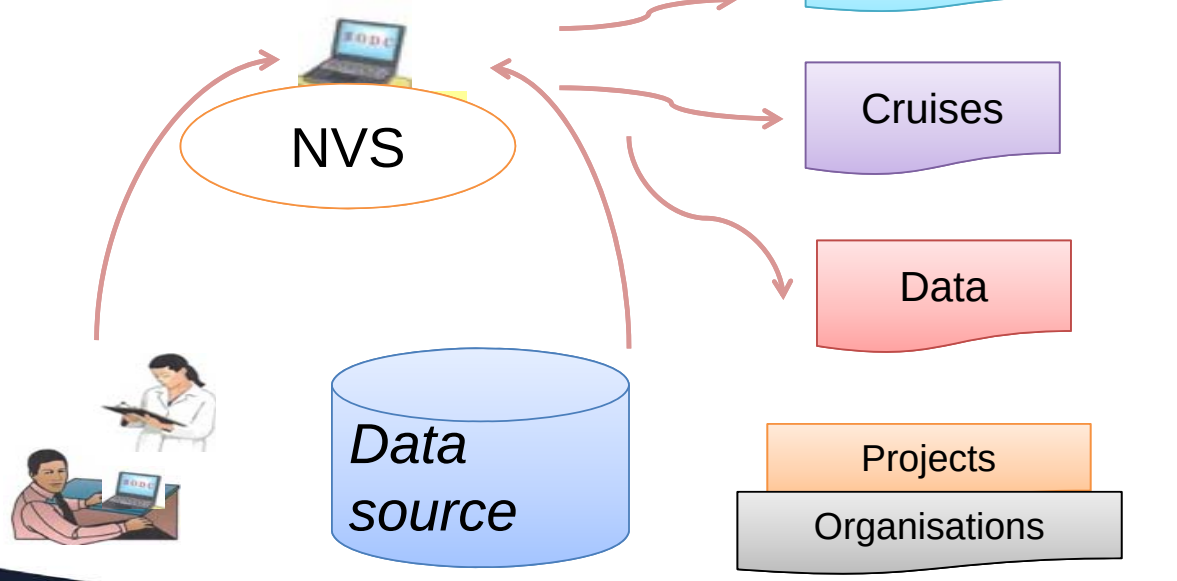
Controlled Vocabularies & EU SeaDataNet-2

Metadata creation Tool



Observing systems

Datasets

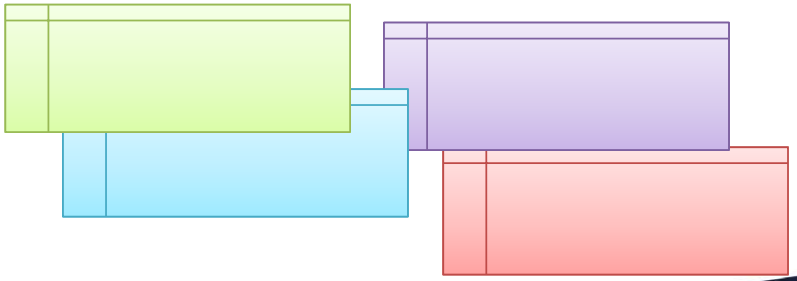
Cruises

Data

Projects

Organisations

Metadata Discovery

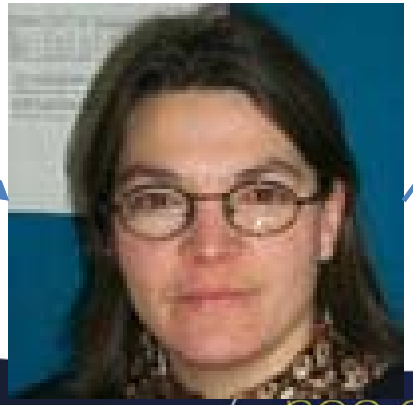


Map from http://www.seadatanet.org/Overview/Partners

NERC Vocabulary Server version 2 (NVS2.0)

Rob Thomas

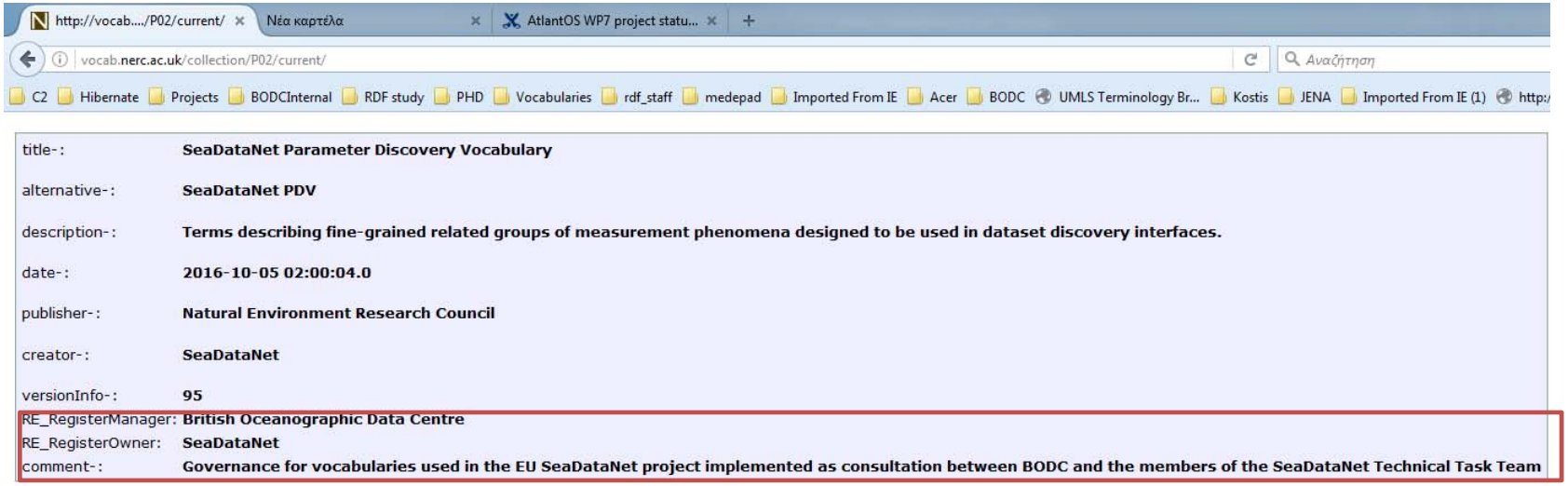
enquiries@bodc.ac.uk



Gwen Moncoiffe

Further development of Common Vocabularies
WP8.1

Task WP8.1.1: Improve the transparency of the vocabulary governance model (NERC-BODC and MI)



Broaden and extend the current SeaVox governance group.

A combined SeaDataNet and MarineXML Vocabulary Content Governance Group moderated by BODC

Task WP8.1.1: Improve the transparency of the vocabulary governance model (NERC-BODC and MI)

- Add contact details to the governance authority
- Follow models from ISO 19135 and ISO/IEC 11179-3
- Tie a mailing list conversation with a version number
- Adopt best practices as determined by RDA Vocabularies Services Interest Group
- **More formal register of vocabularies based on Asset Description Metadata Schema (ADMS)**
- Target M24

Task WP8.1.2: New vocabularies, including for OGC themes (NERC-BODC, MI, and CSIRO)

SWE Marine profiles group lead by 52North

OGC SWE Vocabularies governed by SWE Marine Profile group

- http://vocab.nerc.ac.uk/collection/W03/current/ --> SensorML Event Types
- http://vocab.nerc.ac.uk/collection/W04/current/ -- >sensorML capabilities
- http://vocab.nerc.ac.uk/collection/W05/current/--> SensorML Characteristics
- http://vocab.nerc.ac.uk/collection/W06/current/--> SensorML Classification
- http://vocab.nerc.ac.uk/collection/W07/current/--> SensorML Identification
- http://vocab.nerc.ac.uk/collection/W08/current/--> SensorML Contacts

- New vocabularies as requested
- OGC vocabularies as suggested by the SWE Marine Profiles group
- Improve the governance and transparency of the group based on experience from SeaVox
- Ongoing

Task WP8.1.3: Operationalise the vocabulary builder (NERC-BODC)

- Operationalise the pilot vocabulary builder (formerly known as the "one-armed bandit") that has been developed under EMODnet Chemistry. Further developments will extend the functionality to **non-chemical** parameters and seek to implement structured semantics to support some of the descriptive elements of the **SeaVoX Device Catalogue (L22)** enabling easier search and creation of new concepts.

Vocab Builder – compound vocabularies

- P01 concept labels are created from a concatenation of concept labels from other vocabularies following an underlying semantic model.

Activity of americium-241 per unit dry weight of sediment by alpha plus beta spectroscopy

- Search vocabularies based on constituent elements
- If the searched combination does not exist, submit a new combination for creation

- Expose underlying semantic models for P01 **non chemical** substances starting with biological codes Target M24
- Build the underlying semantic models for L22 Target M48
  - Information is already in L22
  - SSN ontology
- Adding the new constituent vocabularies as part of the Vocab Builder
- Target M48

Task WP8.1.4: Deprecation of vocabularies (NERC-BODC)
IFREMER, MARIS, BSH

- A deprecation mechanism is already in place.
- P03 and P02 SDN vocabularies need to be reviewed and several terms will be deprecated. The following tools need to plan how to handle deprecation.
- **IFREMER, MARIS, BSH need to handle deprecation**
- **Dependent on tools outside of our scope**

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

Task WP8.1.5: Versioning of concepts (NERC-BODC)

- At present the NVS2.0 allows for a user to access older versions of a vocabulary, but only at the vocabulary level.

- Concept history is already stored in DB
- Implement mechanism to allow users to access the version history of concepts
- Target: M24

Task WP8.1.6: Provenance of mappings (NERC-BODC)

- To ensure that there is confidence in mappings carried out, information relating to who has carried out the mappings and their reliability will be stored alongside the mappings.

- Retire NVS1 to be able to add richer set of predicates
- PROVO ontology
- MappingX prov:wasGeneratedBy Organisation X
- MappingX prov:generatedAtTime 2012-03-02T10:30:00

- Target M24

- In order to include a richer set of predicates, NVS1 is retiring at the end of the year. So please update your systems to point to NVS2.

http://vocab.ndg.nerc.ac.uk → http://vocab.nerc.ac.uk

For users that have embedded NVS1.0 URLs within their data files the NVS1.0 URLs will be redirected to the equivalent NVS2.0 URLs, so updating of local data holdings should not be necessary prior to the removal of NVS1.0.

Task WP8.1.7: Progressing the Platform Register (ICES, NERC-BODC, JCOMMOPS, ETT and IFREMER)

- The work started in SeaDataNet II, led by ICES together with NERC-BODC and JCOMMOPS for a unique platform register needs to be continued. This is important because connecting the near real-time observation data as included in the Copernicus CMEMS INSTAC service (In situ Thematic Assembly Centre) and the Regional Ocean Observation Systems (EuroGOOS ROOS's) on one side and the validated data as archived in SeaDataNet on the other side is complicated because of use of different platform codes. The platform register will provide literally a bridge between operational oceanography and long term archives. This is also very relevant for EMODnet Physics and the AtlantOS projects, which will contribute.
    - A mechanism is in place that populates C17_ICES from ICES webservice so that it is comparable with C17_NVS.
    - Definition of station and platform

Questions?