

What is the NVS?

A semantic repository for standardised hierarchical collections terminologies used for the management of data in the marine and related domains

It stores and serves vocabularies including terms and relationships between terms in a human and machine-readable format.





Mappings

Concepts





Filter Clear

The NERC Vocabulary Server (NVS)

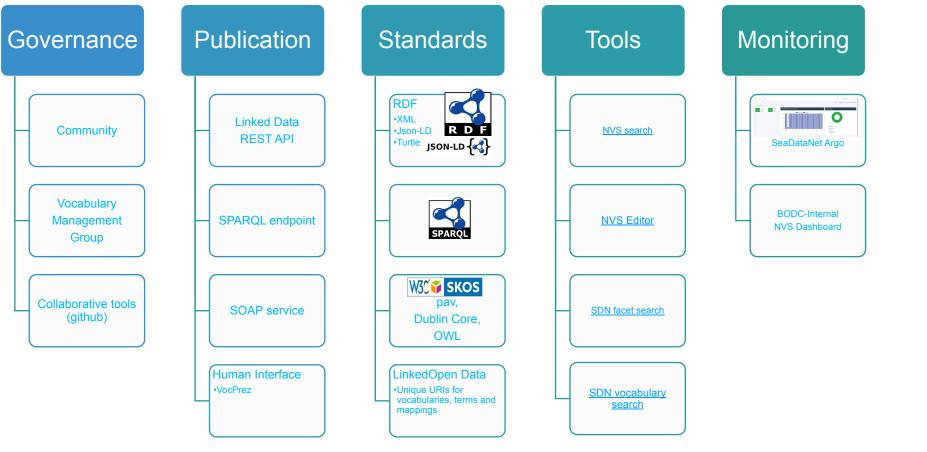
into vocabulary oct ver (ivvo)

NVS Vocabularies | Thesauri | Search NVS | SPARQL | Other Tools | About NVS | NVS Vocabularies | Thesauri | Search NVS | SPARQL | Other Tools | About NVS | NVS Vocabularies | Alternate Formats | Other for

Vocabularies

Sort by click on table headings, Filter using the search to the right.

ID †	Title †	Version †	Version Date †	Description †	Governance †	External Link †
C97	NERC Vocabulary Server Version 1 mappings index	1978	2022-01-29	A catalogue of the mappings between NVS V1 lists held in the NERC Vocabulary Server. Support for this vocabulary will be gradually withdrawn as NVS V1 is replaced by NVS V2.	British Oceanographic Data Centre	
P01	BODC Parameter Usage Vocabulary	1055	2022-01-25	Terms built using the BODC parameter semantic model designed to describe individual measured phenomena. May be used to mark up sets of data such as a NetCDF array or spreadsheet column.	British Oceanographic Data Centre	https://github.com/nv vocabs/P01
C17	ICES Platform Codes	992	2022-01-20	Identifiers and metadata for platform instances (combinations of names and physical entities such as hulls or airframes).	Council for the	
L22	SeaVoX Device Catalogue	543	2022-01-29	Terms for distinct sampling or measuring devices that may be identified in the real world in terms of manufacturer and model number.	SeaDataNet and MarineXML Vocabulary Content Governance Group	https://github.com/nv vocabs/L22
C75	BODC Organisation Histories	446	2022-01-29	Concepts used to populate 'organisation' fields in BODC metadata sofemas. When used in conjunction with the C75PK group of functions (NMOV), MINTHEN, NMALL) they provide access to past organisation names. For example, the C75 code 'ISB' translates to Proudman Oceanographic Laboratory for date in 1995, but to 'National Oceanography Centre, Liveppool' for a date in 2015.	British Oceanographic Data Centre	
					Province:	



How do you express the mappings (relationships, and if/which vocabularies, and how to decide this)







- skos:broader
- skos:narrower
- skos:related

OWL

owl:sameAs



iadopt

- iop:hasProperty
- iop:hasMatrix
- lop:hasObjectOfInterest
- iop:hasApplicableMatrix
- iop:has ApplicableObjectOfInterest
- iop:hasApplicableProperty

PUV: Parameter Usage Vocabulary

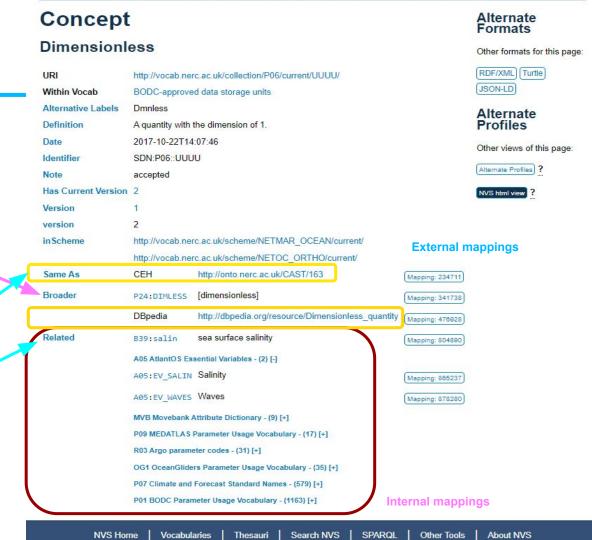
- <https://w3id.org/env/puv#chemicalObject>
- <https://w3id.org/env/puv#matrix>
- <https://w3id.org/env/puv#property>
- <https://w3id.org/env/puv#statistic>

QUDT

<https://qudt.org/2.1/schema/qudt#hasQuantityKind>

Types of Mappings

- Internal Mappings
- External Mappings
- Hierarchical (Semantic)
 - skos:broader
 - skos:narrower
 - inverse
- Associative
 - owl:sameAs
 - skos:related
- More expressive / smart
 - qudt, i-adopt , puv



Concept Concentration of oxygen {O2 CAS 7782-44-7} per unit volume of the formats for this page: the water body [dissolved plus reactive particulate phase] by in-



≩ situ Beckmann probe

to URI http://vocab.nerc.ac.uk/collection/P01/current/DOXYPR01/

Within Vocab BODC Parameter Usage Vocabulary

SDN:P01::DOXYPR01

Alternative Labels WC_dissO2_Beck

Definition This is the preferred term for this definition. Alternative term DOXYPR02 is included to

cover cases where there are two sensors of the same type contributing to the data set

and referential integrity considerations prevent a usage of a single code.

Date 2017-10-10T12:35:16

Note accepted

Has Current Version 4

Identifier

Version 1,2,3

version

Broader S06:S0600045 Concentration

P01:D0XYZZXX Concentration of oxygen {O2 CAS 7782-44-7} per unit foliume of

the water body [dissolved plus reactive particulate phase]

water body [dissolved plus reactive particulate phase]

C67:DOXY dissolved oxygen

P02:D0XY Dissolved oxygen parameters in the water column

S27:CS002779 oxygen

S26:MAT00633

P35:EPC00002 Water body dissolved oxygen concentration

504:504211 in-situ Beckmann probe

P06:UP0X Micromoles per litre

902:5053 per unit volume of the

L22 SeaVoX Device Catalogue - (5) [+]

iop Properties

Alternate Profiles

Other views of this page:

Alternate Profiles ?

NVS html view

hasMatrix S21:S21S027

hasObjectOfInterest 527:CS002779

hasProperty 506:50600045

water body

oxygen

Concentration

Mapping: 1758415

Mapping: 381217

Mapping: 826413

Mapping: 826411

Mapping: 523353

Mapping: 828407

Mapping: 381219

Mapping: 828405

Related Related

Alternate Formats

Other formats for this page:

```
RDF/XML Turtle JSON-LD
```

```
Mappings are part of the concept definition
```

```
Alternate Profiles
<http://vocab.nerc.ac.uk/collection/P01/current/CPHLPR01/>
                                             rdf:type
                                                                                                                                                                                 skos:Concept;
                                             dce:identifier
                                                                                                                                                                                  "SDN:P01::CPHLPR01" :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Other views of this page:
                                             dc:date
                                                                                                                                                                                  "2015-07-29 12:34:02.0" ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alternate Profiles | ?
                                             dc:identifier
                                                                                                                                                                                  "SDN:P01::CPHLPR01";
                                             pay:authoredOn
                                                                                                                                                                                  "2015-07-29 12:34:02.0" ;
                                             pay:hasCurrentVersion
                                                                                                                                                                                <http://vocab.nerc.ac.uk/collection/P01/current/CPHLPR01/4/>;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NVS html view
                                             pay:hasVersion
                                                                                                                                                                                  <a href="http://vocab.nerc.ac.uk/collection/P01/current/CPHLPR01/3/">http://vocab.nerc.ac.uk/collection/P01/current/CPHLPR01/3/</a>, <a href="http://wocab.nerc.ac.uk/">http://wocab.nerc.ac.uk/</a>, <
                                             pay: version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    I-ADOPT html view ?
                                              void:inDataset
                                                                                                                                                                                 <http://vocab.nerc.ac.uk/.well-known/void> ;
                                             owl:deprecated
                                             owl:sameAs
                                                                                                                                                                                  <http://vocab.nerc.ac.uk/collection/R03/current/CHLA/> ;
                                             owl:versionInfo
                                                                                                                                                                                  "4" :
                                                                                                                                                                                  "chl-a water ISfluor", "chl-a water ISfluor"@en ;
                                             skos:altLabel
                                             skos:broader
                                                                                                                                                                                  <a href="http://vocab.nerc.ac.uk/collection/S27/current/CS002896/">http://vocab.nerc.ac.uk/collection/P35/current/CPWC/>, <a href="http://vocab.nerc.ac.uk/collection/P35/current/CPWC/">http://vocab.nerc.ac.uk/collection/P35/current/CPWC/>, <a href="http://vocab.nerc.ac.uk/collection/P35/current/CPWC/">http://vocab.nerc.ac.uk/collection/P35/current/CPWC/>, <a href="http://vocab.nerc.ac.uk/collection/P35/current/CPWC/">http://vocab.nerc.ac.uk/collection/P35/current/CPWC/>, <a href="http://vocab.nerc.ac.uk/collection/P35/current/CPWC/">http://vocab.nerc.ac.uk/collection/P35/current/CPWC/>, <a href="http://vocab.nerc.ac.uk/collection/P35/current/CPWC/">http://vocab.nerc.ac.uk/collection/P35/current/CPWC/>, <a href="http://vocab.nerc.ac.uk/collection/P35/current/CPWC/">http://vocab.nerc.ac.uk/collection/P35/current/CPWC/>, <a href="http://vocab.nerc.ac.uk/">http://vocab.nerc.ac.uk/collection/P35/current/CPWC/>, <a href="http://vocab.nerc.ac.uk/">http://vocab.nerc.ac.uk/<a hr
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                                             skos:definition
                                                                                                                                                                                  "In-situ fluorometer with either manufacturer, laboratory or sample calibration applied."@en ;
                                             skos:inScheme
                                                                                                                                                                                  <a href="http://vocab.nerc.ac.uk/scheme/NETMAR OCEAN/current/">http://vocab.nerc.ac.uk/scheme/NETMAR OCEAN/current/</a>; <a href="http://vocab.nerc.ac.uk/scheme/NETMAR">http://vocab.nerc.ac.uk/scheme/NETMAR OCEAN/current/</a>;
                                              skos:notation
                                                                                                                                                                                  "SDN:P01::CPHLPR01" :
                                             skos:note
                                                                                                                                                                                  "accepted"@en :
                                                                                                                                                                                  "Concentration of chlorophyll-a (chl-a CAS 479-61-8) per unit volume of the water body [particulate Nunknown phase] by in-situ chlorophyll fluorometer @en :
                                              skos inceflahel
                                              skos:related
                                                                                                                                                                                  <a href="http://vocab.nerc.ac.uk/collection/L22/current/TOOL0119/">http://vocab.nerc.ac.uk/collection/L22/current/TOOL0145/</a>, <a href="http://vocab.nerc.ac.uk/collection/L22/current/TOOL0145/">http://vocab.nerc.ac.uk/collection/L22/current/TOOL0145/</a>, <a href="https://vocab.nerc.ac.uk/collection/L22/current/TooL0145/">https://vocab.nerc.ac.uk/collection/L22/current/TooL0145/</a>, <a href="https://vocab.nerc.ac.uk/collection/L22/current/TooL0145/">https://vocab.nerc.ac.uk/collection/L22/current/TooL0145/</a>, <a href="https://vocab.nerc.ac.uk/collection/L22/current/TooL0145/">https://vocab.nerc.ac.uk/collection/L22/current/TooL0145/</a>, <a href="https://vocab.nerc.ac.uk/collection/L22/current/TooL0145/">https://vocab.nerc.ac.uk/collection/L22/current/TooL0145/</a>, <a href="https://vocab.nerc.ac.uk/collection/L22/current/TooL0145/">https://vocab.nerc.ac.uk/collection/L22/current/TooL0145/</a>, <a href="https://vocab.nerc.ac.uk/collection/L22/current/TooL0145/">https://vocab.nerc.ac.uk/collection/L22/current/TooL0145/</a>, <a href="https://vocab.nerc.ac.uk/collection/L22/current/TooL0145/">https://vocab.nerc.ac.uk/collec
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 <a href="http://vocab.nerc.ac.uk/collection/L22/current/T00L0075/">http://vocab.nerc.ac.uk/collection/L22/current/T00L0075/</a>, <a href="http://vocab.nerc.ac.uk/current/T00L0075/">http://vocab.nerc.ac.uk/current/T00L0075/</a>, <a href="htt
```

subject	relationship	object	When	Who	URL	Status
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Mappings between L22 (SeaVoX Device Catalogue) and L05 (SeaDataNet device categories)

L22 Identifier ↑	L22 Preferred label ↑	Relationship 1	L05 Identifier ↑	L05 Preferred label ↑	Date created ↑	Creator ↑	Mapping URL ↑	Status
DN:L22::TOOL0576	Rockland Scientific Vertical Microstructure Profiler VMP 500	broader	SDN:L05::384	ADVs and turbulence probes	2012-12-18 03:12:41	Jenny Andrew	476904	valid
SDN:L22::TOOL0639	Rockland Scientific Vertical Microstructure Profiler (VMP) 5500	broader	SDN:L05::384	ADVs and turbulence probes	2013-09-25 10:09:04	Jenny Andrew	484850	valid
SDN:L22::TOOL0642	Rockland Scientific SPM-38 velocity shear probe	broader	SDN:L05::384	ADVs and turbulence probes	2013-09-25 10:09:04	Jenny Andrew	484846	valid
SDN:L22::TOOL0643	Rockland Scientific Geo- electro magnetic current meter (GEMCM)	broader	SDN:L05::384	ADVs and turbulence probes	2013-09-25 10:09:04	Jenny Andrew	484845	valid
SDN:L22::TOOL0438	Meerestechnik Elektronik or MICSOS microstructure profiler	broader	SDN:L05::384	ADVs and turbulence probes	2012-05-22 08:05:21	Margaret Wallace	192572	valid
SDN:L22::TOOL0439	Sea and Sun Technology and ISW Wassermesstechnik microstructure profiler	broader	SDN:L05::384	ADVs and turbulence probes	2012-05-22 08:05:21	Margaret Wallace	192573	valid
SDN:L22::TOOL0453	Sea and Sun Technology Microstructure Profiler MSS 90	broader	SDN:L05::384	ADVs and turbulence probes	2012-05-22 08:05:21	Margaret Wallace	346128	valid
SDN:L22::TOOL1646	AML Oceanographic AML-1 RT sonde	broader	SDN:L05::384	ADVs and turbulence probes	2021-03-01 02:03:06	Roseanna Wright	1622798	valid
SDN:L22::TOOL1718	RBR Maestro3 Multiparameter logger system	broader	SDN:L05::384	ADVs and turbulence probes	2021-07-27 11:07:42	Roseanna Wright	1699299	valid
SDN:L22::TOOL0092	SonTek ADVOcean/Hydra acoustic doppler velocimeter	broader	SDN:L05::384	ADVs and turbulence probes	2012-05-22 08:05:21	Roy Lowry	180976	valid
SDN:L22::TOOL0406	Droplet Measurement Technologies Passive Cavity Aerosol Spectrometer Probe (PCASP) 100	broader	SDN:L05::386	Aerosol physical characterisers	2012-05-22 08:05:21	Margaret Wallace	190030	valid
SDN:L22::TOOL0419	TSI 3800 Aerosol Time-of- Flight Mass Spectrometer	broader	SDN:L05::386	Aerosol physical characterisers	2012-05-22 08:05:21	Margaret Wallace	191421	valid

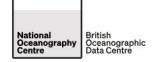


Unique mapping URI

- https://vocab.nerc.ac.uk/mapping/I/1608282/
- https://vocab.nerc.ac.uk/mapping/E/234711/







NVS Home | Vocabularies | Thesauri | Search NVS | S

Mapping

An RDF mapping statement

```
URI
           http://vocab.nerc.ac.uk/mapping/I/1608282/
Subject
           http://vocab.nerc.ac.uk/collection/P01/current/CPHLPR01/
Predicate sameAs
           http://vocab.nerc.ac.uk/collection/R03/current/CHLA/
Object
Modified
           2020-07-10 05:07:41
Status
           Valid
Submitter Mr Thierry Carval
```

```
The NERC Vocabulary @prefix dc1: <a href="http://purl.org/dc/elements/1.1/">http://purl.org/dc/elements/1.1/> .</a>
                                                                                                                                SSSOM vocabulary
                                        @prefix org: <http://www.w3.org/ns/org#> .
                                        @prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
                                        @prefix reg: <http://purl.org/linked-data/registry#> .
                                        @prefix sssom: <https://w3id.org/sssom/schema/> .
                                        <http://vocab.nerc.ac.uk/mapping/I/1608282/> a rdf:Statement,
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                                                                                                                        ORCID
                                             dc1:modified "2020-07-10 05:07:41";
                                             reg:status reg:statusValid ;
                                             reg:submitter [ a "http://www.w3.org/ns/prov#Agent",
                                                             "http://xmlns.com/foaf/0.1/Person";
                                                       reg:name "Thierry Carval";
                                                       reg:title "Mr" ;
                                                        org:memberOf "http://vocab.nerc.ac.uk/collection/C75/current/]" ];
                                             sssom:mapping justification <a href="http://wsid.org/semapv/vocab/manualmappingCuration/">http://wsid.org/semapv/vocab/manualmappingCuration/>;</a>;
                                             sssom:object id <a href="http://vocab.nerc.ac.uk/collection/R03/current/CHLA/">http://vocab.nerc.ac.uk/collection/R03/current/CHLA/</a>;
                                             sssom:predicate id <a href="http://www.w3.org/2002/07/owl#sameAs/">http://www.w3.org/2002/07/owl#sameAs/</a>;
                                             sssom:subject id <a href="http://vocab.nerc.ac.uk/collection/P01/current/CPHLPR01/">http://vocab.nerc.ac.uk/collection/P01/current/CPHLPR01/></a>.
```

Search NVS SPARQL Other Tools About NVS NVS Home Vocabularies Thesauri

How do you decide something needs to be mapped



- Facilitate discovery of concepts and data
- Semantic modelling of complex concepts
- Interoperability (i-adopt, external vocabularies)
- Manage hierarchies and associations
- Use case requirements

What considerations do you make?



- Some of our mappings are mandatory in order to not leave orphans in hierarchies
 - a P01 (high granularity) must be mapped to a P02 (low granularity) and only one P02
- Some are part of our workflows for content creation to support interoperability
 - e.g. mappings to external registers of biological and chemical entities like e.g. ChEBI, WoRMS
- Some are more opportunistic (ad-hoc mappings when an easy equivalence with partner resources is found)
 - e.g. mapping of our biological sub-components or chemical entities to ICES
- Systematic vs opportunistic mainly driven by use cases and funding (or lack of) for alignment work

Curation, maintenance, governance

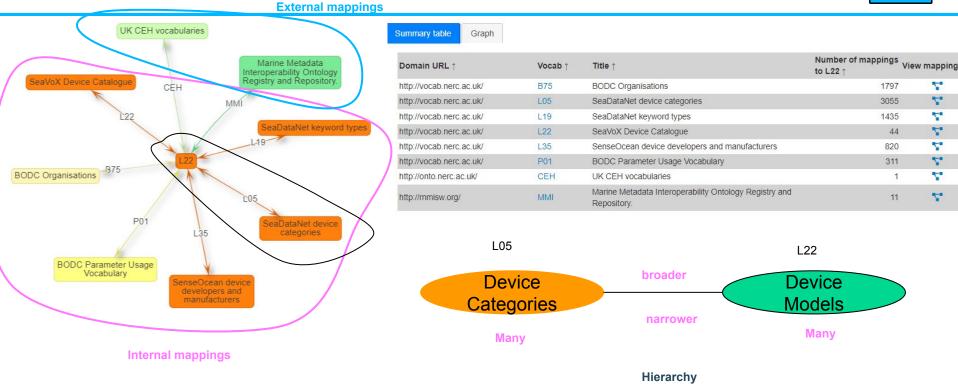


- Mappings are stored and audited in a relational DB and are maintained using
 - constraints, triggers, procedures
- Mappings can be withdrawn or deprecated if invalid or redundant
- Why a mapping becomes invalid?
 - A concept from a term from an external vocabulary that no longer exists
 - Erroneous
- Users can create/edit/deprecate mappings to their own vocabularies via the Vocab Editor
- Users can suggest/request mappings via github repo:

https://github.com/nvs-vocabs

Example: L22-SeaVoX Device Catalogue





plummets

piezometers

penetrometers

250 Hz top-bandwidth single-channel seismic reflection systems

1000 Hz top-bandwidth single-channel seismic reflection systems

1000 Hz top-bandwidth multi-channel seismic reflection systems

2000 Hz top-bandwidth multi-channel seismic reflection systems

>2000 Hz top-bandwidth multi-channel seismic reflection systems

- + >2000 Hz top-bandwidth sub-bottom penetrator and mud profiler systems
- + seismometers
- + hydrophones

geothermometers

60 Hz top-bandwidth single-channel seismic reflection systems

- + 2000 Hz top-bandwidth single-channel seismic reflection systems
- + >2000 Hz top-bandwidth single-channel seismic reflection systems

60 Hz top-bandwidth multi-channel seismic reflection systems

250 Hz top-bandwidth multi-channel seismic reflection systems

sediment surface markers

water level markers

sediment profile imagers

- + altimeters
- + submarine cables
- + precipitation gauges
- + atmospheric gas analysers
- + metal analysers

- ADVs and turbulence probes

Device Category

SonTek ADVOcean/Hydra acoustic doppler velocimeter Meerestechnik Elektronik or MICSOS microstructure profiler

Sea and Sun Technology and ISW Wassermesstechnik microstructure profiler

Sea and Sun Technology Microstructure Profiler MSS 90

Rockland Scientific Vertical Microstructure Profiler VMP 500

Rockland Scientific Vertical Microstructure Profiler (VMP) 5500

Rockland Scientific SPM-38 velocity shear probe

Rockland Scientific Geo-electro magnetic current meter (GEMCM)

Rockland Scientific Vertical Microstructure Profiler (VMP) 6000

AML Oceanographic AML-1 RT sonde

RBR Maestro3 Multiparameter logger system



Hierarchy and many:many

narrower

broader

Device Models

P02: SeaDataNet Parameter Discovery Vocabulary

P01: BODC Parameter Usage Vocabulary

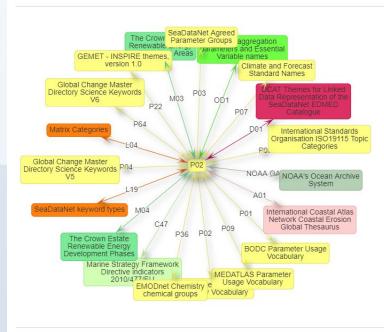


Low granularity

p02	Conceptid	Pref label
•	ASAM	Acoustic backscatter in the water column

p01	Conceptid	Pref label
	ACBSA075	Acoustic backscatter (absolute) in the water body by 75kHz broadband acoustic doppler current profile (ADCP)
	ACBSA150	Acoustic backscatter (absolute) in the water body by 150kHz broadband acoustic doppler current profiler (ADCP) and calibration using protocols of Deines (1999)
	ACBSA300	Acoustic backscatter (absolute) in the water body by 300kHz broadband acoustic doppler current profiler (ADCP) and calibration using protocols of Deines (1999)
	ACBSA600	Acoustic backscatter (absolute) in the water body by 600kHz broadband acoustic doppler current profiler (ADCP) and calibration using protocols of Deines (1999)
	ACBSADCP	Acoustic backscatter (absolute) in the water body by acoustic doppler current profiler (ADCP) and calibration using protocols of Deines (1999)
	ASAMACMX	Signal return amplitude from the water body by in-situ acoustic current meter
	ASAMAP00	Signal return amplitude from the water body by moored acoustic doppler current profiler (ADCP) bean 1
	ASAMAP01	Signal return amplitude from the water body by moored acoustic doppler current profiler (ADCP)
	ASAMAP02	Signal return amplitude from the water body by moored acoustic doppler current profiler (ADCP) bean 2
	ASAMAP03	Signal return amplitude from the water body by moored acoustic doppler current profiler (ADCP) bear 3
	ΔΟΔΜΑΡΩΛ	Signal raturn amplitude from the water hady by moored acoustic donnlar current profiler (ADCP) hear

High granularity



Concept

Alternate Formats

Other formats for this page: Concentration of oxygen (O2 CAS 7782-44-7) per unit volume of the water body [dissolved plus reactive particulate phase] by in- RDFXML

Turtle JSON-LD

Mapping: 826409

Mapping: 1532052

Mapping: 1758415

Mapping: 361217

Mapping: 826413

Mapping: 826411

Mapping: 523353

Mapping: 826407

Mapping: 361219

Mapping: 826405



National

Oceanography Centre

situ Beckmann probe

Alternate Profiles

URI http://vocab.nerc.ac.uk/collection/P01/current/DOXYPR01/ Within Vocab BODC Parameter Usage Vocabulary

WC dissO2 Beck Alternative Labels

Definition This is the preferred term for this definition. Alternative term DOXYPR02 is included to

cover cases where there are two sensors of the same type contributing to the data set

and referential integrity considerations prevent a usage of a single code.

Date 2017-10-10T12:35:16

SDN:P01::DOXYPR01 Identifier

Note accepted

Has Current Version 4

1.2.3 Version

version

Broader

506:50600045 Concentration

P01:DOXYZZXX Concentration of oxygen {O2 CAS 7782-44-7} per unit volume of the water body [dissolved plus reactive particulate phase]

C67:DOXY dissolved oxygen

P02:DOXY Dissolved oxygen parameters in the water column

S27:CS002779 oxygen S26:MAT00633 water body [dissolved plus reactive particulate phase]

P35: EPC00002 Water body dissolved oxygen concentration

per unit volume of the

Related 504:504211 in-situ Beckmann probe

502:5053

P06:UPOX Micromoles per litre

L22 SeaVoX Device Catalogue - (5) [+]

Other views of this page: Alternate Profiles ?

NVS html view -ADOPT html view

More qualified relationships

Standardisation

National Oceanography Centre British Oceanographic Data Centre

Use Cases

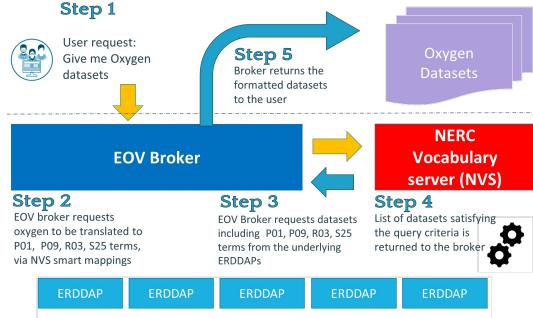


The EOV demonstrator - parameter harmonisation

i-adopt

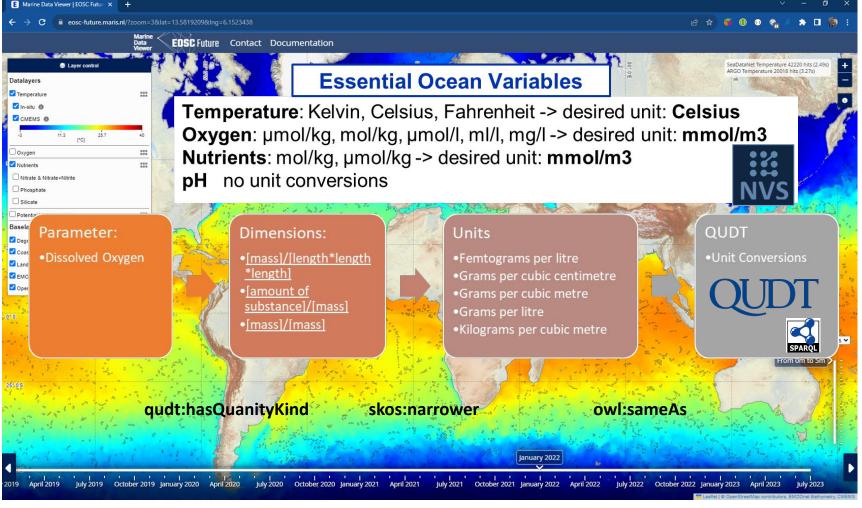
Smart mappings

Find all the datasets that observe what is defined to be EOV oxygen









P24 Identifier ↑	P24 Preferred label ↑	Relationship ↑ P06 Identifier ↑ P06 Preferred label ↑ Date created ↑ Creator ↑ Mapping URL ↑ Status ↑	后 :rc.ac.uk/mapping/E/391021/? profile=nvs& mediatype=te			
SDN:P24::MOLPVOL	[amount of substance]/[length*length*length	50 * {	rc.ac.uk/mapping/c/591021/?_profile=nvsoc_mediatype=te			
SDN:P24::MOLPVOL	[amount of	58 http://vocab.nerc.ac.uk/collection/P24/current/MSPVOL/ skos:narrower ?P06.	nts/1.1/> . #> .			
	substance]/[length*leng	59 ?P06 skos:prefLabel ?prefLabel . 60 ?P06 owl:sameAs ?unit .	2/22-rdf-syntax-ns#> .			
SDN:P24::MOLPVOL	substance]/[length*length*le	61 PP06 skos:notation PP06notation .	ata/registry#> . /schema/> .			
SDN:P24::MOLPVOL	[amount of substance]/[length*length*le	62 * SERVICE { 63 BIND ("To convert" AS ?toConvert) .	021/> a rdf:Statement,			
SDN:P24::MOLPVOL	[amount of substance]/[length*length*length	64 BIND ("into" AS ?into) . 65 BIND ("multiply by" AS ?multiplyBy) .	3			
SDN:P24::MOLPVOL	[amount of substance]/[length*length*length	66 ?unit rdfs:label ?label . 67 ?unit qudt:conversionMultiplier ?cm1 .	rg/ns/prov#Agent", /0.1/Person";			
SDN:P24::MOLPVOL	[amount of substance]/[length*	68 ?unit qudt:hasQuantityKind/qudt:hasDimensionVector ?qkdv .	ffe";			
SDN:P24::MOLPVOL	[amount of substance]/[length*length*le	69 PotherUnit qudt:hasQuantityKind/qudt:hasDimensionVector	<pre>.nerc.ac.uk/collection/C75/current/B0D/"]; //w3id.org/semapv/vocab/ManualMappingCuration/>; ocab/unit/MOL-PER-M3/>;</pre>			
SDN:P24::MOLPVOL	[amount of substance]/[length*length*length	72 # FILTER ((?otherUnit)!=?unit). 73	org/2002/07/owl#sameAs/>; c.ac.uk/collection/P06/current/MLM3/>.			
SDN:P24::MOLPVOL	[amount of substance]/[length*length*length	74 #?otherUnit rdfs:label ?otherUnitLabel .	123-09-05 Gwenaelle 1:09:41 Moncoiffe 396285 valid			
SDN:P24::MOLPVOL	[amount of substance]/[length*length*length	Ellipse ▼ Response 50 results in 22.394 seconds Simple view □ Ellipse ▼ Filter query results □ Page size: 50 ▼ ♣ € toConvert ♦ label ♦ P06notation ♦ into ♦ otherUnitLabel ♦ multiplyBy ♦ multiplier)23-09-05 Gwenaelle 396313 yalid			
		1 To convert "Mole per Cubic Metr SDN:P06::MLM3 into "Millimoles per cub multiply by "1000.0" http://www.w3.org/2	1:09:41 Moncoiffe 123-09-05 Gwenaelle			
		2 To convert "Micromoles per litre" SDN:P06::UPOX into "Millimoles per cub multiply by "1.0"^^-http://www.w3.org/2001/"	1:09:41 Moncoiffe 391028 valid			
		3 To convert "millimoles per little " SDN:P06::MMPL into "Millimoles per cub multiply by "1000.0v"^h <http: 2<="" td="" www.w3.org=""><td>)23-09-05 Gwenaelle I:09:41 Moncoiffe 391035 valid</td></http:>)23-09-05 Gwenaelle I:09:41 Moncoiffe 391035 valid			
		4 To convert "Mole Per Litter"en SDN:P06::MPLT into "Millimoles per cub multiply by "1000000.0" ^{Av<} http://www.w3.or)23-09-05 Gwenaelle 1:09:41 Moncoiffe 396320 valid			
		5 To convert "Picomoles per litre" ^{@en} SDN:P06::UPML into "Millimoles per cub multiply by "0.000001" ^{A-c} http://www.w3.org)23-09-05 Gwenaelle 391042 valid			
		6 To convert "Picomoles per cubic SDN:P06::UPMA into "Millimoles per cub multiply by "0.000000001"^^ http://www.w3	1:09:41 Moncoiffe 331042 Valid 123-09-05 Gwenaelle			
		7 To convert "Femtomoles per litre SDN:P06::UPFM into "Millimoles per cub multiply by "0.000000001"^^ http://www.w3	1:09:41 Moncoiffe 396278 valid			
		8 To convert "Millimoles per cubic SDN:P06::MMCM into "Millimoles per cub multiply by "1.0" **)23-09-05 Gwenaelle 1:09:41 Moncoiffe 397636 valid			
		9 To convert "Mol per Kilogram"@en SDN:P06::MLKG into Millimoles per cubi multiply by "1025000.0" "^< http://www.w3.or)23-09-05 Gwenaelle 396180 valid			
		10 To convert "Micromoles per kilog SDN:P06::KGUM into Millimoles per cubi multiply by "1.025" "	1:09:41 Moncoffe			
		11 To convert "Nanomoles per kilog SDN:P06::KGNM into Millimoles per cubi multiply by "0.001025" ** http://www.w3.org	1:09:41 Moncoiffe 396173 valid			
		12 To convert "Picomoles per kilogr SDN:P06::KGPM into Millimoles per cubi multiply by "0.000001025"^^ <http: td="" www.w3<=""><td>)23-09-05 Gwenaelle 396201 valid</td></http:>)23-09-05 Gwenaelle 396201 valid			
		13 To convert "Femtomoles per kilo SDN:P06::FMKG into Millimoles per cubi multiply by "0.00000001025" "0.00000001025"	1:09:41 Moncoiffe			
		14 To convert "Millimole Per Kilogra SDN:P06::MMKG into Millimoles per cubi multiply by "1025.0" "^^\nlime\text{http://www.w3.org/2}				
		15 To convert "Kilogramm je Kubik SDN:P06::UKMC into Millimoles per cubi multiply by "31251.1719189469605110191	BY SA			