

Controlled vocabularies for event logging on observational platforms

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R2R

ROLLING DECK TO REPOSITORY

In the early 2000s, two separate initiatives, one in the US (R2R) and one in Europe (Eurofleets), started developing vocabularies in support of their digital event logging systems on board research vessels.



EARS v2 Ontology

IRI: <http://ontologies.ef-ears.eu/ears2/1#>
 Version IRI: <http://ontologies.ef-ears.eu/ears2/1/BASE/20220727#>
 Current version: 21
 Other visualisation: [Ontology source \(RDF\)](#)



The R2R controlled vocabularies and the EuroFleet EARS ontology then became a source of interest to other organisations such as the British Antarctic Survey who were seeking to develop a more automated logging system for their new research ship.

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JR19001 | Western Core Box

Time	Event	Lat	Lon	Comment	User
18:30:00 20/12/2019		-51.94134	-58.41106	Uncontaminated seawater off. Vessel approaching Choiseul Sound.	bridge
07:15:00 20/12/2019		-52.70600	-55.22276	Vessel off DP. Completed JR19001 science stations and heading for Mare Harbour	bridge
07:10:00 20/12/2019	107	-52.70536	-55.22121	Bongo on deck	bridge
06:47:00 20/12/2019	107	-52.70536	-55.22122	Bongo stopped at 100m	bridge
06:42:00 20/12/2019	107	-52.70535	-55.22119	Bongo deployed	bridge
06:36:00 20/12/2019		-52.70534	-55.22120	Gantry unlashed	bridge
06:18:00 20/12/2019		-52.70595	-55.22047	Vessel on DP	bridge
06:15:00 20/12/2019	106	-52.70558	-55.21793	RMT recovered, stern bulwark closed	bridge
06:06:00 20/12/2019		-52.70490	-55.21212	Stern bulwark open	bridge
				MT stopped at 701m, hauling	bridge
				MT stopped at 685m	bridge
				MT deployed, stern bulwark closed	bridge
				stern bulwark open	bridge



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The NERC Vocabulary Server (NVS)

Service Status

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NVS Vocabularies

URI: <http://vocab.nerc.ac.uk/collection/>

Description
 SKOS concept collections held in the NERC Vocabulary Server. A concept collection is useful where a group of concepts shares something in common, and it is convenient to group them under a common label. In the NVS, concept collections are synonymous with controlled vocabularies or code lists. Each collection is associated with its governance body. An external website link is displayed when applicable.

Alternate Formats

Other formats for this page:

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Alternate Profiles

Other views of this page:

Vocabularies

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

ID ↑	Title ↑	Version ↑	Version Date ↑	Description ↑	Governance ↑	External Link ↑
EL1	SeaVoX Sampling and Observation Platform Event Actions	2	2022-12-17	Terms used to identify actions performed on sampling and observation platforms. This vocabulary is the result of an harmonisation exercise between the Eurofleets Automatic Reporting System (EARS) ontology and the Rolling Deck to Repository (R2R) project, for research vessel event logs. The terms it contains should be applicable to any sampling or observation platforms.	SeaDataNet and MarineXML Vocabulary Content Governance Group	https://github.com/nvs-vocabs/EL1
EL2	SeaVoX Sampling and Observation Platform Event Processes	1	2022-12-15	Terms used to identify processes performed on sampling and observation platforms. This vocabulary is the result of an harmonisation exercise between the Eurofleets Automatic Reporting System (EARS) ontology and the Rolling Deck to Repository (R2R) project, for research vessel event logs. The terms it contains should be applicable to any sampling or observation platforms.	SeaDataNet and MarineXML Vocabulary Content Governance Group	https://github.com/nvs-vocabs/EL2

In 2021 and 2022, a set of informal meetings were organised to review the alignment between the existing resources and agree on a common way forward.

Two SKOS vocabularies were created on the NERC Vocabulary Server: one for actions ([EL1](#)) and one for processes ([EL2](#)).

FAIR vocabularies for Actions and Processes are needed across the broad range of ocean observing platforms, to facilitate interoperability, automation, and the recording of consistent information about instrument's operations.

qq001-v46-SE

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Summary | Threaded

-- Author -- -- Instrument -- -- Action -- 8 Entries

Event	dateTimeUTC	GPS_Time ▲	Instrument	Process	Action	Transect	Station	Cast	Latitude	Longitude	Seafloor	Author	Comment
20230227.1443.001	20230227.1444	2023/02/27 14:44:13	Ship	Cruise	start	NaN	NaN	NaN	41.524506	-70.671031	40	rHudak1	Start of cruise qq001
20230227.1448.001	20230227.1448	2023/02/27 14:48:55	CTD911	Deployment	InWater	001	A01	01	41.524504	-70.671041	250	rHudak1	First deployment
20230227.1459.001	20230227.1450	2023/02/27 14:50:00	CTD911	Sample Collection	Close	001	A01	01	41.524502	-70.671025	250	rHudak1	Bottles 02 03 05 fired
20230227.1449.001	20230227.1451	2023/02/27 14:51:10	CTD911	Profile	AtDepth	001	A01	01	41.524513	-70.671028	251	rHudak1	reached bottom
20230227.1451.001	20230227.1452	2023/02/27 14:52:45	CTD911	Recovery	OnBoard	001	A01	01	41.524501	-70.671048	250	rHudak1	CTD on board and tied down
20230227.1455.001	20230227.1455	2023/02/27 14:55:45	Kongsberg EM 712	Recording	start	Kongsberg_01	Site_01	NaN	41.524491	-70.671019	620	rHudak1	Mapping bottom features
20230227.1514.001	20230227.1510	2023/02/27 15:10:00	Kongsberg EM 712	Recording	End	Kongsberg_01	Site_01	NaN	41.524508	-70.671054	510	rHudak1	Entered EEZ
20230227.1512.001	20230227.1512	2023/02/27 15:12:50	Ship	Cruise	End	NaN	NaN	NaN	41.524502	-70.671027	42	rHudak1	At dock

ELOG V2.9.0-2411



Help us grow these vocabularies by contributing to this community effort, and by using them in your event logging systems. Suggestions for new terms can be made by raising issue tickets via this dedicated GitHub repository <https://github.com/nvs-vocabs/eLoggerVocabs>

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Or contact Gwen Moncoiffé via vocab.services@bodc.ac.uk