



SeaDataCloud

Linked Data Implementations for SDN directories and vocabularies

Alexandra Kokkinaki

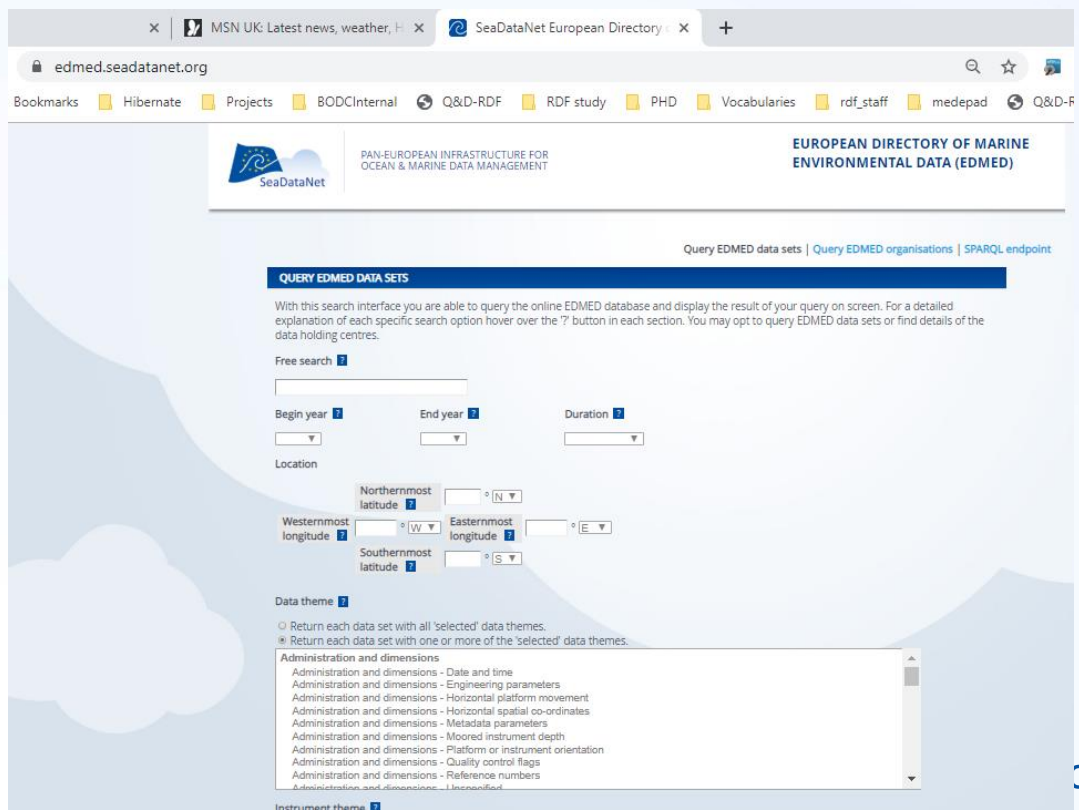
The British Oceanographic Data Centre (BODC), NOC, UK

sdn-userdesk@seadatanet.org – www.seadatanet.org

<https://catalogue.seadatanet.org/>

Meeting, Brest, France, 17-18 October 2019

<https://catalogue.seadatanet.org/search>



edmed.seadatanet.org

Bookmarks Hibernate Projects BODCInternal Q&D-RDF RDF study PHD Vocabularies rdf_staff medepad Q&D-R

SeaDataNet PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

EUROPEAN DIRECTORY OF MARINE ENVIRONMENTAL DATA (EDMED)

Query EDMED data sets | Query EDMED organisations | SPARQL endpoint

QUERY EDMED DATA SETS

With this search interface you are able to query the online EDMED database and display the result of your query on screen. For a detailed explanation of each specific search option hover over the '?' button in each section. You may opt to query EDMED data sets or find details of the data holding centres.

Free search ?

Begin year ? End year ? Duration ?

Location

Northernmost latitude ? N

Westernmost longitude ? W Easternmost longitude ? E

Southernmost latitude ? S

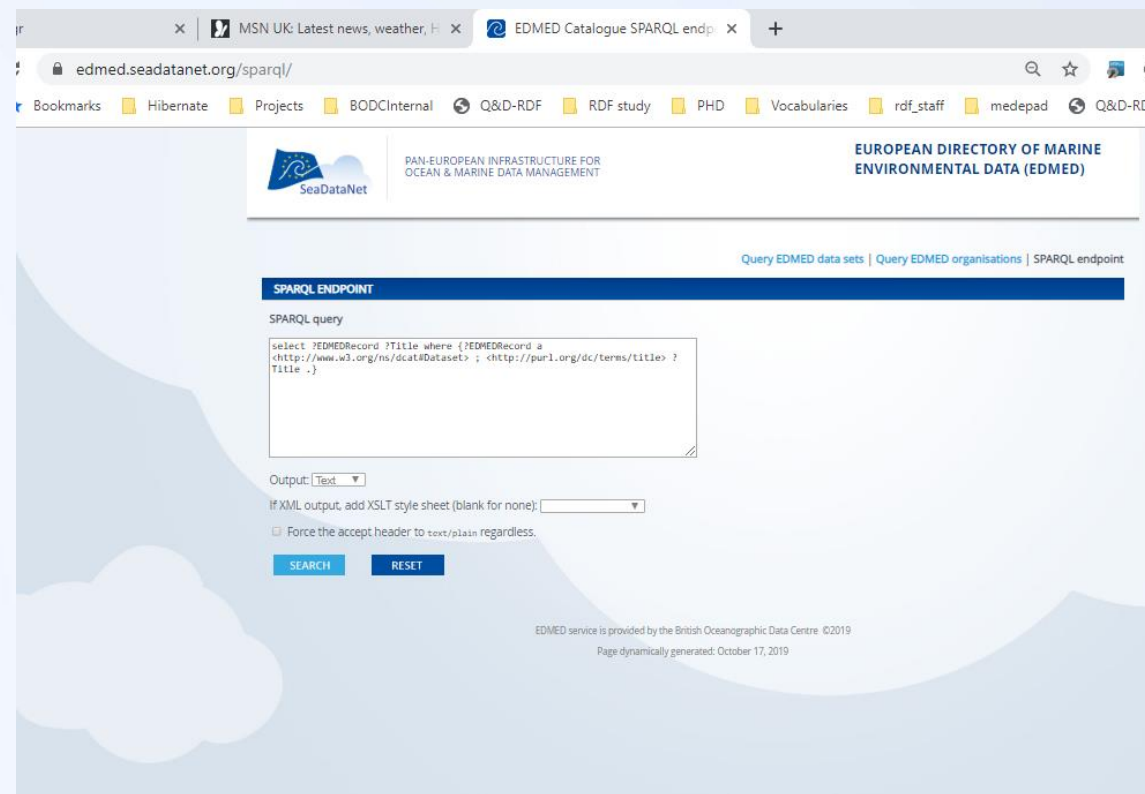
Data theme ?

☐ Return each data set with all 'selected' data themes.
☒ Return each data set with one or more of the 'selected' data themes.

Administration and dimensions

- Administration and dimensions - Date and time
- Administration and dimensions - Engineering parameters
- Administration and dimensions - Horizontal platform movement
- Administration and dimensions - Horizontal spatial co-ordinates
- Administration and dimensions - Metadata parameters
- Administration and dimensions - Moored instrument depth
- Administration and dimensions - Platform or instrument orientation
- Administration and dimensions - Quality control flags
- Administration and dimensions - Reference numbers
- Administration and dimensions - Instrument theme

<https://catalogue.seadatanet.org/sparql>



edmed.seadatanet.org/sparql/

Bookmarks Hibernate Projects BODCInternal Q&D-RDF RDF study PHD Vocabularies rdf_staff medepad Q&D-R

SeaDataNet PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

EUROPEAN DIRECTORY OF MARINE ENVIRONMENTAL DATA (EDMED)

Query EDMED data sets | Query EDMED organisations | SPARQL endpoint

SPARQL ENDPOINT

SPARQL query

```
select ?EDMEDRecord ?Title where { ?EDMEDRecord a <http://www.w3.org/ns/dcat#Dataset> ; <http://purl.org/dc/terms/title> ?Title . }
```

Output: Text

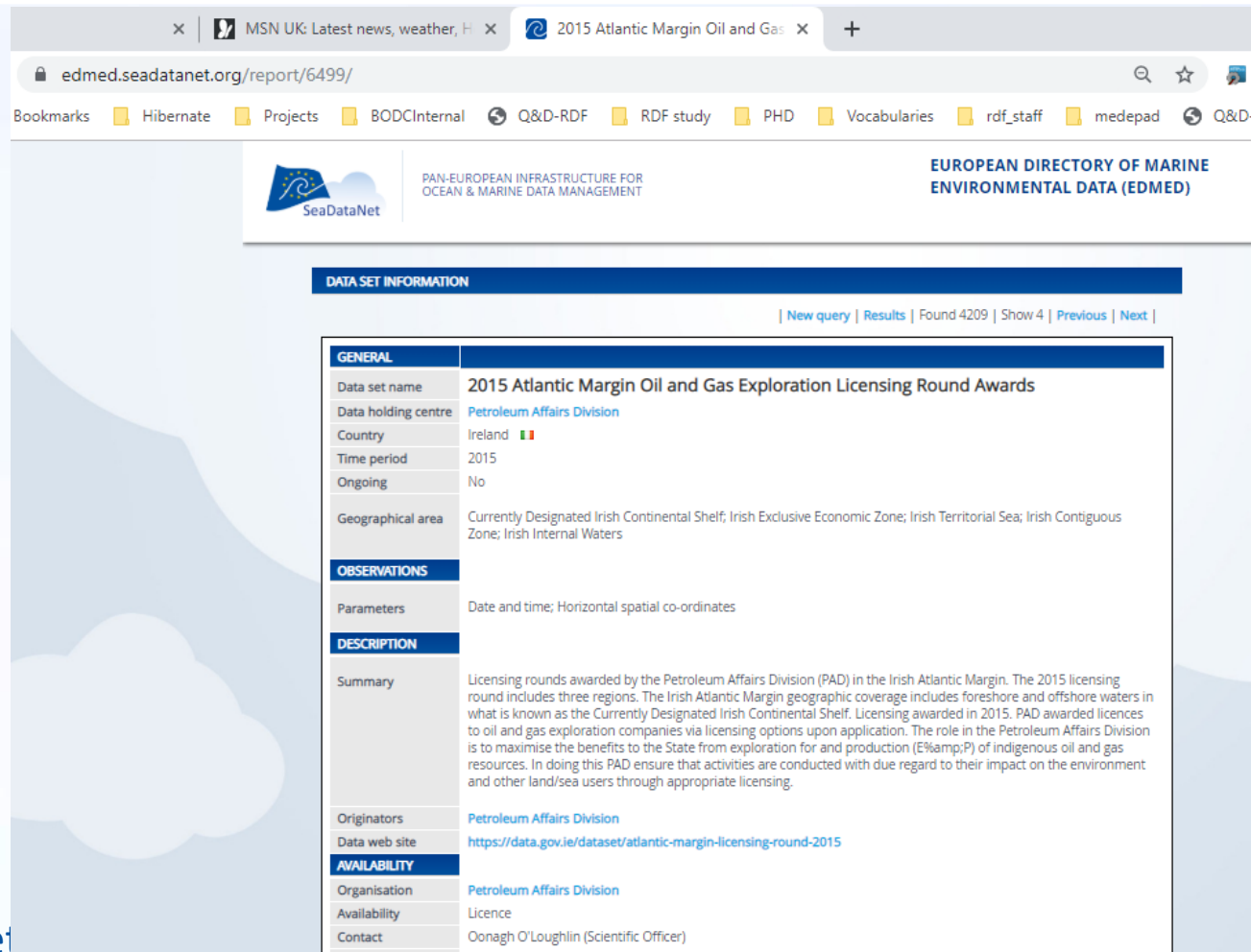
If XML output, add XSLT style sheet (blank for none):

☐ Force the accept header to text/plain regardless.

SEARCH RESET

EDMED service is provided by the British Oceanographic Data Centre ©2019
Page dynamically generated: October 17, 2019

<https://catalogue.seadatanet.org/record/{ID}>



The screenshot shows a web browser window with the URL edmed.seadatanet.org/report/6499/. The page header includes the SeaDataNet logo and the text "PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT" and "EUROPEAN DIRECTORY OF MARINE ENVIRONMENTAL DATA (EDMED)".

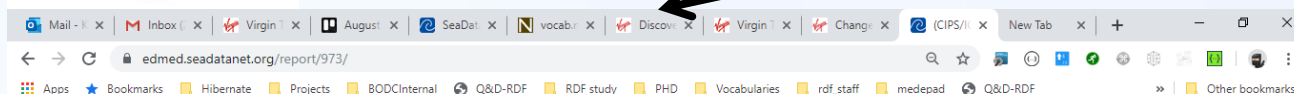
The main content area is titled "DATA SET INFORMATION" and includes a navigation bar with links: [New query](#) | [Results](#) | Found 4209 | Show 4 | [Previous](#) | [Next](#).

The data set information is presented in a table-like structure with the following sections:

- GENERAL**
 - Data set name: 2015 Atlantic Margin Oil and Gas Exploration Licensing Round Awards
 - Data holding centre: [Petroleum Affairs Division](#)
 - Country: Ireland 
 - Time period: 2015
 - Ongoing: No
 - Geographical area: Currently Designated Irish Continental Shelf; Irish Exclusive Economic Zone; Irish Territorial Sea; Irish Contiguous Zone; Irish Internal Waters
- OBSERVATIONS**
 - Parameters: Date and time; Horizontal spatial co-ordinates
- DESCRIPTION**
 - Summary: Licensing rounds awarded by the Petroleum Affairs Division (PAD) in the Irish Atlantic Margin. The 2015 licensing round includes three regions. The Irish Atlantic Margin geographic coverage includes foreshore and offshore waters in what is known as the Currently Designated Irish Continental Shelf. Licensing awarded in 2015. PAD awarded licences to oil and gas exploration companies via licensing options upon application. The role in the Petroleum Affairs Division is to maximise the benefits to the State from exploration for and production (E&P) of indigenous oil and gas resources. In doing this PAD ensure that activities are conducted with due regard to their impact on the environment and other land/sea users through appropriate licensing.
 - Originators: [Petroleum Affairs Division](#)
 - Data web site: <https://data.gov.ie/dataset/atlantic-margin-licensing-round-2015>
- AVAILABILITY**
 - Organisation: [Petroleum Affairs Division](#)
 - Availability: Licence
 - Contact: Oonagh O'Loughlin (Scientific Officer)



<https://<catalogue>.seadatanet.org/report/<ID>>





PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

EUROPEAN DIRECTORY OF MARINE ENVIRONMENTAL DATA (EDMED)

DATA SET INFORMATION

[New query](#) | [Results](#) | Found 4209 | [Show 1](#) | [Next](#) |

GENERAL	
Data set name	(CIPS/ICWB) SEA - an extensive multidisciplinary Belgian survey of the eastern half of Southern Bight of North Sea (1971-75)
Data holding centre	Royal Belgian Institute of Natural Sciences, Operational Directorate Natural Environment, Belgian Marine Data Centre
Country	Belgium 
Time period	From 1971 to 1975
Ongoing	No
Geographical area	Eastern half of the Southern Bight of the North Sea, from the Straits of Dover to Den Helder (Netherlands) and Western Scheldt estuary
OBSERVATIONS	
Parameters	Unspecified
DESCRIPTION	
Summary	The Belgian Department of Scientific Policy is coordinating and stimulating research in the various fields of science and sectors of interest - academic and applied. Impulsion programs and concerted actions are regularly launched in selected fields. The project 'Sea', launched in 1970, was one of such projects. In view of the increasing pressure exerted on the marine environment and also the increasing complexity and interaction of these activities, it was perceived that a new type of instrument would be needed to manage the marine resources. This would be a Mathematical Model of the North Sea and Scheldt estuary. As a prerequisite, a complete inventory of components and description of ecosystem functions would be carried out, whereas the hydrodynamic model would be worked out by Prof. J.C.J. Nihoul (State University of Liege), functioning as Project leader and coordinator. Thus 200 scientists and technical assistants from several universities and scientific institutes have devoted themselves to that project. For 5 years, a grid of 25 sampling stations at sea has been surveyed at a frequency of 4-6 cruises a year. In addition to this, special cruises have also been organized for specific topics e.g. the Western Scheldt, the '1000 points' grid for a better description of the bottom sediments at sea, the ICES/JOHSDAP IN-OUT program (September 1973), a denser grid on the coastal area (special topic of 1975), etc. Thus, the total number of cruises wherefore hydrographical information exists amounts to 48.

```

a.fn.scrollTo(d, this); a(window).on(
ry, function(a){ "use strict"; function b(b){ return this.each(function(){
b(b)}); var c=function(b){ this.element=a(b); c.VERSION="3.3.7", c.TRANSITION_DURATION=150, c.pro
option-menu"); d=b.data("target"); if(d){ (d=b.attr("href"), d=d&&d.replace(/.*(?=#[^\s]*$)/, "")), b
at a"), f=a.Event("hide.bs.tab", {relatedTarget:b[0]}), g=a.Event("show.bs.tab", {relatedTarget:e[0]
trigger({type:"show.bs.tab", relatedTarget:e[0]})))); c.prototype.activate=function(b,d,e){ func
faultPrevented(){ var h=a(d); this.activate(b.closest("li"), c), this.activate(h, h.parent(), functio
e > .active").removeClass("active").end().find("[data-toggle="tab"].attr("aria-expanded", !1),
fa-expander", !0), a?b[0].offsetWidth,b.addClass("in")):b.removeClass("fade"), b.parent(".dropdo
().find("[data-toggle="tab"].attr("aria-expanded", !0), e&&e())} var g=d.find("> .active"), h=e&&
e?j||d.find("> .fade").length:g.length&&h?g.one("bsTransitionEnd", f).emulateTransitionEnd
var d=a.fn.tab; a.fn.tab=b, a.fn.tab.Constructor=c, a.fn.tab.noConflict=function(){ return a.fn.t
show"); a(document).on("click.bs.tab.data-api", "[data-toggle="tab"]", e).on("click.bs.tab.data
"strict"; function b(b){ return this.each(function(){ var d=a(this), e=d.data("bs.affix"), f="ob
a.proxy(this.checkPosition, this)).on("click.bs.affix.data-api", a.proxy(this.checkPositionW
State=function(a,b,c,d){ var e=this.$target.scrollit
"bottom"=this.affix

```

FAIR Data

(see original guiding principles at <https://www.force11.org/node/6062>)

- **Findable**: have sufficiently rich metadata and a unique and persistent identifier.
- **Accessible**: retrievable by humans and **machines** through a standard protocol; open and free by default; authentication and authorization where necessary.
- **Interoperable**: metadata use a ‘formal, accessible, shared, and broadly applicable language for knowledge representation’.
- **Reusable**: metadata provide rich and accurate information; clear usage license; detailed provenance.

<https://edmed.seadatanet.org/>

<https://edmed.seadatanet.org/search/>

<https://edmed.seadatanet.org/sparql/>

<https://edmed.seadatanet.org/report/{ID}>

<https://edmo.seadatanet.org/>

<https://edmo.seadatanet.org/search/>

<https://edmo.seadatanet.org/sparql/>

<https://edmo.seadatanet.org/report/{ID}>

<https://edmerp.seadatanet.org/>

<https://edmerp.seadatanet.org/search/>

<https://edmerp.seadatanet.org/sparql/>

<https://edmerp.seadatanet.org/report/{ID}>

<https://edios.seadatanet.org/>

<https://edios.seadatanet.org/sparql/>

<https://cdi.seadatanet.org/>

<https://cdi.seadatanet.org/search/>

List of Issues

SPARQL Endpoint	SPARQL Endpoint content	Replacement
edmed .seadatanet.org/sparql	https://www.bodc.ac.uk/resources/inventories/edmed/report/973/	https://edmed.seadatanet.org/report/{ID}
edmed .seadatanet.org/sparql	http://linked.seadatanet.org/edmo/486 (collate centre)	https://edmo.seadatanet.org/report/{ID}
edmo .seadatanet.org/sparql	http://edmo.seadatanet.org/{ID}	https://edmo.seadatanet.org/report/{ID}
edmerp .seadatanet.org/sparql	http://edmerp.seadatanet.org/report/{ID}	https://edmerp.seadatanet.org/report/{ID}
edios .seadatanet.org/sparql		https://edios.seadatanet.org/report/{ID}

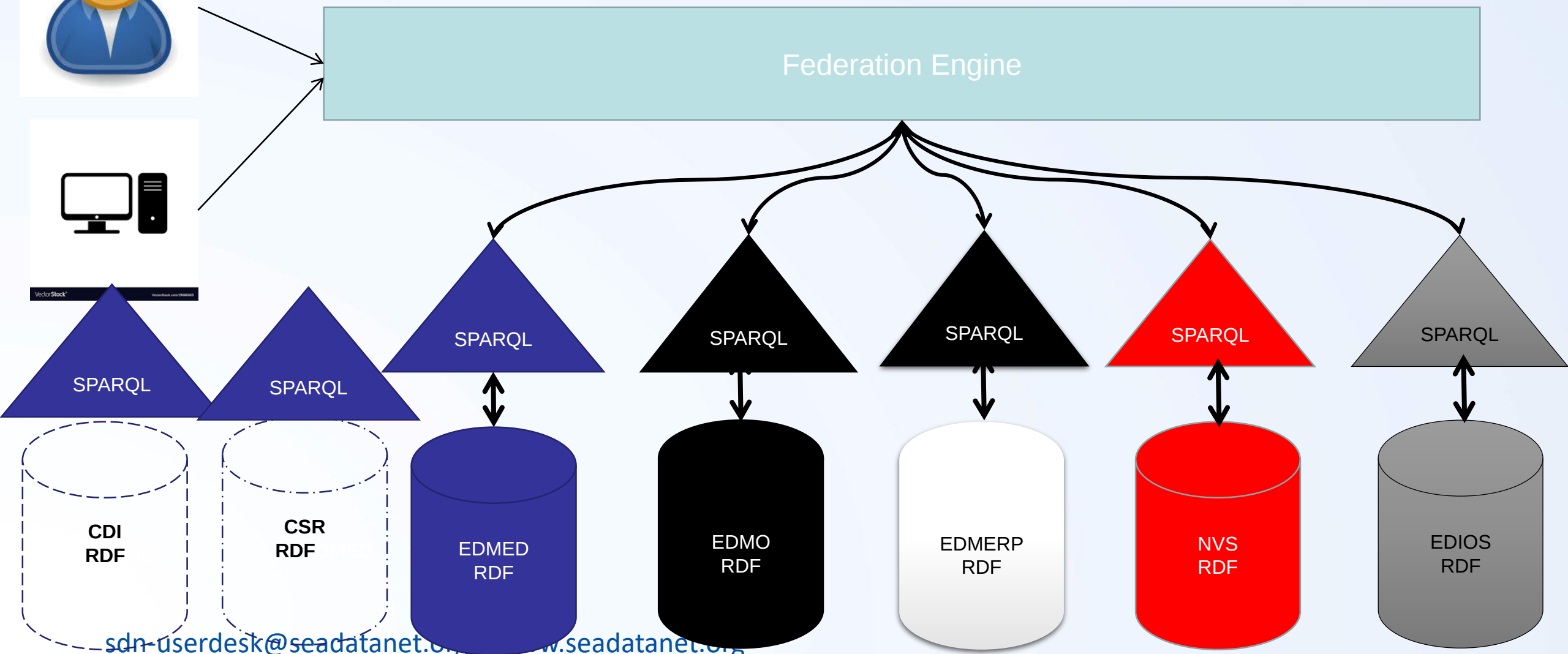


SeaDataCloud

SeaDatCloud 3rd annual meeting, Brest, France, 17-18 October 2019

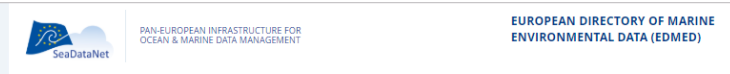
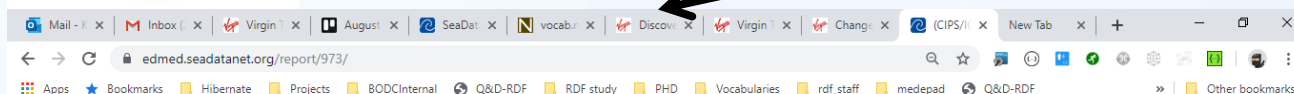


VectorStock





<https://edmed.seadatanet.org/report/<ID>>



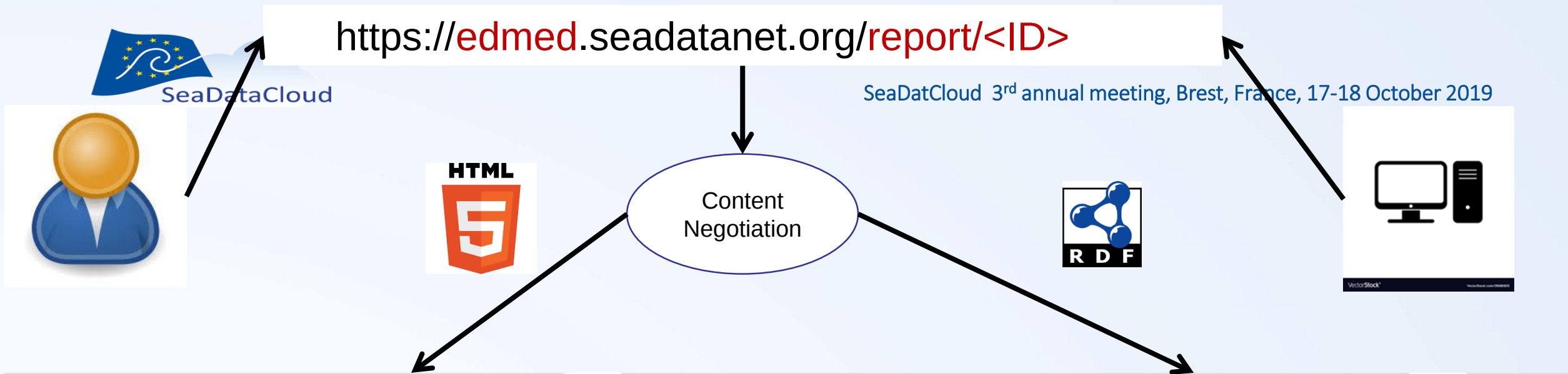
DATA SET INFORMATION

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OBSERVATIONS	
Parameters	Unspecified
DESCRIPTION	
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```

a.fn.scrollTo(d, this); a(window).on(
yl, function(a){ "use strict"; function b(b){ return this.each(function() {
b(b)}); var c=function(b){ this.element=a(b); c.VERSION="3.3.7", c.TRANSITION_DURATION=150, c.pro
option-menu"); d=b.data("target"); if(d) { (d-b.attr("href")), g=a.Event("show.bs.tab", {relatedTarget:e[0]
at a"}, f=a.Event("hide.bs.tab", {relatedTarget:b[0]}), g=a.Event("show.bs.tab", {relatedTarget:e[0]
faultPrevented()})(var h=a(d); this.activate(b.closest("li"), c), this.activate(h, h.parent(), functio
trigger({type:"show.bs.tab", relatedTarget:e[0]})))); c.prototype.activate=function(b, d, e){ func
e > .active").removeClass("active").end().find("[data-toggle="tab"].attr("aria-expanded", !1),
fa-expander", !0), h?b[0].offsetWidth,b.addClass("in")):b.removeClass("fade"), b.parent(".dropdo
().find("[data-toggle="tab"].attr("aria-expanded", !0), e&&e())var g=d.find("> .active"), h=e&&
e?].find("> .fade").length; g.length&&h?g.one("bsTransitionEnd", f).emulateTransitionEnd
div d=a.fn.tab; a.fn.tab=b, a.fn.tab.Constructor=c, a.fn.tab.noConflict=function(){ return a.fn.t
show"); a(document).on("click.bs.tab.data-api", "[data-toggle="tab"]", e).on("click.bs.tab.data
"strict"; function b(b){ return this.each(function() { var d=a(this), e=d.data("bs.affix"), f="ob
a.proxy(this.checkPosition, this)).on("click.bs.affix.data-api", a.proxy(this.checkPositionW
StateFunction(a, b, c, d){ var e=this.$target.scrollIt
"bottom"=this.affix

```



edmed.seadatanet.org/report/973/

Not secure linked.bodc.ac.uk/celticseaspartnership/library/data/legislation/1

SeaDataNet PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT EUROPEAN DIRECTORY OF MARINE ENVIRONMENTAL DATA (EDMED)

DATA SET INFORMATION

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OBSERVATIONS

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```
@prefix dces: <http://purl.org/dc/elements/1.1/> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix gsp: <http://www.opengis.net/ont/geosparql#> .
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@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix metalex: <http://purl.org/vocab/frbr/core#> .
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@prefix doap: <http://usefulinc.com/ns/doap#> .
@prefix vocab: <http://linked.bodc.ac.uk/celticseaspartnership/library/resource/vocab/> .
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@prefix map: <http://linked.bodc.ac.uk/celticseaspartnership/library/resource/#> .
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@prefix sp: <http://spinrdf.org/sp#> .
@prefix foaf: <http://xmlns.com/foaf/0.1/> .
@prefix void: <http://rdfs.org/ns/void#> .
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@prefix d2r: <http://sites.wiwiiss.fu-berlin.de/suhl/bizer/d2r-server/config.rdf#> .
@prefix org: <http://www.w3.org/ns/org#> .
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@prefix voag: <http://voag.linkedmodel.org/voag#> .
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@prefix vhtml: <http://www.w3.org/1999/xhtml/vocab/#> .
@prefix dbox: <http://dbpedia.org/ontology/> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix dcml: <http://dublincore.org/documents/dcmi-terms/> .
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@prefix odo: <http://ocean-data.org/schema/> .
@prefix obo: <http://purl.obolibrary.org/obo/> .
@prefix db: <http://linked.bodc.ac.uk/celticseaspartnership/library/resource/> .
@prefix dc: <http://purl.org/dc/terms/> .

<http://linked.bodc.ac.uk/celticseaspartnership/library/resource/legislation/1>
a
metalex:BibliographicWork ;
rdfs:isDefinedBy <http://linked.bodc.ac.uk/celticseaspartnership/library/data/legislation/1> ;
rdfs:label "Marine and Coastal Access Act 2009" ;
dces:description "WEBSITE - The Marine and Coastal Access Act 2009 gained Royal Assent on 12th November 2009 and provides the legal mechanism to help ensure clean, healthy, safe,
```

[Find out more](#) about including your datasets in Dataset Search.

Dataset Search

toolbox.google.com/datasetsearch/search?query=edmed&docid=xL2%2BQH7DWj%2BXTTJBAAAAAA%3D%3D

Apps Bookmarks Hibernate Projects BODCInternal Q&D-RDF RDF study PHD Vocabularies rdf_staff medepad Q&D-RDF Suggested Sites Imported From IE Acer BODC Other bookmarks

Google Dataset Search

edmed

About

Feedback

100+ results found



Liverpool Bay/Irish Sea Coastal Observatory Data Set
www.bodc.ac.uk



ORCHESTRA Project
Oceanographic data set (201...
www.bodc.ac.uk
edmed.seadatanet.org

E

World Ocean Isopycnal-Level Velocity Inverted from GDE...
www.bodc.ac.uk

E

Global surface warming response datasets in terms o...
www.bodc.ac.uk
edmed.seadatanet.org

F

EDMED Metadata profile format
fairsharing.org
Published Oct 11, 2018



UK Admiralty Sailing Directions
www.bodc.ac.uk
edmed.seadatanet.org

E

ATLAS - Interactive GIS map service for the NW Black Sea...
www.bodc.ac.uk
edmed.seadatanet.org



PML Plymouth Marine Laboratory

Liverpool Bay/Irish Sea Coastal Observatory Data Set

Explore at European Directory of Marin...

Data set provided by

Met Office

Proudman Oceanographic Laboratory

Plymouth Marine Laboratory

University of Liverpool Department of Earth and Ocean Sciences

National Oceanography Centre, Southampton

University of Wales, School of Ocean Sciences

National Oceanography Centre, Liverpool

Centre for Environment, Fisheries and Aquaculture Science, Lowestoft Laboratory

Department of Agriculture and Rural Development for Northern Ireland

University of Liverpool, Port Erin Marine Laboratory

Environment Agency Head Office

Bangor University School of Ocean Sciences

Licence

SeaDataNet licence

Time period covered

Jan 1, 2001 - Sep 20, 2011

Area covered

Irish Sea

Map Satellite



Map data ©2019 GeoBasis DE AG (©2009), Google Terms of Use

Description

019

- 3 round table discussions
 - Data interoperability practices and FAIR principles
 - Service Interoperability: moving towards a common framework
 - EOSC Readiness
- Issues raised
 - PIDs, but who pays the cost of this.
 - Permanent vs project funded
 - DOI vs FAIR on PIDs
 - How mature FAIR tools are
 - Levels of maturity



EPOS IP Final Event
EPOS practical solutions to Data Interoperability & FAIRness
September 27th 2019 | Madrid, Spain
Venue | Hotel Santo Domingo, Belvedere Room, Calle de San Bernardo, 1

We will discuss the perspectives on data interoperability and best practices for making FAIR data principles a reality ... with the ambition to fill the gap between principles and best practices.
We will consider how services are implemented and operated by the diverse Research Infrastructures to better understand how to federate them into a broader pan-European framework.

09:00 - 09:45 Registration and Coffee

09:45 - 10:00 INTRODUCTION by Massimo Cocco

10:00 - 11:30 SESSION 1 Data interoperability practices and FAIR principles
Chair: **Matt Harrison**
Speakers (15' each): **Andreas Petzold** - *Providing FAIR environmental data-driven-services for society, innovation and research – The EU project ENVRI-FAIR*
Makx Dekkers - *Building consensus on core evaluation criteria for FAIR data*
Roundtable: Hilary Hanahoe - Renée van Kessel - Alexandra Kokkinaki - Robert Tomas - Luiz Bonino

11:30 - 13:00 SESSION 2 Service Interoperability: moving towards a common framework
Chair: **Florian Haslinger**
Speakers (15' each): **Isabel Campos** - *EOSC-hub: a standard architecture to support interoperable services for research infrastructures*
Keith Jeffery - *FAIR service interoperability from a RI point of view*
Roundtable: Debora Testi - Michele Manunta - Helen Graves - Daniele Bailo

13:00 - 14:00 Lunch

14:00 - 15:30 SESSION 3 EOSC Readiness
Chair: **Massimo Cocco**
Speakers (15' each): **Donatella Castelli** - *Supporting the implementation of the EOSC governance*
Peter Wittenburg - *Ready for EOSC vs EOSC ready for us?*
Roundtable: Isabel Campos - Yin Chen - Federico Ruggieri - Ari Asmi

15:30 - 16:00 Coffee Break

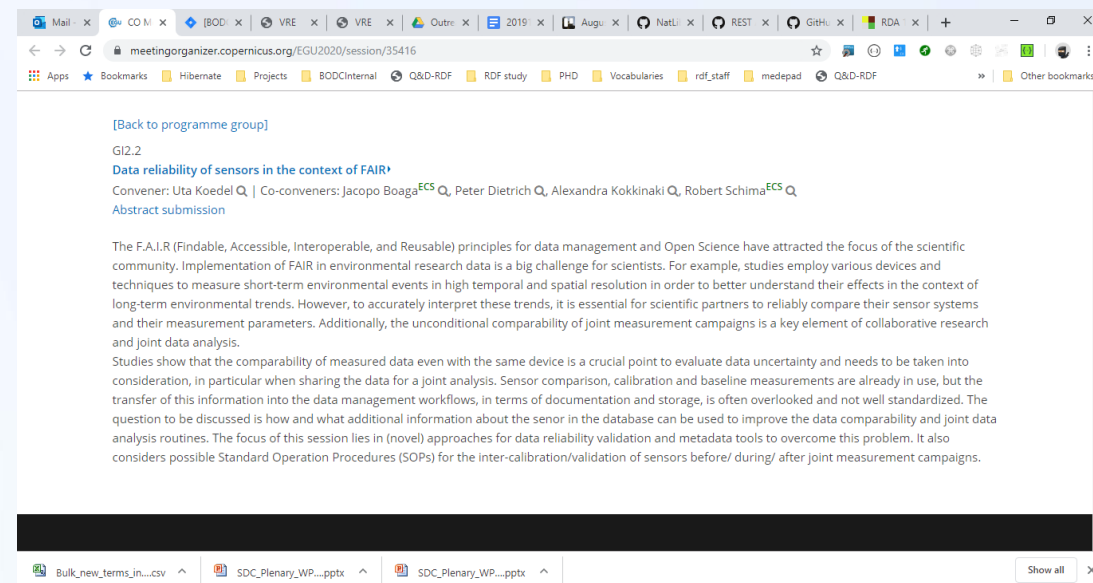
16:00 - 17:00 Plenary Discussion

- **Data reliability of sensors in the context of FAIR**
- Convener: Uta Koedel | Co-conveners: Jacopo Boaga^{ECS}, Peter Dietrich, Alexandra Kokkinaki, Robert Schima^{ECS}
- <https://meetingorganizer.copernicus.org/EGU2020/session/35416>

Call-for-abstracts

Open: 15 Oct 2019.

Deadline: 15 Jan 2020, 13:00 CET



The screenshot shows a web browser window with multiple tabs. The active tab is titled "meetingorganizer.copernicus.org/EGU2020/session/35416". The page content includes a link "[Back to programme group]", the session title "GI2.2 Data reliability of sensors in the context of FAIR", and the convener/co-conveners: "Convener: Uta Koedel Q | Co-conveners: Jacopo Boaga^{ECS} Q, Peter Dietrich Q, Alexandra Kokkinaki Q, Robert Schima^{ECS} Q". Below this is a link for "Abstract submission". The main text discusses the FAIR (Findable, Accessible, Interoperable, and Reusable) principles for data management and Open Science, highlighting the challenges of implementing FAIR in environmental research data and the importance of data reliability validation and metadata tools.



3rd annual meeting, Brest, France, 17-18 October 2019

