



SeaDataCloud

Deliverable D9.15

A list of relevant and
possible external
datasets



HORIZON 2020

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

SeaDataCloud - Further developing the pan-European infrastructure for marine and ocean data management

Grant Agreement Number: 730960

Deliverable number

9.15

Short title

List of relevant and possible external datasets

Long title

List of relevant and possible external datasets

Short description

To provide a list of relevant external datasets and collections that might be included in SeaDataNet data provision

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Working group

EuroGOOS

Dissemination

EC, SeaDataCloud consortium, public

Copyright terms

Public

History

Version	Authors	Date	Comments
V1	Patrick Gorringer, Vicente Fernández	2017-04-28	Draft
V2	Dick M.A. Schaap	2017-07-10	Final editing

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1. Introduction

The SeaDataNet infrastructure provides its users with access to the marine data assets that are managed by its SeaDataNet data centres. This is done through the Common Data Index (CDI) Data Discovery and Access service which connects >100 data centres from 34 countries around the European seas. The CDI service provides unified metadata for searching and delivers data sets following agreed SeaDataNet formats.

One of the aims of the SeaDataCloud project is to expand the volumes of data sets that are made discoverable and accessible for its users. This will be achieved in the following ways:

- Further expansion of the number of data sets populated in the CDI service by existing connected data centres. This aims at including more data sets from historical archives, but foremost adding recent data sets as acquired from scientific cruises, observation systems, and various projects. One particular target is that the existing gap between operational oceanography as represented by EuroGOOS and In-situ TAC of Copernicus Marine Environmental Monitoring Service (CMEMS) and the long term archives as presented by SeaDataNet will be made smaller. For that purpose there is full agreement and cooperation between EuroGOOS, CMEMS and SeaDataNet in the EMODnet Physics project, aiming at arranging that the operational oceanographic data collected at the observing system will flow more directly to the SeaDataNet data centres for QA-QC, storage and population in the CDI service. This process will also be monitored and stimulated where needed in the SeaDataCloud project. On top of this the SeaDataNet CDI service will also benefit from the new phases of EMODnet Chemistry and Bathymetry that will gather and populate more data sets and also bring in more data centres that will be connected to the CDI service.
- Setting up and operating a Brokerage Service following the prototype 1 of ODIP (Ocean Data Interoperability Platform) for connecting other major international marine data discovery and access services such as US NCEI, Australian AODN, and others. This will be done through seeking interoperability whereby SeaDataNet users will be offered an extra facility for discovering available data sets in those other systems and given their links and services to access associated data sets;
- Making use of the EMODnet Ingestion portal which has been launched as part of EMODnet early 2017 with a Data Submission service whereby third parties can ingest data collections. Successfully ingested data collections will be made available for downloading 'as is' together with completed metadata forms which follow ISO19115 and SeaDataNet vocabularies. Another part of those ingested data collections will be elaborated by involved data centres, including the SeaDataNet data centres. This implicates that the ingested data sets will be processed, validated and converted to fit the data management systems of the data centres and from there populated into SeaDataNet CDI service.

In case of the CDI service users will find data sets in the SeaDataNet formats, while in case of the Brokerage service there will be other formats as provided by its data providers or system operators. However making more data sources and data sets discoverable and accessible will be beneficial for SeaDataNet users in many ways.

These activities are undertaken as part of WP9.6 consisting of the following tasks:

- WP9.6.1: Identify a list of relevant and possible external data sets;
- WP9.6.2: Ensure external data sets are made available to SeaDataCloud;
- WP9.6.3: Manage redundancy between external data sets and SeaDataCloud data sets.



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This Deliverable gives the first result of WP9.6.1 and has been compiled by EuroGOOS. The plan is to update this deliverable on an annual basis, starting with M24 and then followed by M36 and M48. The given list below contains data services, data providers, and data collections that might be given a follow-up under one of the three modus as described above.



2. Data Portals Catalogue

We present here international, regional and local observational programmes and initiatives and data portals and data portal aggregators with links to observational programmes that may be of interest for SDC. For some datasets an agreement might already be in place, for other datasets of interest negotiations will be initiated. Datasets from physical, biogeochemistry and biological parameters are included.

Note that most of the data are free and open but some of the portals may have data access restriction and in some cases require registration.

Note also that the list is not exhaustive and a number of initiatives may be missing. The list will be maintained and updated regularly by the EuroGOOS Office and also made available via the EuroGOOS website.

2.1. Global Data portals

Atlantic Meridional Transect	
	<p>Short Name: AMT</p> <p>Multidisciplinary programme which undertakes biological, chemical and physical oceanographic research during an annual voyage between the UK and destinations in the South Atlantic.</p> <p>Website: http://www.amt-uk.org</p> <p>Direct Link to data (if available): https://www.bodc.ac.uk/projects/data_management/uk/amt/data_delivery/</p>
Argo floats	
	<p>Short Name: ARGO</p> <p>Argo is a global array of 3,800 free-drifting profiling floats that measures the temperature and salinity of the upper 2000 m of the ocean</p> <p>Website: http://www.argo.ucsd.edu/</p> <p>Direct Link to data (if available): ftp://ftp.ifremer.fr/ifremer/argo</p> <p>Comments: Argo data can be accessed through various portals</p>
Biological and Chemical Oceanographic Data Management Office	



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Short Name: BCO-DMO

The BCO-DMO staff members work with investigators to serve data online from research projects funded by the Biological and Chemical Oceanography Sections, the Division of Polar Programs Arctic Sciences and Antarctic Organisms & Ecosystems Program at the U.S. National Science Foundation.

Website: <http://www.bco-dmo.org/>

Direct Link to data (if available): <http://www.bco-dmo.org/data>

British Oceanographic Data Center



Short Name: BODC

BODC holds a wealth of publicly accessible marine data collected using a variety of instruments and samplers and collated from many sources. It handles biological, chemical, physical and geophysical data and the databanks contain measurements of nearly 22,000 different oceanographic variables.

Website: <https://www.bodc.ac.uk/>

Direct Link to data (if available):

CTD and hydrographic data - National Science Foundation and the National Oceanic and Atmospheric Administration's Climate Observations Division

Short Name: CCHDO

Highest possible quality global CTD and hydrographic data to users. These data are a product of decades of observations related to the physical characteristics of ocean waters carried out during WOCE, CLIVAR and numerous other oceanographic research programs.

Website: <https://cchdo.ucsd.edu/>

Direct Link to data (if available):

Comments: Includes data from different observation programmes – SOCCOM USHYDRO WOCE DIMES ELLETT Project Carina


Coriolis Operational Oceanography





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	<p>Short Name: Coriolis</p> <p>Coriolis data service provides quality-controlled in-situ data in real-time and delayed modes. Managed data sets are mainly T-S profiles and time series from profiling floats, XBT's, thermo-salinographs, drifting and moored buoys. Coriolis is progressively integrated other parameters such as sea level from European real-time tide gages, and ecosystem data (oxygen, chlorophyll and nutrients) from ferrybox , mooring and gliders.</p> <p>Website: http://www.coriolis.eu.org/Data-Products</p> <p>Direct Link to data (if available): http://www.coriolis.eu.org/Data-Products/Catalog</p> <p>Comments: CORIOLIS Data Centre is the Global Data Assembly Center (GDAC) for ARGO, OceanSITES and GOSUD project networks.</p>
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Data Buoy Cooperation Panel	
	<p>Short Name: DBCP</p> <p>The DBCP is an international program coordinating the use of autonomous data buoys to observe atmospheric and oceanographic conditions, over ocean areas where few other measurements are taken.</p> <p>Website: http://www.jcommops.org/dbcp/</p> <p>Direct Link to data (if available):</p>

MetOffice Hadley Centre Observation Datasets	
	<p>Short Name: Hadley Centre</p> <p>Observed subsurface ocean temperature and salinity profiles with data quality information, and, objective analyses formed from the profile data with uncertainty estimates. Data are available from 1900 to the present.</p> <p>Website: http://www.metoffice.gov.uk/hadobs/</p> <p>Direct Link to data (if available): http://www.metoffice.gov.uk/hadobs/en4/download-en4-2-0.html</p>


Global Ocean Data Analysis Project Version 2
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	<p>Short Name: GLODAPv2</p> <p>A uniformly calibrated open ocean data product on inorganic carbon and carbon-relevant variables</p> <p>Website: https://seabass.gsfc.nasa.gov/wiki/System_Description</p> <p>Direct Link to data (if available): http://cdiac.ornl.gov/ftp/oceans/GLODAPv2/Data_Products/data_product/</p>
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Global Ocean Acidification Observing Network	
	<p>Short Name: GOA-ON</p> <p>Collaborative international approach to document the status and progress of ocean acidification in open-ocean, coastal, and estuarine environments, to understand the drivers and impacts of ocean acidification on marine ecosystems, and to provide spatially and temporally resolved biogeochemical data necessary to optimize modelling for ocean acidification.</p> <p>Website: http://goa-on.org/</p> <p>Direct Link to data (if available): http://portal.goa-on.org/Explorer</p>

The Global Ocean Surface Underway Data	
	<p>Short Name: GOSUD</p> <p>GOSUD data are provided by volunteer contributors who are willing to build freely accessible global datasets, promote standard methodologies and agree on a common data policy. The observations are collected from different categories of platforms such as research vessels, merchant ships but also sailing ships or cruise vessels. Whenever possible, data or data subsets are transmitted in real time.</p> <p>Website: http://www.gosud.org/</p> <p>Direct Link to data (if available): ftp://ftp.ifremer.fr/ifremer/gosudv3/latest/ ftp://ftp.ifremer.fr/ifremer/gosudv3/delayed_mode/</p>


Global Runoff Data Center





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	<p>Short Name: GRDC</p> <p>The world-wide repository of river discharge data and associated metadata operating under the auspices of the World Meteorological Organization (WMO).</p> <p>Website: http://www.bafg.de/GRDC/EN/02_srvcs/21_tmsrs/riverdischarge_node.html</p> <p>Direct Link to data (if available):</p> <p>Comments: Data only under request</p>
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International Comprehensive Ocean-Atmosphere Data Set (NOAA)	
	<p>Short Name: ICOADS</p> <p>Available global surface marine data from the late 17th century to date assembled, quality controlled, and made widely available to the international research community in products of the Comprehensive Ocean-Atmosphere Data Set (COADS). A new name, International COADS (ICOADS), was agreed in 2002.</p> <p>Website: http://icoads.noaa.gov/</p> <p>Direct Link to data (if available): https://rda.ucar.edu/datasets/ds548.0/</p> <p>Comments: Data can be accessed through different portals: NCAR, NOAA/ESRL/PSD and NOAA/NCEI.</p>

International Ocean Data and Information Exchange (IOC-UNESCO)	
	<p>Short Name: IODE</p> <p>The Ocean Data Portal will provide seamless access to collections and inventories of marine data from the NODCs in the IODE network and will allow for the discovery, evaluation (through visualisation and metadata review) and access to data via web services.</p> <p>Website: www.oceandataportal.org</p> <p>Direct Link to data (if available): http://www.oceandataportal.net/portal/portal/odp2/data</p>


Long Term Ecological Research Network





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	<p>Short Name: LTER</p> <p>US-based network of long-term ecological research sites</p> <p>Website: https://portal.lternet.edu/nis/advancedSearch.jsp</p> <p>Direct Link to data (if available):</p>
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Marine Network for Integrated Data Access	
	<p>Short Name: MANIDA</p> <p>The data portal brings together data from different German Marine Research Institutes in an automated way (machine readable). A huge amount of marine data sets is commonly made searchable with direct access and without any registration procedure. Metadata and data from these partner institutes: AWI, BSH, GEOMAR, HZG and MARUM.</p> <p>Website: http://www.manida.org/</p> <p>Direct Link to data (if available): http://manida.awi.de/searchData?qf=genericType/data</p> <p>Comments: portal linking to other global providers (e.g. links to PANGEA)</p>

National Center for Atmospheric Research - Research Data Archive - NSF	
	<p>Short Name: NCAR/RDA</p> <p>RDA, managed by the Data Support Section of the Computational and Information Systems Laboratory at NCAR, contains a large and diverse collection of meteorological and oceanographic observations, operational and reanalysis model outputs, and remote sensing datasets to support atmospheric and geosciences research.</p> <p>Website: https://rda.ucar.edu/</p> <p>Direct Link to data (if available): https://rda.ucar.edu/#!fd?nb=y&b=topic&v=Oceans</p> <p>Comments: Registration necessary to download data</p>


National Centers for Environmental Information (formerly National Ocean Data Center)




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 <p>NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION</p>	<p>Short Name: NCEI (formerly NODC)</p> <p>NODC has implemented numerous interoperable data technologies to enhance the discovery, understanding, and use of the vast quantities of oceanographic data in the NODC archives. Combined, these technologies enable NODC to provide access to its data holdings and products through some of the commonly-used standardized Web services.</p> <p>Website: https://www.nodc.noaa.gov/</p> <p>Direct Link to data (if available): https://data.nodc.noaa.gov/thredds/catalog.html</p> <p>Comments: Contains links to data from many programs - WOD, GOSUD, IOOS, ARGO, etc...</p>
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National Data Buoy Center (NOAA)	
	<p>Short Name: NDBC</p> <p>NDBC designs, develops, operates, and maintains a network of data collecting buoys and coastal stations</p> <p>Website: http://www.ndbc.noaa.gov/</p> <p>Direct Link to data (if available): http://dods.ndbc.noaa.gov/thredds/catalog/data/catalog.html</p>

NASA Bio-Optical Marine Algorithm Dataset	
	<p>Short Name: NOMAD</p> <p>Global, high quality in situ bio-optical data sets. Data products include coincident observations of water-leaving radiances and chlorophyll-a concentrations, along with relevant metadata, such as the date, time, and coordinates of data collection and binary processing flags.</p> <p>Website: https://seabass.gsfc.nasa.gov/wiki/NOMAD</p> <p>Direct Link to data (if available): http://cdiac.ornl.gov/oceans/GLODAPv2/</p>


Ocean Bio-geographic Information System

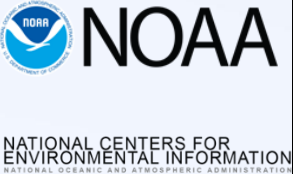



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	<p>Short Name: OBIS</p> <p>OBIS users can identify biodiversity hotspots and large-scale ecological patterns, analyse dispersions of species over time and space, and plot species' locations with temperature, salinity, and depth.</p> <p>Website: http://www.iobis.org</p> <p>Direct Link to data (if available): http://www.iobis.org/data/</p> <p>Comments: Portal with several external sources (e.g. WORMS)</p>
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Ocean Carbon Data System - NOAA	
	<p>Short Name: OCADS (formerly CDIAC)</p> <p>The newly founded NCEI Ocean Carbon Data System (OCADS) is responsible for hosting and providing access for ocean carbon data as previously done by the Ocean component of the Carbon Dioxide Information Analysis Center (CDIAC-Oceans) at the Oak Ridge National Laboratory (ORNL).</p> <p>Website: https://www.nodc.noaa.gov/ocads/</p> <p>Direct Link to data (if available): https://www.nodc.noaa.gov/oceanacidification/stewardship/data_portal.html</p>

OceanSites	
	<p>Short Name: OceanSites</p> <p>OceanSITES is a worldwide system of long-term, deep water reference stations measuring dozens of variables and monitoring the full depth of the ocean, from air-sea interactions down to 5,000 meters.</p> <p>Website: http://www.oceansites.org/</p> <p>Direct Link to data (if available): http://dods.ndbc.noaa.gov/thredds/catalog/oceansites/catalog.html</p> <p>Comments: OceanSites is a program, the data can be accessed through various portals</p>


Ocean Observatories Initiative (US-NSF)





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	<p>Short Name: OOI</p> <p>OOI deploys sensors in arrays of moorings, mobile assets, and cabled sensors to measure oceanographic variables.</p> <p>Website: http://oceanobservatories.org/data/</p> <p>Direct Link to data: https://ooinet.oceanobservatories.org</p>
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Oceanography and Scientific Data - Fisheries and Oceans Canada	
	<p>Short Name: OSD</p> <p>Data management, archival and dissemination of physical oceanographic data and data products on national and international scales, it has since been broadened to include chemical and biological oceanography.</p> <p>Website:</p> <p>http://www.meds-sdmm.dfo-mpo.gc.ca/isdm-gdsi/index-eng.html</p> <p>Direct Link to data (if available)</p> <p>Comments: Data upon request. Mainly Regional data (Canada), but for some specialized data types and programmes the area of interest is global.</p>

Data Publisher for Earth & Environmental Science	
	<p>Short Name: PANGAEA</p> <p>Open Access library aimed at archiving, publishing and distributing georeferenced data from earth system research. The system guarantees long-term availability of its content through a commitment of the operating institutions.</p> <p>Website: https://www.pangaea.de/</p> <p>Direct Link to data (if available):</p> <p>Comments: Data from scientific publications (DOI)</p>

International Permanent Service for Mean Sea Level



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Short Name: PSMSL

PSMSL has been responsible for the collection, publication, analysis and interpretation of sea level data from the global network of tide gauges. It is based in Liverpool at the National Oceanography Centre (NOC), which is a component of the UK Natural Environment Research Council (NERC)

Website:

<http://www.psmsl.org/>

Direct Link to data (if available):

<http://www.psmsl.org/data/obtaining/complete.php>

Sir Alister Hardy Foundation for Ocean Science, Continuous Plankton Recorder Survey



Short Name: SAHFOS-CPR

Portal that provides the scientific and policy communities with a basin-wide and long-term measure of the ecological health of marine plankton.

Website: <https://www.sahfos.ac.uk/>

Direct Link to data (if available):

Comments: Data only available under request

Sea level facility - IOC



Short Name: Sea Level Facility - IOC

Web-site focused on operational monitoring of sea level for real time sea level stations that are part of IOC programs i.e. (i) the Global Sea Level Observing System Core Network; and (ii) the networks under the regional tsunami warning systems in the Indian Ocean (IOTWS), North East Atlantic & Mediterranean (NEAMTWS), Pacific (PTWS) and the Caribbean (CARIBE-EWS)

Website: <http://www.ioc-sealevelmonitoring.org/>

Direct Link to data (if available):

<http://www.iocsealevelmonitoring.org/ssc/>


Surface Ocean CO2 Atlas





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	<p>Short Name: SOCAT A Collection of Surface Ocean CO2 Observations Quality Controlled by the Science Community</p> <p>Website: www.socat.info</p> <p>Direct Link to data (if available): http://cdiac.ornl.gov/ftp/oceans/SOCATv4/</p>
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Ship of Opportunity Program	
	<p>Short Name: SOOP Component of the Global Ocean Observing System (GOOS), whose mission is to provide a global platform to deploy and operate oceanographic instrumentation from cargo ships and research vessels. This program is responsible for the maintenance of AOML's XBT Network as well as the implementation of Thermosalinograph observations in support of AOML's pCO2 program.</p> <p>Website: http://www.aoml.noaa.gov/phod/soop/index.php</p> <p>Direct Link to data (if available): http://www.aoml.noaa.gov/phod/hdenxbt/index.php</p>

University of Hawaii Sea Level Center	
	<p>Short Name: UHSLC Tide gauges data around the world from GLOSS (Global Sea Level Observing System)</p> <p>Website: http://uhslc.soest.hawaii.edu/datainfo/</p> <p>Direct Link to data (if available): http://uhslc.soest.hawaii.edu/thredds/catalog.html</p>

2.2. Regional Data Portals (European and Non-European)

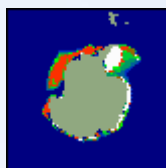


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Antarctic and Arctic Research Institute (Russia)



Short Name: AARI

provides metadata and some data from Russian Antarctic and Arctic met and oceanographic observations

Website: http://www.aari.aq/default_en.html

Direct Link to data (if available): No accessible data

Australian Ocean Data Network (IMOS)



Short Name: AODN

The AODN Portal provides access to all available Australian marine and climate science data and provides the primary access to IMOS data including access to the IMOS metadata.

Website: <https://portal.aodn.org.au/>

Direct Link to data (if available): <https://portal.aodn.org.au/search>

Data Collection Framework for Fisheries (EC)



Short Name: DCF

The JRC data dissemination tool provides access to data submitted by EU Member States to the European Commission under the provisions of the Data Collection Framework (Regulation (EC) 199/2008). Such data have been used by the STECF to respond to requests for advice from the European Commission and are made freely available via this dissemination tool in aggregated form for ease of access.

Website:

<http://datacollection.jrc.ec.europa.eu/>

Direct Link to data (if available):

<https://stecf.jrc.ec.europa.eu/data-dissemination>

International Council for the Exploration of the Sea



Short Name: ICES




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	<p>ICES has a well-established Data Centre, which manages a number of large dataset collections related to the marine environment.</p> <p>Website: http://ices.dk/marine-data/dataset-collections/Pages/default.aspx</p> <p>Direct Link to data (if available):</p>
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Marine GeoScience Data System Antarctic And Southern Ocean Data portal	
	<p>Short Name: MGDS</p> <p>MGDS provides a suite of tools and services for free public access to marine geoscience research data acquired throughout the global oceans and adjoining continental margins.</p> <p>Website: _http://www.marine-geo.org/portals/antarctic/</p> <p>Direct Link to data (if available):</p>

National Snow and Ice Data Center (US)	
	<p>Short Name: NSIDC</p> <p>NSIDC manages and distributes scientific data, creates tools for data access, supports data users, performs scientific research, and educates the public about the cryosphere.</p> <p>Website: http://nsidc.org/data</p> <p>Direct Link to data (if available):</p>

Ocean Networks Canada	
	<p>Short Name: ONC</p> <p>Ocean Networks Canada monitors the west and east coasts of Canada and the Arctic to continuously gather data in real-time for scientific research that helps communities, governments and industry make informed decisions about our future.</p> <p>Website: _http://www.oceannetworks.ca/</p> <p>Direct Link to data (if available): http://dmas.uvic.ca/DataSearch</p>

OSPAR Data and Information System	
	<p>Short Name: OSPAR</p>




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	<p>Online tool to improve the discovery, visualisation and accessibility of OSPAR data. Sufficient information is currently available to allow users to access the latest data collected as part of the ongoing monitoring work carried out in the OSPAR Maritime Area</p> <p>Website: www.ospar.org/data</p> <p>Direct Link to data (if available):</p> <p>Comments: Only GIS info on human activities</p>
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Svalbard Integrated Arctic Earth Observing System	
	<p>Short Name: SIOS</p> <p>SIOS is a regional observing system for long-term measurements in and around Svalbard addressing Earth System Science questions. SIOS integrates the existing distributed observational infrastructure and generates added value for all partners beyond what their individual capacities can provide.</p> <p>Website: www.sios-svalbard.org/</p> <p>Direct Link to data (if available): https://www.siosvalbard.org/metadata_search</p>

Southern Ocean Observing System	
	<p>Short Name: SOOS</p> <p>SOOS is an international initiative with the mission to facilitate the collection and delivery of essential observations on dynamics and change of Southern Ocean systems to all international stakeholders (researchers, governments, industries), through design, advocacy and implementation of cost-effective observing and data delivery systems.</p> <p>Website: www.soos.aq/</p> <p>Direct Link to data (if available): https://gcmd.gsfc.nasa.gov/KeywordSearch/Titles.do?Portal=soos-beta&MetadataType=0</p>

United Nations Environmental Program	
	<p>Short Name: UNEP</p> <p>Archived data in the Black Sea (mainly CTD from the Black Sea Scene project)</p>





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	<p>Website: http://web.unep.org</p> <p>Direct Link to data (if available): http://www.grid.unep.ch/bsein/publish/datasets.htm</p>
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U.S. Integrated Ocean Observing System	
	<p>Short Name: US - IOOS</p> <p>US Regional associations of data and model around the US Coast</p> <p>Website: _https://ioos.noaa.gov/</p> <p>Direct Link to data (if available): https://data.ioos.us/dataset</p>

Indian National Centre for Ocean Information Services	
	<p>Short Name: ESSO- INCOIS</p> <p>ESSO- INCOIS is mandated to provide the best possible ocean information and advisory services to society, industry, government agencies and the scientific community through sustained ocean observations. Provides round-the-clock monitoring and warning services for the coastal population on tsunamis, storm surges, high waves, etc. Both RT and archived data available from a number of platforms.</p> <p>Website: http://www.incois.gov.in</p> <p>Direct Link to data (if available): http://www.incois.gov.in/portal/datainfo/datainfohome.jsp</p> <p>Comments: data available after login</p>

Ocean data and information network for the Western Pacific region	
	<p>Short Name: ODINWESTPAC</p> <p>Provide a number of marine data and information products to serve the needs of WESTPAC member states i.e. Western Pacific region</p>





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	<p>Website: http://www.odinwestpac.org</p> <p>Direct Link to data (if available): http://www.odinwestpac.org/finddata.aspx</p> <p>Comments: Both operational data and archived datasets available for download. Linked with the North-East Asian Regional GOOS (NEAR-GOOS)</p>
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Pacific Island Ocean Observing System	
	<p>Short Name: PACIOOS</p> <p>Provides data from the Pacific Island region</p> <p>Website: http://www.pacioos.hawaii.edu/</p> <p>Direct Link to data (if available): http://www.pacioos.hawaii.edu/data-access/servers/</p> <p>Comments: PacIOOS supports a variety of data servers to provide easy and interoperable access to data holdings, including THREDDS, ERDDAP, Live Access Server (LAS), and GeoServer.</p>

IOCARIBE-GOOS	
	<p>Short Name: CARICOOS</p> <p>Provides information from the Caribbean region via IOCARIBE-GOOS</p> <p>Website: http://oceansmap.com/caricoos/</p> <p>Direct Link to data (if available): http://www.caricoos.org/data-download</p> <p>Comments: Data download via US-IOOS</p>

2.3. Local Data Portals (European and Non-European)

Istituto Superiore per la Protezione e la Ricerca Ambientale	
	<p>Short Name: ISPRA</p> <p>ISPRA provides access to a number of Italian databases, among them</p>





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	<p>inland and marine waters, climate and weather and biodiversity</p> <p>Website: http://www.isprambiente.gov.it/en</p> <p>Direct Link to data (if available): http://www.isprambiente.gov.it/en/databases</p>
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Swedish Meteorological and Hydrological Institute	
	<p>Short Name: SMHI</p> <p>SMHI provides data from 5 Swedish icebreakers</p> <p>Website: www.smhi.se</p> <p>Direct Link to data (if available): http://www.emodnet-physics.eu</p> <p>Comments: Data available via EMODnet Physics.</p>

Turkish State Meteorological Service	
	<p>Short Name:</p> <p>The has a network of 78 marine platforms measuring various marine parameters</p> <p>Website: https://www.mgm.gov.tr/</p> <p>Direct Link to data: https://www.mgm.gov.tr/deniz/deniz-omgi.aspx</p> <p>Comments: Data only available in graphs</p>

IRELAND'S OPEN DATA PORTAL	
	<p>Short Name:</p> <p>Brief description</p> <p>Website: https://data.gov.ie/data</p> <p>Direct Link to data (if available):</p>

	<p>Comments: Open Data is about making data held by Irish public bodies available and easily accessible online for reuse and redistribution. The data.gov.ie portal brings datasets together in a single searchable website. Data.gov.ie is intended to provide easy access to datasets that are free to use, reuse, and redistribute.</p>
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Statoil- LoVe Ocean Observatory	
	<p>Short Name: LoVe</p> <p>Statoil's ocean observatory data portal providing data from ocean observatories deployed by Statoil, including archived datasets</p> <p>Website: http://love.statoil.com</p> <p>Direct Link to data (if available): http://love.statoil.com/form?locationid=HOVDEN</p>

Bermuda Atlantic Time-Series Study	
	<p>Short Name: BATS</p> <p>Deep-ocean time series. Provides hydrographic, biological and chemical parameters throughout the water column at sites within the Sargasso Sea but also provides links to from around the globe.</p> <p>Website: http://bats.bios.edu/</p> <p>Direct Link to data (if available): http://batsftp.bios.edu/</p>

	<p>Short Name: Brief description</p> <p>Website:</p> <p>Direct Link to data (if available):</p>

Comments:



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