

Overview of the product catalogue

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Stages of product publishing

Development of the product
Producing Product Information Document (PIDoc)
Creating metadata description in Sextant catalogue
Obtaining DOI for the product and for PIDoc
Activating product in Sextant - making it available to public



Temperature & Salinity Data Products

		A	Aggregated dataset		Climatology*		
		SDC	V1	SDO	C V2	SDC V1	SDC V2
Arctic Ocea	an						
Baltic Sea							
Black Sea							
Global Ocean			N				
Mediterranean Sea							
North Atlantic Ocean							
North Sea							
	Development	PIDoc	Sex	tant	DOI	Published	

*Based on data from SeaDataNet and external data sources: WOD and CORA



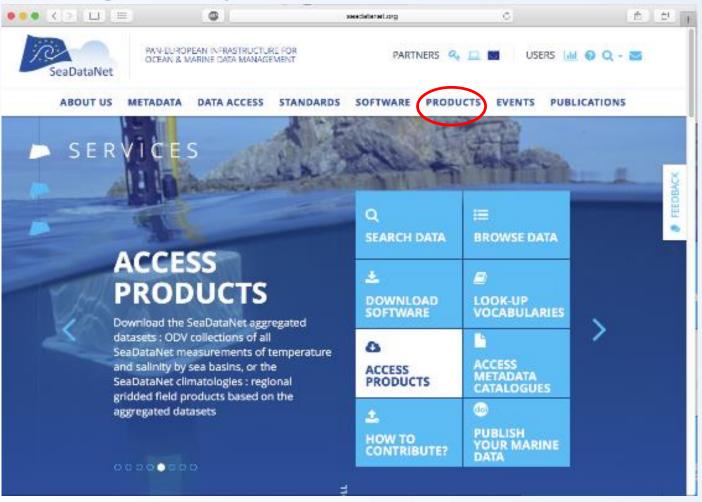
New Data Products

Product	Status
Baltic Sea: statistical estimates	
Black Sea: CIL Cold Content	
Global Ocean: mixed index, AOU	
Mediterranean Sea: MLD, Ocean Heat Content	
North Atlantic Ocean: MLD	
North Sea: statistical estimates	
Iberia-Ibiza Channel: Currents climatologies from HF radars	

Development PIDoc Sextant DOI Published

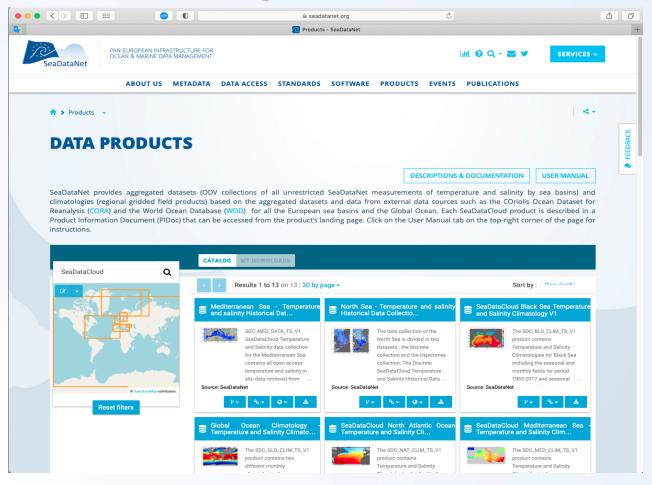


Accessing data products





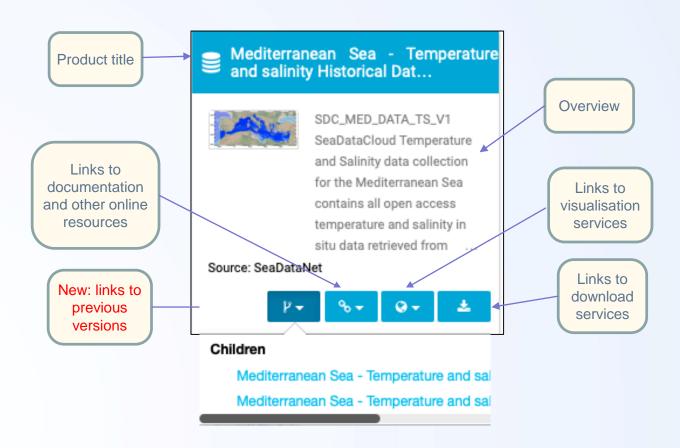
Sextant web catalogue





Product description in Sextant

In Sextant catalogue interface, each product is presented in an individual frame





Product description (metadata) in Sextant

Baltic Sea - Temperature and salinity Historical Data collection SeaDataCloud V1





IDENTIFICATION

DATA IDENTIFICATION

Title

Overview

Baltic Sea - Temperature and salinity Historical Data collection SeaDataCloud V1

The SeaDataCloud Temperature and Salinity historical data collection for the Baltic Sea includes open access in situ data on temperature and salinity of water column. The data were retrieved from the SeaDataNet infrastructure at the end of 2017. Data have been quality controlled according to the SeaDataNet2 project QC procedures in conjunction with the visual expert check using the ODV software. The final number of stations in the collection is 407456, containing around 13.7 million values for both temperature and salinity. The dataset format is ODV binary collection which you can read, analyse and export from with the ODV application provided by the Alfred Wegener institute at http://odv.awi.de/.

For data access please register at http://www.marine-id.org/.

SDC_BAL_DATA_TS_V1 English SeaDataNet 18 Apr 2018

External shortname Metadata language Credit Date (Creation)

INSPIRE THEME AND KEYWORDS

Topic category

GEMET - INSPIRE themes, version 1.0

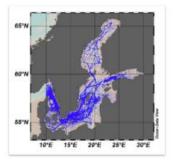
SeaVoX salt and fresh water body gazetteer

Oceans

Oceanographic geographical features

Bay of Bothnia Baltic Sea Gulf of Finland Gulf of Bothnia







Product DOI

Global Ocean Climatology - Temperature and Salinity Climatology V1

Date(s) 2019-06-18 (Creation)

Author(s): Kanwal Shahzadi ^{1 ™}, Nadia Pinardi ^{1 ™}, Vladislav Lyubartsev^{2 ™}, Simona Simoncelli ^{3 ™}, Marco

Zavatareli¹

Custodian(s): IFREMER / IDM / SISMER - Scientific Information Systems for the SEA®

Originator(s): NOAA / Wdc For Oceanography[®]

Resource provider(s): Affiliation(s)

Abstract

Lineage

Date

Alma Mater Studiorum - Universita Di Bologna

1: University of Bologna, Department of Physics and Astronomy (DIFA)

2 : Euro-Mediterranean Center on Climate Change CMCC

3 : Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Bologna

Credit SeaDataNet

Version 1.0

DOI 10.12770/f632d0d4-3373-43a4-a6be-d2109ebe0177

The SDC_GLO_CUM_TS_VT product contains two different monthly climatologies for temperature and salinity, SOC_GLO_CUM_TS_V1_1 and SOC_GLO_CUM_TS_V1_2 from the World Ocean Data (WOD) database. Only the basic quality control flag from the WDD are used. The climatology, V1_1, considers temperature and salinity profiles from Conductivity Depth Temperature (CTD) profilers, Ocean station data (OSD) and Moored busy data (MRB) along with Profiling Floats (PFL) from 1900 to 2017. The climatology, V1_2, utilizes only PFL data from 2003 to 2017. V1_1 considers depth layers from surface to 6000 m while V1_2 only from 0 to 2000 m. The gridded fields are computed using

DIVAnd (Data Interpolating Variational Analysis) version 2.3.1.

Keywords Oceanographic geographical features, Temperature of the water column, ISS-90 water temperature, Water body salinity, Pacific Ocean, Arctic Ocean, Allantic Ocean,

Indian Ocean

The data used as input for this product have been extracted from the World Ocean Database 2013 (https://www.nodc.nosa.gov/OCS/WOD/pr_word.html). Only basic quality control flags from the world ocean database have been used for this product. WOD has three types of quality flags i.e.

1-individual observation value flag whose value,

2-Profile value flag that is assigned during the computation of World Ocean Atlas,

3-Originator flag.

In this analysis, 1 and 2 are used with a quality flag value

Utilisation For data access please register at http://www.marine-id.org

https://sextant.ifremer.fr/eng/Data/Catalogue#/metadata/f632d0d4-3373-43a4-a6be-d2109ebe0177 Usage is subject to mandatory citation: "Reference to the resource]. This resource was generated in

framework of the SeaDataCloud project, EC H2020 grant #730960.*

Temporal Extent 1900-01-01 - 2017-12-31

ftp://ftp2ifremer.fr/public/seadatanet-global_oceantemperaturesalinity_climatologie/SDC_GLO_CLIM_TS_V1/

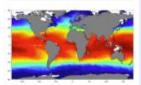
Download link



How to cite 6

Kanwal Shahzadi, Nadia Pinardi, Vladislav Lyubartsev, Simona Simoncelli, Marco Zavatarelli (2019). Global Ocean Climatology - Temperature and Salinity Climatology V1. https://doi.org/10.12770/f6320046-3373-43a4-a6be-d2109ebe0177 Access to data

Link to the data services and to the full metadataset





Is cited by

Shahzadi Kanwai, Pinardi Nadia, Lyubartsev Valoisiav, Zavatarelli Marco, Simoncelli Simona (2019), SeaDataCloud Temperature and Salinity Climatology for the Global Ocean (version 1). Product Information Document (PIDoc).





Product Information Document (PIDoc)

Aggregated datasets

- General description of data collection
- QC procedures
- Quality assessment results
- Technical specifications
- Statistics per data originator/custodian

Climatology

- Source datasets
- Methodology
- Results
- Consistency analysis
- Technical specifications



Product visualisation

Goals

- provide user with a quick hint on what is the product about,
- provide user with the possibility for a deeper view of the product and even for its online analysis.

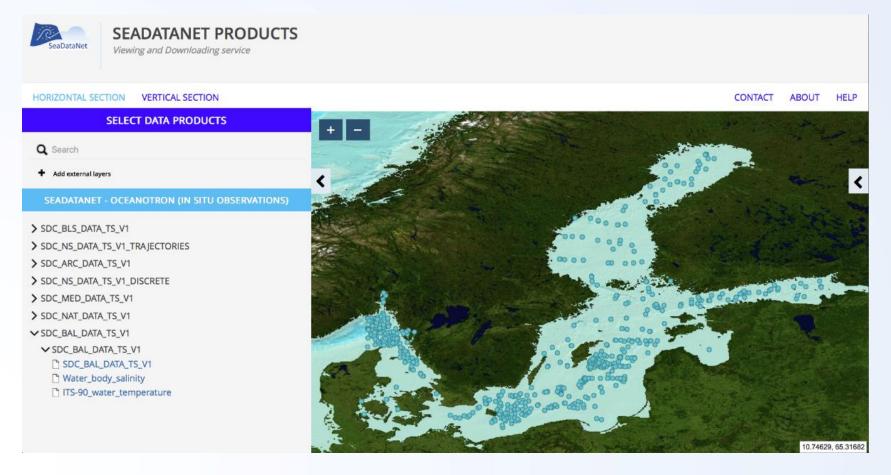
Tools

- Oceanotron the tool to visualise observations data from the aggregated datasets.
- OceanBrowser the web-service that allows to visualise gridded 4-D fields on-line
- ERDDAP the web-service that allows to subsample and preview data products on-line



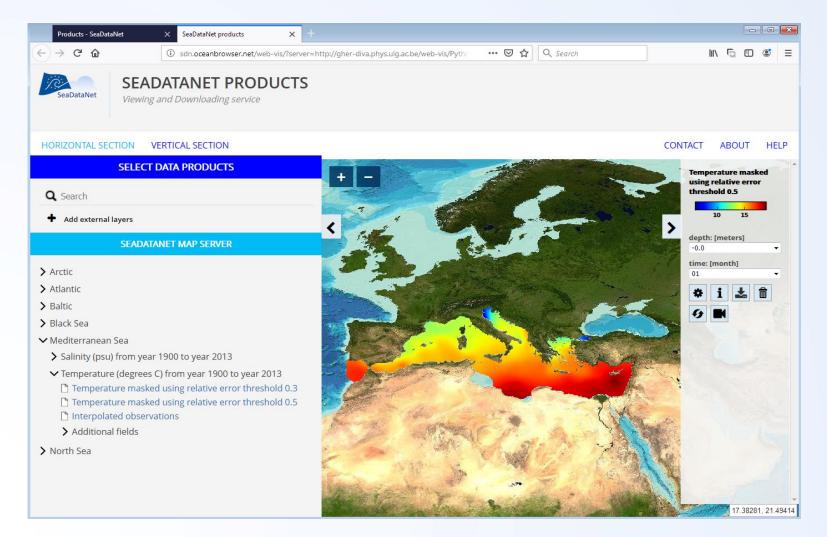
Data Collection in Oceanotron:

Distribution of salinity observations in Baltic sea at 50m in 2000





Temperature field in OceanBrowser



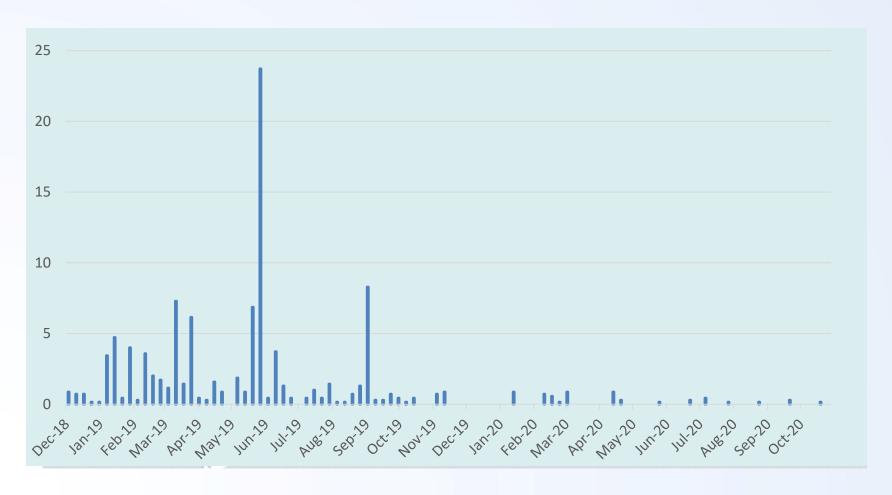


Climatology via ERDDAP

ERDDAP Easier access to scientific data							
ERDDAP > griddap > Make A Graph @							
Dataset Title: SDC_GlobalOcean_Climatology_TS_V1_1 Institution: SeaDataNet (Dataset ID: SDC_GLO_CLIM_TS_V1_1) Information: Summary License FGDC ISO 19115 Metadata Background Data Access Form							
Graph Type: surface \$\tilde{\tiide{\tilde{\tiide{\tilde{\tiide{\tilde{\tiide{\tiide{\tilde{\tilde{\tilde{\tilde{\tilde{\t	Click on the map to specify a new center point. Zoom: Data Out 8x Out 2x Out In In 2x In 8x						
Dimensions	24						
depth (m) specify just 1 value → 0.0 latitude (degrees north) -80.0 -							
longitude (degrees_east) • -180.0 + 179.75	-180° -135° -90° -45° 0° 45° 90° 135°						
Graph Settings Color Bar: Maximum: Maximum: Scale: N Sections: N Sections: State State	-10 -5 0 5 10 15 20 25 30 35 40 sea water temperature (Degree ()) SDC GlobalOcean Climatology T5 V1 1 (1958-12-16700:00:002, Depth=0.0 m) Data courtesy of SeaDataNet						
Draw land mask: Y Axis Minimum: Maximum: Ascending \$							
Redraw the Graph (Please be patient. It may take a while to get the data.) Optional:							
Then set the File Type: htmlTable \$ (File Type information) and Download the Data or an Image or view the URL: http://www.ifremer.fr/erddap/griddap/SDC_GLO_CLIM_TS_V1_1.htmlTable?Temper. (Documentation / Bypass this form ?)							
7,							



Product downloads statistics



Thank you