

SeaDataNet : Tunisian marine data management

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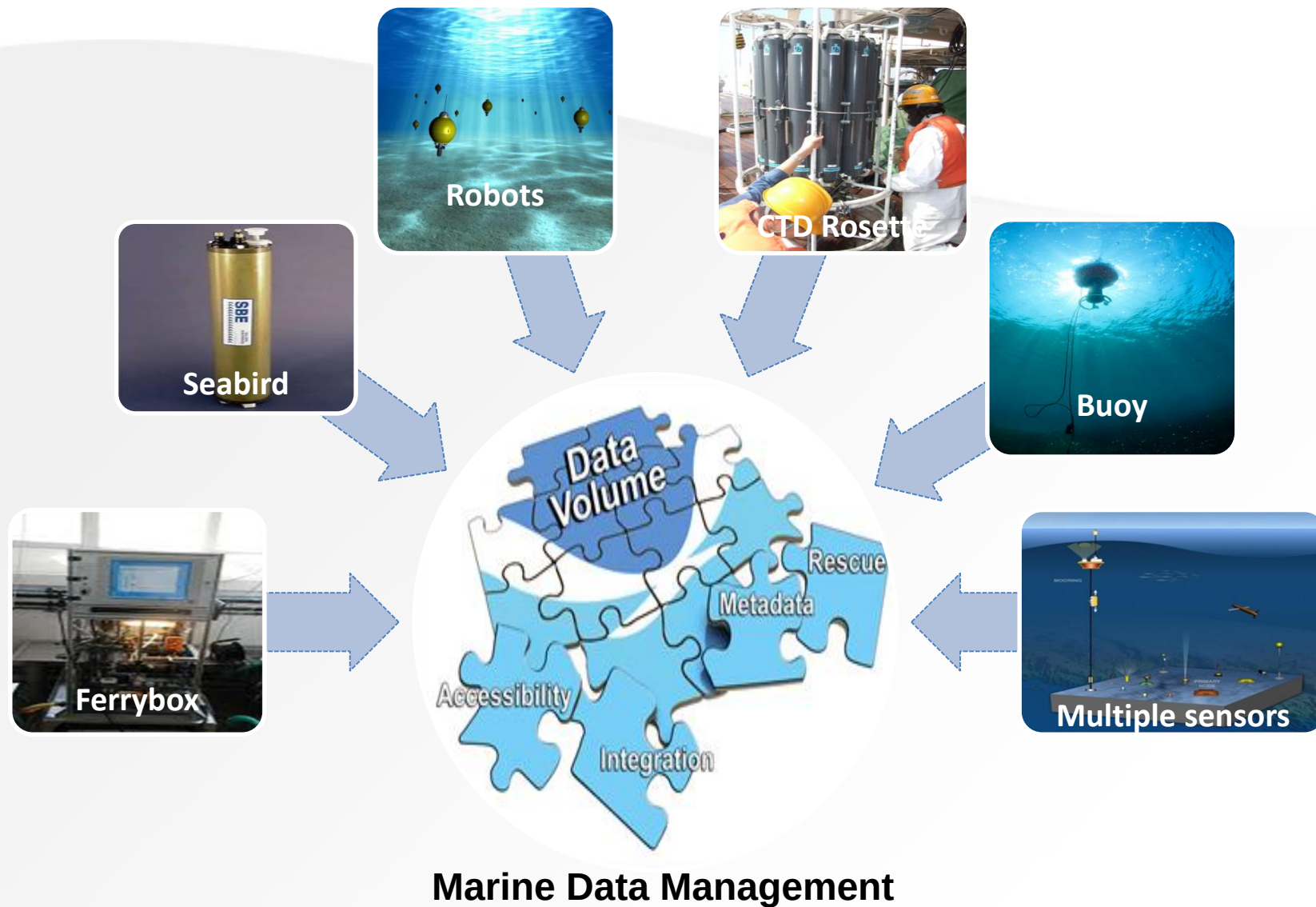
Sousse on, 22nd December 2014

E-mail: lahbib_soumaya@yahoo.fr

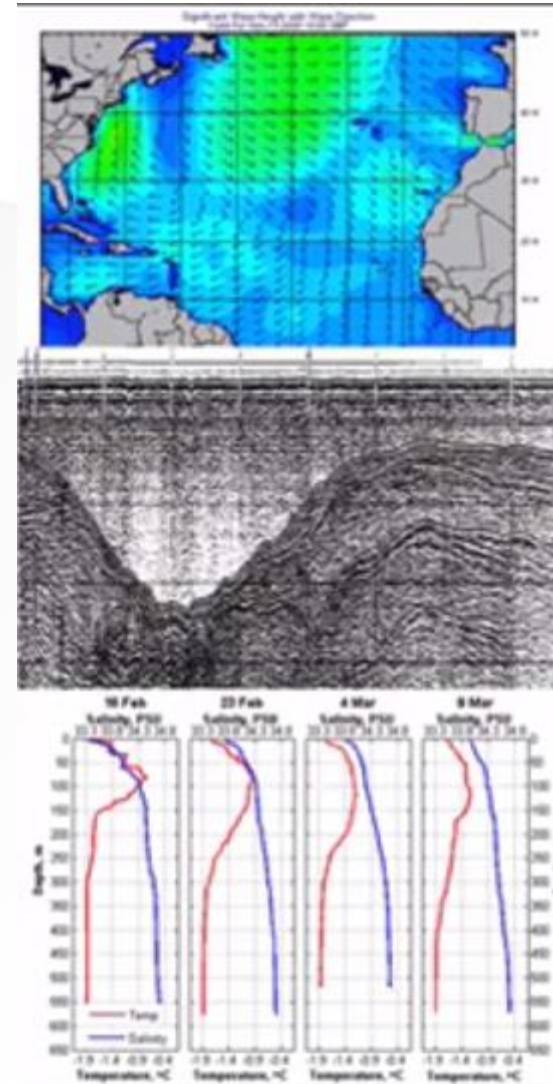


PLAN

- I. Introduction
- II. SeaDataNet Project
- III. INSTM involvement in SDN
- IV. Conclusion



- Barriers to re-use marine data
 - Format
 - Coordinate system
 - Standards
 - Policy exchange
 - Units
 - Parameter codes
 - Vocabulary



II. SeaDataNet



Overview

- SDN is a standardized system for managing a large and diverse data sets collected by oceanographic fleets and automatic observation systems.
- SDN links 90 NODC from 35 countries riparian to all European seas.
- A major objective and challenge in SeaDataNet is to provide an integrated and harmonized overview and access to QC data and indexed data sets using a distributed network approach.
- SDN contributes to build research excellence in Europe and North Africa.

Marine Data Centres
(in situ NODCs and satellite DC providing Transnational acces)

Metadata

Data

Observations



Cruise Summary Reports
CSR



Permanent Observing Systems
EDIOS



Marine Data Sets General Descriptions
EDMED

Data management

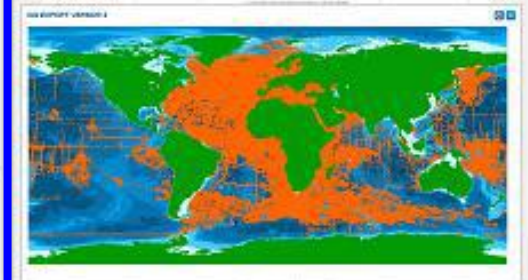


Marine Research Organizations
EDMO



Marine Research Projects
EDMRP

Data



Common Data Index Detailed Description
CDI



Pre-processing and convert any ASCII format to SDN formats (ODV or Medatlas or NetCDF) for timeseries, profiles and trajectories observations.



Prepare XML metadata files for the SeaDataNet directories EDMED, CSR, EDMERP, CDI and EDIOS.

Download Manager

Handles all communication between the data centre system and the RSM service which is overseeing the processing and administration of all requests for data sets



Ocean Data View



<http://odv.awi.de>

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Provides interactive exploration, analysis and visualization of oceanographic and other geo-referenced data sets

III. INSTM involvement in SDN

- **LMM equipment:**



HANNIBAL R/V



Seabird 9



ADCP Sontek

- **Work-packages:**

WP2.1: participation to plenaries meetings

WP3.2, 3.3: participation to trainings

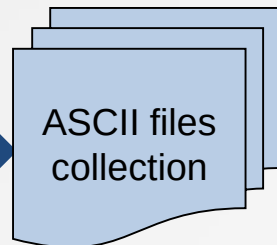
WP4.3: installation of tools for metadata

WP5.2: installation of tools for data

1. Workflow



Data acquisition



Check errors

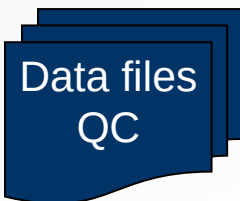
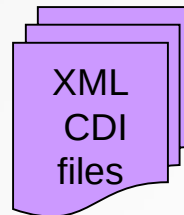
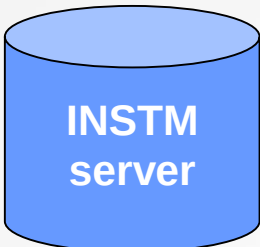
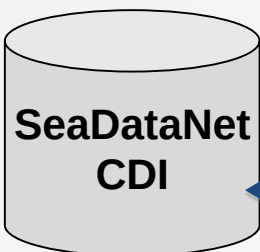


Processing

SDN format files

CDI summary CSV file

Coupling table



Quality control



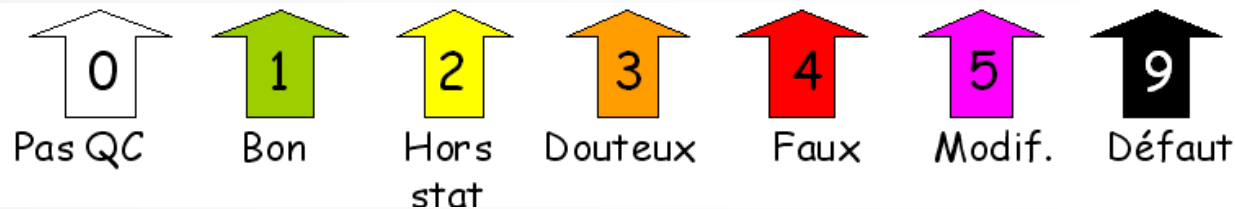
Accessible
1983 --> 1995 :
by negotiation
1995 --> 2003
No Access
> 2003

Quality control

- The QC procedures for oceanographic data management according to **IOC, ICES/CIEM** and **EU** recommendations include **automatic** and **visual** controls on the data and their metadata.

- ✓ **QC0 : Check the format**
- ✓ **QC1 : Check of the cruise and the station metadata**
- ✓ **QC2 : Check of Data points**

- Validation or correction is made manually to the QC flags and **NOT** to the data.
- In case of uncertainties, the data originator is contacted.



Cruise Header

Station Header

Data

*TI881995SA051 TU881995SA051 SA051995 88SA Salammbô

15/05/1995 24/05/1995 Mediterranean Sea - Western basin

88 Laboratoire Milieu Marin

Cherif SAMMARI

Project=SALTO

Regional Archiving= TI

Availability=P

Data Type=H10 n= 15 QC=Y

Data Type=H21 n= 15 QC=Y

COMMENT

DM=P T S DOX1 DENS DEPH controlled with MEDATLAS 2002 Medit.

*TI881995SA05100001 Data Type=H10

*DATE=15051995 TIME=1429 LAT=N37 23.01 LON=E009 33.20 DEPTH=122 QC=1111

*NB PARAMETERS=05 RECORD LINES=00053

*PRES SEA PRESSURE sea surface=0 (decibar=10000 pascals) def.= -999.9

*TEMP SEA TEMPERATURE (Celsius degree) def.= 99.999

*PSAL PRACTICAL SALINITY (P.S.U.) def.= 99.999

*DOX1 DISSOLVED OXYGEN (ml/l) def.= 99.99

*DEPH DEPTH BELOW SEA SURFACE (meter) def.= -999.9

*GLOBAL PROFILE QUALITY FLAG=1 GLOBAL PARAMETERS QC FLAGS=11111

*DC HISTORY=Sea-Bird SBE 9

*

*DM HISTORY=

*

*COMMENT

*SDN_parameter_mapping

*<subject>SDN:LOCAL:PRES</subject><object>SDN:P011::PRESR01</object><units>SDN:P061::UPDB</units>

*<subject>SDN:LOCAL:TEMP</subject><object>SDN:P011::TEMPR01</object><units>SDN:P061::UPAA</units>

*<subject>SDN:LOCAL:PSAL</subject><object>SDN:P011::PSLTZZ01</object><units>SDN:P061::UUUU</units>

*<subject>SDN:LOCAL:DOX1</subject><object>SDN:P011::DOXYZZX</object><units>SDN:P061::UMLL</units>

*<subject>SDN:LOCAL:DEPH</subject><object>SDN:P011::ADEPZZ01</object><units>SDN:P061::ULAA</units>

*EDMO_CODE=1232

*LOCAL_CDI_ID=TI881995SA051_00001_H10

*SURFACE SAMPLES=

*

*PRES TEMP PSAL DOX1 DEPH

4.0 17.749 37.095 5.32 4.0 11111

6.0 17.757 37.094 5.32 6.0 11111

8.0 17.733 37.094 5.32 7.9 11111

10.0 17.733 37.094 5.32 9.1 11111

12.0 17.690 37.093 5.33 11.1 11111

14.0 17.595 37.088 5.34 13.1 11111

16.0 17.161 37.083 5.38 15.1 11111

18.0 17.008 37.082 5.40 17.1 11111

20.0 16.901 37.086 5.41 19.1 11111

22.0 16.804 37.092 5.42 21.1 11111

24.0 16.724 37.097 5.43 23.1 11111

26.0 16.704 37.099 5.43 25.1 11111

28.0 16.653 37.101 5.44 27.1 11111

30.0 16.600 37.099 5.44 29.1 11111

32.0 16.578 37.097 5.44 31.1 11111

34.0 16.557 37.092 5.45 33.1 11111

36.0 16.518 37.088 5.45 35.1 11111

38.0 16.533 37.096 5.45 37.1 11111

40.0 16.564 37.109 5.44 39.1 11111

42.0 16.569 37.112 5.44 41.1 11111

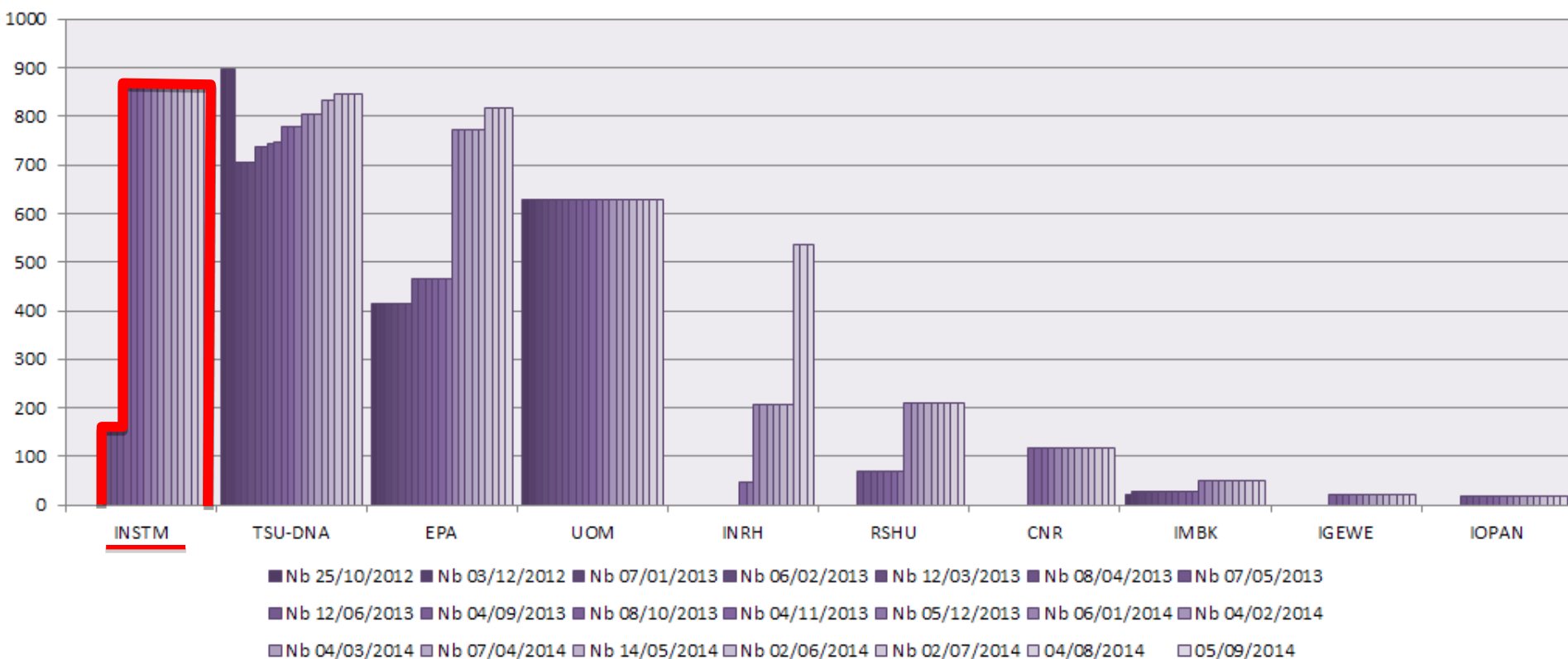
44.0 16.566 37.116 5.44 43.1 11111

TI881995SA051

2.INSTM catalogues

Catalogue	Total number
EDMED	1
EDMERP	33
EDMO	1
EDIOS programmes	0
EDIOS Series	0
CSR	96
CDI	867

Partners with less than 1 000 CDI entries



2. Data Dissimination (How to request data)

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

http://seadatanet.maris2.nl/v_cdi_v3/search.asp

SEADATANET COMMON DATA INDEX (CDI) V2

Tools

Enlarge Help
Position Index

Datasets 0
Basket Reset

SeaDataNet

Add to basket

Summary Zoom to selected Export result Store query Refine query New query Found 867 Show (1-20) Previous Next 20

#	Data set name	Country	Start date	Variables measured	Instrument / gear type	Show
☐	TU882009GH031 2009	Tunisia	20090316	Administration and dimensions > Administration and dimensions Chemical oceanography > Dissolved gases Physical oceanography > Water column temperature and salinity	CTD	
☐	TU882009GH031 2009	Tunisia	20090316	Administration and dimensions > Administration and dimensions Chemical oceanography > Dissolved gases Physical oceanography > Water column temperature and salinity	CTD	
☐	TU882009GH031 2009	Tunisia	20090317	Administration and dimensions > Administration and dimensions Chemical oceanography > Dissolved gases Physical oceanography > Water column temperature and salinity	CTD	
☐	TU882009GH031 2009	Tunisia	20090317	Administration and dimensions > Administration and dimensions Chemical oceanography > Dissolved gases Physical oceanography > Water column temperature and salinity	CTD	
☐	TU882009GH031 2009	Tunisia	20090316	Administration and dimensions	CTD	

Details

WHAT?

Data set name: TU882009GH031 2009
Discipline: Administration and dimensions
Chemical oceanography
Physical oceanography
Category: Administration and dimensions
Dissolved gases
Water column temperature and salinity
Variables measured: Dissolved oxygen parameters in the water column
Salinity of the water column
Temperature of the water column
Vertical spatial coordinates
Abstract: Seabird CTD (calibration every year by constructor)
Data format: MEDATLAS ASCII Version 2.0
Ocean Data View ASCII input Version 0.4
Data size: 0.01
Data set creation date: 20130722

WHERE?

Map

Latitude 1: 36.6605
Longitude 1: 11.249833
Measuring area type: point

WHEN?

Start date: 20090316
Start time: 13:53:00
End date: 20090316
End time: 13:53:00

HOW?

Instrument / gear type: CTD
Platform type: research vessel
Cruise name: TU882009GH031 2009
Alternative cruise name: T1882009GH031
Cruise start date: 20090120
Station name: 24
Alternative station name: 24
Station start date: 20090316

WHO?

Originator: Institut National des Sciences et Technologies de la Mer - INSTM
Data Holding centre: Institut National des Sciences et Technologies de la Mer - INSTM

Access to data (CDI) : step 1 data discovery



SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

Overview Metadata **Data Access** Standards & Software Products Events Publications

[Data policy](#)
[Common Data Index \(CDI\)](#)
[User registration](#)
[Request Status Manager \(RSM\)](#)
[How to contribute?](#)

News

[New article on SeaDataNet](#)
In the Canadian and Oceanographic Society (CMOS) bulletin

[Click here for direct access to data \(search\)](#)

[Click here for direct access to data \(browse\)](#)

DATA ACCESS SERVICES

Search Interface:

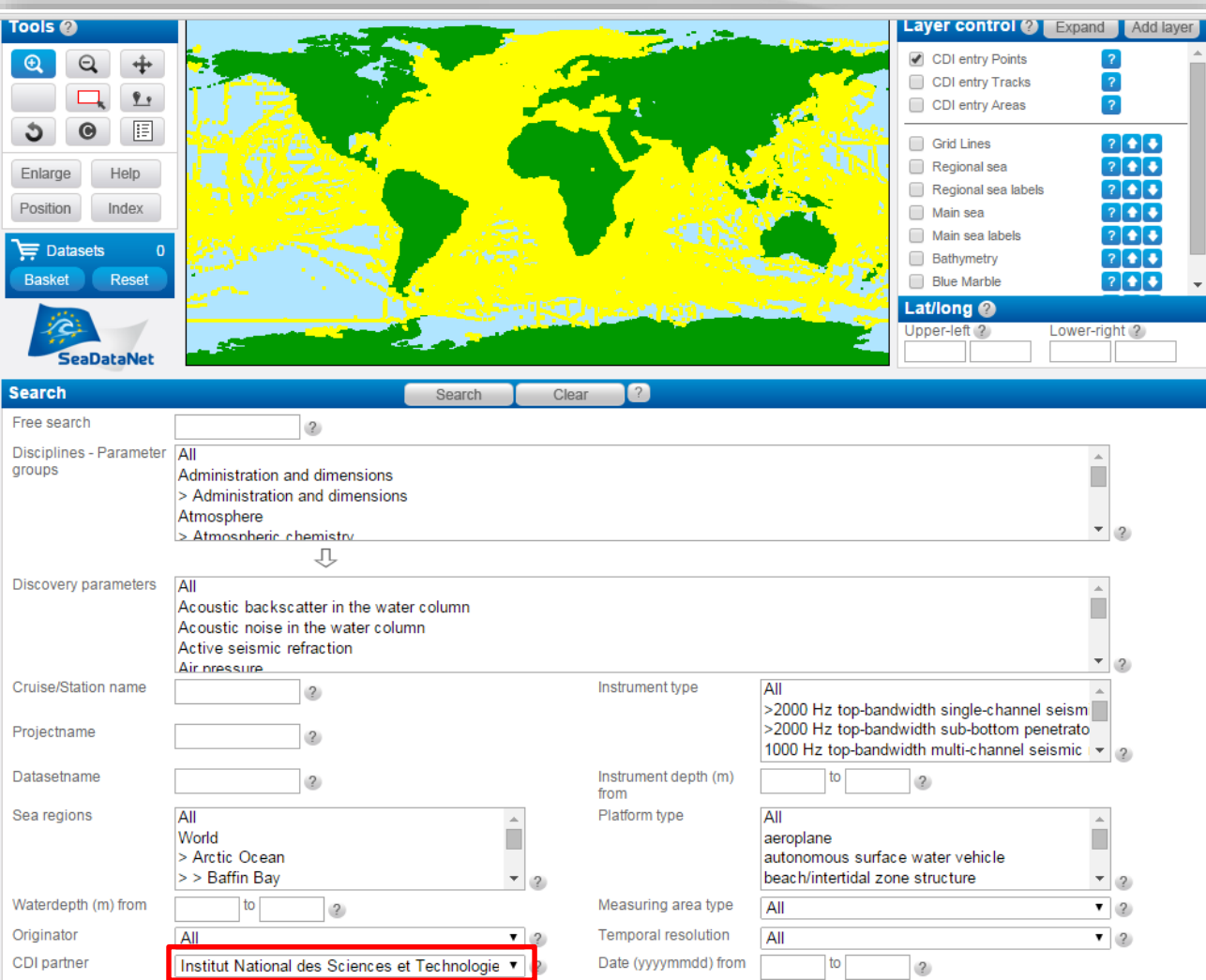
- Tools: Map, Layers, Search, etc.
- Layer control: Country, Region, etc.
- Search: Enter search term, Search button
- Discovery parameters:
 - Geographic: Parameter group
 - Discovery parameters:
 - Acoustic backscatter in the water column
 - Acoustic noise in the water column
 - Active acoustic reflections
 - Atmospheric chemistry
- Classification:
 - Parameter type: All
 - Instrument type: All
 - Platform type: All
 - Measuring area type: All
 - Temporal resolution: All
 - Date (from/to): All
 - Location: All
 - Access restriction: All

Browse Interface:

- Search by:
 - Geographical box:
 - Latitude: 50.000000
 - Longitude: -10.000000
 - Time period:
 - Start: 2000-01-01
 - End: 2010-12-31
 - Measuring area type:
 - Point: 1000000
 - Line: 1000000
 - Area: 1000000
 - Parameter categories:
 - Water column: 1000000
 - Seafloor and benthos: 1000000
 - Atmosphere: 1000000
 - Coastal zone: 1000000
 - Ice: 1000000
 - Other: 1000000
 - Disciplines:
 - Physical oceanography: 1000000
 - Chemical oceanography: 1000000
 - Biological oceanography: 1000000
 - Atmospheric science: 1000000
 - Geology: 1000000
 - Other: 1000000
 - Instrument / gear type:
 - CTD: 1000000
 - Other: 1000000
- Results table:

Item	Latitude	Longitude	Time period	Measuring area type	Parameter categories	Disciplines	Instrument / gear type
1	50.000000	-10.000000	2000-01-01 to 2010-12-31	Point	Water column	Physical oceanography	CTD
2	50.000000	-10.000000	2000-01-01 to 2010-12-31	Point	Seafloor and benthos	Physical oceanography	CTD
3	50.000000	-10.000000	2000-01-01 to 2010-12-31	Point	Atmosphere	Atmospheric science	CTD
4	50.000000	-10.000000	2000-01-01 to 2010-12-31	Point	Coastal zone	Physical oceanography	CTD
5	50.000000	-10.000000	2000-01-01 to 2010-12-31	Point	Ice	Physical oceanography	CTD

Access to data (CDI) : step 1 data discovery



The screenshot shows the SeaDataNet data discovery interface. The top section features a world map with yellow and green highlights, indicating data coverage. To the left of the map are navigation tools (search, zoom, pan, etc.) and a 'Tools' panel. To the right is a 'Layer control' panel with checkboxes for 'CDI entry Points', 'CDI entry Tracks', and 'CDI entry Areas', and a 'Lat/long' section for specifying search coordinates. Below the map is a 'Search' section with a 'Free search' input field and a 'Search' button. The main search area is divided into several sections: 'Disciplines - Parameter groups' (with a dropdown menu), 'Discovery parameters' (with a list of parameters), 'Cruise/Station name' (with an input field), 'Projectname' (with an input field), 'Datasetname' (with an input field), 'Sea regions' (with a dropdown menu), 'Waterdepth (m) from' (with input fields), 'Originator' (with a dropdown menu), 'CDI partner' (with a dropdown menu), 'Instrument type' (with a dropdown menu), 'Instrument depth (m) from' (with input fields), 'Platform type' (with a dropdown menu), 'Measuring area type' (with a dropdown menu), 'Temporal resolution' (with a dropdown menu), and 'Date (yyyymmdd) from' (with input fields). The 'CDI partner' dropdown menu is highlighted with a red box, showing 'Institut National des Sciences et Technologie' as the selected option.

Tools ?

Enlarge Help
Position Index

Datasets 0
Basket Reset

Search

Free search

Disciplines - Parameter groups

Discovery parameters

Cruise/Station name

Projectname

Datasetname

Sea regions

Waterdepth (m) from

Originator

CDI partner

Instrument type

Instrument depth (m) from

Platform type

Measuring area type

Temporal resolution

Date (yyyymmdd) from

Layer control ? Expand Add layer

☒ CDI entry Points ?
☐ CDI entry Tracks ?
☐ CDI entry Areas ?

☐ Grid Lines ?
☐ Regional sea ?
☐ Regional sea labels ?
☐ Main sea ?
☐ Main sea labels ?
☐ Bathymetry ?
☐ Blue Marble ?

Lat/long ?

Upper-left ? Lower-right ?

Institut National des Sciences et Technologie

Access to data (CDI) : step 1 data discovery

SEADATANET COMMON DATA INDEX (CDI) V3

Tools ?













[Enlarge](#)
[Help](#)

[Position](#)
[Index](#)

Datasets 0

[Basket](#)
[Reset](#)





Layer control ? [Expand](#) [Add layer](#)

☐ CDI entry Points [?](#)
☐ CDI entry Tracks [?](#)
☐ CDI entry Areas [?](#)

☐ Grid Lines [?](#) [↑](#) [↓](#)
☐ Regional sea [?](#) [↑](#) [↓](#)
☐ Regional sea labels [?](#) [↑](#) [↓](#)
☐ Main sea [?](#) [↑](#) [↓](#)
☐ Main sea labels [?](#) [↑](#) [↓](#)

☒ Display all selected records
☐ Only selected records in results list

Listing results

☒ 20
 ☐ 100
 ☐ 1000 records
 [Go](#)

[Add to basket](#)

[Timeseries on](#)
[Summary](#)
[Zoom to selected](#)
[Export result](#)
[Store query](#)

[Refine query](#) | [New query](#) | Found 867 | Show (1-20) | Previous | Next 20

☐ #	Data set name ⇅	Country ⇅	Start date ⇅	Disciplines - Parameter groups	Instrument / gear type ⇅	Show
☐	TU882009GH031 2009	Tunisia	20090316	Administration and dimensions > Administration and dimensions Chemical oceanography > Dissolved gases Physical oceanography > Water column temperature and salinity	CTD	
☐	TU882009GH031 2009	Tunisia	20090316	Administration and dimensions > Administration and dimensions Chemical oceanography > Dissolved gases Physical oceanography > Water column temperature and salinity	CTD	
☐	TU882009GH031 2009	Tunisia	20090317	Administration and dimensions > Administration and dimensions Chemical oceanography > Dissolved gases Physical oceanography > Water column temperature and salinity	CTD	

Access to data (CDI) : step 2 shopping

seadatanet.maris2.nl/v_cdi_v3/result.asp#

SEADATANET COMMON DATA INDEX (CDI) V3

Tools

Enlarge Help
Position Index

Datasets 0
Basket Reset

Layer control Expand Add layer

☐ CDI entry Points ?
☐ CDI entry Tracks ?
☐ CDI entry Areas ?

☐ Grid Lines ?
☐ Regional sea ?
☐ Regional sea labels ?
☐ Main sea ?
☐ Main sea labels ?

☒ Display all selected records
☐ Only selected records in results list

Listing results

☒ 20 ☐ 100 ☐ 1000 records Go

Add to basket Timeseries on Summary Zoom to selected Export result Store query

[Refine query](#) | [New query](#) | Found 867 | Show (1-20) | Previous | [Next 20](#)

☐ #	Data set name	Country	Start date	Disciplines - Parameter groups	Instrument / gear type	Show
☒	TU881995SI041	Tunisia	19950424	Administration and dimensions > Administration and dimensions Physical oceanography > Water column temperature and salinity	CTD	
☒	TU881995SI041	Tunisia	19950424	Administration and dimensions > Administration and dimensions Physical oceanography > Water column temperature and salinity	CTD	
☒	TU881995SI041	Tunisia	19950424	Administration and dimensions > Administration and dimensions Physical oceanography > Water column temperature and salinity	CTD	
☒	TU881995SI041	Tunisia	19950424	Administration and dimensions > Administration and dimensions Physical oceanography > Water column temperature and salinity	CTD	
☒	TU881995SI041	Tunisia	19950424	Administration and dimensions > Administration and dimensions Physical oceanography > Water column temperature and salinity	CTD	
☐	TU881995SA051 SA051995	Tunisia	19950515	Administration and dimensions > Administration and dimensions Chemical oceanography > Dissolved gases Physical oceanography	CTD	

Access to data (CDI) : step 2 shopping

Data Access - Seadatanet x
SeaDataNet Common Dat x
Google x

seadatanet.maris2.nl/v_cdi_v3/result.asp#

SEADATANET COMMON DATA INDEX (CDI) V3

Tools ?

Layer control ? Expand Add layer

CDI entry Points ?

SHOPPING BASKET



PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

REQUESTING DATASETS

During this session you have selected a number of data sets. You can search and shop for more, up to 10.000 data sets, or continue the shopping dialogue by submitting your request list and having it processed. When submitting you will have to logon with your user registration details or register yourself first. Thereafter you can submit your request for further processing. You will then be notified by e-mail when and where you can follow the processing of your request list. This will be arranged by the Request Status Manager (RSM) service which also requires logon with your user registration details.

IMPORTANT NOTICE

Downloading of data sets is only possible for registered users.
Access to data sets might be restricted. In that case your request will be handled by the contact person of the Data Centre managing the specific data sets.
You will be able to follow the progress of all your requests via your personal account in the Request Status Manager (RSM), using your user registration details.

Search for more Cancel

Submit request list

If you would like to continue searching (to add more to your request list) click **Search for more**.
If you would like to cancel your requests (to empty your request list) click **Cancel**.
If you are satisfied with your request list then click on **Submit order**.

The number of data requests per shopping session has a maximum of 10000 data sets.

CDI-record id	Dataset Name	Status
1584935	TU881995SI041	unrestricted
1584936	TU881995SI041	unrestricted
1584937	TU881995SI041	unrestricted
1584938	TU881995SI041	unrestricted
1584939	TU881995SI041	unrestricted

Access to data (CDI) : step 2 shopping

Data Access - Seadatanet2 x SeaDataNet Common Dat x Google x

seadatanet.maris2.nl/v_cdi_v3/result.asp#

SEADATANET COMMON DATA INDEX (CDI) V3

Tools ?

Layer control ? Expand Add layer

CDI entry Points ?

SHOPPING BASKET



PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

Operated in cooperation with






Entrez votre identifiant et
votre mot de passe.

Pour des raisons de sécurité, veuillez vous déconnecter
et fermer votre navigateur lorsque vous avez fini
d'accéder aux services authentifiés.

Identifiant:

Mot de passe:

☐ Prévenez-moi avant d'accéder à d'autres services.

[I want to register](#) - [I forgot my password](#) - [I want to check/change my personal information](#)

☐	TU881995SA051 SA051995	Tunisia	19950515	Administration and dimensions > Administration and dimensions Chemical oceanography	CTD	
--------------------------	------------------------	---------	----------	---	-----	---

Access to data (CDI) : step 2 shopping

ta Access - Seadatanet x SeaDataNet Common Dat x (14 non lus) - lahbib_soum x

seadatanet.maris2.nl/v_cdi_v3/result.asp#

SEADATANET COMMON DATA INDEX (CDI) V3

Tools ?

Layer control ? Expand Add layer

CDI entry Points ?

SHOPPING BASKET



PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

CONFIRMATION OF YOUR REQUEST LIST

Organisation	INSTM
Contact name	Ms soumaya LAHBIB
Contact email	lahbib_soumaya@yahoo.fr
Address	
Zipcode / City	/
Country	Tunisia
Telephone	
Role IDs	SDNR03;SDNR07
Role names	Academic;partner

Please motivate why you want to have access to these data sets and for what purpose.

Text 496

Test

Access to data (CDI) : step 3 downloading

Data Access - Seadatanet... x
SeaDataNet Common Dat... x
SEADATANET RSM x
(15 non lus) - lahbib_sour... x

seadatanet.maris2.nl/v_rsm/content.asp?screen=0

Home Help Logout

Request Status Manager



PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

Operated in cooperation with







Overview of your download requests and processing per Data Centre

| FOUND 4 | CURRENT | PREVIOUS | NEXT

Data centre ⇅	Country ⇅	Status of dataset requests				
		Approval pending ⇅	Ready for user action ⇅	User action completed ⇅	Access denied ⇅	All ⇅
ISPRA-Institute for Environmental Protection and Research	Italy			23		23
Institut National des Sciences et Technologies de la Mer – INSTM	Tunisia	5		40	1	46
ENEA Centro Ricerche Ambiente Marino - La Spezia	Italy			123		123
OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale), Division of Oceanography	Italy			120	143	263

Access to data (CDI) : step 3 downloading

Data Access - Seadatanet: x SeaDataNet Common Dat x SEADATANET RSM x (14 non lus) - lahbib_soum x

seadatanet.maris2.nl/v_rsm/content.asp?screen=4

Request Status Manager

Home Help Logout

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

Operated in cooperation with

Geo-Seas Black Sea SCENE COP IRE EMODnet micro3

Overview of outstanding download requests and processing status for all users of your Data Centre

| 25 50 100 1000 RECORDS Go | FOUND 3 | CURRENT | PREVIOUS | NEXT

User name	User role	Waiting for automatic processing	To be discussed	Ready for user action	All
Dr Alexey KHALIULIN - khaliulin@mhi-mist.sevsky.net	SDNR01;SDNR03;SDNR07		194	23	217
Mr Flavian Gheorghe - flavian@maris.nl	SDNR03;SDNR07			20	20
Ms soumaya LAHBIB - lahbib_soumaya@yahoo.fr	SDNR03;SDNR07	5			5

Access to data (CDI) : step 3 downloading

Data Access - Seadatanet2 x SeaDataNet Common Dat x SEADATANET RSM x (14 non lus) - lahbib_soun x

seadatanet.maris2.nl/v_rsm/content.asp?viewing=&view=2&screen=8&user=ak1ee4d

Home Help Logout

Request Status Manager

Search

Originator All

Portal All

Restriction All

Request date (yyyy-mm-dd) from to

Last update (yyyy-mm-dd) from to

Search Reset

Operated in cooperation

SeaDataNet Geo-Seas Black Sea SCENE EODnet micro3

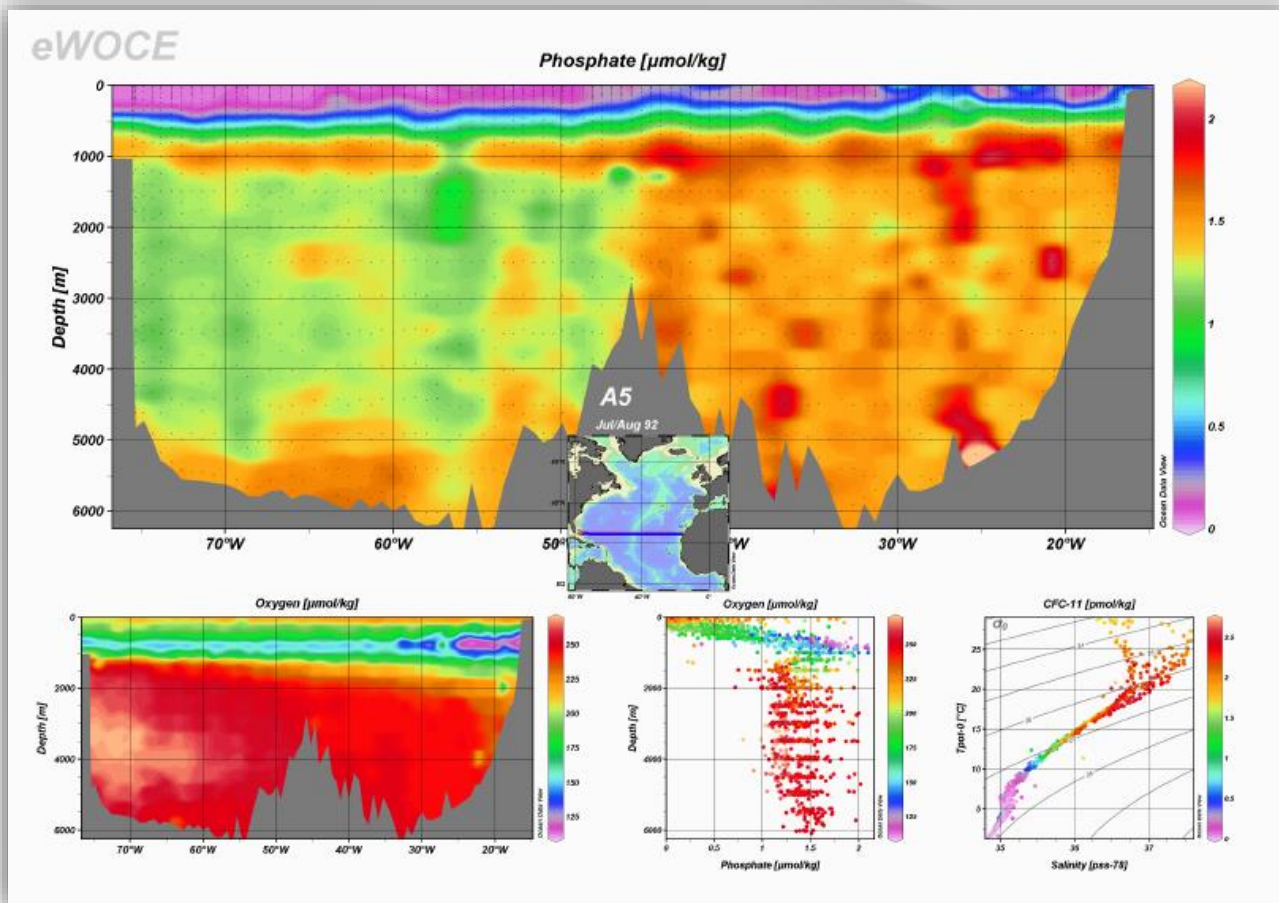
Downloading to be discussed for selected user
Enter decisions for given requests of selected user

25 50 100 RECORDS Go Update FOUND 194 SHOW (1-25) PREVIOUS NEXT 25 Back

Dr Alexey KHALIULIN - khalikuln@mhi-mist.sevsky.net - ak1ee4d Status: To be discussed

Dataset CDI-ID	LOCAL_CDI_ID	Dataset name	Request-ID	Request-key	Request date	Last update	Format	Approved for downloading	Reason
1585239	TI882003SI101_00012_H10	TU882003SI101 SI102003	5639456	9478	2014-11-28	2014-11-28	ODV	☐ Yes ☐ No	
1585238	TI882003SI101_00011_H10	TU882003SI101 SI102003	5639455	9478	2014-11-28	2014-11-28	ODV	☐ Yes ☐ No	
1585237	TI882003SI101_00010_H10	TU882003SI101 SI102003	5639454	9478	2014-11-28	2014-11-28	ODV	☐ Yes ☐ No	
1585236	TI882003SI101_00009_H10	TU882003SI101 SI102003	5639453	9478	2014-11-28	2014-11-28	ODV	☐ Yes ☐ No	

Access to data (CDI) : step 4 viewing (ODV+DIVA)



Access to data (CDI) : step 4 viewing (ODV+DIVA)

Upload

Grid

Analysis

Statistics

Download analysis

Link or embed

Report a problem

Help

Upload observation

Text file

ODV4

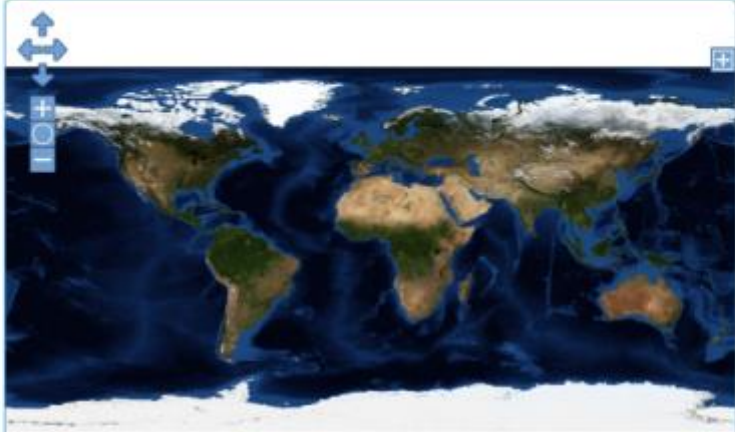
OSV4 File:

Name of variable:

Depth (m):

Time range:

(YYYY-MM-DD)

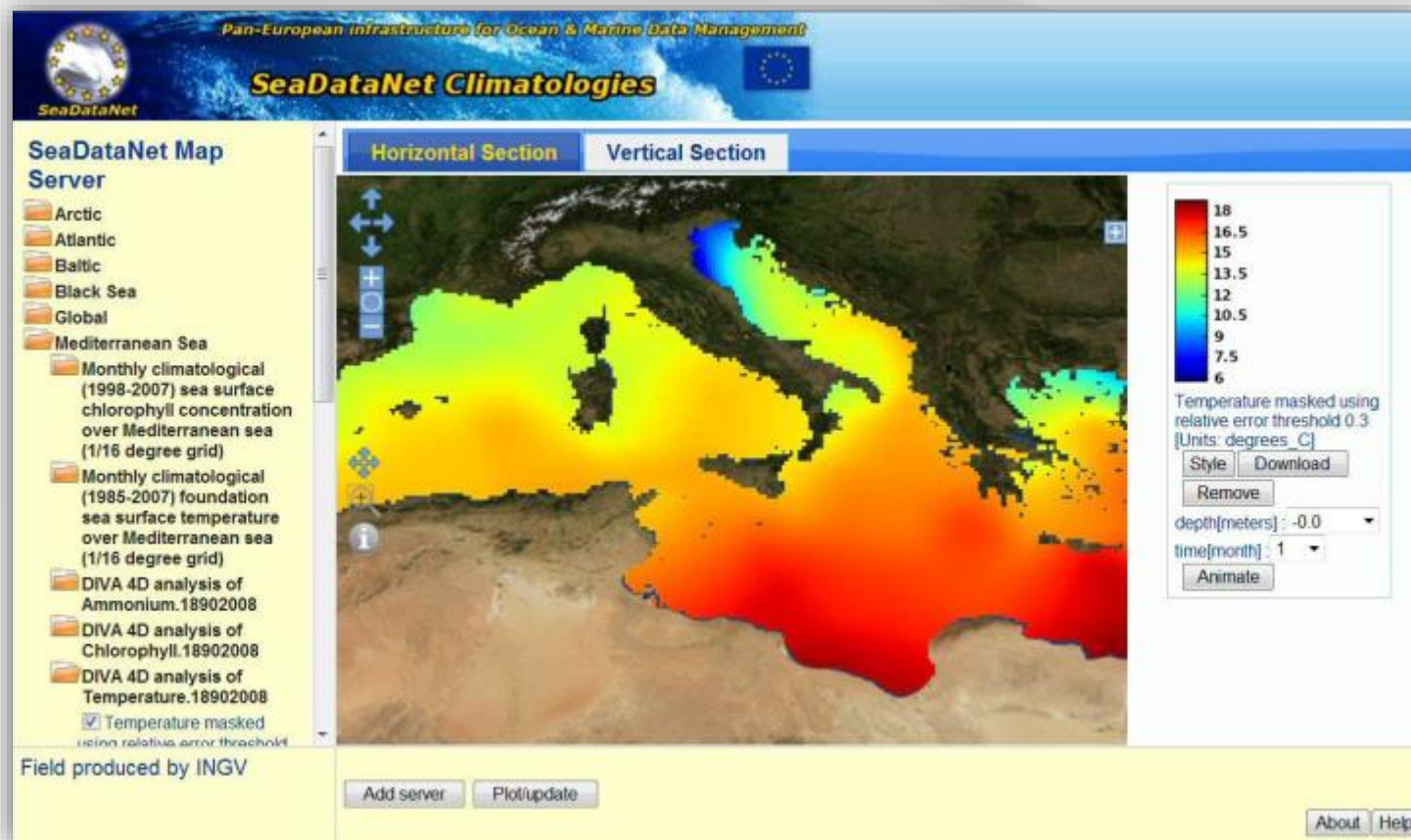


-92.10938, -123.75000

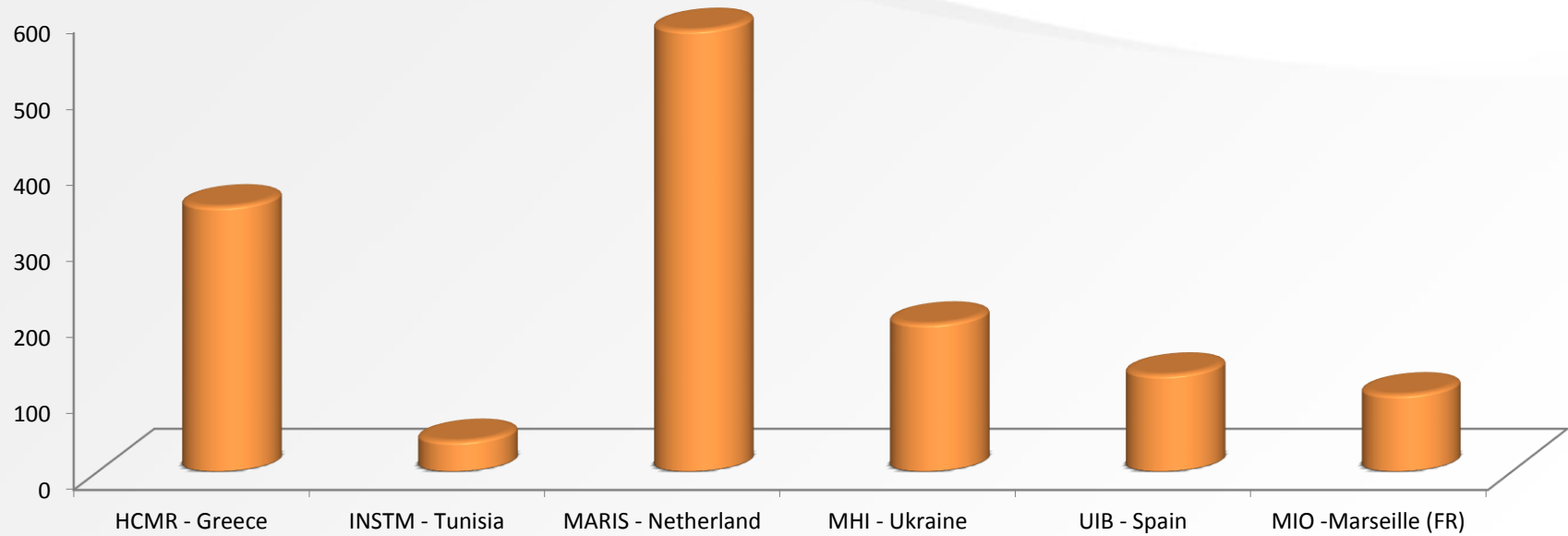




Access to data (CDI) : step 4 viewing (ODV+DIVA)

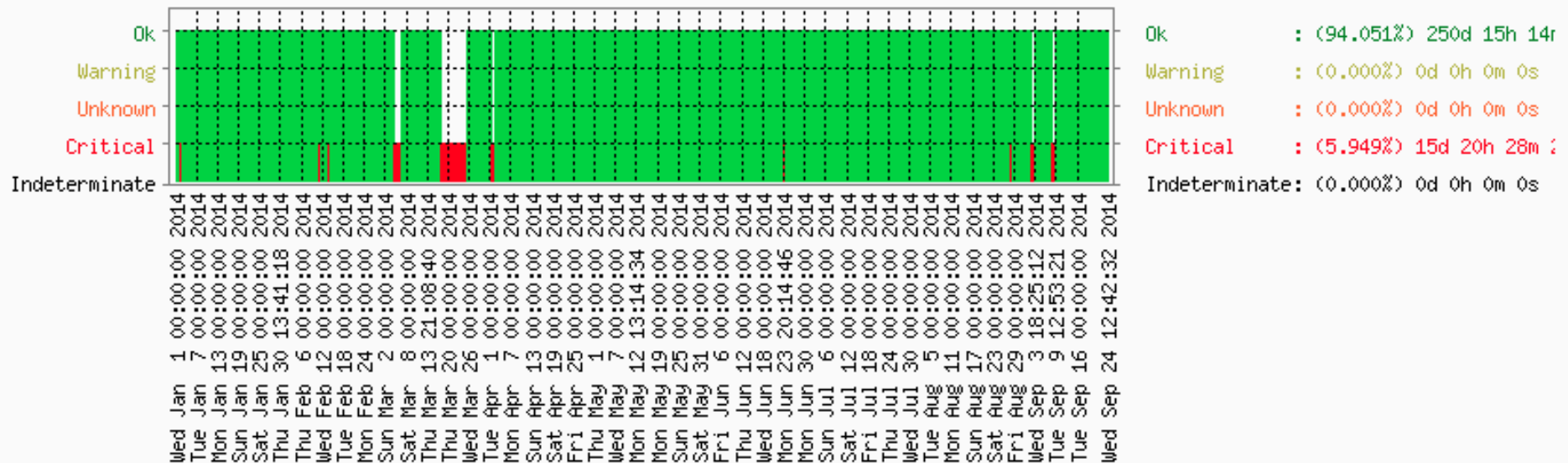


INSTM Requested data

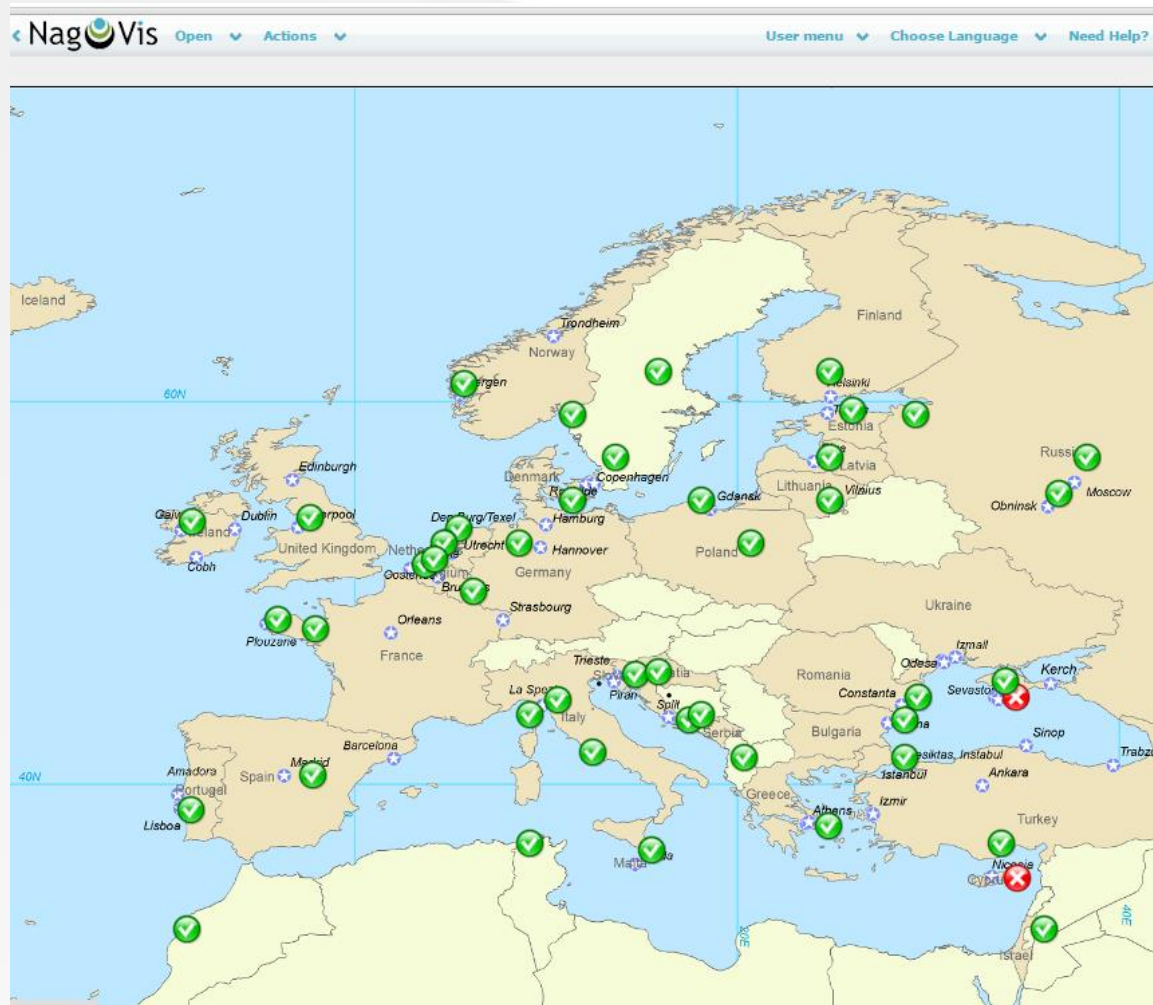


Monitoring INSTM Server

State History For Service 'INSTM Download Manager' On Host '41.229.139.105'
Wed Jan 1 00:00:00 2014 to Wed Sep 24 12:42:32 2014



Monitoring INSTM Server



IV. Conclusion

- Update the Tunisian marine data management process used by LMM
- Whatever the marine instrument used, it is important to manage, standardize, harmonize data and make them interoperable ==> Perrenity and validity
- Technical support from European partners skilled on marine data management
- LMM set up data and metadata policy exchange
- ISO certification from IOC/IODE will be made soon
- Data management can be realized for biological, geophysical, and chemical data
- Looking forward to setting-up a Pan-North African Infrastructure for oceanographic and marine data management project or an ODIP, ...

شكرا على اهتمامكم

