

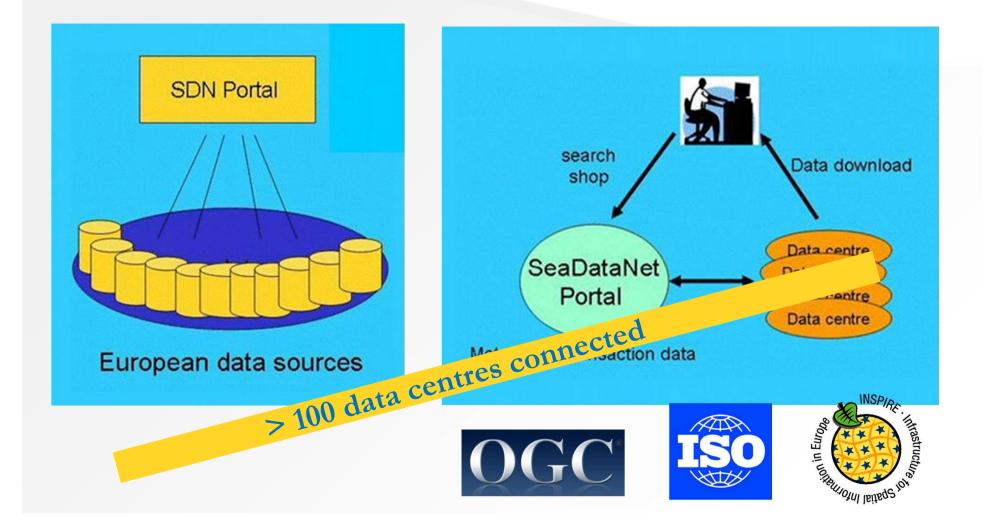
CDI Data Discovery and Access service – statistics and viewing services

SeaDataNet Plenary Meeting 16 September 2015

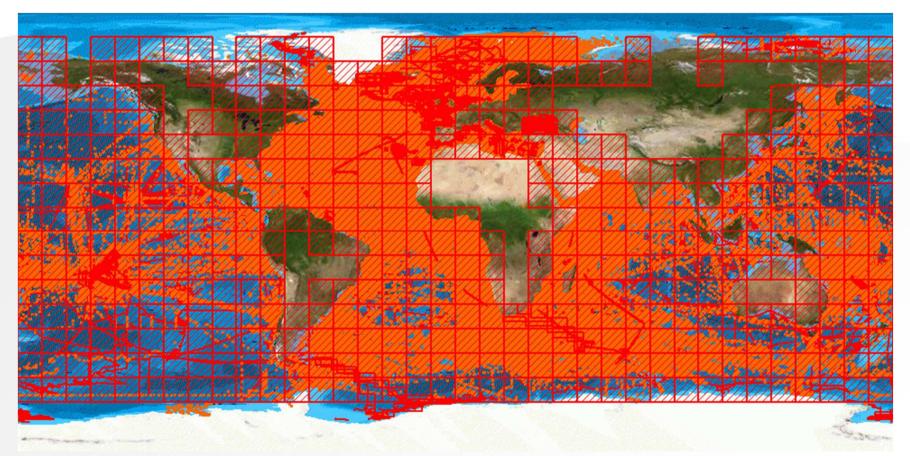
D.M.A. Schaap - Technical Coordinator

SeaDataNet

CDI service for discovery and unified access of data

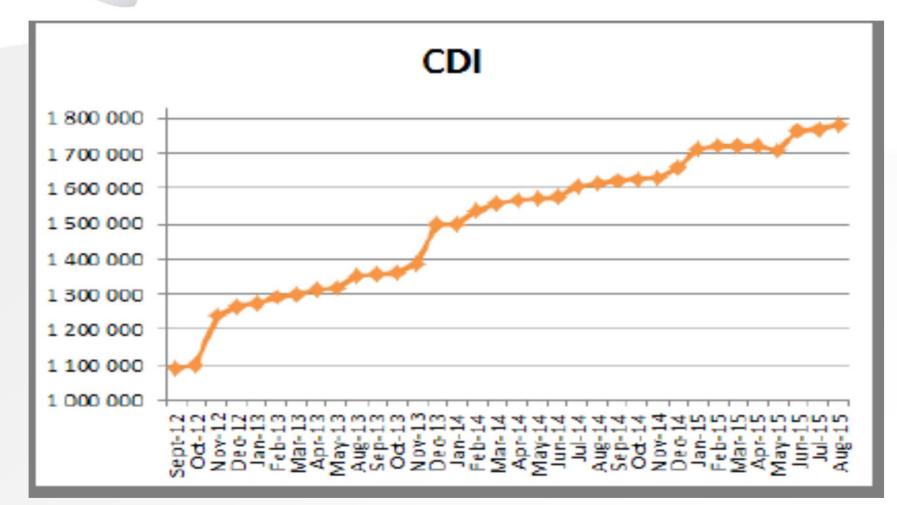


SeaDataNet



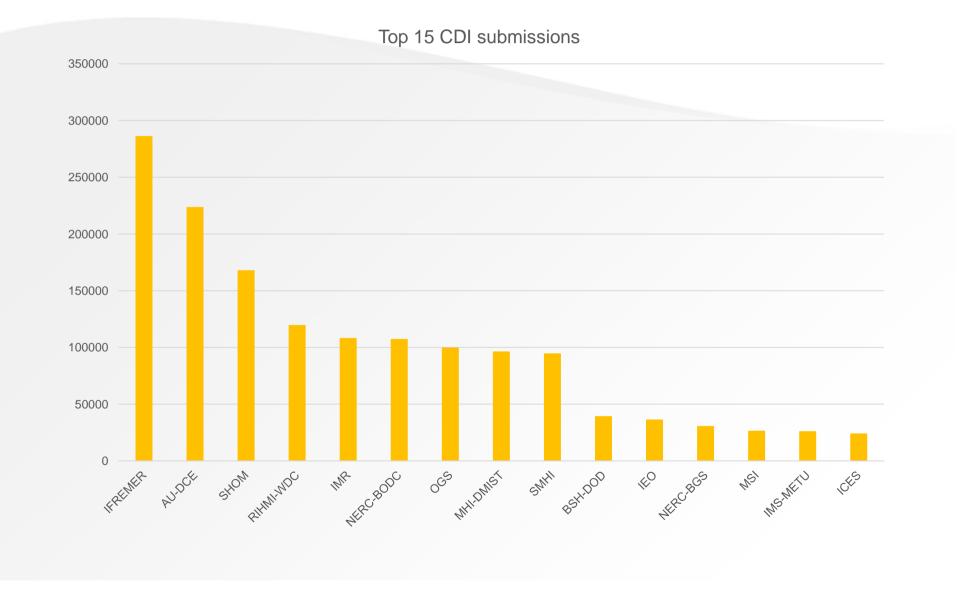
Coverage September 2015: > 1,78 million CDI entries from 102 data centres in 34 countries and 564 originators for physics, chemistry, geology, geophysics, bathymetry and biology; years 1800 – 2015; 85,8 % unrestricted or under SeaDataNet licence

SeaDataNet



Increase of CDI since September 2012









14 September 2015: **102** data centres connected:

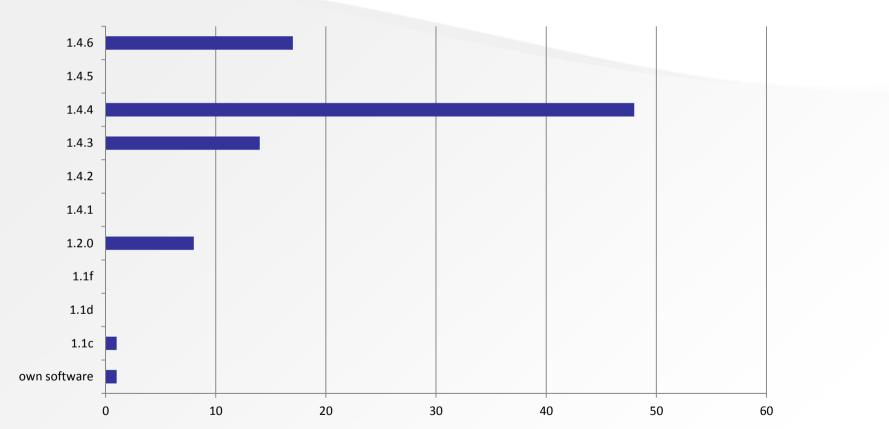
Number of data centres no longer connected

- LNEG Portugal (re-organisation) data now via IPMA)
- USRIEP and TVNU Ukraine (due to Crimea crisis) data now via MHI
- YugNIRO Ukraine (due to Crimea crisis)
- IGEWE Albania (not achieved)

SeaDataNet

SeaDataNet

Situation with DM installations



88 data centres with DM (87 with Marine-ID); 13 with interim-solution; 1 with own software. All data centres should upgrade to adopt new functionalities and to make the SeaDataNet CDI service more robust and homogeneous



Request Status Manager

- Tracking and tracing of all shopping requests
- By users
- By data providers
- Analysis of transactions
- Checking status of orders and downloading from data providers



SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

Request Status Manager - reporting

Overseeing all transactions and preparing reports

quest Status Manager										
arch			Last u	pdate (yyyy-mm-dd) from		to		Po	irtal	All
l partner	All	•	Reque	est date (yyyy-mm-dd) from		to		Re	striction	All
er name		•		Status	All		•			
ser organisation	-	•		User country			-			
ervice type	All	*							Search	Reset
perated in cooperation								_		
SeaDataNet	Black Sea	~	alysing and reporting	all requests by all users and for a	II Data Centres	[©] 25 ©	50 🔘 100 🔘 1000 RECO	ORDS Go I Export	→ FOUND 1800364	SHOW (1-25) PREVIOUS <u>NEXT</u>
Dataset CDI-ID 🖨	LOCAL_CDI_ID 🗘	Dataset name 🕀	CDI partner 🖶	User name 🕀	Portal 🕀	Status 🖶	Service type 🗘	Request-key 🕏	Request date 🗘	Last update 🗘
482974	19980098ST177278sed_MUDAB	19980098sed MUDAB	German Oceanographic Datacentre (NODC)	Mr Hendrik Wolschke - hendrik.wolschke@hzg.de	seadatanet.maris2.nl	Ready for user action	Downloading service	<u>6360</u>	2013-03-08	2013-03-08
182922	19980073ST146837sed_MUDAB	19980073sed MUDAB	German Oceanographic Datacentre (NODC)	Mr Hendrik Wolschke - hendrik.wolschke@hzg.de	seadatanet.maris2.nl	To be discussed	Downloading service	<u>6360</u>	2013-03-08	2013-03-08
82907	19980071ST201035sed_MUDAB	19980071sed MUDAB	German Oceanographic Datacentre (NODC)	Mr Hendrik Wolschke - hendrik.wolschke@hzg.de	seadatanet.maris2.nl	To be discussed	Downloading service	<u>6360</u>	2013-03-08	2013-03-08
82870	19980070ST213323sed_MUDAB	19980070sed MUDAB	German Oceanographic Datacentre (NODC)	Mr Hendrik Wolschke - hendrik.wolschke@hzg.de	seadatanet.maris2.nl	Ready for user action	Downloading service	<u>6360</u>	2013-03-08	2013-03-08
82829	19970114ST275636sed_MUDAB	19970114sed MUDAB	German Oceanographic Datacentre (NODC)	Mr Hendrik Wolschke - hendrik.wolschke@hzg.de	seadatanet.maris2.nl	Ready for user action	Downloading service	<u>6360</u>	2013-03-08	2013-03-08
82823	19970114ST275630sed_MUDAB	19970114sed MUDAB	German Oceanographic Datacentre (NODC)	Mr Hendrik Wolschke - hendrik.wolschke@hzg.de	seadatanet.maris2.nl	Ready for user action	Downloading service	<u>6360</u>	2013-03-08	2013-03-08
482770	19970114ST275577sed_MUDAB	19970114sed MUDAB	German Oceanographic Datacentre (NODC)	Mr Hendrik Wolschke - hendrik.wolschke@hzg.de	seadatanet.maris2.nl	Ready for user action	Downloading service	<u>6360</u>	2013-03-08	2013-03-08
482743	19970114ST275550sed_MUDAB	19970114sed MUDAB	German Oceanographic Datacentre (NODC)	Mr Hendrik Wolschke - hendrik.wolschke@hzg.de	seadatanet.maris2.nl	Ready for user action	Downloading service	<u>6360</u>	2013-03-08	2013-03-08
482738	19970114ST275545sed_MUDAB	19970114sed MUDAB	German Oceanographic Datacentre (NODC)	Mr Hendrik Wolschke - hendrik.wolschke@hzg.de	seadatanet.maris2.nl	Ready for user action	Downloading service	<u>6360</u>	2013-03-08	2013-03-08
82702	19970069ST203304sed_MUDAB	19970069sed MUDAB	German Oceanographic Datacentre (NODC)	Mr Hendrik Wolschke - hendrik.wolschke@hzg.de	seadatanet.maris2.nl	Ready for user action	Downloading service	<u>6360</u>	2013-03-08	2013-03-08
82672	19970068ST248249sed_MUDAB	19970068sed MUDAB	German Oceanographic Datacentre (NODC)	Mr Hendrik Wolschke - hendrik.wolschke@hzg.de	seadatanet.maris2.nl	Ready for user action	Downloading service	<u>6360</u>	2013-03-08	2013-03-08
	19970003ST141491sed_MUDAB	19970003sed MUDAB	German Oceanographic	Mr Hendrik Wolschke - hendrik.wolschke@hzg.de	seadatanet.maris2.nl	Ready for user action	Downloading service	<u>6360</u>	2013-03-08	2013-03-08
82661			Datacentre (NODC)	nenutik.woischke@nzg.ue		aduon				

Transactions in SDN2 CDI system – RSM

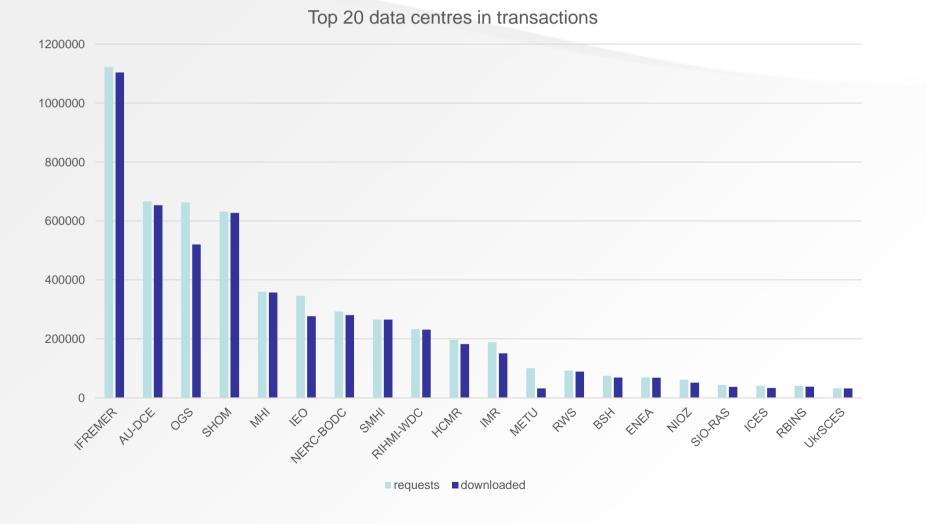
• Since 1st October 2011:

SeaDataNet

- Number of requests including robot users: 6366530
- Number of downloaded files incl robots: **5873343**
- Number of requests excluding robot users: 2882252
- Number of downloaded files: 2490567 data sets
- Done by: 836 registered users (1 year ago: 478)

SeaDataNet

Transactions in SDN2 CDI system – RSM – incl Robots



SeaDataNet Viewing services for CDI – <u>OGC WMS - WFS</u>

- Open Geospatial Consortium (OGC) Web Map Service (WMS) and Web Feature Service (WFS) protocols to exchange maps and metadata including URLs to further metadata and data.
- WMS GetCapabilities also specifies how the WFS can be called and integrated in another portal. Implementing WFS is depending on the client and might require some programming.

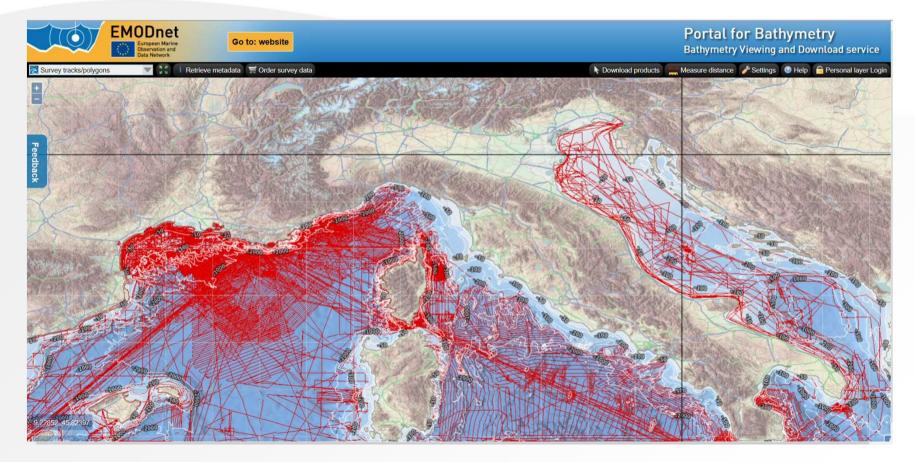
The WMS URL for SeaDataNet is:

http://geoservice.maris2.nl/wms/seadatanet/seadatanet/

http://geoservice.maris2.nl/wms/seadatanet/seadatanet?service=WMS&request= GetCapabilities

SeaDataNet

Example for CDI – <u>OGC WMS - WFS</u>



EMODnet Bathymetry with overlay of CDI - WMS services

SeaDataNet *Example for CDI* – <u>OGC WMS - WFS</u>

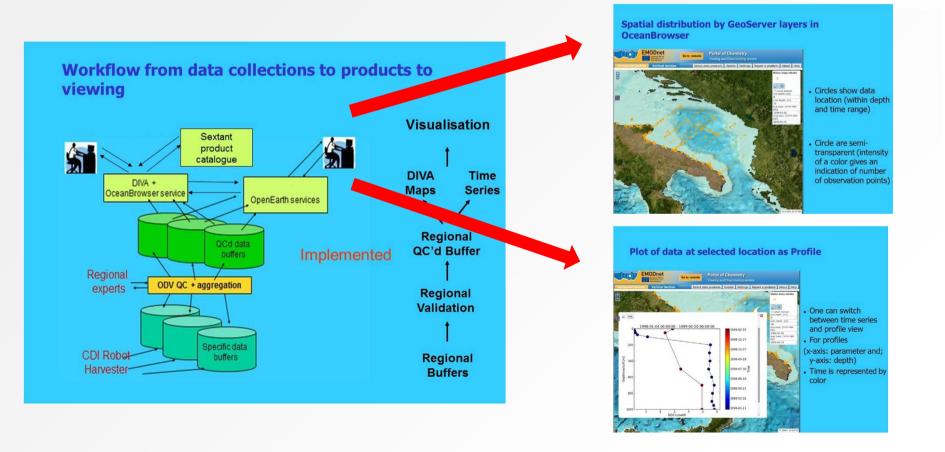
CIMICIPAL Go to: website			Portal for Bathymetry Bathymetry Viewing and Download service
Survey tracks/polygons			🖒 Download products 🔚 Measure distance 🧪 Settings 💿 Help 🔒 Personal layer Login
+ A carrier and a carrier	Survey tracks/polygons	KITSIK GILININ ASADISI	
	WHAT?	A HARD BEAM	
(and the state of the state of the	Data set name	TIR99	
	Discipline	Marine geology Terrestrial	
	Parameter groups	Gravity, magnetics and bathymetr Terrestrial	ry
Feedback	Discovery parameters	Bathymetry and Elevation	
	GEMET-INSPIRE themes	Oceanographic geographical feat	ures
	Abstract		mrad EM120 S Multi Beam echosounder aboard the Russian R/V Strakhov in order to cover the for geological reconnaissance in the framewok of an Italian project funded by CNR and APAT
	Data format	Climate and Forecast NetCDF Ve	ersion 3.5
	Data set creation date	20101027	
	WHERE?		
	Мар		
	GML id	mc01	AL A
A MARTIN A CARL	GML objects	Name	Description
		Track T99001 for TIR99	Track T99001 for TIR99
	<		> 2 (
	N A A A A		

EMODnet Bathymetry with CDI - WFS for CDI details

SeaDataNet

Viewing services on CDI – buffer data sets

• As part of EMODnet Chemistry – advanced services



SeaDataNet

Links

SOS

viewe

Viewing services on CDI – operational oceanography

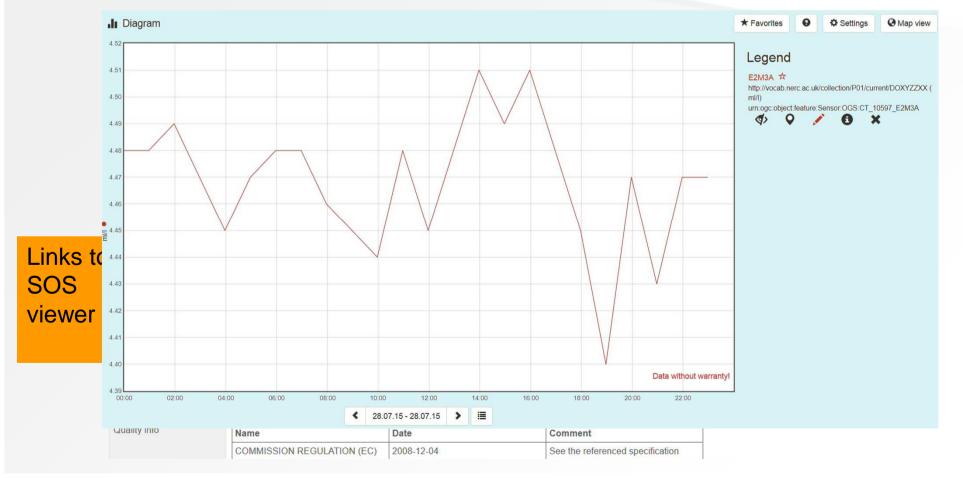
Via Sensor Web Enablement – SOS services

Statio	on start date	20140313								
WHO	?									
Origin	nator	I OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale), Division of Oceanography								
Data I	Holding centre	OGS (Istituto Nazionale di Oceanog)	SS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale), Division of Oceanography							
Projec	ct name	E Fixed point Open Ocean Observatories								
ноw	TO GET THE DATA?	A?								
Data I	Distributor	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale), Division of Oceanography								
Acces	ss/ordering of data	web data access with registration								
Intern	net access/ordering	ng 🤤								
Acces	ss restriction	by negotiation								
Additi	ional services	Website	Reference	Distribution method	Data size					
		Operational Time series visualisation of parameter	Electrical conductivity of the water body	52n-sos-restful-ts-api						
0		Operational Time series visualisation of parameter	Temperature of the water body	52n-sos-restful-ts-api						
		Operational Time series visualisation of parameter	Concentration of oxygen {O2 CAS 7782-44-7} per unit volume of the water body [dissolved plus reactive particulate phase]	52n-sos-restful-ts-api						
		Operational Time series visualisation of parameter	Pressure (spatial co-ordinate) exerted by the water body by profiling pressure sensor and corrected to read zero at sea level	52n-sos-restful-ts-api						
OTHE	ER INFO									
Qualit	ty info	Name	Date	Comment						
		COMMISSION REGULATION (EC)	2008-12-04	See the referenced specification	1					

SeaDataNet

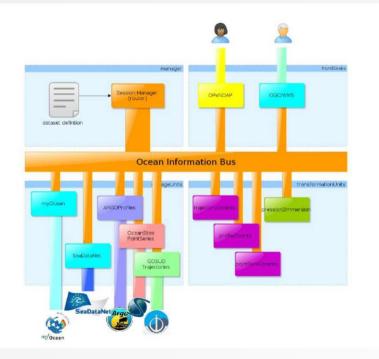
Viewing services on CDI – operational oceanography

Via Sensor Web Enablement – SOS services



Viewing services on WP10 – T&S Climatology

 online via ODV-API and binary collection file for OCEANOTRON server with OGC WMS, OGC SOS, OpenDAP interfacing for clients for analysis, subsetting, visualisations, and extractions



SeaDataNet

