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PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

Product Definition and Processing: Data Flow and Procedures

Deliverable D10.1 (due Sept 30, 2012)

- Define relevant parameters

- Use data access services

- Check their database content per sea region (time, spatial coverage, quality)

- Monitor the percentage of unrestricted data

- Define the methodology to create aggregated data sets

- Propose a set of generic data products as climatologies

- Report gaps to NODCs
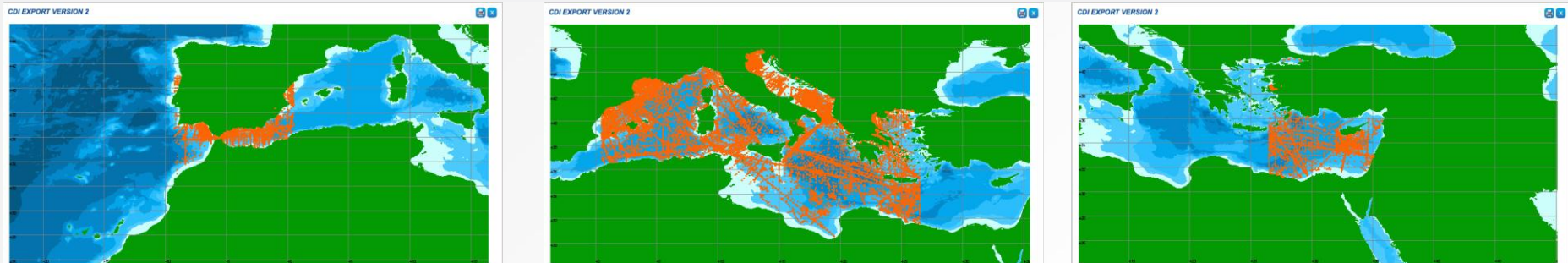
CDI Content and Statistics per Sea Region

- Time period 1990-2012

- Temperature and salinity

- All intruments

- Data Policy statistics

→ Some issues to be clarified
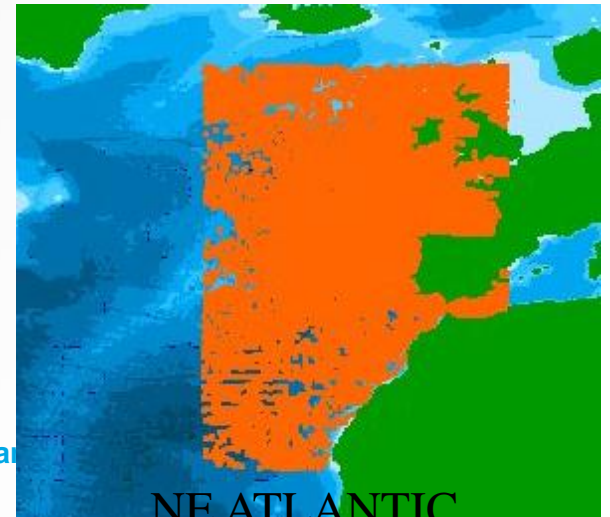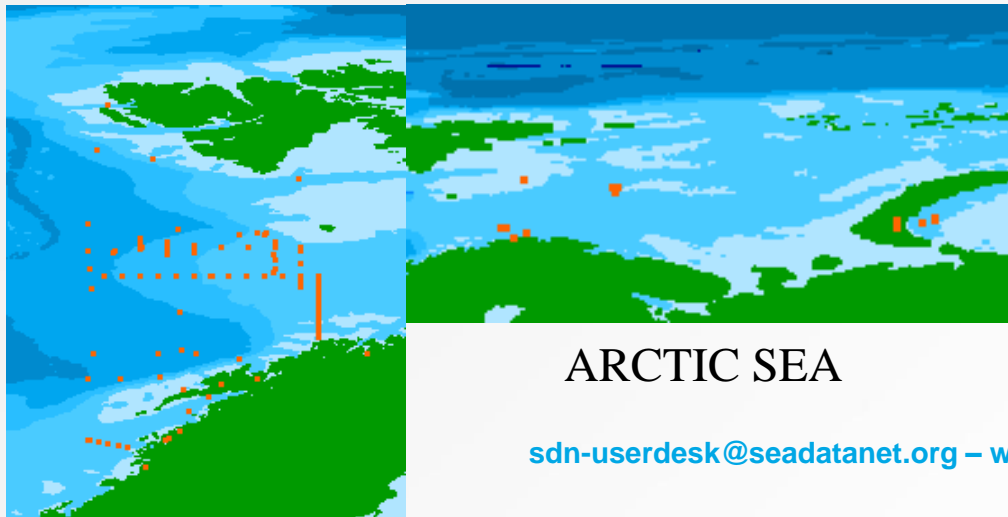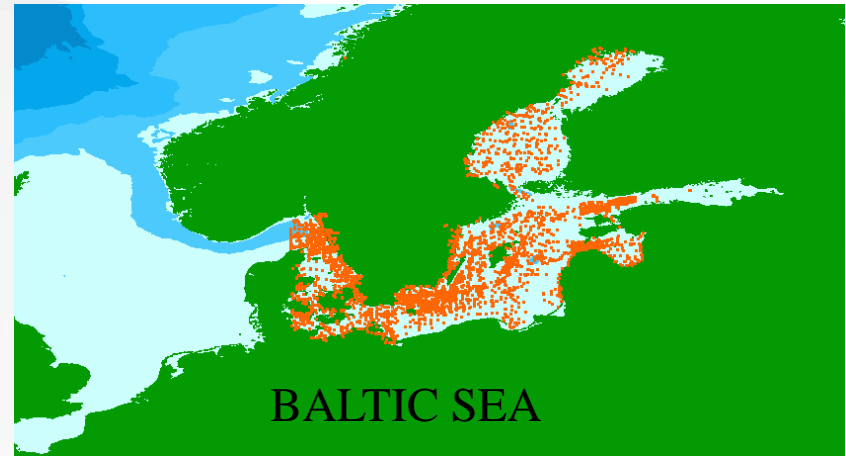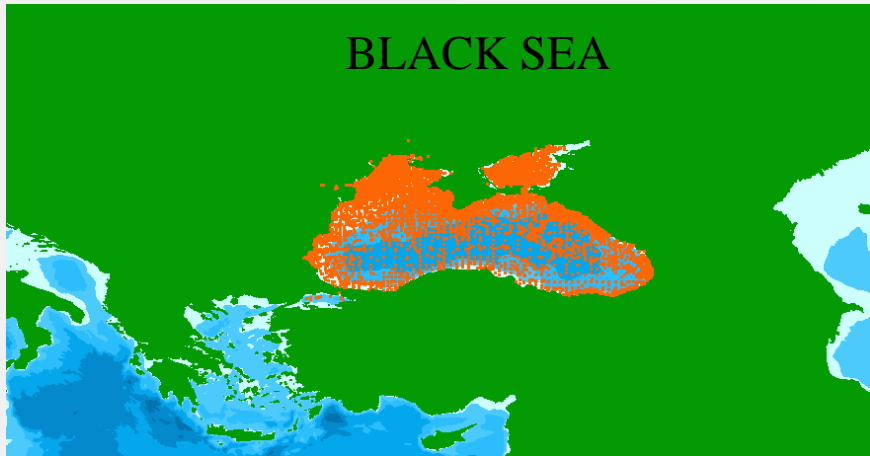
SeaDataNet

SELECTION CRITERIA

Because of bounding boxes selection criteria the Mediterranean Sea was divided into three regions in order to avoid data in the Atlantic and in the Black Sea

DATA DISTRIBUTIONS FOR T & S (1990-2012)

BLACK SEA

BALTIC SEA

ARCTIC SEA

NE ATLANTIC

Mediterranean Sea

"N. DATI 1990-2012 Med Sea"

INSTRUMENT TYPE	N DATA
CTD	24419
Bathythermographs	9166
Discrete Water Samplers	8211
Salinity Sensor	6139
Current Meters	1172
Water Temperature Sensor	732
Thermistor Chains	974
Current Profiler	353
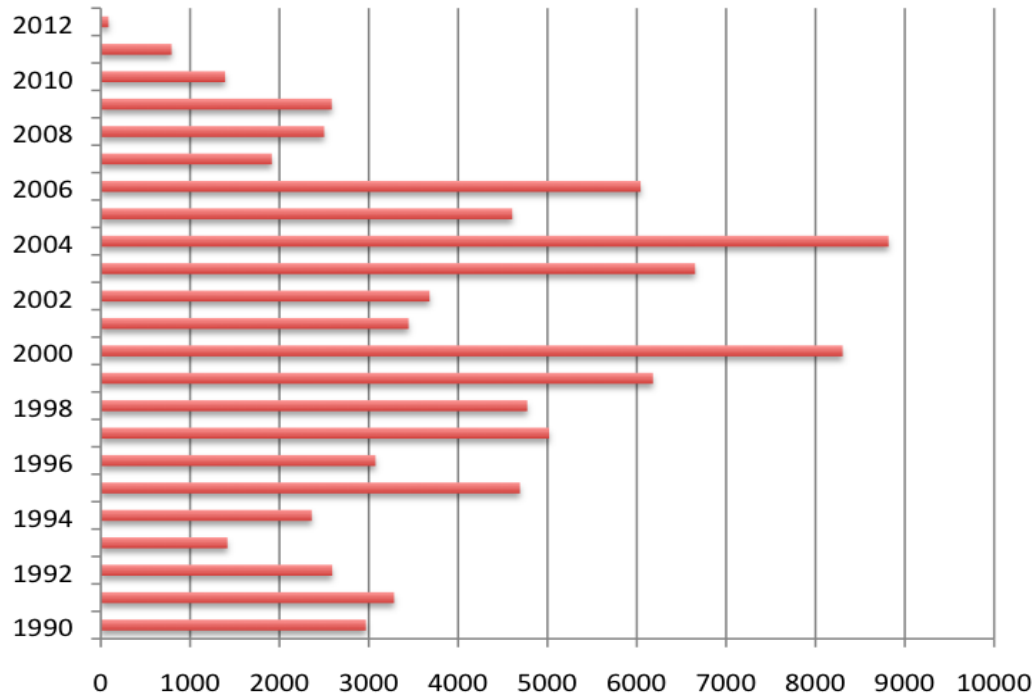
TEMPERATURE	SALINITY
83285	67529

DATA ACCESS	N DATA	
Unrestricted	37045	43
By Negotiation	32241	38
SeaDataNet Licence	16343	19
No Access	66	0
Academic	27	0
Commercial Charge	36	0

Total number: 85758

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

Black Sea

N DATA 1990-2012 Black Sea
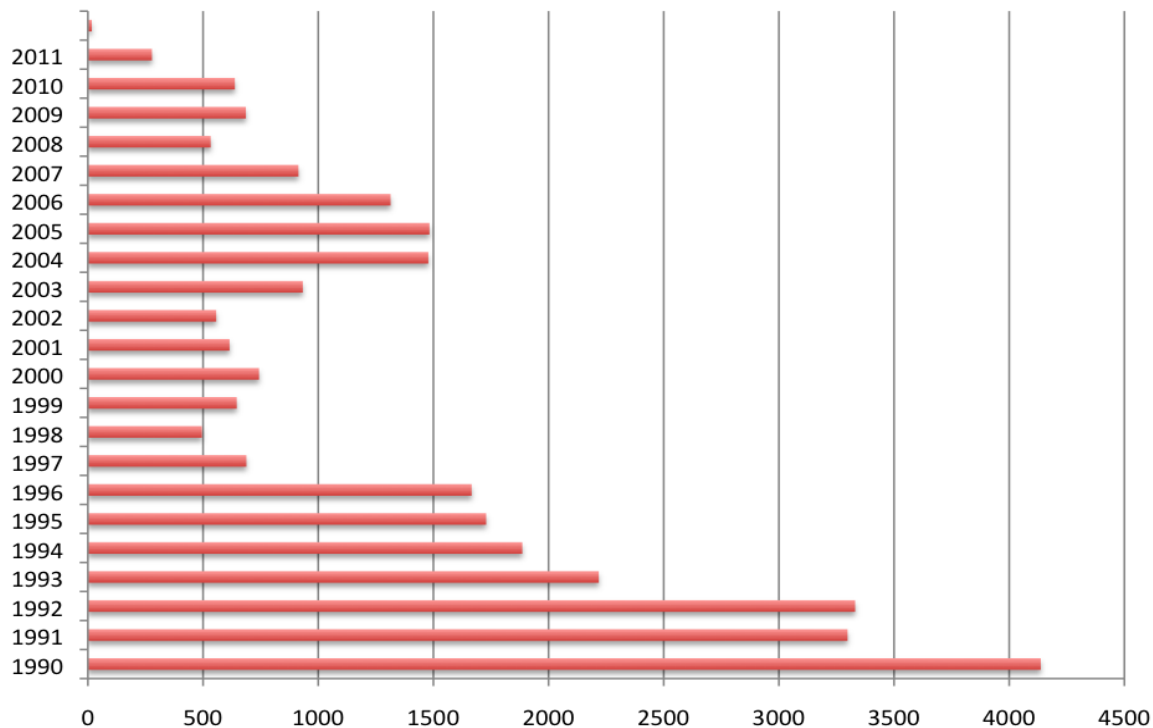
Total number: 30193

TEMPERATURE	SALINITY
23859	23433

INSTRUMENT TYPE	N DATA
CTD	12069
Bathythermographs	67
Discrete Water Samplers	11422
Salinity Sensor	491
Transmissometers	713
Water Temperature Sensor	902

DATA ACCESS	N DATA	%
Unrestricted	3976	13
By Negotiation	5018	17
SeaDataNetLicence	20181	67
Academic	1018	3

Arctic Sea

N. DATA 1990-2012 Arctic Sea
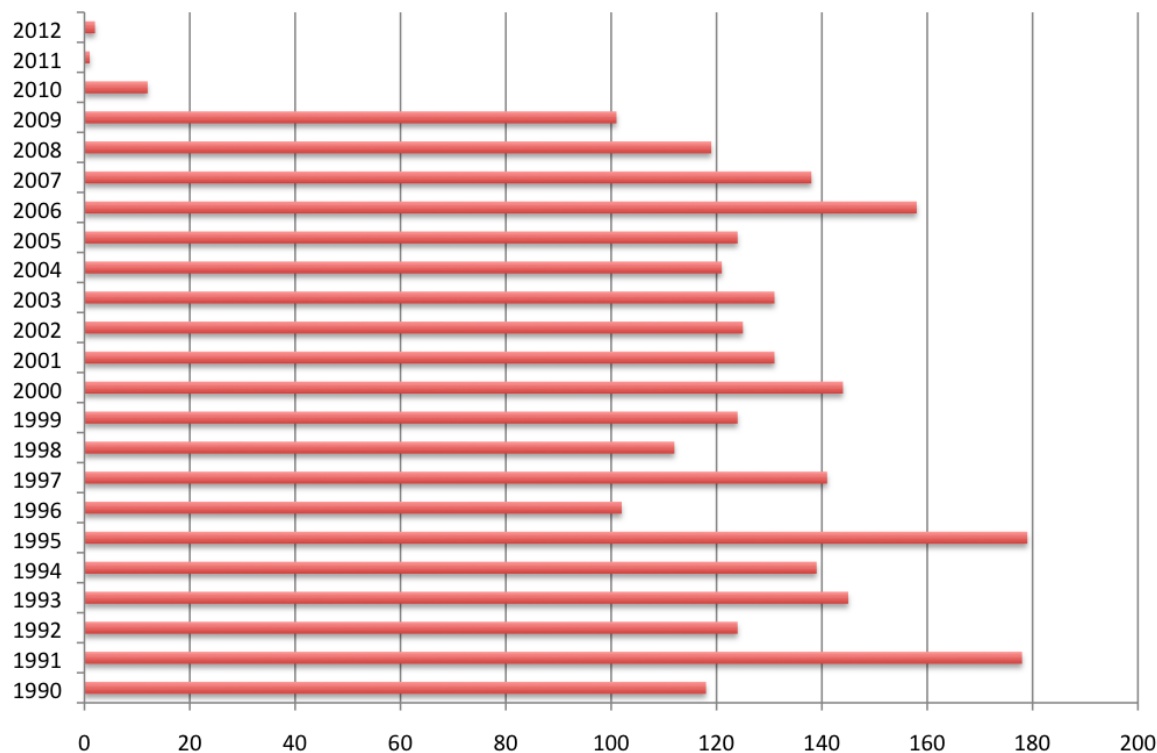
TEMPERATURE	SALINITY
2745	2730

INSTRUMENT TYPE	N DATA
CTD	2399
Thermosalinographs	8
Discrete Water Samplers	340
Salinity Sensor	2

DATA ACCESS	N DATA	%
Unrestricted	**2583**	**94**
SeaDataNet Licence	**80**	**3**
Academic	87	3

Total number: 2750 !!!!very few data!!!

SeaDataNet

Baltic Sea

N. DATA 1990-2012 Baltic Sea
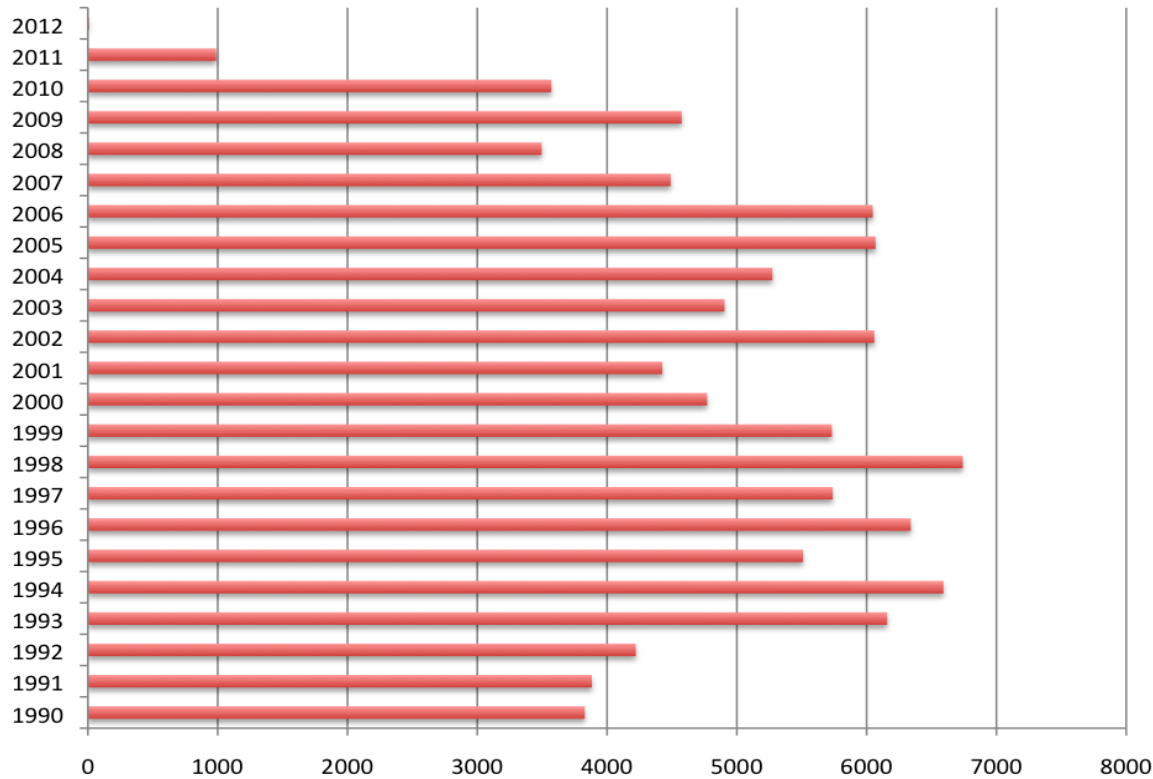
Total number 109426

TEMPERATURE	SALINITY
107673	106957

INSTRUMENT TYPE	N DATA
CTD	73040
Continuous Water Samplers	80
Water Temperature Sensor	26
Discrete Water Samplers	38024

DATA ACCESS	N DATA	%
Unrestricted	**55654**	**51**
SeaDataNet Licence	**53524**	**49**
By Negotiation	185	0
Licence	63	0

TO BE CLARIFIED
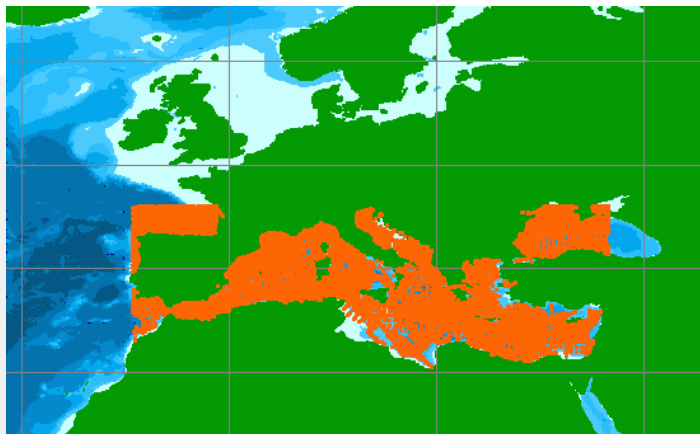
• REGION SELECTION

USING THE TOOL "SELECT BY BOX" FOR THE MED (-9.25°W-36.5°E 30°N-46°N), SOME DATA IN THE ATLANTIC OCEAN AND IN THE BLACK SEA ARE INCLUDED. IN THIS CASE THE NUMBER OF DATA TO ORDER IS 121476 INSTEAD OF 85758

• DATA OUTSIDE THE SELECTED TIME INTERVAL

1993	1181
1992	1936
1991	2202
1990	2462
1989	4
1988	1
1987	1

• IN THE STATISTICS THE SUM OF ANNUAL DATA IS NOT EQUAL TO THE NUMBER OF THE SELECTED DATA (87179 INSTEAD OF 85758)

THE VARIOUS SUB-BASINS SHOULD BE DIVIDED INTO THE FOLLOWING BOXES

REGIONS	CDI BOXES
Arctic	2
Atlantic	6
Baltic	2
Black Sea	1
Global	1
Mediterranean Sea	3
NE Atlantic	1
North Sea	4

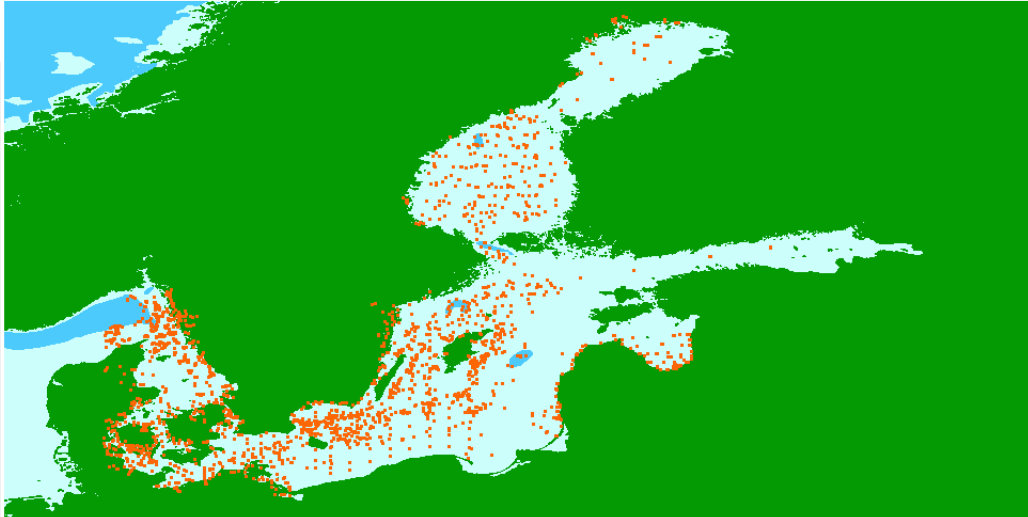| 2012	2
2011	405
2010	2311
2009	3112
2008	2481
2007	3613

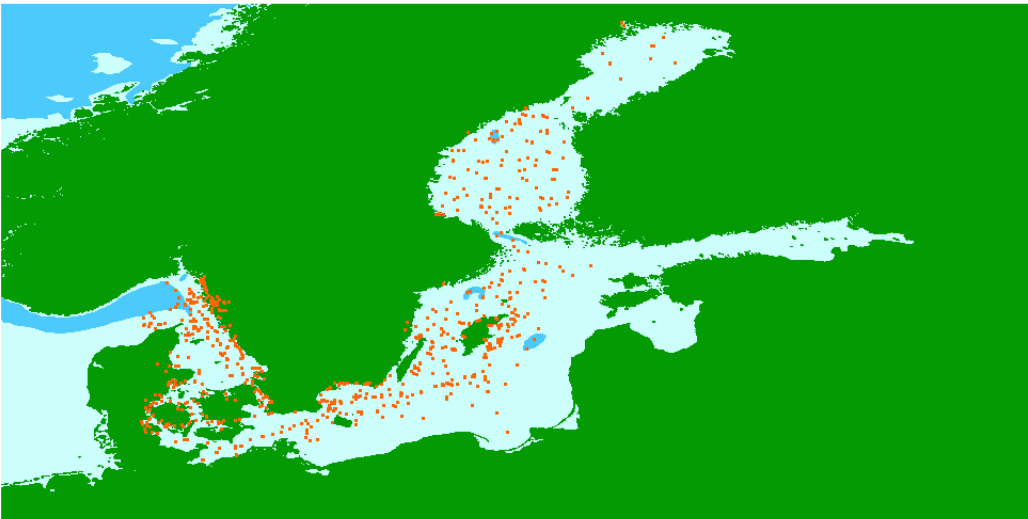Some time lag from measurements until available at the portal.

Data gaps, mostly near coast.
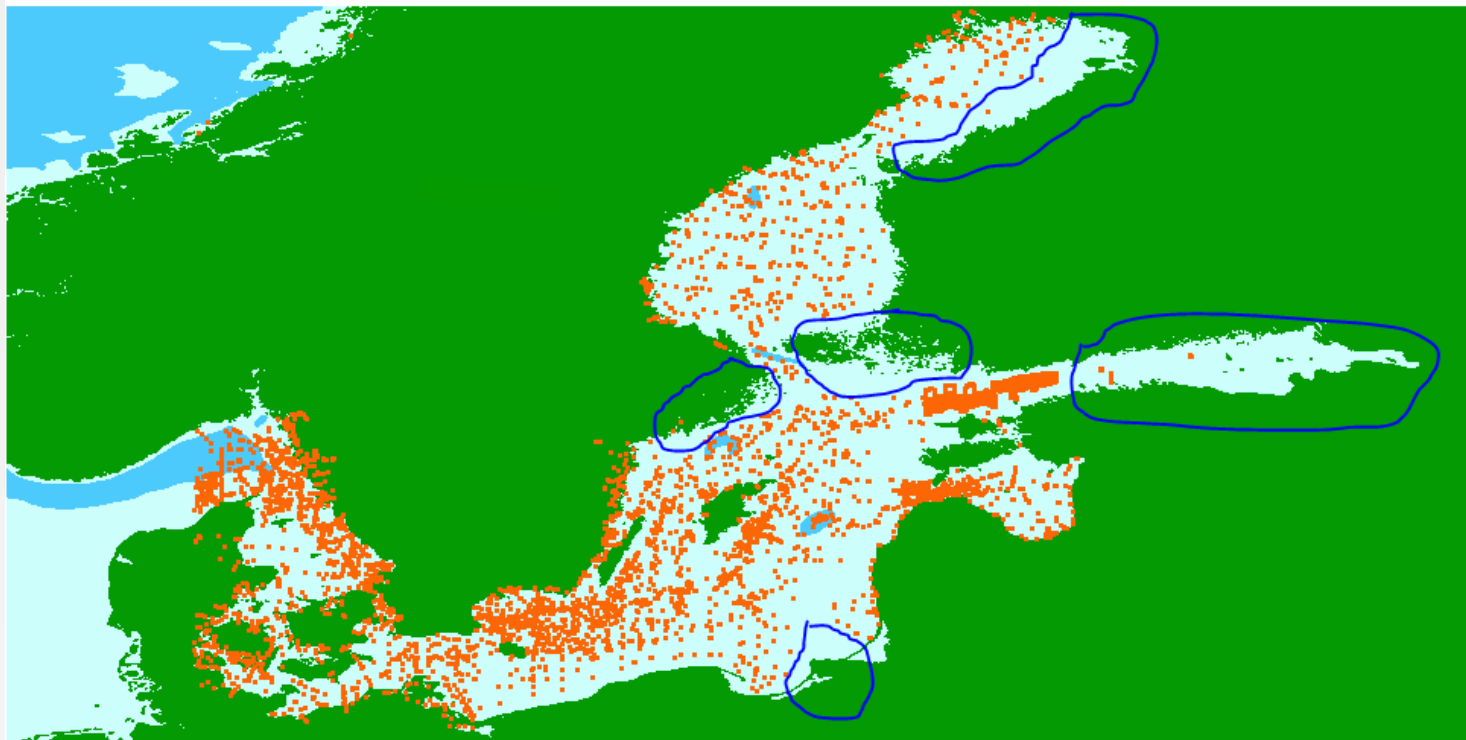
CDI EXPORT VERSION 2

SeaDataNet

Gaps increase when looking at a shorter time span and more recent data

2005-01-01 – today

2010-01-01 – today

Conclusions

- Region selection

- Some statistics from CDI are not corrects

- Data coverage is not homogeneous in space and time

- There are still a large percentage of restricted data in the Mediterranean (38%) and Black Sea (17%)

- **User interface developments** will improve the data download procedure (number of requests, new query processor)

- **New release of ODV** will enhance our QC and aggregating capabilities