



SeaDataNet 2

Kick-Off Meeting

WP10

Development and regular update of data products

Overview

(INGV – ULG – S. Simoncelli)

Athens, October 19-20th, 2011

OUTLINE

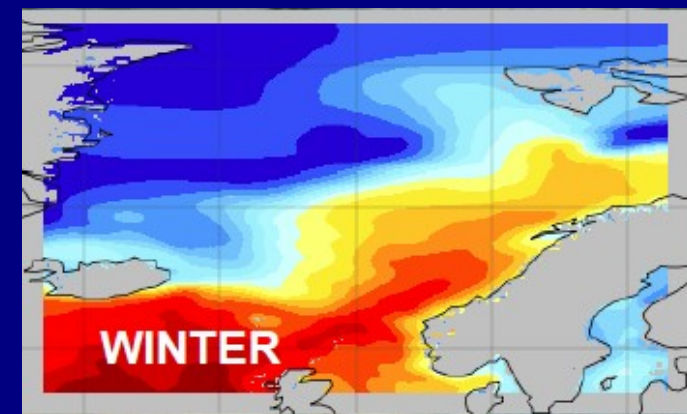
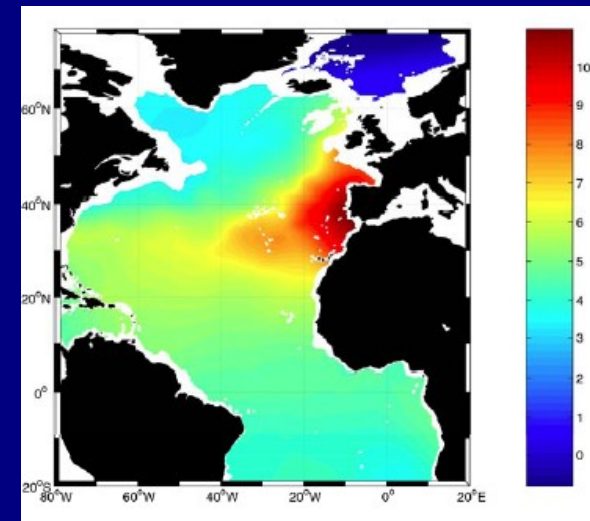
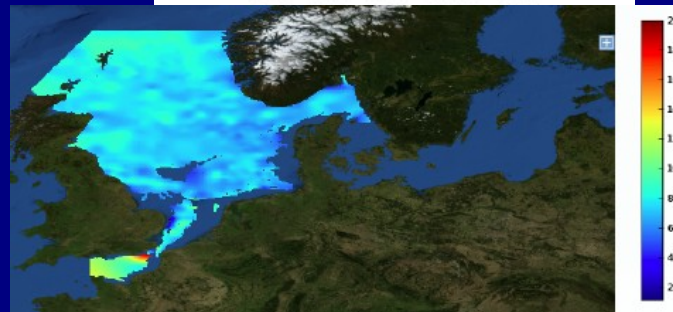
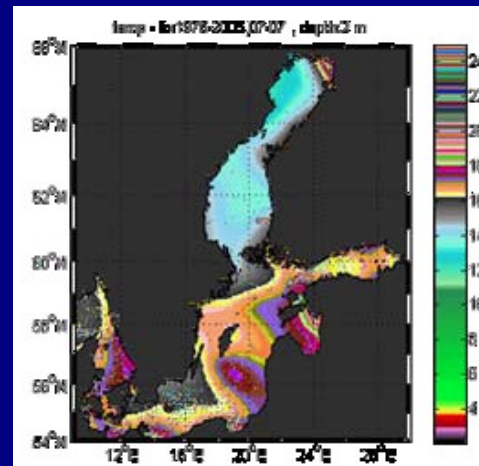
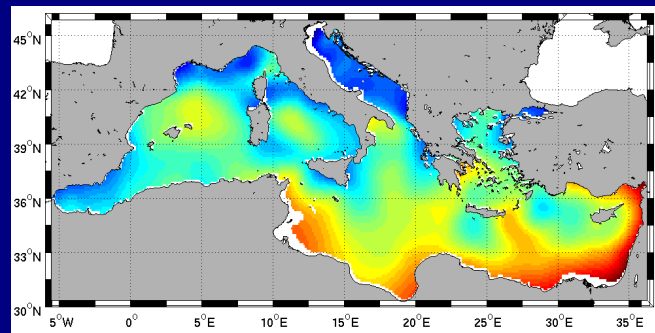
- Introduction: SDN JRA 4-9 outcome
- Objectives
- Description of Work
- Role of Partners
- Regional product harmonization and common services
- Aggregation of regional data sets and processing of example products
- Deliverables
- Open Questions and Conclusions

SDN1 JRA 5-9 outcome

Objective: preparation and dissemination of regional statistics (mean, seasonal, monthly climatologies and trends) from all available historical and recent data collected in the regional basin for various use with special attention to:

- Cross check of obs to detect residual problems in data by comparison with climatologies
- Check coherence between climatologies and statistics by using different climatologies

JRA5 Mediterranean
JRA6 Black Sea
JRA7 Baltic
JRA8 Arctic and North Seas
JRA9 Atlantic and Global Ocean



WP10 Objectives

- To validate data access and processing services provided by SDN infrastructure
- To analyze the coherency, the coverage and the quality of the data sets at full basin scale for European adjacent seas
- To bring examples of products which can be generated using SDN historical data base

Description of Work

- **Use data access services** to prepare aggregated data sets at full basin scale for all European seas
- **Select relevant data types** to serve operational oceanography, ocean modeling and climate change communities
- **Prepare aggregated data sets** and control internal data coherency, coverage and overall quality
- Generate a set of **generic data products** as climatologies
- **Use ODV and DIVA tools** for QC and climatology computation

This will improve the SDN databases quality, illustrate their contents per sea region (time, depth and spatial coverage, quality) and demonstrate the capabilities of services and tools made available by SDN infrastructure

Role of Partners

- The work will be done at **regional level** by regional groups and regional coordinators (RC) lead the activities

Mediterranean Sea	INGV
Black Sea	METU
North Atlantic	IFREMER
North Sea	MUMM
Arctic Waters	IMR
Baltic Sea	SMHI

- A leading team of one or more partners together with SDN data centers will guide the QC process
- Activities in communication with the existing regional organizations (BlackSeaGOOS, MedGOOS, BOOS, NOOS, MOON, etc) and ongoing projects (MyOcean) in order to develop true synergies at regional level
- Regional approach allows direct contacts with the primary users to collect remarks and comments about the quality and pertinence of the products

WP 10.1: Regional product harmonization and common services

WP must define the methodology and scope of data products for coordinating and supporting the harmonization between sea basins and for making the products available for users

Common services :

- Maintain the catalogue of SDN aggregated data sets and example products
- Make products available online (browsing, visualization, download) via SDN portal using web services developed in WP9

WP10.2: Aggregation of regional data sets and processing of example products

- **Data extraction** (semi-automatic way, machine to machine interface) will be configured according to the data products requirements to create automatically a data pool for the selected data types
- **Analyze density and resolution of large data sets** (space, time, depth)
- **Report gaps** to the SDN national nodes in order to verify whether additional data sets might be available
- Contact projects and initiatives to complement the regional data sets
- Retrieve all relevant data and combine these with data derived from other sources
- Analyze coherence and discard potential redundancy
- Validate these products and report to the SDN national nodes on the quality and possible shortcomings of the data sets used
- Use the SDN product services to give public access to the data products

Data Policy

Data sets for selected data types (temperature, salinity,...) in most cases will be unrestricted, or fall under SDN license. However some might be labeled as restricted in the CDI inventory. Therefore SDN data centers will be requested formally to give permission for using these identified data sets for internal use in preparing data products and for external use to serve specific user communities such as MyOcean (MoU)

Med Data (2000-2010) extracted by INGV from CDI 2006-2010:
TOTAL ~9300 T&S

Unrestricted ~2600 (28%)

Restricted ~4000 (43%)

Under SDN ~license 2700 (29%)

~40% downloaded data unrestricted!!!

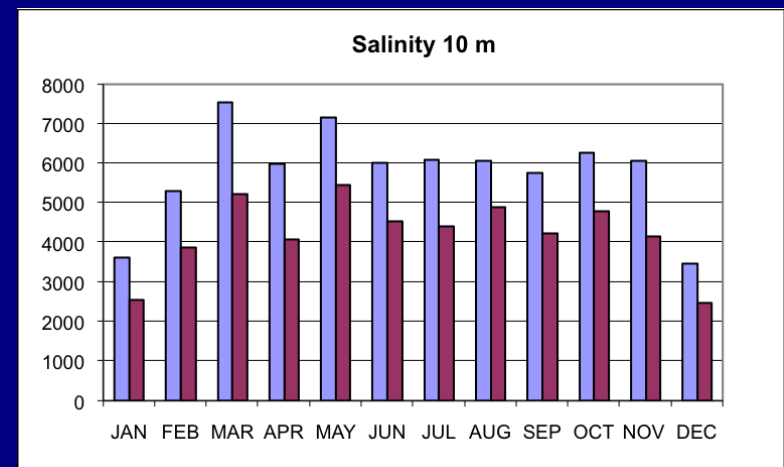
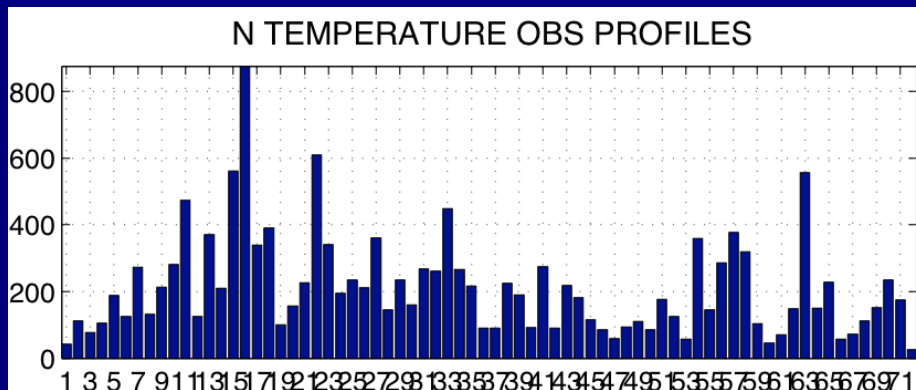
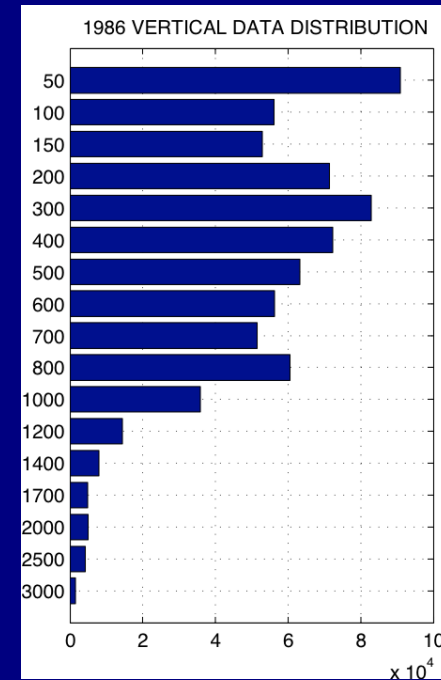
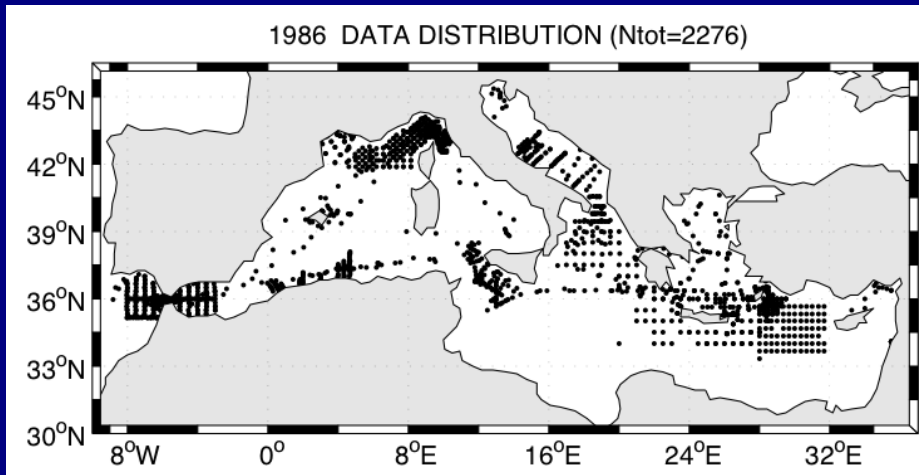
Implement SDN machine to machine interfaces to deliver aggregate data sets to specific user communities as agreed. Data types to consider will be selected according to the users' needs and the regional basins characteristics

WP10 Deliverables

Deliverable Number ⁶¹	Deliverable Title	Lead beneficiary number	Estimated indicative person-months	Nature ⁶²	Dissemination level ⁶³	Delivery date ⁶⁴
D10.1	Common specifications, selected parameters, aggregation, control and processing procedures	11	3.00	R	PU	12
D10.2	First release of the aggregated data sets products	11	39.00	O	PU	24
D10.3	Release of examples of data products	11	39.00	O	PU	36
D10.4	Final version of aggregated data sets	11	39.00	O	PU	46

Actions before M12

During the first year all regional groups should download data and analyze their space, time and depth (histograms) distribution



Open Questions and Conclusions

- Conference calls: 1) between all RCs and national nodes to discuss about the data sets quality (gaps, duplicates identification.); 2) between all RCs to define data QC procedures, gridded product characteristics, utility, usage
- Regional groups should also monitor the percentage of unrestricted data for different parameters at basin scale; improvement to of SDN2 data policy
- Improve the MoU with MyO to better define how MyO2 may contribute to develop and support SDN2
- Define a metadata that should describe the aggregated and all the analysis, checks and statistics performed to produce it
- How to reference the aggregated dataset; versioning of the aggregated dataset; metadata and statistics associated to the aggregated dataset
- Finalize WP activities in some publication before the aggregated data release to improve project visibility