



*S.Simoncelli
M.Tonani*

*PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT*



SeaDataNet

Regional Product Elaboration

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 (DoW)

- **Use data access service** 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 improves the SDN database quality, illustrate the content per sea region (time, depth and spatial coverage, quality) and demonstrate the capabilities of SDN infrastructure

WP 10.1

Regional product harmonization and common services

Define the **methodology and scope of data products** for:

- coordinating and supporting the harmonization between sea basins
- 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) to create automatically a data pool for the selected data types
- **Analyze density and resolution of data sets** (space, time, depth)
- **Report gaps** to NODCs to verify if additional data sets are available
- Contact projects and initiatives to complement the regional data sets
- Retrieve data and combine these with data derived from other sources
- **Analyze coherence and discard potential redundancy**
- **Validate products and report on the quality** and the possible limitations of the data sets used
- Use the SDN product services to allow public access

Role of Partners

- Work done by regional groups. Regional coordinators (RC) lead the activities
- A leading team (one or more partners + data centers) guide the QC process
- Activities in communication with regional organizations (BlackSeaGOOS, MONGOOS, BOOS, NOOS, etc) and ongoing projects (MyOcean) in order to develop true synergies at regional level

Med Sea	INGV	Simona Simoncelli
Black Sea	METU	Devrim Tezcan
North Atlantic	IFREMER	Christine Coatanoan
North Sea	MUMM	Serge Scory
Arctic Waters	IMR	Helge Sagen
Baltic Sea	SMHI	John Knapell

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

Deliverable D10.1 (due **Sept 30, 2012**)

- Define relevant parameters (T, S)
- 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

Deliverable D10.2 (due **Sept 2013**): First Release of aggregated data set

- Use **data access service**
- **Data extraction** (semi-automatic way, machine to machine interface)
- Use **ODV for QC**
- Report gaps to NODCs

Time Schedule

SDN2

Common specifications, selected parameters, definition of QC, aggregation and analysis procedures

MyO2

Sept 2012

Dec 2012

Apr 2013

Sept 2013

Data from SDN2 have to be received (early enough to perform the scientific assessment on the T&S product and deliver in time to the modellers)

First Version observation products have to be ready ***

*** can be updated Apr 2014

First release
AGGREGATED DATASET °°°

°°° will be updated at the end of
SDN2 Project Sept 2015

Data Policy

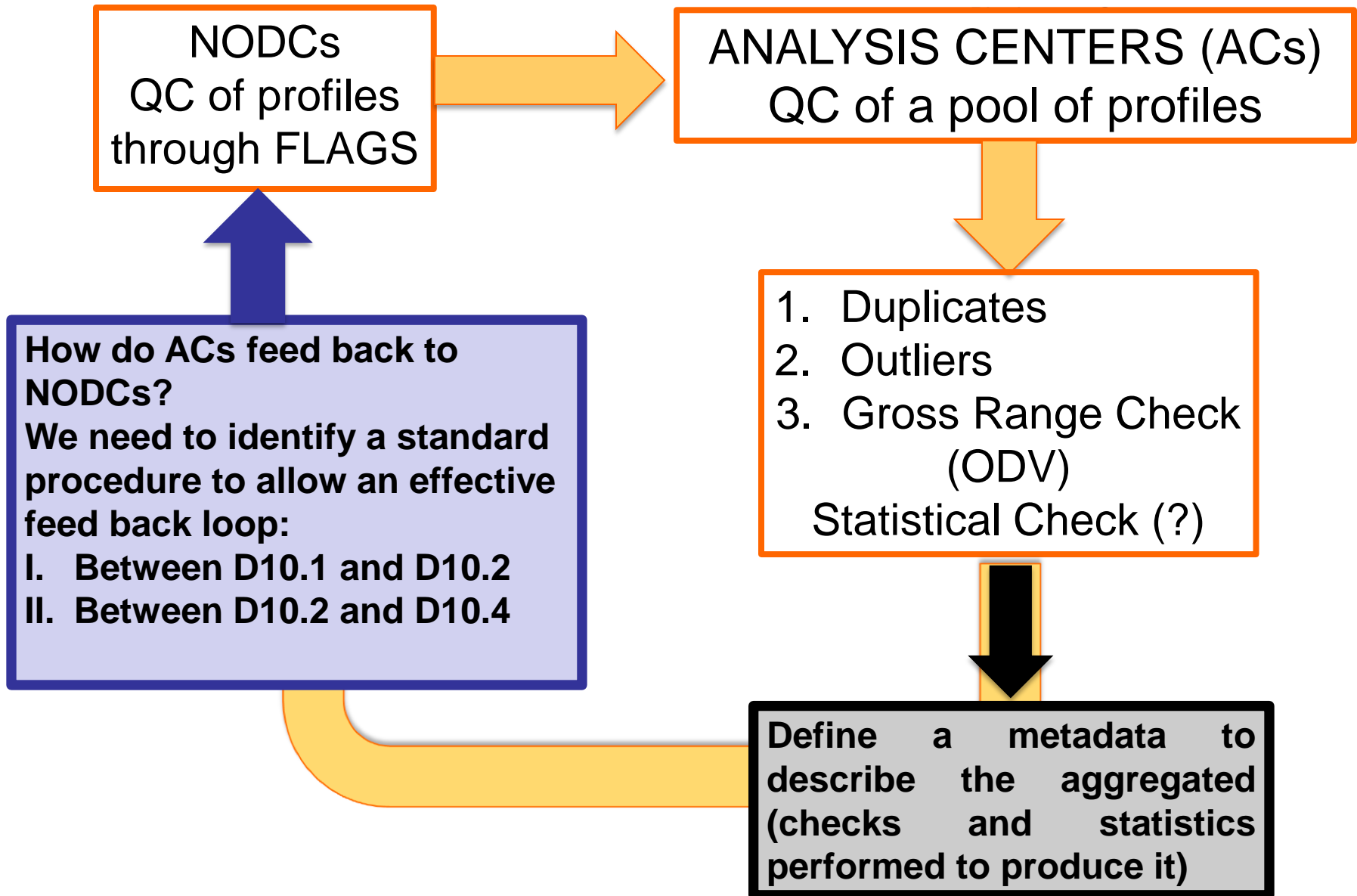
DATA ACCESS	N DATA
Unrestricted	37045 (43%)
By Negotiation	32241
SeaDataNet Licence	16343 (19%)
No Access	66
Academic	27
Commercial Charge	36

Statistic of data access policy for the **Mediterranean Region** for the period **1990-2012** (T, S)

Data sets for selected data types (Temperature, Salinity,...) in most cases should be **unrestricted**, or fall **under SDN license**.

SDN data centers are requested formally to give permission to use restricted data sets for internal purpose in preparing gridded data products (climatologies)

Open Question: QC strategy

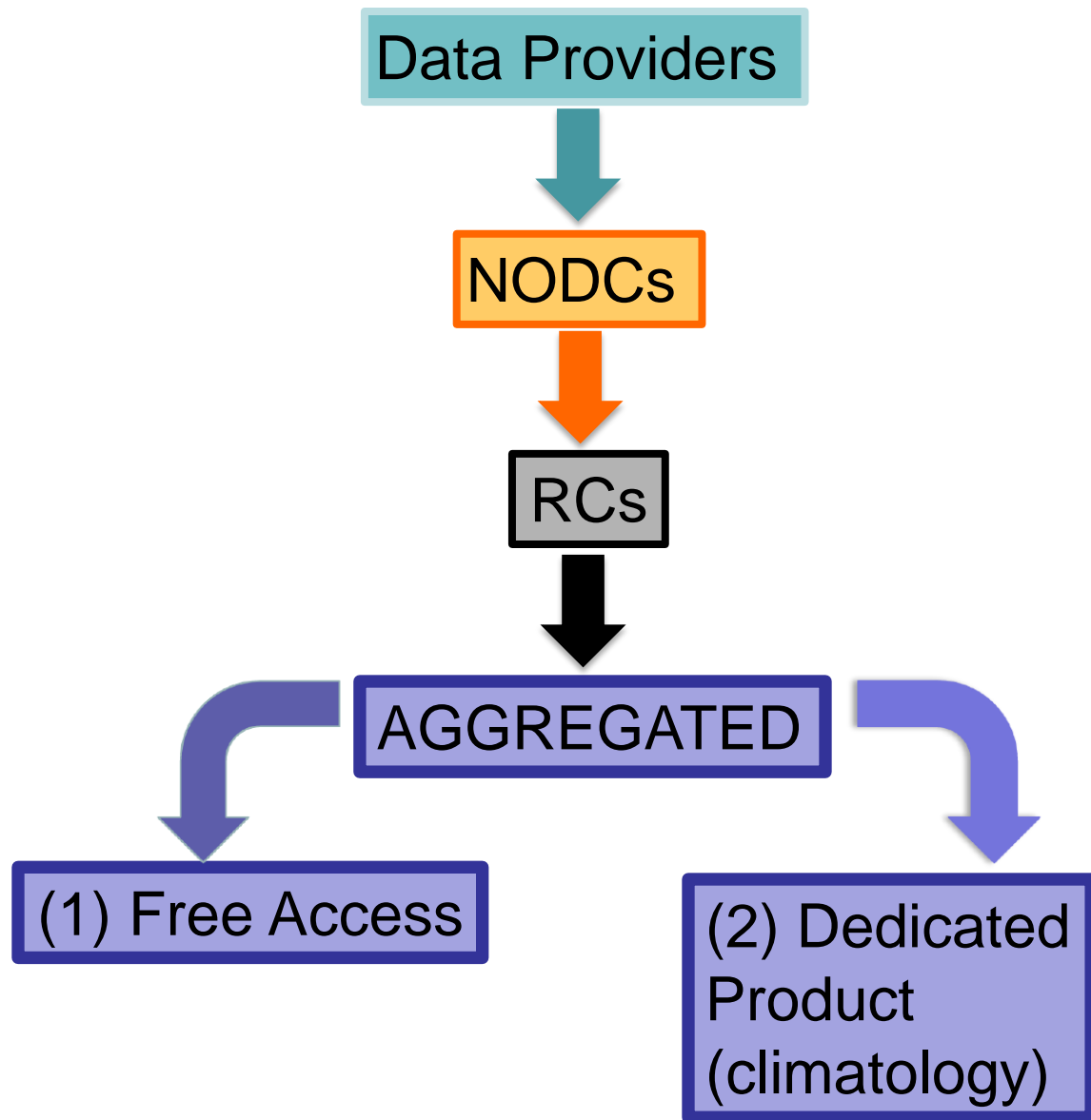


Open Question: AGGREGATED

1) Acknowledgment

How can both Data Providers and RCs be referenced?

2) Versioning of the aggregated dataset



Open Questions

- RCs+NODCs should define a the data sets **quality feedback procedure** (gaps, duplicates identification)
- RCs should define data QC procedures, gridded product characteristics
- Define a metadata that describe the aggregated (checks and statistics performed to produce it)
- How to reference the aggregated dataset; versioning of the aggregated dataset