From SeaDataNet to SeaDataCloud: historical data collections and new data products SeaDataCloud **S. Simoncelli¹**, C. Coatanoan², V. Myroshnychenko³, N. Pinardi⁴, Ö. Bäck⁵, H. Sagen⁶, S. Scory⁷, A. Barth⁸,



(1) INGV simona.simoncelli@ingv.it, (2) Ifremer, (3) METU, (4) UniBo, (5) SMHI, (6) IMR, (7) RBINS, (8) ULG, (9) MARIS, (10) AWI

Introduction

New qualified temperature and salinity historical data collections SDC_DATA_TS_V1 (1900-2017) were produced (Nov2017) within the framework of SeaDataCloud Project for the EU sea basins and will be soon available through the SeaDataNet web catalog.

Two versions of the data collections have already been published within the framework of SeaDataNet II Project and they represent a snapshot of the database content at two different times: V1.1 (Jan2014) and V2 (Mar2015). V1.1 data sets have been used to compute regional monthly T and S climatologies.

Quality Control Strategy (QCS)

The Quality Control Strategy aims at improving the quality of the SeaDataNet infrastructure's content and creating the best data products deriving from it.

It consists of four main phases:

- 1) data harvesting of open access data files from the distributed data centers;
- 2) file and parameter aggregation to generate a metadata enriched ODV collection;
- 3) Quality Check analysis at regional level;
- 4) analysis and correction of data anomalies.

The iterative approach facilitates the upgrade of the database and the versioning of data products.

Quality Control Analysis

and S data collections are analysed at regional level to assess and report on their quality. A common basic QC analysis is performed using ODV software (5.0.0). Product Information Documents (PIDocs) contain all specifications about the general products' characteristics (space-time coverage, resolution, format, usability) and quality (validation methodology and results). PIDocs and products are available at https://www.seadatanet.org/Products.

FIGURE - Results of the QC analysis for the Mediterranean Sea data set (SDC_MED_DATA_TS_V1): (a) data density map; (b) temporal data distribution 1900-2000; (c) temporal data distribution 2001-2017; (bottom) T, S and TS scatter plots.

D. Schaap⁹, R. Schlitzer ¹⁰, M. Fichaut²



