

3 May 2021 - 5 May 2021 Virtual

9th EuroGOOS International Conference

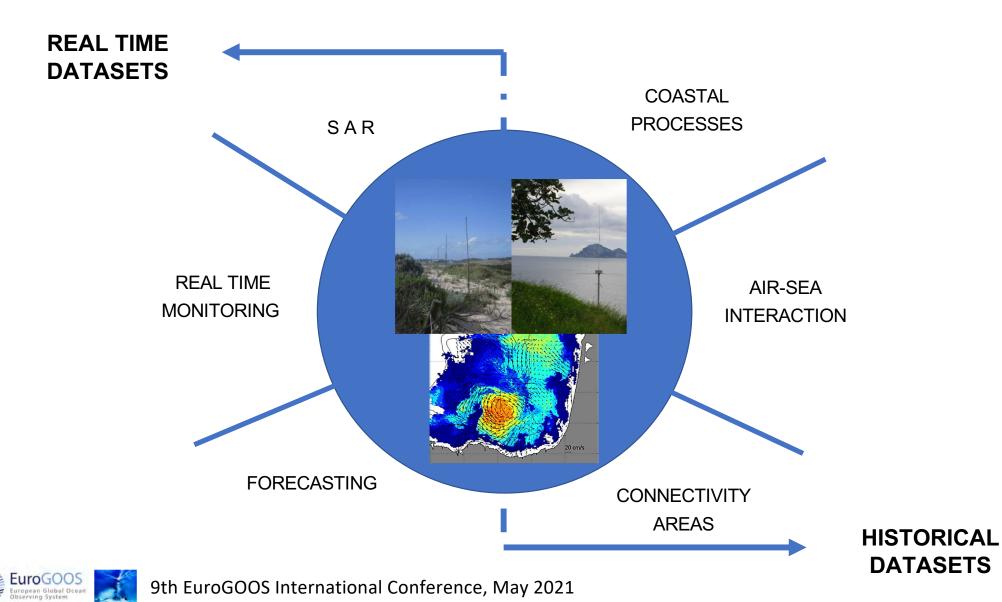
Building a reliable and standardized long-term data set of surface coastal ocean currents from the European HF radars

Anna Rubio, Lohitzune Solabarrieta, Lorenzo Corgnati, Carlo Mantovani, Emma Reyes, Paz Rotllan, Antonio Novellino, Patrick Gorringe, Annalisa Griffa, Julien Mader



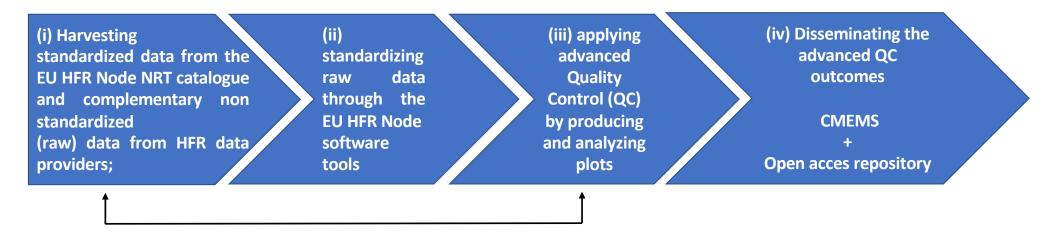








HFR Historical (REP) data management



(v) reprocessing data in collaboration with each HFR data provider

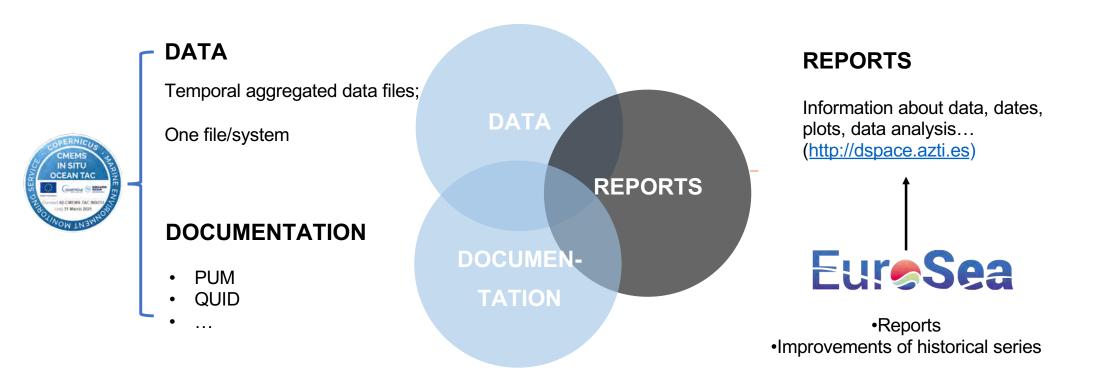
The **European HFR Node acts as the focal point** for the European HFR data providers and implements the HFR data stream from the data providers to the CMEMS-INSTAC Global Production Unit (PU).







WHAT DO WE PROVIDE?





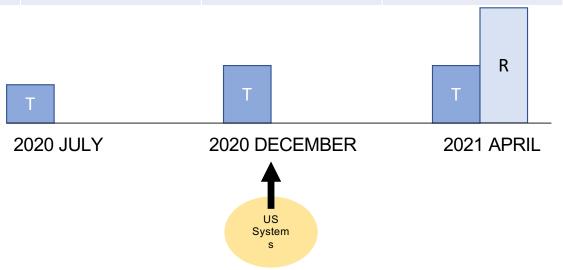




DATA:

Data delivery: Systems added during releases

	JULY 2020	DECEMBER 2020	APRIL 2021
TOTALS	10	16	16
RADIALS			30







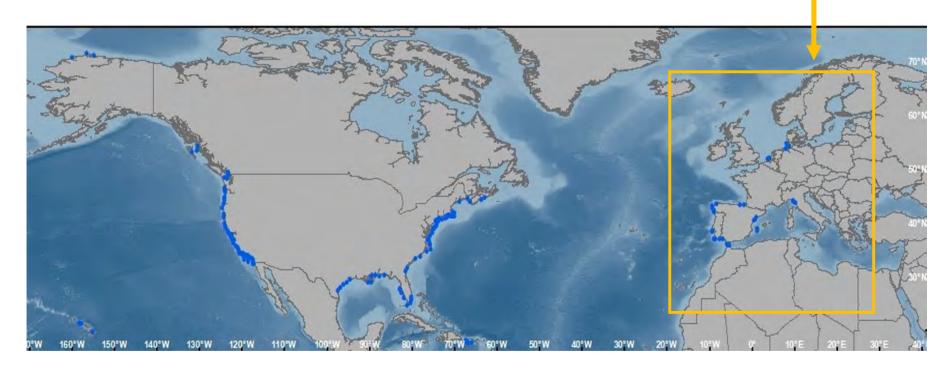


TOTALS: 16 networks

RADIALS: 30 Stations

European + US systems already included

European HFRs



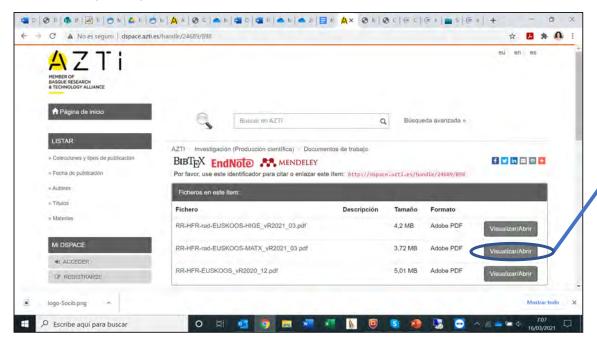






REPORTS CONTENTS

• http://dspace.azti.es

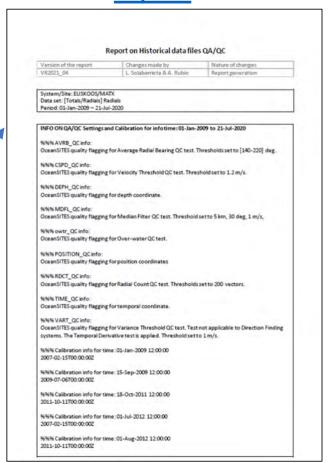






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Reports





REPORTS CONTENTS

I

SYSTEM + PROVIDER INFORMATION

System: [name of the system]
Data set: [Totals/Radials] Total
Period: [beginning and end dates]

INFO ON QA/QC Settings and Calibration

DATA ANALYSIS RESULTS

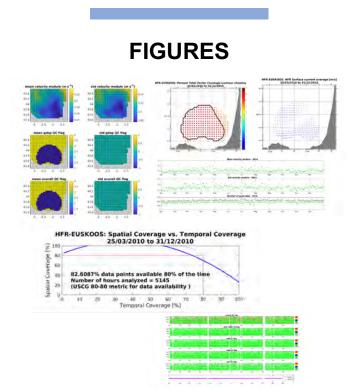
Results of Hist data inspection

General comments

Periods to be reflagged

Reasons for reflagging

Spatial Coverage vs. Temporal coverage: objective of USCG 80-80% data availability



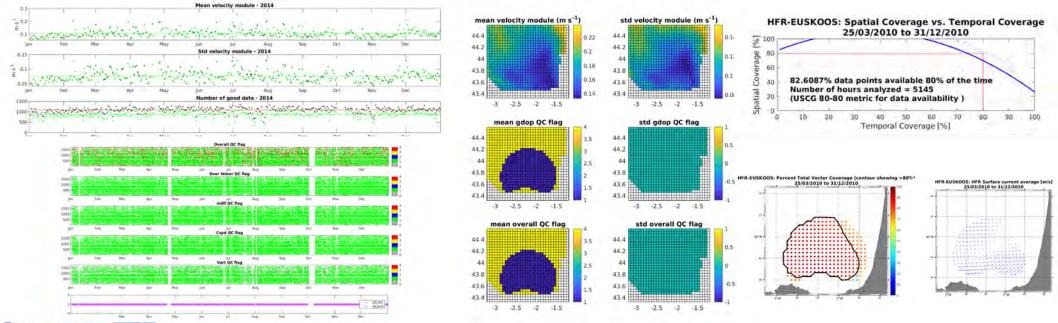






European HF Radar Node / HFR Historical data managemant-delivery

- Fig A Temporal series of the spatial average of the current velocity module (top panel), its standard deviation (middle panel) and the grid points of the total coverage (bottom panel)
- Fig B Temporal series of the QC flags for all the grid nodes with data
- Fig C Maps of the mean velocity module and the mean value of QC flags and their standard deviations
- Fig D Spatial (x-axis) vs. temporal (y-axis) coverage 80/80 annual metric.
- Fig E Map of the % of availability of data in each grid point and contour showing the area of temporal availability >80%
- Fig F- Mean surface current maps for the indicated systems and periods.









FUTURE WORK

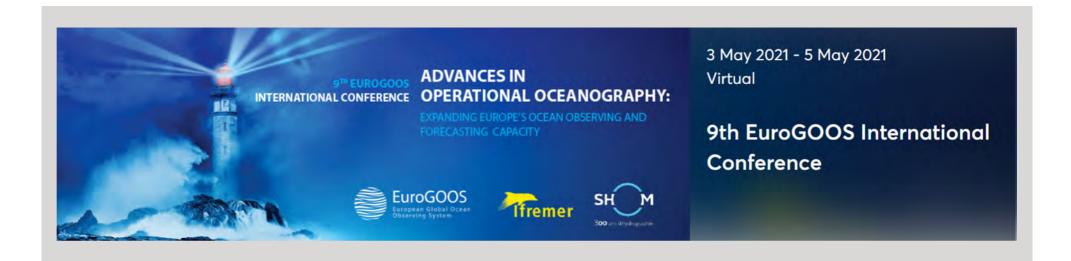
Future work will consolidate these efforts by:

- optimizing the tools for advanced QC and data processing, (automatization)
- expanding the available data series
- · adding new systems.











Thanks for your attention!