HF RADAR WORKCAMP
## "The EU standard: make it your own"

BILBAO (SPAIN), 22-24 OCTOBER 2018

IN A NUTSHELL

This HF radar Workcamp on HF Radar data will be hold in Bilbao, Spain, next October 22nd (afternoon), 23rd and 24th (morning). It aims to take a major step forward in the standardization of the European HF radar data by offering a practical and effective training to the attendees on the use of free software tools for data conversion. We will use the European standard for HF Radar data, European HFR Standard from now on, issued from the projects Jerico-Next, SeaDataCloud, INCREASE (CMEMS-SE), under the supervision of EuroGOOS HFR Task Team and in collaboration with many of you. We are convinced that this new stage will reinforce the visibility and the impact of the European HF Radars, as a network and thus, individually.

During the first afternoon, we will introduce and describe the European HFR Standard, detailing the metadata scheme, the Quality Control procedures and the data format, and afterwards we will provide training for the use of the software tools that allow the transformation of radial and total HFR data from CODAR and WERA native formats to the European HFR Standard. See attached the draft agenda.

The main purpose of the Workcamp is **practical**, putting hands on the software tools we developed, making you able to **start converting your own data** to the European HFR Standard. For that reason, we kindly ask you to bring a computer and a set of data (HFR data files in ruv or tuv format for Codar users or total data in LLUV format for WERA users), otherwise the training will not be possible. Participants shall have skills in control and manipulation of HFR data files.
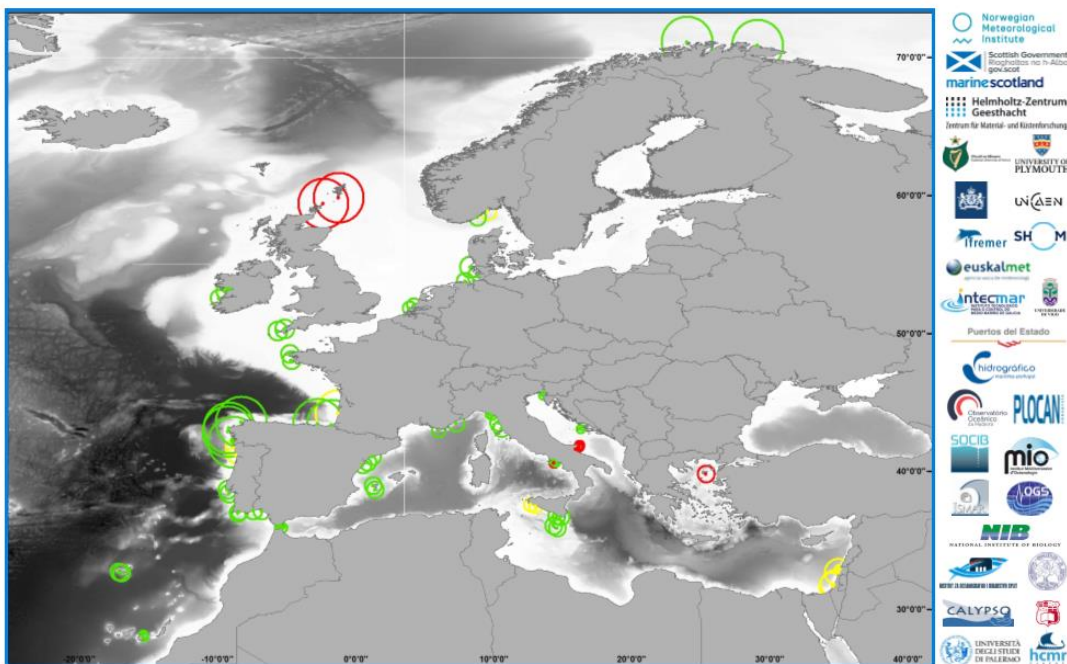
EU HFR Inventory (Update Apr 2018): 58 operational (green); 12 future (yellow); 9 past (red)

DRAFT AGENDA

22 Oct	DAY 1
14.30	Registration and welcome (15')
14.45	Presentation of the activities carried on for the integration of HFR technology at European level (15')
15.00	The framework of data distribution in Europe: CMEMS-INSTAC, EMODnet Physics and SeaDataCloud (15')
15.15	SDC metadata for discovery: EDMO, EDMED, EDMERP, EDIOS, CDI (30')
15.45	Overview of the European common data and metadata model (15')
16.00	Coffee break (30')
16.30	QA/QC tests and flag scheme (30')
17.00	The European common data and metadata model (45')
17:45	Introduction to software solutions for generating HFR datasets compliant with the European common data and metadata model (15')
18.00	Introduction to the hands-on sessions: needed softwares, dependencies and logistics. Confirmation of groups subscription (30')
18.30	End

23 Oct	DAY 2	
09.30	Lab setup (30')	
	JRadar	Matlab
10.00	JRadar installation intro to the software	Overview of the architecture of the Matlab pipeline (30')
10.30	Solving dependencies	Web form for populating the database with network and site information (30')
11.00	Coffee break (30')	
11.30	Running the software, walkthrough (60')	Entry of the HFR network and site information into the database via the web form (90')
12:30	Review of the metadata and data (30')	
13.00	Lunch break (90')	
14.30	QA/QC (90')	Tool for loading and storing total data: walkthrough and practice (45')
		Tool for loading and storing radial data: walkthrough and practice (45')
16.00	Understanding the profiles (30')	Tool for converting TUV files to netCDF files: walkthrough and practice (30')
16.30	Coffee break (30')	
17.00	Load and store data (60')	Tool for converting total files to netCDF files: walkthrough and practice (60')
18:00	Wrap up and Q&A (30')	
18.30	End	

24 Oct	DAY 3	
	JRadar	Matlab
09.00	Wrap up of day 2	Wrap up of day 2 and Q&A (30')
09.30	Console mode, automatic mode (90')	Tool for combining RUV files into totals and integrated generation of netCDF files for radial and total data: walkthrough and practice (90')
11.00	Coffee break (30')	
11.30	Wrap up and Q&A (90')	Visualization tests on IDV (30')
12.00		Wrap up and Q&A (60')
13.00	End	