



## 2021 FerryBox and High-Frequency Radar online workshops, 17-18 March 2021

### Agenda

The event is online using Zoom. 

### 17 March 2021

#### JOINT SESSION chaired by Emilie Breviere

Time CET	Presentation topic	Presenter
13:00-13:10	Welcome and introduction	Bengt Karlson
13:10-13:25	High-Frequency Radar big picture perspective	Julien Mader
13:25-13:40	FerryBox big picture perspective	Yoana Voynova and Andrew King
13:40-13:50	EuroSea	George Petihakis
13:50-14:10	OceanOPS	Mathieu Belbeoch
14:10-14:20	Towards EMODnet 2030: new frameworks and enabling connections	Patrick Gorringer and Antonio Novellino
14:20-14:30	Discussion and closing comments	
<b>14:30-15:00</b>	<b>BREAK in wonder.me</b>	

**PARALLEL SESSIONS:  
FERRYBOX**

Time CET	Presenter	Presentation topic
<b><i>Algal bloom observations using automated systems- Chaired by Bengt Karlson</i></b>		
15:00-15:15	Heidi Sosik	Phytoplankton dynamics on the Northeast U.S. Shelf
15:15-15:30	Luis Felipe Artigas	Characterization of the fine spatial and temporal variability of phytoplankton communities in coastal marine systems from an automated single-cell analysis perspective
15:30-15:45	Melilotus Thyssen	Phytoplankton distribution in the Western Mediterranean sea using automated flow cytometry onboard the ferryline "Le Carthage"
15:45-16:00	<u>Kaisa Kraft</u> , Jukka Seppälä, Heidi Hällfors, Sanna Suikkanen, Otso Velhonoja	Imaging flow cytometry observations of cyanobacterial bloom in the Baltic Sea
16:00-16:15	<u>Bengt Karlson</u> , Maria Karlberg, Wenche Eikrem, Kai Sørensen and Andrew King	A multi method study of algal bloom dynamics in the Kattegat-Skagerrak-Belt Sea area
16:15-16:30	<u>Roxane Tzortzis</u> , Andrea Doglioli, Stéphanie Barrillon, Anne Petrenko and Gérald Gregori	Recent progress in the study of fine-scale physical-biological coupling in the Mediterranean Sea
16:30-16:45	<u>Tobias Boehme</u> and Detlev Lohse	The benefit and method of algae class differentiation with an AlgaeOnlineAnalyser installed on FerryBoxes to acquire information about the in-situ algae class composition in open water
16:45-17:00	Gonzalo Gonzalez-Nuevo	Harmonization and dissemination of TSG data from IEO research vessels: Integrating biogeochemical sensors for application in HAB data services.

## HIGH FREQUENCY RADAR

Time CET	Presenter	Presentation topic
<b><i>European HF Radar network</i></b>		
15:00-15:15	Julien Mader	Introduction to the HF Radar workshop The following presentations are pre-recorded 3min flash introduction and will be followed by questions to presenters
<b><i>Networks</i></b>		
15:15	Aldo Drago (PO.Res.Grp, University of Malta, Malta)	CALYPSO HFR system extends on the southern coast of the Maltese Islands
	Stefano Taddei (Consorzio LaMMA, Italy)	Status of the LaMMA HF Radar network, data validation and services
	Jose González (Centro de Investigación Mariña - Universidade de Vigo, Spain)	RADAR ON RAIA: Outplacement of the HF Radar in the Ría de Vigo (NW Spain); problems, solutions and expected timeframe.
	Anna Rubio (AZTI - BRTA, Spain)	The EUSKOOS HF radar : 12 years of operation and coastal science
<b><i>New stations</i></b>		
	Carlos S. Fernandes (Portuguese Hydrographic Institute, Portugal)	RADAR-ON-RAIA: Adding one more station to the network!
	Ahmed Radwan (National Institute of Oceanography and fisheries (NIOF), Egypt)	Egypt as chance of Oceanography investment

	Guillaume Charria / Louis Marié (LOPS/Ifremer, France)	A new HF Radar system in the southeastern Bay of Biscay - Landes coast
<b>Applications / new projects</b>		
	Pedro Montero (INTECMAR, Spain)	RADAR ON RAIA: waves product for local stakeholders
	Pablo Lorente (Puertos del Estado, Spain)	Monitoring the record-breaking storm Gloria with HF Radar Wave and Current observations
	Giuseppe Ciraolo (University of Palermo, Italy)	i-waveNET project: an innovative sea state conditions monitoring system based on the integration of standard measurements, HF radar network, microseism and modelling
	Emma Reyes (SOCIB, Spain)	Scientific and Societal applications of HF radar surface currents from the Ibiza Channel
	Silvia Piedracoba (CETMAR, Spain)	RADAR ON RAIA: Web platform for the distribution of data and products
	Pablo Lorente (Puertos del Estado, Spain)	RADAR ON RAIA: upwelling index product for local stakeholders
<b>Technology</b>		
	Jorge Sanchez (QUALITAS / CODAR Europe, Spain)	Latest updates from CODAR-QUALITAS on SeaSonde technology
	Lucy Wyatt (Seaview Sensing Ltd, United Kingdom)	New Seaview Sensing software developments for waves, currents and winds
16:45-17:00	Julien Mader	Closing Day 1

# 18 March 2021

Wonder me room open for networking from 12.30

## PARALLEL SESSIONS:

### FERRYBOX

Time CET	Presenter	Presentation topic
<b><i>Automated observations of the carbonate system in the sea- Chaired by Yoana Voynova</i></b>		
13:00-13:15	Richard Sanders	The ICOS Ocean Thematic Centre: how it can help the ferrybox community
13:15-13:30	<u>Vlad Alexandru Macovei</u> , Yoana Voynova, Meike Becker, Jack Triest and Wilhelm Petersen	Long-term intercomparison of two pCO <sub>2</sub> instruments based on ship-of-opportunity measurements in a dynamic shelf sea environment
13:30-13:45	Meike Becker	The northern European shelf as an increasing net sink for CO <sub>2</sub>
13:45-14:00	Gregor Rehder	Imprint of the extreme spring bloom 2018 on the carbon system in the central Gotland Sea - A narrative based on high resolution horizontal (ICOS), vertical (BGC-Argo), and remote sensing observations
14:00-14:15	Anna Willstrand Wranne	Marine research infrastructure on the new Swedish research vessel Svea
<b><i>Novel instruments, methods and data processing- Chaired by Anna Willstrand Wranne</i></b>		
14:15-14:30	<u>Pierre Jaccard</u> , Kai Sørensen, Andrew Luke King, Peter Stig Hansen, Ingar Becsan	Status of Ferrybox installations within NorSOOP and solutions to pandemic issues
14:30-14:45	<u>Villu Kikas</u> , Natalja Buhhalko, Kati Lind and Urmas Lips	New ferrybox system and micro-litter collecting device

14:45-15:00	<u>Francisco Campuzano</u> , Tiago Cristovão, Pedro Lopes, Jorge Alexandre Vieira e Ramiro Neves	Deployment of a Ferrybox Service to monitor the estuarine waters of the Tagus estuary (Portugal)
<b>15:00-15:30</b>	<b>BREAK in Wonder me</b>	
15:30-15:45	<u>Stefan Simis</u> , Adam Wright, Tom Jordan and Thomas Jackson	The solar-tracking radiometry platform (So-Rad): a new open source solution for water colour registration from moving platforms
15:45-16:00	<u>Alain Lefebvre</u> , Kelly Grassi, Andre Bigand and Emilie Poisson-Caillault	Machine Learning and environmental states : how to identify and classify multiparameter environmental conditions along Ferry Box routes?
16:00-16:15	<u>Eleanor Haigh</u> , Annie Meadows, Kate Collingridge, Veronique Creach, Naomi Greenwood	10 years of FerryBox operation on RV Cefas Endeavour: lessons learned, quality control, and future applications.
16:15-16:30	Amanda Nylund, Lars Arneborg, <u>Anders Tengberg</u> , Ulf Mallast & Ida-Maja Hassellöv	Spatiotemporal features of turbulent ship wakes - implications for ferrybox measurements in ship lanes
16:30-16:45	<u>Stefan Marx</u> and Konstantin Keller	Autonomous CO <sub>2</sub> underway and MicroPlastic-Sampler being tested on racing yachts around the world

## HIGH FREQUENCY RADAR

Time CET	Presenter	Presentation topic
13:00-13:10	Julien Mader	Opening Day2
<b><i>Stakeholders ongoing activities</i></b>		
13:10-13:25	Silvia Piedracoba	Identifying the stakeholders, their needs/problems/requirements, the capability of HFR data/products
13:25-13:40	Pablo Lorente	Good practices
13:40-13:55		Discussion on next steps
<b><i>European HF Radar Node</i></b>		
13:55-14:10	Carlo Mantovani/Lorenzo Corgnati	HFR NRT data management/delivery
14:10-14:25	Anna Rubio/Lohitzune Solabarrieta	HFR historical data management/delivery
14:25-14:40	Emma Reyes	Next steps for harmonized outage reporting & Community building
14:40-15:00		Discussion on next steps
<b>15:00-15:30</b>	<b>BREAK in Wonder me</b>	
<b><i>HFR Community Roadmap</i></b>		
15:30-15:45	Anna Rubio / Emma Reyes	R+D activities, projects mapping, promoting joint Research actions
15:45-16:00	Fulvio Capodici	Data Gap filling (ongoing actions and next steps discussion)
16:00-16:15	Enrico Zambianchi	Wave (ongoing actions and next steps discussion)
16:15-16:45		Discussion on next steps

**JOINT CLOSING SESSION:**

Time CET	Session Joint	Presentation topic	Presenter
16:45-17:00	HFR	Summary and highlights	Julien Mader
17:00-17:15	FB	Summary and highlights	Bengt Karlson