



**Final Workshop**  
**Instituto Superior Técnico, Lisboa, Portugal**  
1<sup>st</sup> June 2023

## **iFADO Project legacy for the future**

Francisco Campuzano (+ATLANTIC CoLAB)

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This project has received funding from the European Union's Interreg Atlantic Area programme under the grant EAPA\_165/2016

## Intersessional Correspondence Group on Eutrophication Modelling (ICG-EMO: Participation from +ATLANTIC, IPMA, IEO and MI)



### Deriving pre-eutrophic conditions from an ensemble model approach for the North-West European seas

Sonja M. van Leeuwen<sup>1\*</sup>, Hermann-J. Lenhart<sup>2</sup>, Theo C. Prins<sup>3</sup>, Anouk Blauw<sup>3</sup>, Xavier Desmit<sup>4</sup>, Liam Fernand<sup>5</sup>, Rene Friedland<sup>6,7</sup>, Onur Kerimoglu<sup>8</sup>, Genevieve Lacroix<sup>4</sup>, Annelotte van der Linden<sup>3</sup>, Alain Lefebvre<sup>9</sup>, Johan van der Molen<sup>1</sup>, Martin Plus<sup>9</sup>, Itzel Ruvalcaba Baroni<sup>10</sup>, Tiago Silva<sup>5</sup>, Christoph Stegert<sup>11,12</sup>, Tineke A. Troost<sup>3</sup> and Lauriane Vilmin<sup>3</sup>

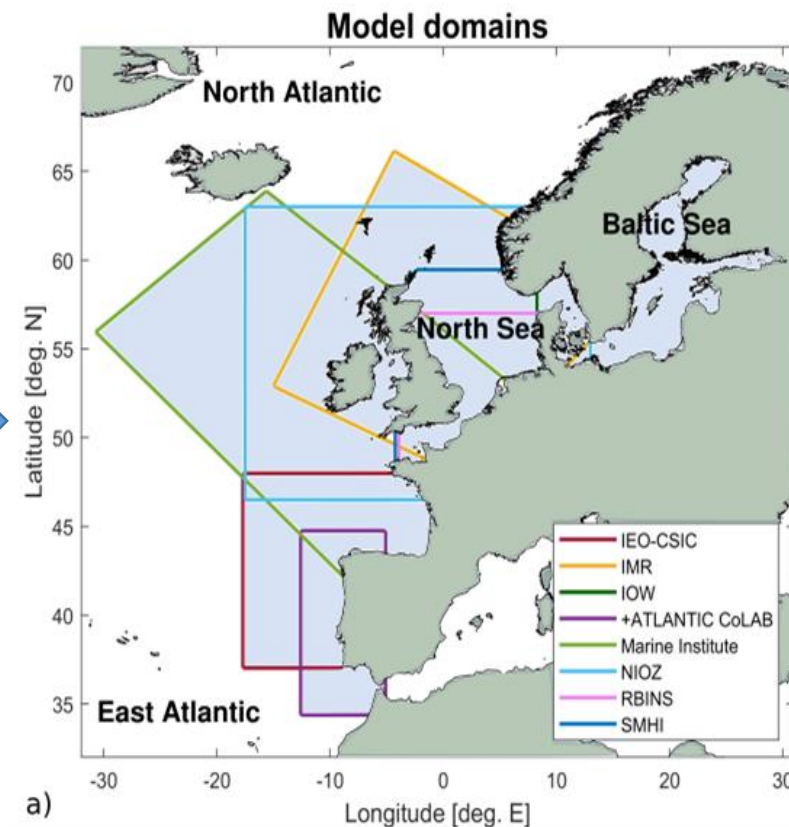
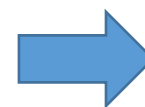
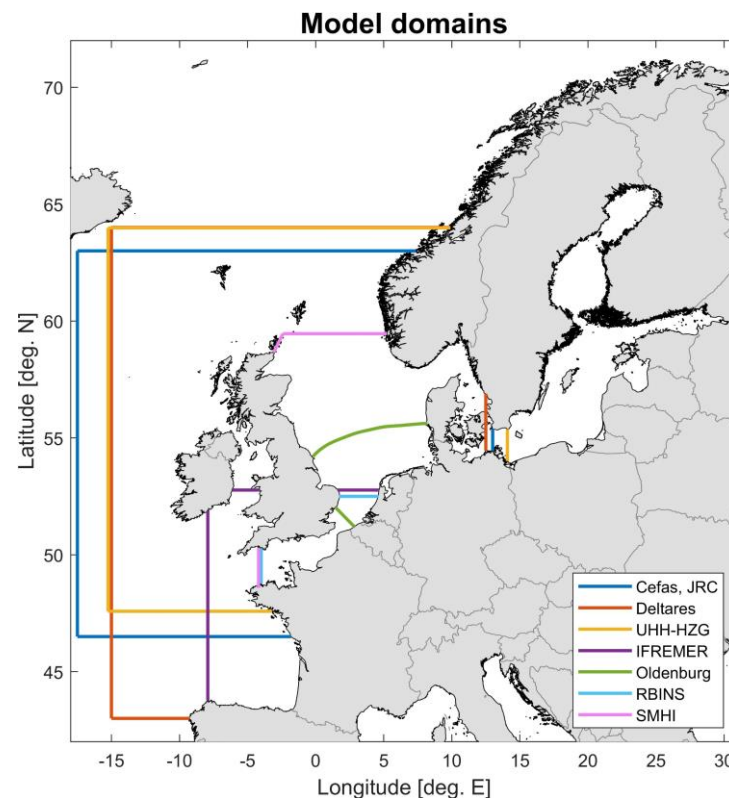
Check for updates

#### OPEN ACCESS

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RECEIVED 22 December 2022



# PIPELINE-DITO project (2023-2024): Consolidating a Portuguese Coastal Downscaling Modelling Service

- Full partners:



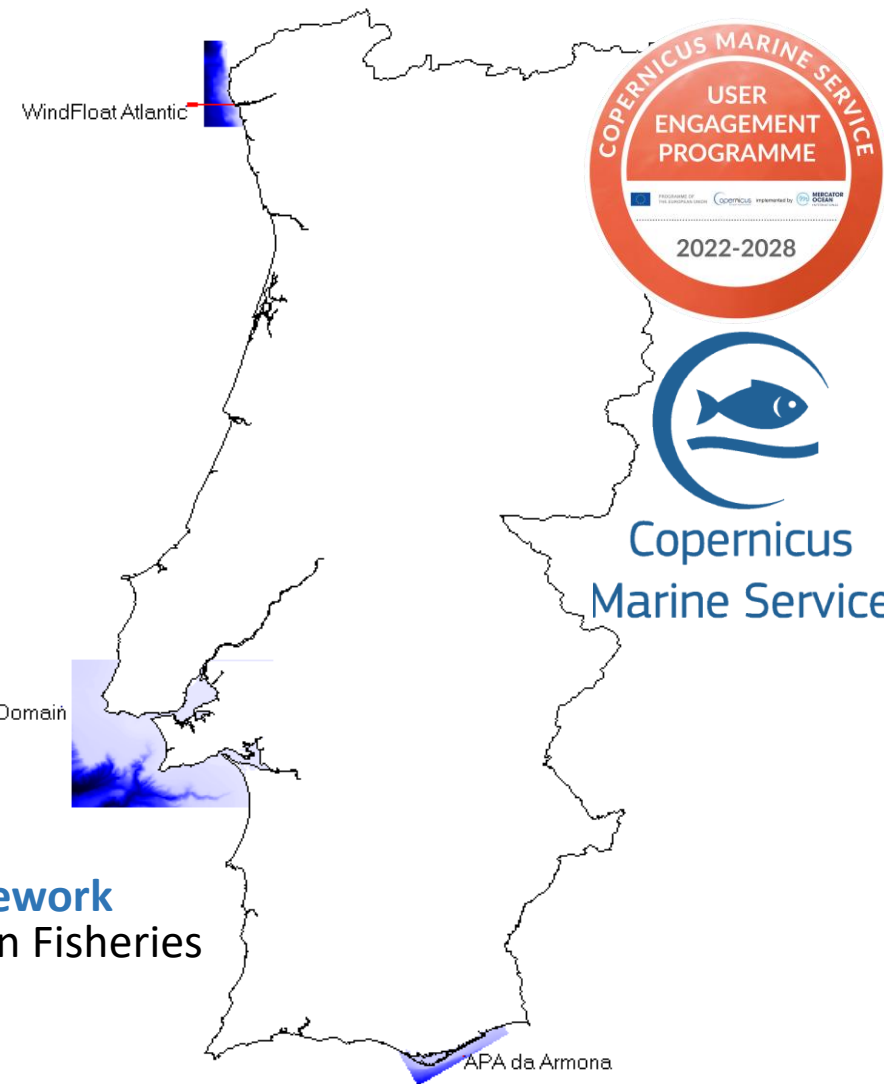
- Subcontracted partner:

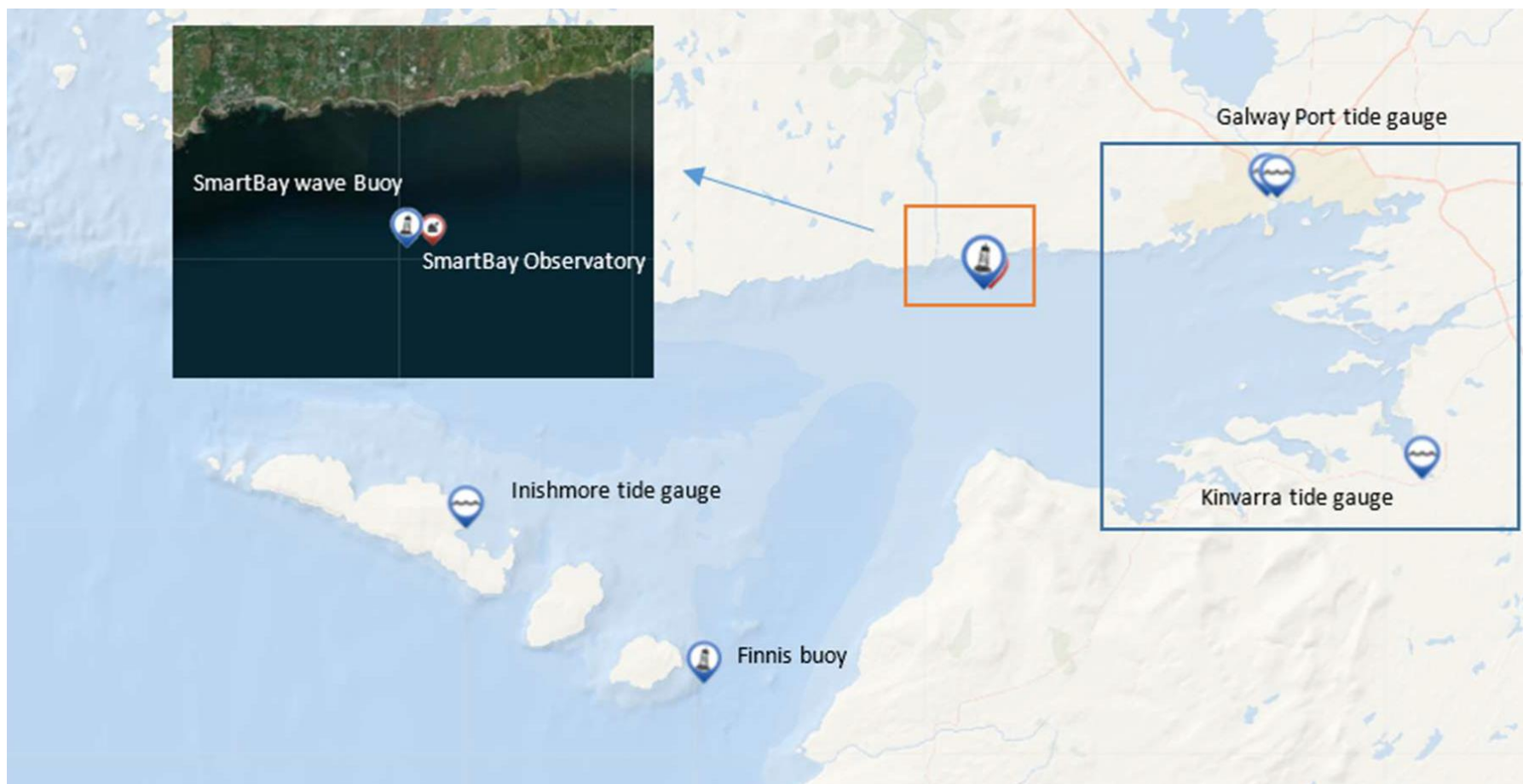


- Support from:

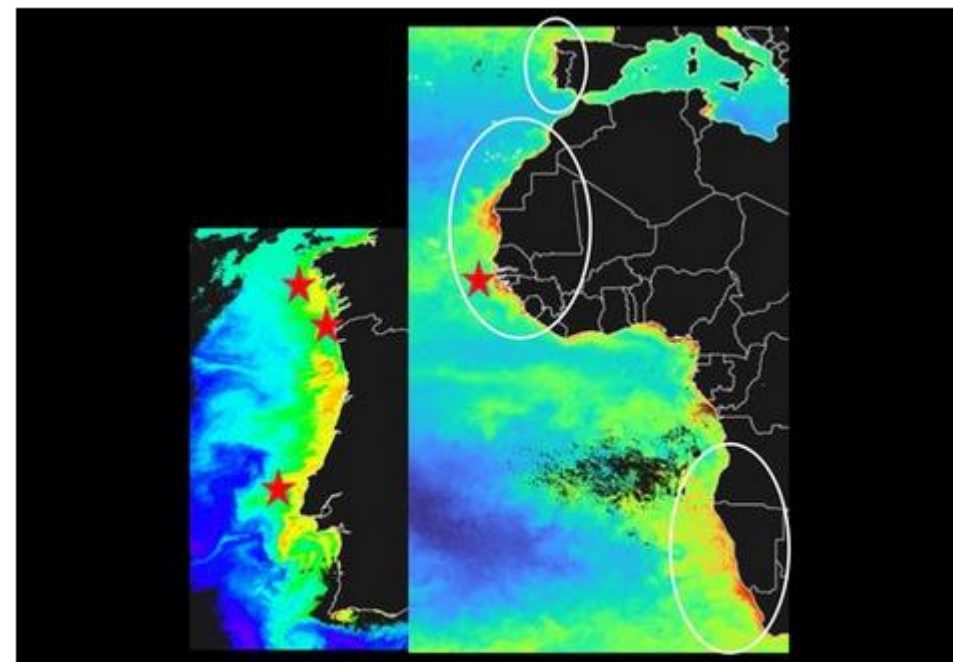
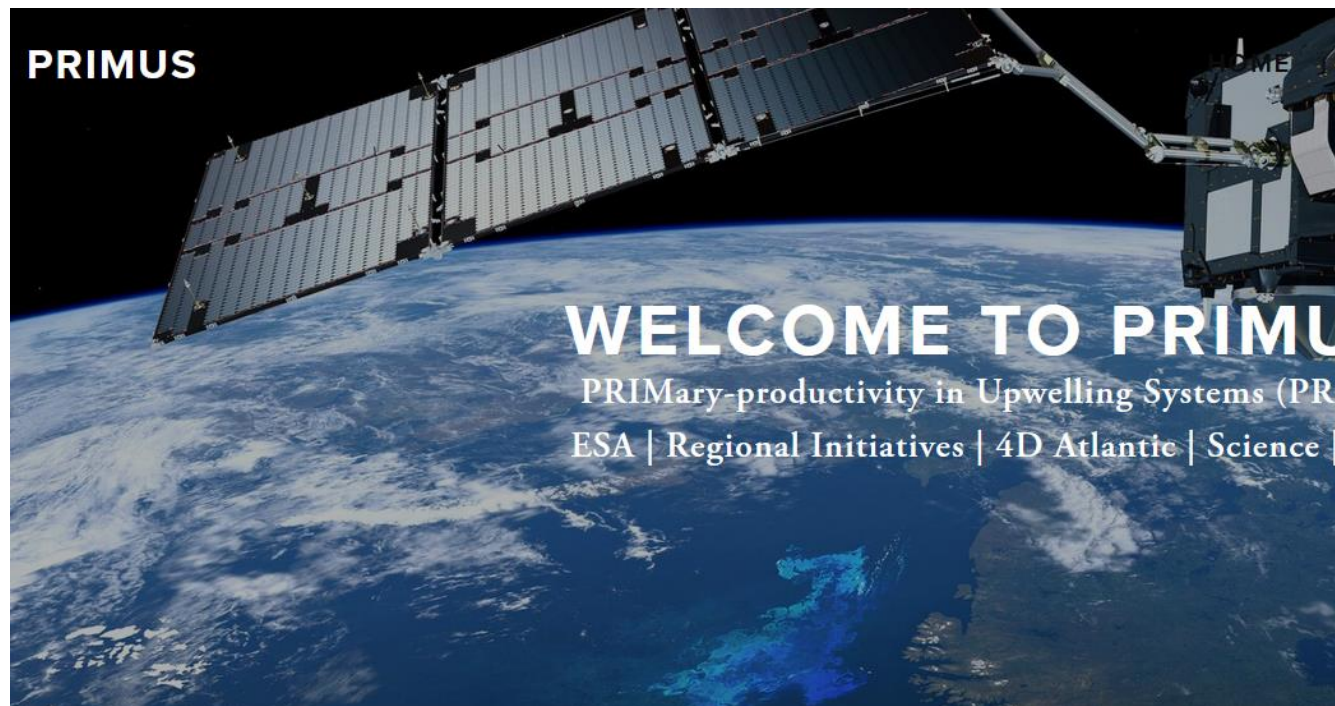


Target EU Directives: Water Framework Directive (WFD), **Marine Strategy Framework Directive (MSFD)**, Bathing Water Directive (BWD), Flood Directive (FD), Common Fisheries Policy (CFP), Maritime Spatial Planning Directive (MSP), Integrated Coastal Zone Management in Europe (ICZM)









## ESA 4D ATLANTIC PROGRAM



**PML**

Plymouth Marine  
Laboratory



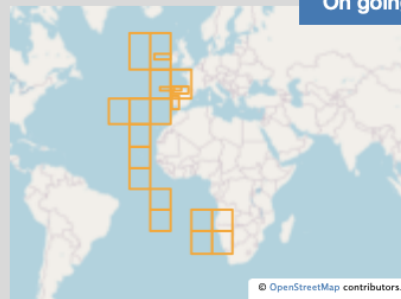
Q Back to search

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Display mode



The iFADO project aims to create marine services at regional and subregional scale using the EU Atlantic Waters as case study. By filling current technical gaps, iFADO would use the Marine Strategy Framework Directive (MSFD) implementation to demonstrate the application of innovative products. The project will combine traditional monitoring with cost-effective, state-of-the-art technologies: remote sensing, numerical modelling and emerging observation platforms such as gliders and oceanic buoys.

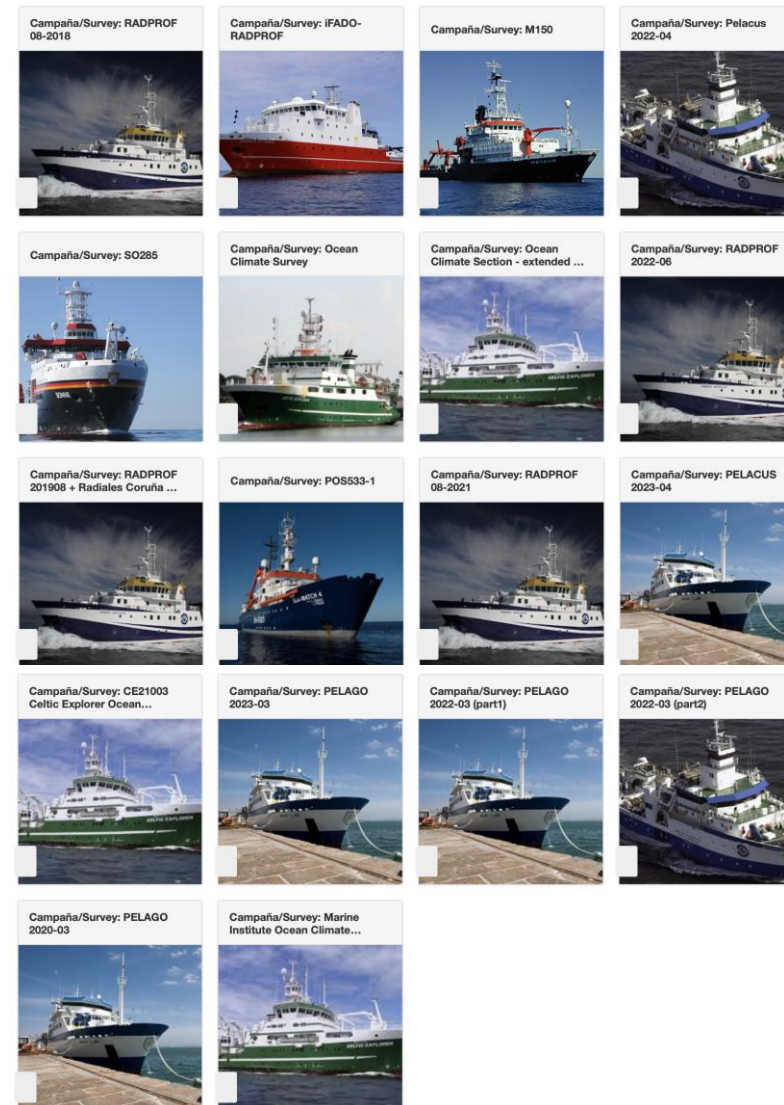


On going

Composed  
of

Years  
facet-Organisation

2018 (3)	2019 (3)	2020 (2)	2021 (3)	2022 (5)	2023 (2)
Center for Tropical Marine Ecology, Bremen (1)					
Helmholtz Centre for Ocean Research Kiel (Westshore campus) (1)					
IEO-CSIC, A Coruna Oceanographic Centre (4)					
IEO-CSIC, Balearic Islands Oceanographic Centre (1)					
IEO-CSIC, Gijon Oceanographic Centre (2)					
IEO-CSIC, Vigo Oceanographic Centre (1)					Marine Institute (4)
Portuguese Institute for Sea and Atmosphere (4)					
Senckenberg by the Sea, Wilhelmshaven (1)					
Celtic Explorer (4)		Miguel Oliver (4)		Ramon Margalef (4)	
Vizconde de Eza (2)		Meteor (1)		Poseidon (1)	
Sarmiento de Gamboa (1)		Sonne (1)			





## ICES ANNUAL SCIENCE CONFERENCE 2023

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### Guidelines for presenters

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### Theme sessions

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## ASC 2023

ICES Annual Science Conference 2023  
11–14 September 2023  
Bilbao, Spain

### #ICESASC23

Join us for the marine science event of the year at [Palacio Euskalduna](#) in Bilbao, Basque Country, Spain!

The ASC 2023 will be a hybrid conference with possibilities to participate both in person and online. [Read more about the hybrid format.](#)

[Register today!](#)

Together with our local organizer [AZTI](#) we look forward to welcoming you to beautiful Bilbao!



## Theme session N

An Unexpected Journey - continuing the pathway for oceanography in ICES science and advice

During the 2022 ICES Annual Science Conference, the uptake and visibility of oceanography in ICES science and advice was explored as part of a [network session](#) and a [theme session](#). This is a continued effort towards incorporating environmental information on the ocean climate into fisheries, aquaculture and ecosystem science.

This theme session will invite presentations and posters to demonstrate successful integration from physics to "fish" (or other ecosystem components), as well as examples of good practice. A key focus will be to provide dialogue, networking, and information sharing opportunities for scientists from across ICES community.

ICES Working Groups on Oceanic Hydrography (WGOH) and on Operational Oceanographic products for Fisheries and Environment (WGOOFE) will gather key messages from the 2022 sessions to ensure we continue our path along the "Unexpected Journey" to further integration of oceanographic data and information in ICES work.



[VIEW ALL THEME SESSIONS](#)

[GO TO CALL FOR ABSTRACTS](#)

### Conveners:

Francisco Campuzano (Portugal)  
Tomasz Dabrowski (Ireland)  
Tycjan Wodzinowski (Poland)

## Genova The Grand Finale

Italy



**24 JUN 23**

Ocean Live Park  
opening



**25 JUN 23**

ETA



## NAUTILOS Policy Round Table - Supporting Ocean Observations

Moderator: A. Novellino

27 June 2023, Genova

10.30 - 13.00

The "Policy Round Table - Supporting Ocean Observations" panel will represent a true moment of policy making, within the international context of the NAUTILOS project, aimed at identifying the main issues related to Ocean Observation activities and strategies aimed at mitigating them. The NAUTILOS project (New Approach to Underwater Technologies for Innovative, Low-cost Ocean observationS) aims to unlock critical knowledge contained in the ocean in the coming decades and to realize the mutual benefits of marine observation. The H2020 flagship project aims to develop a new generation of low-cost sensors and samplers and integrate observation technologies and platforms in large-scale demonstrations in European seas, making a significant contribution to the democratization of marine environment monitoring.

**Supporting Ocean Observations – opening**  
*N. Segebarth (EC DG RTD Healthy Oceans and Seas)*

**The Importance of Ocean Observation in a Changing Climate**  
*A. Parodi (CIMA), G. Pieri (CNR ISTI\*), A. Meijers (UK BAS)*

**The Need for Ongoing and Better Support for Ocean Observation**  
*I. Lips (EuroGOOS), J. Dañobeitia (EMSO), M. Ntoumas (HCMR\*)*

**The Importance of Closing Data and Knowledge Gaps**  
*K. Larkin (EMODnet), F. Martins (Uni Alg. \*), T. De Bruin (IODE)*

**The Need for a Balance Between Action and Observation**  
*JB. Calewart (EMODnet), F. Pescetto (ONTM), L. Tixi (Outdoor Portofino), F. Campuzano (+ATLANTIC CoLAB), G. Caprino (DLTM)*

\*NAUTILOS project ([www.nautilus-h2020.eu](http://www.nautilus-h2020.eu))

Pre-registration @ <https://bit.ly/41WOARj>







Build. Launch. Learn.  
EDUCATIONAL PASSAGES

MINIBOATS

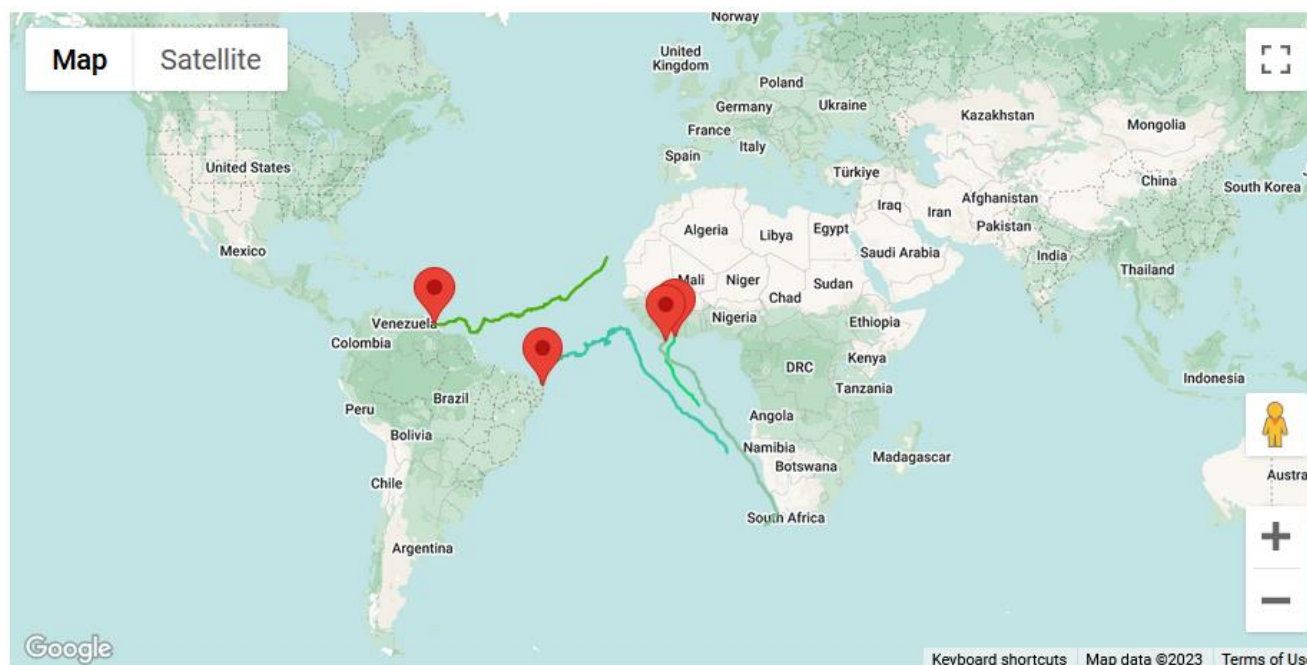
RESOURCES

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## NF-POGO Miniboats Project



### Boats:

El Cisne Alto (The Tall  
Swan)

Schnelle Welle (Fast Wave)

Spiorad na Gaillimhe (Spirit  
of Galway)

Yemaya



PML and U Lisbon  
continue partnership in  
involvement in the AMT  
cruise programme



# PAAnoramic

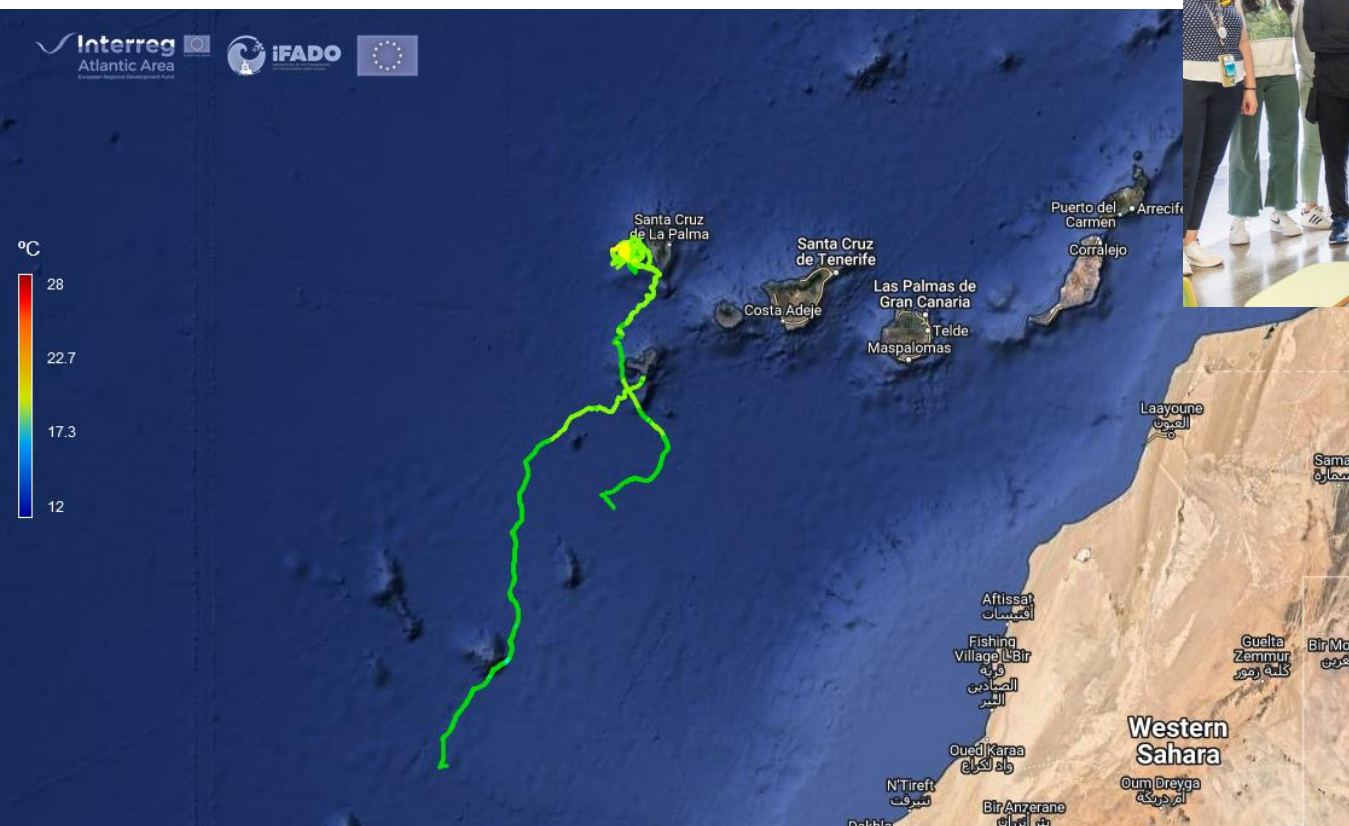
1st European Atlantic Area International  
multi-platform Ocean Monitoring Mission



SUPPORT OF:







- Brotas, V., Tarran, G.A., Veloso, V., Brewin, R.J.W, Woodward, E.M.S., Airs, R., Beltran, C., Ferreira, A., Groom, S.B. (2022) Complementary Approaches to Assess Phytoplankton Groups and Size Classes on a Long Transect in the Atlantic Ocean, *Frontiers in Marine Science*, 8, 10.3389/fmars.2021.682621
- Brotas, V., V. Veloso, A. Tracana, A., Ferreira, C.V. Guerreiro, G.A. Tarran, M. Woodward, D. Clewley and S.B, Groom (submitted to *Frontiers in Marine Science*) Patterns of phytoplankton community composition the Atlantic Ocean and species variability over 25 years
- Quartly, G.D., J. Aiken, R.J.W. Brewin, and A. Yool, The link between surface and sub-surface chlorophyll in the centre of the Atlantic subtropical gyres: A comparison of observations and models (submitted to *Frontiers in Marine Science*)
- Han, G., G.D. Quartly, G. Chen, and J. Yang, Contrasting phytoplankton response to mesoscale eddies in the subtropical and mid-latitude North Atlantic (resubmission, prob. to *JGR or IEEE Geosci. & Rem. Sens*)
- Tilstone and Land in prep for GCB







INNOVATION IN THE FRAMEWORK  
OF THE ATLANTIC DEEP OCEAN

Thank you  
for your  
attention!



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