

# IBISAR: ONE YEAR OF SUPPORTING EMERGENCY RESPONSE AT SEA



## USE CASE OVERVIEW



IBISAR is celebrating one year of service helping the Search and Rescue (SAR) operators and emergency responders to select the most accurate ocean forecast.

IBISAR - Why? Effective response to emergencies at the sea needs reliable ocean current predictions. SAR operators and emergency responders therefore need to evaluate the performance of different ocean predictions available in near real-time.

IBISAR - What is it? A user-friendly, science-based data downstream service that allows visualising, comparing and evaluating the performance of ocean current predictions in the Iberia-Biscay-Ireland (IBI) regional seas.

IBISAR - How does it help? It allows identifying the most accurate ocean current dataset in a specific area and period of interest, thus facilitating decision-making to SAR operators and emergency responders, which, in turn, supports the emergency response at sea.

## BENEFITS FOR USER

- Funding for hiring staff and developing new downstream services
- Parent models for dynamical downscaling
- Satellite and in-situ near real-time observations for data assimilation and model assessment
- Single access point for all products
- Training workshops for identifying relevant products
- Visibility of the developed downstream services

• SEARCH AND RESCUE • MARINE POLLUTION • SAFETY • WEB SERVICE • EMERGENCY RESPONSE • OCEAN FORECAST



SAFETY & DISASTER



Implemented by  
**MERCATOR OCEAN INTERNATIONAL**

FACTS AND KEY NUMBERS



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IBISAR catalogue: 8 ocean models, 6 HF Radar datasets, and all drifters available in Copernicus Marine portfolio have been integrated.

IBISAR methodology validation: using 144 drifters available at Copernicus Marine Service over 4 pilot areas of the IBI region.

IBISAR user metrics: the number of visits in the website from 56 different countries worldwide was 541, with 297 users from 20 different countries since the 15th March 2019.

IBISAR and NOOS-Drift synergies: to fill the gap in the North West Shelf area.

CMEMS PRODUCT IN USE



To simulate trajectories using available forecast models and compare them with real drifter trajectories, IBISAR uses Copernicus Marine Physical Models and in-situ products (i.e., high-frequency radars and satellite-tracked surface drifters).

- Product in use 1
- Product in use 2
- Product in use 3
- Product in use 4

CMEMS USER



A Public-Private Partnership of intermediate-users: a Marine Research Infrastructure and data provider (SOCIB, public sector), a technological centre with expertise on marine research (AZTI Tecnalia, private non-profit organization) and a downstream consulting company (RPS Ocean Science, private sector). The Spanish Port System and the Maritime Safety and Rescue Agency actively collaborate.



More information here



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