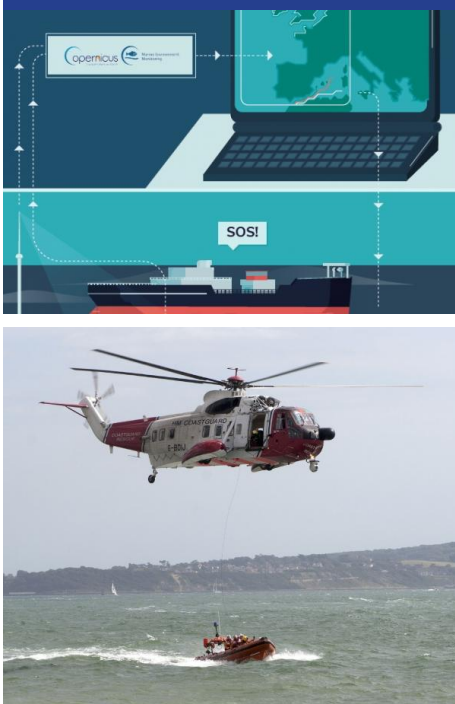


IBISAR WEB SERVICE IN SUPPORT TO SEARCH AND RESCUE OPERATIONS



USE CASE OVERVIEW



IBISAR is a service aiming to provide real-time information of the ocean current forecast available in the Iberian-Biscay-Irish (IBI) regional seas and to assess their performance. It is an automated service helping users to choose the most accurate ocean current prediction. It is a complementary tool for Search and Rescue operations and environmental modelling applications in 3 steps:

1. Simulates trajectories using the available forecast models in the area and period of interest.

2. Compares simulated trajectories vs. real drifters.

3. Scores the available models based on their performance.

IBISAR will be accessible online in November 2019, under subscription, via the IBISAR website (<http://www.ibisar.es>).

IBISAR will include 3 main elements:

- i. The regularly updated database of current forecasts and observations.

- ii. The graphical interface for visualizing data.

- iii. The Skill Assessment functionality, which computes model assessment and displays easily interpretable metrics of model accuracy.

BENEFITS FOR USER

- Easily interpretable metric
- Improve Search and Rescue and pollution control operations.
- Minimize response time.
- Optimize search area planning.
- Single access to datasets with regularly updated database

• SEARCH AND RESCUE OPERATIONS • POLLUTION COMBAT • OCEAN CURRENTS • HF RADAR SURFACE CURRENTS



MARITIME
SAFETY



Copernicus
Europe's eyes on Earth



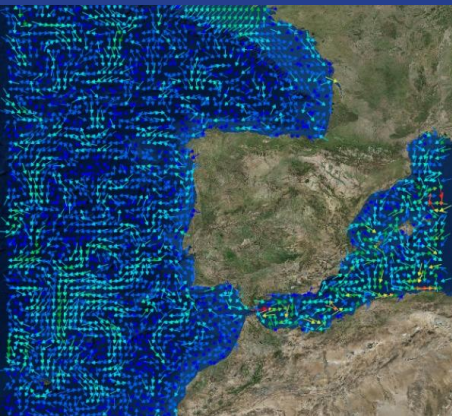
Implemented by
**MERCATOR
OCEAN
INTERNATIONAL**

FACTS AND KEY NUMBERS



Government agencies and private companies responsible for Search and Rescue operations, marine pollution and maritime traffic control rely on the most reliable forecasts to accurately predict trajectories of drifting targets to determine an optimal search region. The reliability of the prediction depends on the accuracy of current and wind provided by forecast models, thus requesting an automated model skill assessment service. More than 1500 professionals will benefit from this service. More than 4000 Search and Rescue operations occurred in Spain in 2017. More than 36000 people assisted in 2017 by the Spanish Search and Rescue (~ 99/day on average).

CMEMS PRODUCT IN USE



Ocean model products from four areas (IBI, MED, NWS, GLO) are used as target sources. In-situ monitoring products are used as reference source. The main novelty of the service is the integration of HF radar surface currents, one of the new observing platforms. Satellite products for data assimilation and model assessment and other complementary datasets from in-situ observations and high-resolution regional and coastal ocean models are also used.

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

CMEMS USER



SOCIB is the Balearic Islands Coastal Ocean Observing and Forecasting System. AZTI Tecnalia (<http://www.azti.es>) is a technological center based in Spain. RPS Ocean Science (<http://www.rpsgroup.com>) is an environmental consultancy and technology solutions company. SASEMAR (Spanish Maritime Safety and Rescue Agency) and Puertos del Estado (Spanish Port System) collaborate as key actors.

More information here



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