



WINDS



PREDICTION



CURRENTS



OBSERVATION

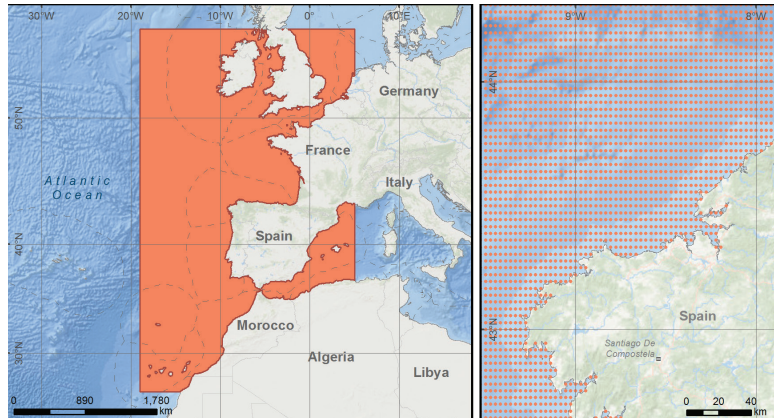
GLOBAL

REGIONAL

LOCAL

EDS CATALOG

COPERNICUS IBERIA-BISCAY-IRELAND (IBI)



Key details

The Iberia-Biscay-Irish Monitoring Forecasting Centre (IBI MFC) provides a near-real-time short-term regional forecast of currents and other oceanographic variables for the European Atlantic facade. IBI MFC is run by Copernicus Marine Environment Monitoring Service (CMEMS) which is the European Earth observation and monitoring program, and currently is developed and operated by a consortium that includes the French national meteorological service (MeteoFrance), the Spanish meteorological agency (AEMET), the Irish Marine Institute, and the Supercomputing Center of Galicia (CESGA).

The IBI MFC ocean forecast is based on a Nucleus for European Modelling of the Ocean (NEMO v3.6) model application, driven by high frequency meteorological and oceanographic forcing from the European Centre of Medium Weather Forecast (ECMWF) and CMEMS, and bathymetry derived from the General Bathymetric Chart of the Oceans. Lateral open boundary conditions include temperature, salinity, velocities, and sea level, interpolated from the CMEMS GLOBAL eddy resolving system, river discharge of the main 33 rivers, and were complemented by 11 tidal harmonics (M2, S2, N2, K1, O1, Q1, M4, K2, P1, Mf, and Mm) from TPXO tidal models solutions. The model benefits from assimilation of in situ and satellite data.

Data Provider: <http://marine.copernicus.eu/>

EDS Data Product	Copernicus IBI
Coverage	[26 to 56]°N , [-19 to 5]°E
Owner/Provider	CMEMS
Type of Data	Current Predictions
Forecast Length	120 hours
Vertical Coordinate	Z-Level
Min and Max water Depth	0 and 5800m below Mean Sea Level
Number of Vertical Layers	50
Depth of Surface Layer	1m
Horizontal Grid Size	0.028°x0.028° (~3km x ~3km)
Model Run Frequency	Daily
Time Step	1 hour
Wind Forcing	ECMWF
River Flow	Yes
Tides	Yes