



WINDS



PREDICTION



CURRENTS



OBSERVATION

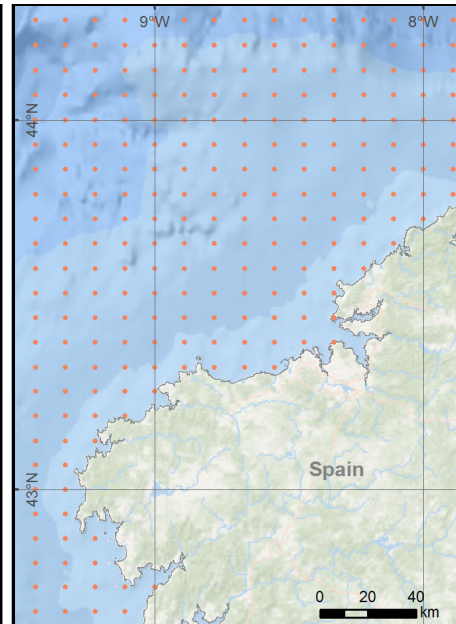
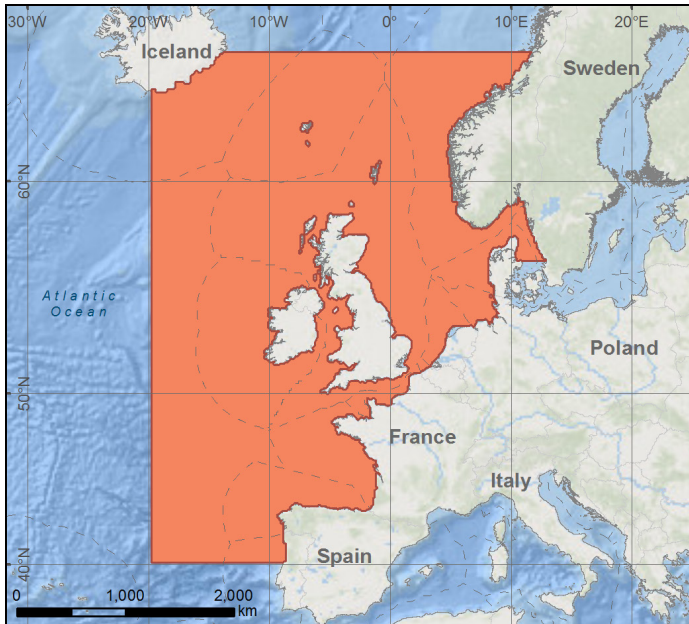
GLOBAL

REGIONAL

LOCAL

EDS CATALOG

COPERNICUS EUROPEAN ATLANTIC NORTHWEST SHELF



The European Atlantic North West Shelf (NWS) Monitoring Forecasting Centre implemented an operational forecasting system over the North Sea, the Irish Sea, and the English Channel. The NWS-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 including the French national meteorological service, the Spanish meteorological agency, the Irish Marine Institute, and the Supercomputing Center of Galicia. The model provides the forecast using the Nucleus for European Modelling of the Ocean (NEMO v3.6). The NEMOVAR 3D-Var First Guess Appropriate Time is used for data assimilation of sea surface height, vertical profiles of temperature and salinity, and sea level anomaly. The model is forced by tides, temperature, and salinity from the CMEMS Baltic MFC system at its boundary. River fluxes come from a climatology of daily discharge data for 279 rivers from the Global River Discharge Data Base and from data prepared by the Centre for Ecology and Hydrology. The bathymetry is generated from a modified version of the GEBCO 1arc-second grid.

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

Key details

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|-----------------------------|--|
| EDS Data Product | Copernicus European Atlantic Northwest Shelf |
| Coverage | [40 to 65]°N , [-20 to 13]° E |
| Owner/Provider | CMEMS |
| Type of Data | Current Predictions |
| Forecast Length | 168 hours |
| Horizontal Grid Size | 0.111° x 0.067° (~9.5km x ~7.5km) |
| Model Run Frequency | Daily |
| Time Step | 1 hour |
| Wind Forcing | ECMWF |
| River Flow | Yes |
| Tides | Yes |