WINDS

PREDICTION

CURRENTS

OBSERVATION
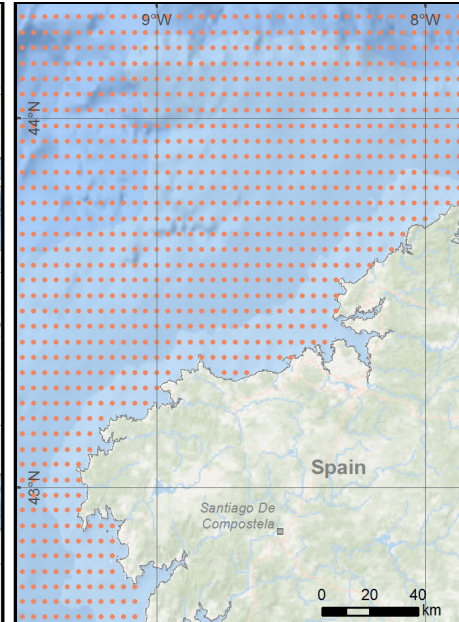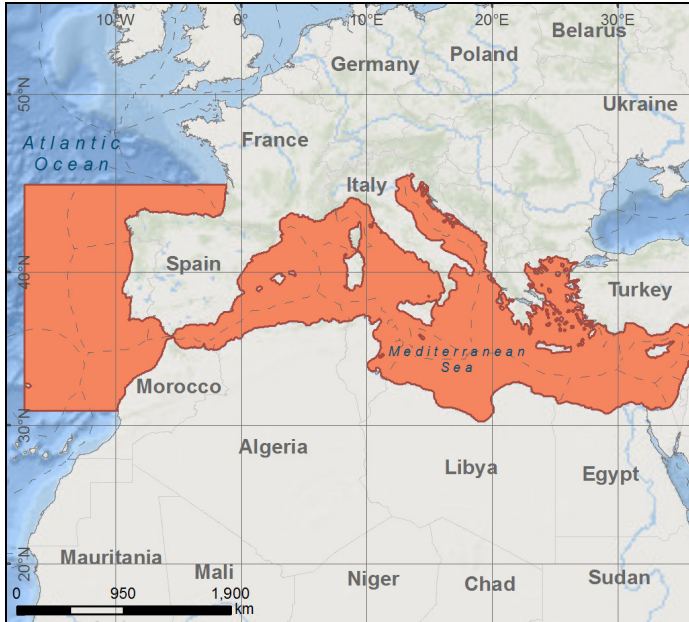
GLOBAL

REGIONAL

LOCAL

EDS CATALOG

COPERNICUS MEDITERRANEAN SEA

The Mediterranean Sea operational forecast is run and delivered by Monitoring Forecasting Centre (MED MFC) under Copernicus Marine Environment Monitoring Service (CMEMS). CMEMS 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 model covers the entirety of the Mediterranean Sea and extends into the Atlantic Ocean, to resolve the exchanges between the Atlantic and the Mediterranean at the Strait of Gibraltar. It is nested within the Global Ocean operational system (CMEMS GLO MFC), which provides its lateral open boundary conditions (temperature, salinity, velocities, and sea level). The model is forced by momentum, water and heat fluxes, and bathymetry generated from a filtered and modified version of the GEBCO 30arc-second grid. Data assimilation includes in-situ data of vertical profiles of temperature and salinity, and satellite data of Sea Level Anomaly (SLA) and Sea Surface Temperature (SST).

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

Key details

EDS Data Product	Copernicus Mediterranean Sea
Coverage	[30.187 to 45.979]°N, [-17.292 to 36.292]°E
Owner/Provider	CMEMS
Type of Data	Current Predictions
Forecast Length	120 hours
Horizontal Grid Size	0.042°x0.042° (~4km x ~4km)
Model Run Frequency	Daily
Time Step	1 hour
Wind Forcing	ECMWF
River Flow	Yes
Tides	Yes

rps MAKING COMPLEX EASY