



WINDS



PREDICTION



CURRENTS



OBSERVATION

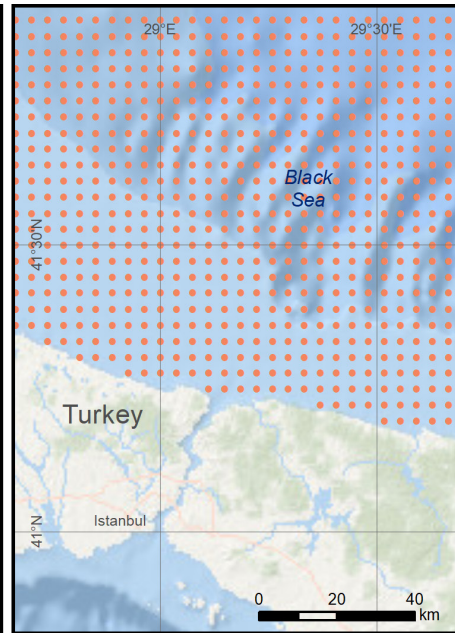
GLOBAL

REGIONAL

LOCAL

EDS CATALOG

COPERNICUS BLACK SEA



The Copernicus Black Sea operational Forecast is run and delivered by Black Sea – Monitoring Forecasting Centre (BS MFC) under Copernicus Marine Environment Monitoring Service (CMEMS). BS MFC is coordinated by a consortium that includes the Institute of Oceanology - Bulgarian Academy of Sciences (IO-BAS, Bulgaria), Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC, Italy), Helmholtz-Zentrum Geesthacht (HZG, Germany), Université de Liège (ULiège, Belgium), Sofia University “St. Kliment Ohridski” (USOF, Bulgaria), National Institute of Hydrology and Water Management (NIHWM, Romania). The forecasting system is based on version 3.4 of the Nucleus for European Modelling of the Ocean (NEMO) ocean model. The bathymetry dataset used in the system is GEBCO, and the atmospheric fields for forcing the ocean model come from the European Centre for Medium-Range Weather Forecasts (ECMWF). A 3-hourly time resolution fields are used for the first three days, while 6-hourly fields are used for the remaining 7 days. The atmospheric forcing variables include zonal and meridional components of wind, total cloud cover, air temperature, dew point temperature, mean sea level pressure and precipitation. Data assimilation for the modeling includes in-situ data of vertical profiles of temperature and salinity, satellite data of sea level anomaly, and sea surface temperature.

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

Key details

EDS Data Product	Copernicus, Black Sea
Coverage	Regional [40.86 to 46.80]°N, [27.32 to 41.96]°E
Owner/Provider	CMEMS
Type of Data	Current Predictions
Forecast Length	240 hours
Horizontal Grid Size	0.037°x0.028° (~3km x ~3km)
Model Run Frequency	Daily
Time Step	1 hour
Wind Forcing	ECMWF
River Flow	Yes
Tides	No