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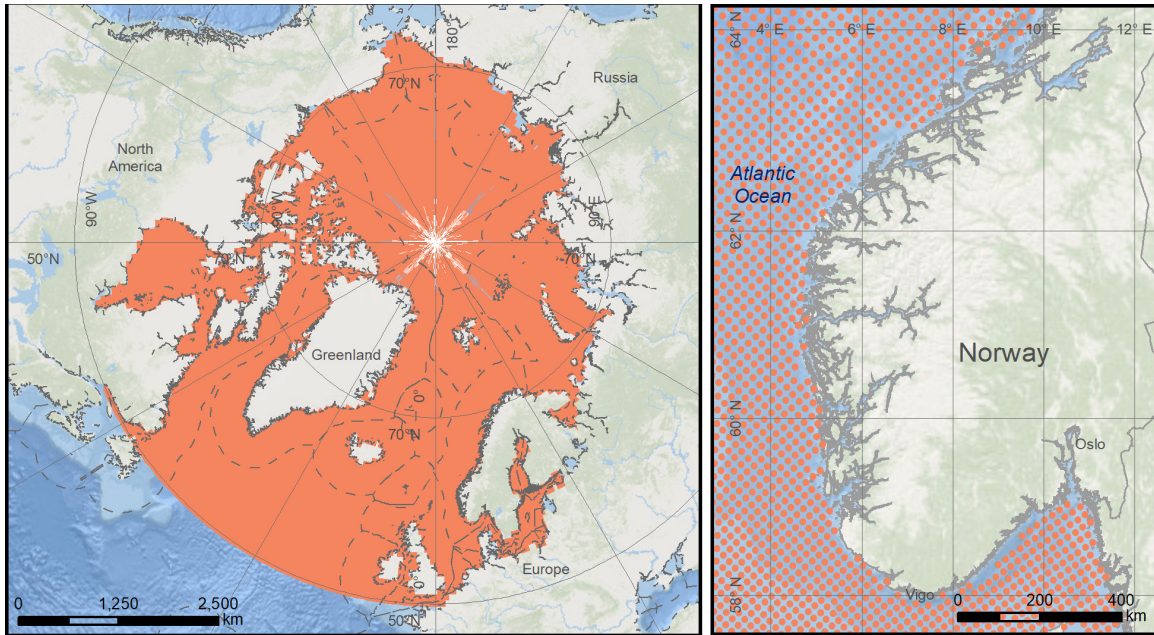
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# COPERNICUS ARCTIC OCEAN



## Key details

The Copernicus, Arctic Ocean operational Forecast is run and delivered by Arctic – Monitoring Forecasting Centre (ARC MFC) under Copernicus Marine Environment Monitoring Service (CMEMS). ARC MFC is led by Nansen Environmental and Remote Sensing Center (NERSC, Norway) in collaboration with Norwegian Meteorological Institute (MET Norway) and the Institute of Marine Research (IMR, Norway).

TOPAZ4 data assimilation system is at the core of the Arctic Ocean forecast, which uses the latest version of the Hybrid Coordinate Ocean Model (HYCOM). TOPAZ4 also uses the Ensemble Kalman filter to assimilate remotely sensed sea level anomalies, sea surface temperature, sea ice concentration, sea ice thickness and Lagrangian sea ice velocities. The bathymetry dataset used in the system is GEBCO while the atmospheric fields for forcing the ocean model come from European Centre for Medium-Range Weather Forecasts (ECMWF).

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

<b>EDS Data Product</b>	Copernicus, Arctic Ocean
<b>Coverage</b>	Regional [90 to 50]°N, [-180 to 180]°E
<b>Owner/Provider</b>	CMEMS
<b>Type of Data</b>	Current Predictions
<b>Forecast Length</b>	240 Hours
<b>Horizontal Grid Size</b>	0.125°x 0.125° (12.5km x 12.5km)
<b>Model Run Frequency</b>	Daily
<b>Time Step</b>	1 Hour
<b>Wind Forcing</b>	ECMWF
<b>River Flow</b>	Yes
<b>Tides</b>	No