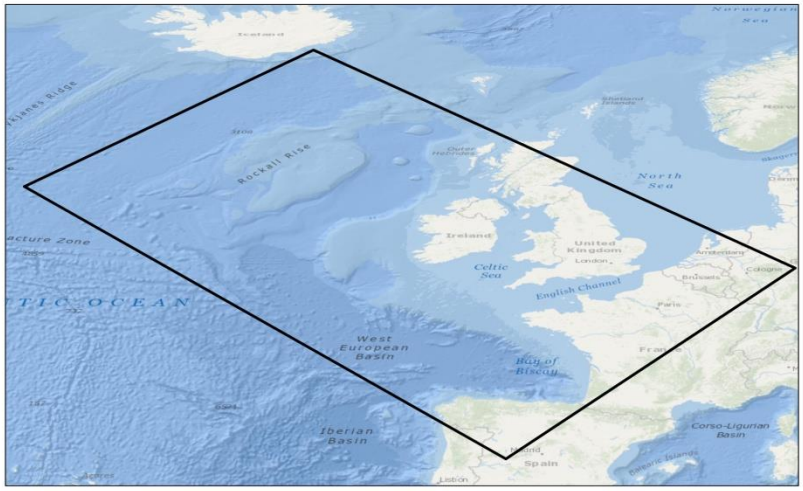
Name	NE_Atlantic
Domain	A rotated quadrilateral with corners at -30.72,55.95; -15.64,63.88; 9.48,51.21; -5.60,40.13. 
Description	The NE_Atlantic model is an implementation of ROMS for a domain covering Irish coastal and oceanic waters.
Type	Hindcast and Forecast 3D Physics
Code	ROMS 3.7
Grid size	1200x750x40
Horizontal Resolution	Variable from 1.2 to 2km
RUN Initialisation	At the beginning of each year a “new model run” is initialised using the CMEMS product, GLOBAL_ANALYSIS_FORECAST_PHY_001_024-TDS (allowing at least 2 weeks of ramp-up before the beginning of the year).
Atmospheric Forcing	1-Hourly ECMWF operational forcing
Open Boundary Conditions	CMEMS product, GLOBAL_ANALYSIS_FORECAST_PHY_001_024-TDS
Tidal Forcing	TPX08 – OSU Topex/Poseidon Global Inverse Solution.
Runoff	Mixture of operational measured flow and climatological river flow
Boundary Nudging/relaxation	Yes for Hindcast – (CMEMS Global model temperature and salinity)
Surface Nudging/relaxation	Yes for Hindcast – (CMEMS Global model SST)
Data assimilation	No
HC/FC Initialisation	The model is hot-started from the appropriate weekly hindcast or daily forecast restart file
Simulation length	7-day hindcast; 3-day forecast
Model Run Frequency	Hindcast = weekly; Forecast = daily
Model Output	1-hourly netcdf file (3-hourly for T&S), 10-minute time series at selected locations
Computing Resources	Simulations are run on HPC operated by the Irish Centre for High-End Computing (ICHEC)
Storage/Backup	Data stored on MI network storage with regular back-ups