



WINDS



PREDICTION



CURRENTS



OBSERVATION

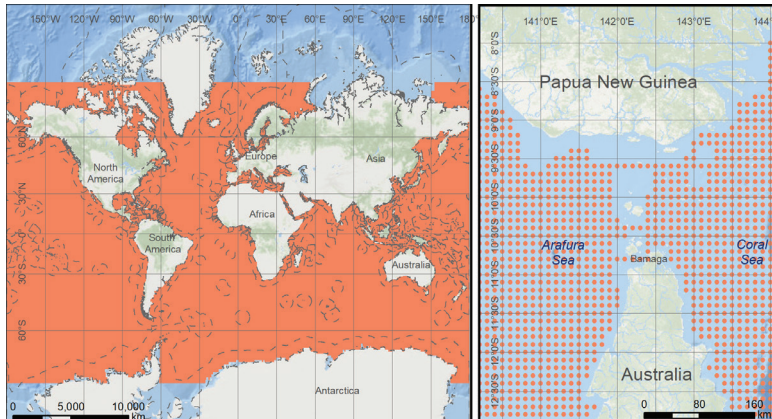
GLOBAL

REGIONAL

LOCAL

EDS CATALOG

BLUELINK V3



The Bluelink v3 operational forecast is run and delivered by the Bureau of Meteorology (BoM), Australia. The model was developed by a collaborative effort among BoM, the Commonwealth Scientific and Industrial Research Organisation (CSIRO) and Royal Australian Navy (RAN) under the Bluelink partnership.

The forecasting system is based on Ocean Forecasting Australia Model (OFAM) which is a near-global (i.e., non-Arctic) eddy-resolving configuration of the Modular Ocean Model-MOM (version 4p1d). MOM is a numerical representation of the ocean's hydrostatic primitive equations and is developed and supported by researchers at NOAA's Geophysical Fluid Dynamics Laboratory. The bathymetry dataset used in the Bluelink v3 system is GEBCO at 0.5-minute resolution, and 0.15-minute resolution product developed by Geoscience Australia. The atmospheric fields for forcing the ocean model come from Australian Community Climate and Earth-System Simulator-Global (ACCESS-G) model which is also operated by BoM. For each forecast, data assimilation process is carried out using available observations, including satellite remote sensing and in-situ data such as water temperature and salinity profiles from ARGO floats, XBT and CTD.

Data Provider: <https://research.csiro.au/bluelink/global/forecast/>

Key details

EDS Data Product	Bluelink v3
Coverage	Global [-74.90 to 75.00]°N, [-180 to 180]°E
Owner/Provider	BoM
Type of Data	Current Predictions
Forecast Length	96 hours
Vertical Coordinate	Z-Level
Min and Max water Depth	2.5m and 4509.2 m below Mean Sea Level
Number of Vertical Layers	51
Depth of Surface Layer	2.5m
Horizontal Grid Size	0.1°x 0.1° (10km x 10km)
Model Run Frequency	Daily
Time Step	3 hour
Wind Forcing	ACCESS-G
River Flow	Yes
Tides	No