Environment Agency

UKCMF Surge Ensemble Output (AfA217)

Dataset Description

UKCMF Surge Ensemble Output feed data is available in the standard data exchange format (GRIB2) which has been defined by the World Meteorological Organization (WMO). The UKCMF Surge Ensemble Output contains surge residual levels only. The CS3X surge model is run twice each run. Once with full met forcing; once without for the tides. The tidal values are subtracted from the "total" values to give the residual "surge" elevation. The surge model surface forcing is hourly 10m "surface" winds and PMSL taken from the 24 runs of the Met Office MOGREPS ensemble models. The system then outputs 24 versions of the surge residual value available at hourly resolution out to nearly 7 days for every grid point within the model domain (48N 13W to 63N 05E) at circa 12km resolution. This approval covers live data, output twice per day to nearly 7 days.

Creation of the data is done by the Met Office under contract to the Environment Agency. The information on surge and tide are updated every twelve hours and delivered via Met Office message switch.

This is complex technical data, and is only likely to be usable be people with the appropriate technical skills.

Price Category: Medium

Attribute Name	Attribute Description
Surge height	Surge model height (m)
Surge current speed	Surge model current speed (m/s)
Surge current direction	Surge model current direction (Degrees)
Tide water level	Tidal model water levels (m)
Tide current speed	Tidal model current speed (m/s)
Tide current direction	Tidal model current direction (Degrees)