# UKCMF Surge Model Output Data (AfA193)

**Dataset Description**

**UKCMF Surge Model Output Data** feed data is available in the standard data exchange format (GRIB1) which has been defined by the World Meteorological Organization (WMO).
The **UKCMF Surge Model Output Data** contains information on the depth averaged currents, along with the water level. The models are run twice. 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 and current. This is output to the surge model fieldsfile. The surge model surface forcing is hourly 10m winds and PMSL taken from the mesoscale NWP model. In the surge model this surface forcing is not passed through to the fieldsfile, so to see the winds and pressure that generated the surge you have to look in the UK scale atmospheric model fieldsfile.

The surge model output of the suite of surge models CS3X (Surge Model) , BCM (Bristol Channel), SRM (Severn) which also includes the Total Waters level turning points for the Bristol Channel. This is primarily a deterministic surge residual value available at 15 minute resolution out to T+36 hours for every grid point within the model domain (48N 13W to 63N 05E) at circa 12km resolution. Mean depth current is also available in m/s and deg.

This approval covers live data, forecasting 36 hours ahead. Historic archive data is not covered.

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 six hours and delivered via Netlink Met Office message.

**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) |