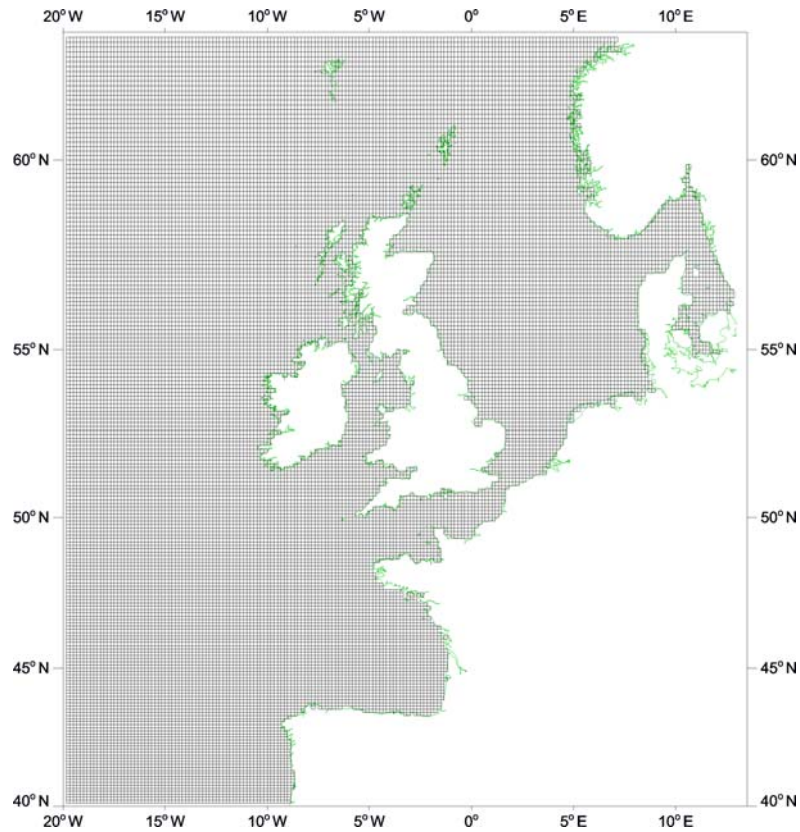


Information Sheet

Model Details

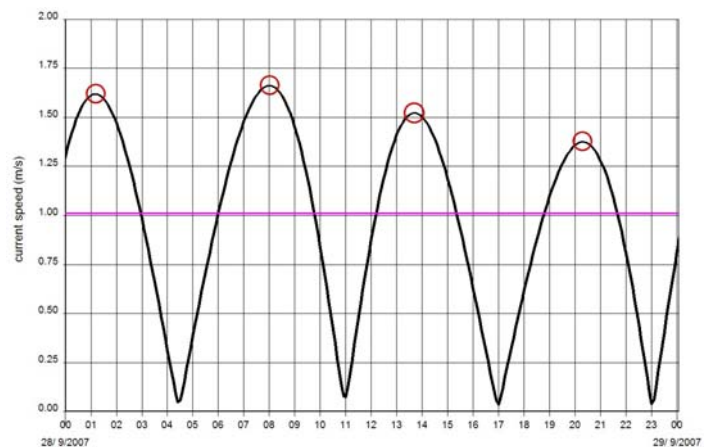
1/9° latitude by 1/6° longitude (resolution approximately 12km)

Area covered: 40° 07'N to 62° 53' N, 19° 50'W to 12° 50'E

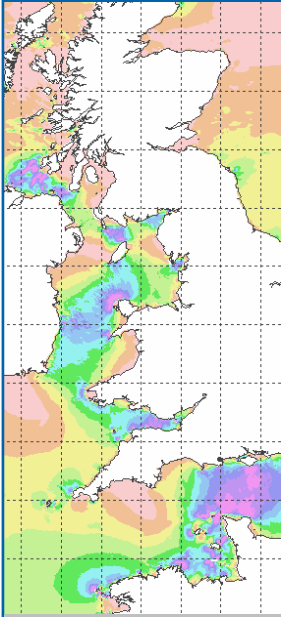
Model grid**Definitions****Mean Spring Peak Current Speed and Direction, Peak Current Speed and Direction**

All currents are depth-averaged currents. Mean Spring Peak Current (MSPC) is defined as the mean average of the peak value of the current. This is distinct from the Mean Spring Current.

The diagram shows the current speed over 24 hours. The Mean Spring Peak Current Speed (MSPCS) is the mean of the 4 values indicated by the red circles (i.e. it has a value of approx 1.54m/s in the example illustrated). The Mean Spring Current Speed would take into account the complete tidal cycle, not just the peaks, and therefore the value would be much



Information Sheet



lower (probably close to 1m/s in the example - and shown as the purple line).

The Mean Spring Peak Current (speed and direction) are derived directly from the harmonics (M2 and S2) and is analogous to Mean High Water Springs (MHWS) when referring to tidal levels.

The Peak Current is the maximum tidal current predictable under calm meteorological conditions. This is computed by calculating a year of current speed data (usually a peak year such as 2015 will be used) and identifying the maximum value. This will be computed using the fullest set of harmonic constants available (for example 50 are used with the CS3X model). This is analogous to Highest Astronomical Tide (HAT) when referring to tidal levels.

Model Output

POL has provided data for Mean Spring Peak Current (speed and direction) and Peak Current (speed and direction). Peak Current values are for 2015.

Data is provided in a text file in order model i ref, model j ref, latitude, longitude (Westerly is negative), Mean Spring Peak Current Speed [MSPCS] (m/s) , Mean Spring Peak Current Direction [MSPD] (degrees True, clockwise from North), Peak Current Speed [PCS] (m/s), Peak Current Direction [PCD] (degrees True, clockwise from North).

Sample format

i	j	latitude	longitude	MSPCS	MSPD	PCS	PCD
73	173	43.83333	-7.91666	0.06	75	0.09	72
74	173	43.83333	-7.75000	0.07	154	0.10	326