Coastal Design/Extreme Sea Levels (AfA188)

Dataset Description

GIS dataset and supporting information providing design / extreme sea level and typical surge information around the coastline of England and Wales under present day conditions. Data for Scotland is available from the Scottish Environment Protection Agency (SEPA).

This is a specialist dataset which informs on work commenced around the coast ranging from coastal flood modelling, scheme design, strategic planning and flood risk assessments.

Price Category: EA Open Data

Attribute Name	Attribute Description
Extreme Sea Level values (GIS shapefile)	
Geometry	Point British National Grid
Chainage	Describes the distance, in km, from Newlyn (clockwise) along the Chainage line
T1	Describes the extreme sea levels for 16 different annual probabilities of exceedance (AEPs or return periods) in mAOD
T2	
T5	
T10	
T20	
T25	
T50	
T75	
T100	
T150	
T200	
T250	
T300	
T500	
T1000	
T10000	
Island	Text field describing whether the data relates to UK mainland ('main') or one of the main islands (e.g. 'IOW' for Isle of Wight)
Base_Year	Calendar Year for which the analysis was conducted
Extreme Sea Level Confidence information (GIS shapefile)	
Geometry	Point British National Grid
Chainage	Describes the distance, in km, from Newlyn (clockwise) along the Chainage line
T1	Describes the extreme sea levels for 16 different annual probabilities of exceedance (AEPs or return periods) in mAOD
T2	
T5	
T10	
T20	
T25	
T50	
T75	
T100	
T150	

Attribute Name	Attribute Description
T200	
T250	
T300	
T500	
T1000	
T10000	
Estuary boundaries (GIS shapefile)	
Geometry	Polyline British National Grid
Surge Shape locations (GIS shapefile)	
Geometry	Polyline British National Grid
ID	Null field
Profile	Integer number referring to the typical surge shape which is applicable at this location. This number relates to a separate worksheet in the Surge Shape Excel file which allows users to extract the relevant data.
Donor_site	Name of the strategic tide gauge whose data has been used to develop this relevant surge shape
Location	Textual attribute describing where this surge shape is applicable. For instance between 'Salcombe to Lizard point'
Surge Shape data (excel spreadsheet)	
Contains several worksheets: 'Locations' – matching surge profile numbers to names (as per surge shape location GIS shapefile) 'Donor surge shapes' – containing the numeric data making up the individual surge shapes 40 individual sheets, numbered 1- 40 - containing graphs for each surge shape	
Tide gauge locations (GIS shapefile)	
Geometry	Point British National Grid
Site	Name of the tide gauge
GRIDREF	Tide gauge grid reference
LAT	Latitude
LONG	Longitude
EASTING	Easting
NORTHING	Northing
GAUGE	Gauge type: Primary, Validation etc.