

Tide Gauge Data



- Tide Gauge Data retrieved from the **National Tidal & Sea Level Facility (NTSLF)**
- The UK National Tide Gauge Network was set up as a result of severe flooding along the east coast of England in 1953.
- Forms part of the UK Coastal Monitoring and Forecasting (UKCMF) service.



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Tide Gauge Locations



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Selection online

Tide gauge	Data availability
Aberdeen	1930-36, 1946-58, 1960-62, 1964-65, 1967-75, 1980 onwards
Avonmouth	1961-62, 1972-76, 1979-84, 1986 onwards
Bangor	1994 onwards
Barmouth	1987, 1991 onwards
Bournemouth	1996 onwards
Cromer	1973-74, 1976, 1982, 1988 onwards
Devonport	1987, 1991 onwards
Dover	1924, 1926, 1928, 1930, 1934-36, 1938, 1958 onwards
Felixstowe	1982, 1984, 1986-2012
Fishguard	1963-71, 1973 onwards
Harwich	2004 onwards
Heysham	1964-69, 1971 onwards
Hinkley	1990 onwards
Holyhead	1964-73, 1977-85, 1987-91, 1995 onwards

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Data Availability

- Quality-controlled NTSLF data series available online four weeks from the end of the month.
- Processed data from 1915 to February 2015 are available free of charge
 - Download [annual and monthly files](#)
 - Choose a [user customised time selection](#) of data
- Download delayed-mode processed data [from all data channels](#)
- Processed data for the last month is available by [request](#) – there is a fee for this service
- Download (and view plots of) near real-time [unprocessed data](#) covering the month to today
- Download [NTSLF Annual Reports](#)

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- Use of data under license agreement
- Original data available through NTSLF

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Data Format

- Text file
- Header with information on Tide Gauge
- Data as hourly or 15 minute record (depending on time period)

- Example of start of a file

Port: P038
Site: Aberdeen
Latitude: 57.1441
Longitude: -2.0787
Start Date: 01MAR2003-00.00.00
End Date: 31MAR2003-23.45.00
Contributor: National Oceanography Centre, Liverpool
Datum Information: The data refer to Admiralty Chart Datum (ACD)
Parameter Code: ASLVBG02=Sea level, Bubbler tide gauge (second sensor)

Cycle Number	Date	Time	ASLVBG02	Residual
	f	f	yyyy mm dd	hh mi ssf
1)	2003/03/01	00:00:00	3.846	0.003

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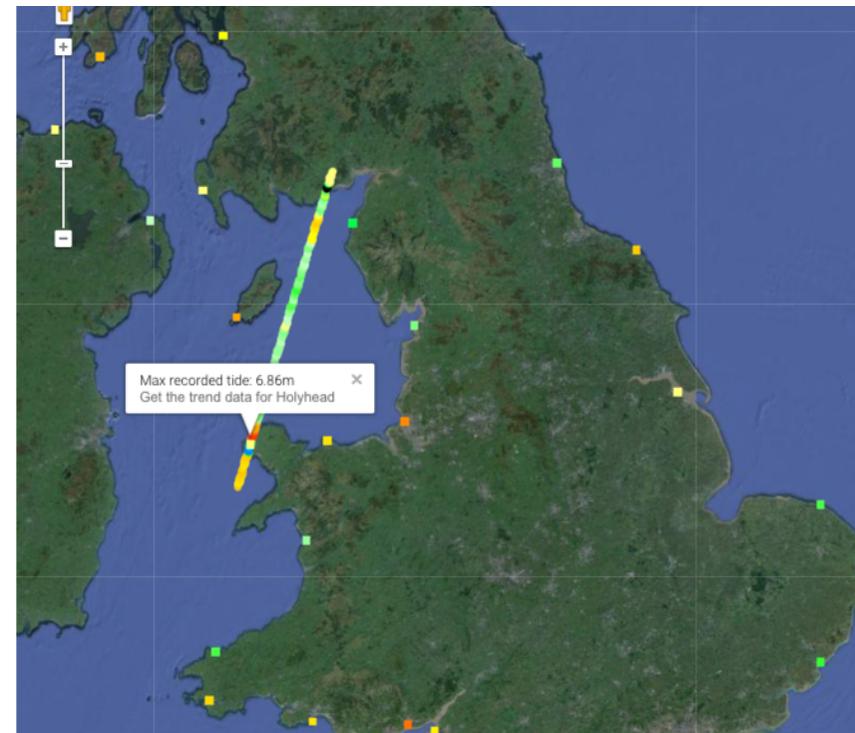
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Example from Holyhead

- Data include:
- Total Water Level Envelope (Surface elevation of the water body by bubbler tide gauge) wrt Admiralty Chart Datum
- Tidal Residual



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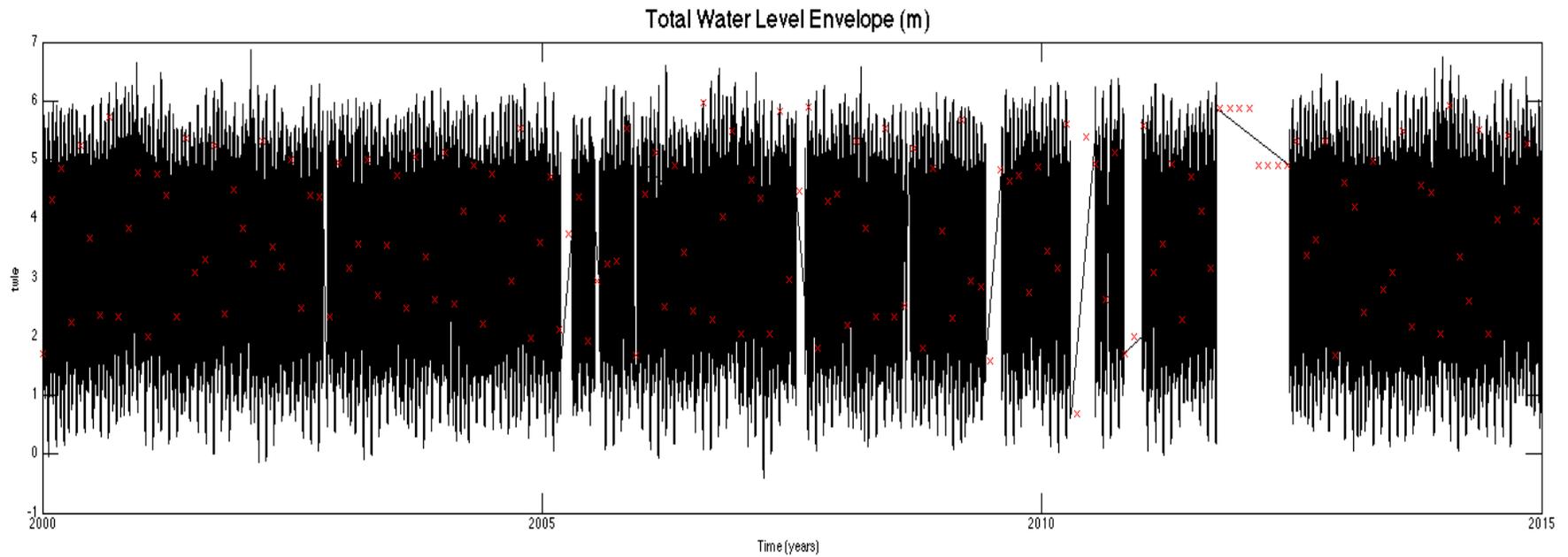
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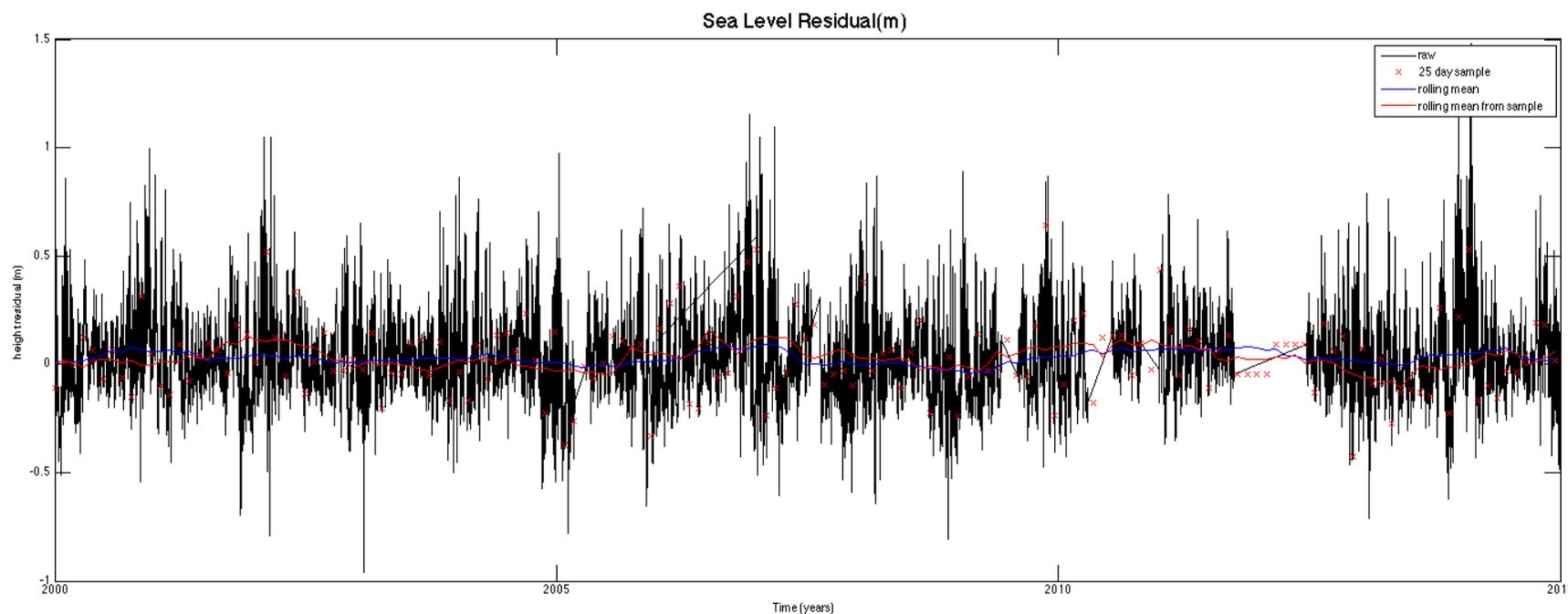


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Residuals



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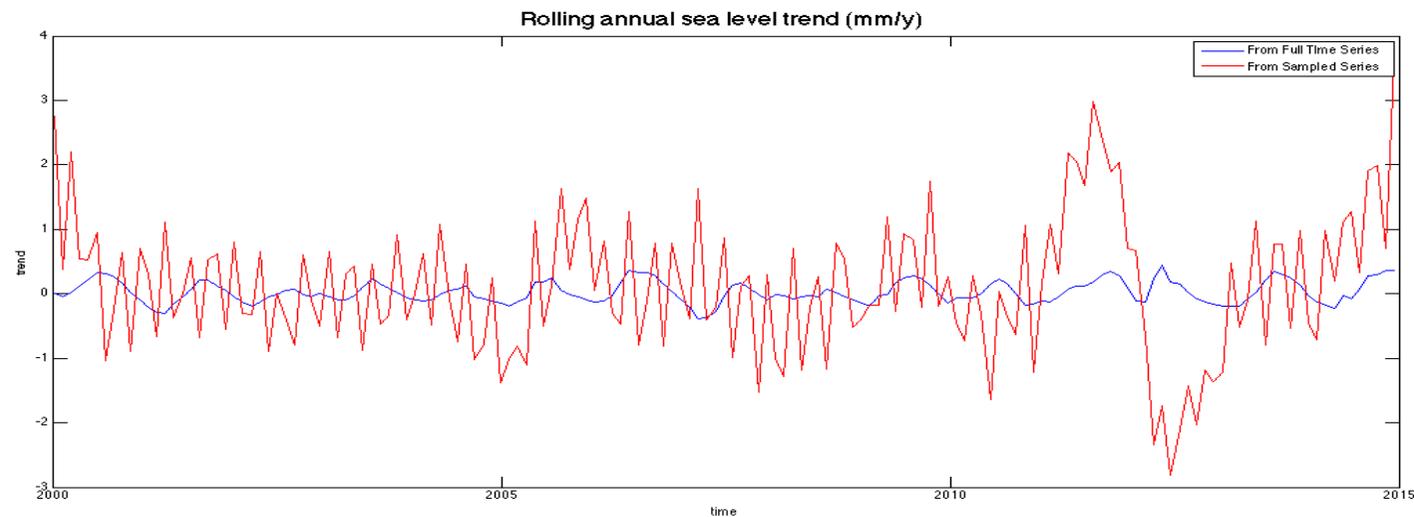
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Trends

- From Full Time series: 0.23302 - Post 2003 0.93649
- From Ref Time series: -0.60871 - Post 2003 -0.0012435



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