# Sea Level SpaceWatch Tide Gauge Data Processing 22/03/16

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# Tide Gauge Data Processing

## UKTGN Tide Gauge Data

- Non-Tidal Residuals produced using BODC quality-controlled15 min averages (hourly data prior to late 1980s) for 46 locations up to 31/10/15

- Above data used for analysis of regional and interannual sea level variability.

- Annual and semiannual components also supplied.

- Maximum Total Water Levels recalculated.

- PSMSL Monthly Means used for derivation of long term trends



UK Tide Gauge Network

# Tide Gauge Data Processing

## Channel Coastal Observatory (CCO) Data



- 10 minute data from 11 gauges screened and used to generate non-tidal residuals excluding annual and semiannual components.

- Above data used for analysis of regional and interannual sea level variability.

- Maxima calculated

- Monthly means generated, added to PSMSL, but not used to derive trends

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# Tide Gauge Data Processing

## Port of London Authority (PLA) Data

- Southend 10 minute data (1994-1999) and 1 minute data (2000-2015) processed to consistent time interval, screened and used to generate non-tidal residuals excluding annual and semiannual components.

- Used for analysis of regional and interannual sea level variability.

- Maxima calculated

- Monthly means generated and used to derive trends.

- Agreement from PLA to add monthly means to PSMSL