



## CCO Report to Southern Coastal Group

July 2022

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### 1. Hydrodynamic Network

Scheduled services of the wave buoys at Boscombe, Milford, Hayling Island, and Bracklesham Bay are delayed. For some, this may result in a summer service being missed.

The Lymington tide gauge has been rejuvenated by renewing all bracketing.

The Wave Radar REX at Swanage Pier was re-installed after works on the pier and the instrument was relevelled.

The Swanage Pier releveling was the first in a larger exercise to relevel all tide gauges in the network. The next site to be visited will be West Bay Harbour.

The annual wave reports have been updated to reflect the inclusion of energy period  $T_e$  and wave power  $P$  as standard parameters. Also the wave rose has been refreshed and a summary graph for bimodal seas was introduced.

The CCO is working with the BSH Hamburg to make the NNRCMP's wave buoy data available on Copernicus, an EU portal to make satellite earth observation and in-situ data available free of charge.

### 2. Topographic Survey

Over the last three months baseline surveys have been completed at Bournemouth, Sandown, Highcliffe, Mudeford, Totland Bay, Colwell Bay, Bracklesham, East Head and Medmerry west. Profile surveys have been completed at Cowes, Ventnor, Whitecliff Bay, Calshot, Studland and Weymouth. All spring surveys are therefore completed.

2021 annual reports are finished and have been uploaded to the website.

### 3. Bathymetry

Poole Bay single beam survey completed out to 500m from the shore.

Multibeam surveys are due to begin in July for Christchurch Bay and West Solent.

### 4. Aerial

2022 aerials are in the process of being collected. So far, the following areas have been flown in the Southern Coastal Group area: East side of Portland Bill, Weymouth, Christchurch Harbour, Christchurch Bay, Portsmouth Harbour, Chichester Harbour and the eastern part of Chichester Harbour (Figure 1).

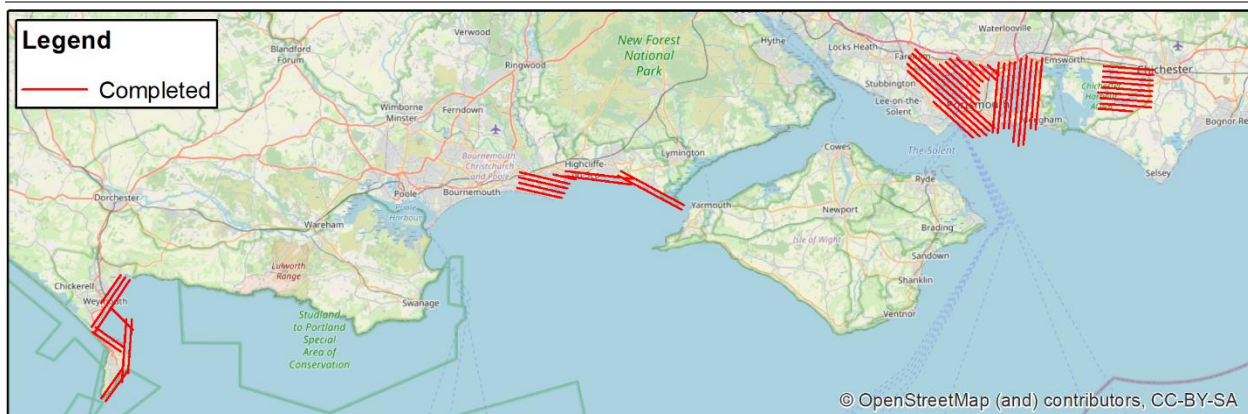


Figure 1 Aerial photography capture as of 23<sup>rd</sup> June 2022 in the Southern Coastal Group area.

## 5. Lidar

Capture is complete on all planned areas for this season. QC is ongoing.

## 6. Assets

The first T98 training session was completed on 13-15 June with site visits around Brighton. The second session is taking place from 4-6 July with site visits around Folkestone and the third and final training session is scheduled for the 11-13 July with site visits around the Havant area.

Bella Ormerod has been recruited (start date: 13<sup>th</sup> June) to deliver the assets register. To complete the scoping of data available from local authorities, interviews are being set up with the Isle of Wight (meeting scheduled on 12/07), Southampton (meeting TBC), and Eastleigh (meeting TBC) Councils.

## 7. Website

On the real-time data pages of the wave buoys, a button has been added that allows a user to add the water levels measured at the nearest NNRCMP or NTSLF tide gauge in the background of the wave parameter graphs.

The API has been expanded to include more wave and met parameters.

The dashboard has been updated. Any feedback is welcome.

An 'all years' file is provided to the user when multiple years of wave, tide or met data is downloaded. This is an additional text file that concatenates all requested data.

Recorded downloads during Q1 of 2022 were £6.7M per month (Figure 2). Number of hits on the website have steadily been increasing month-on-month and reached 11.8M in May.

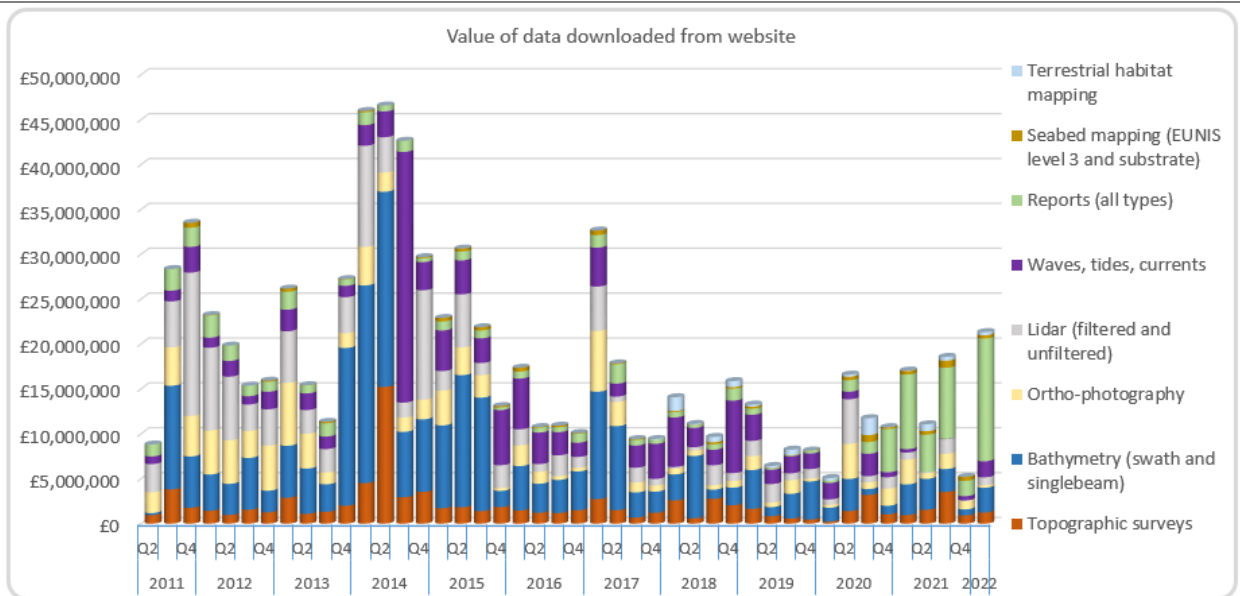


Figure 2 Data value of southeast regional data to end of Q4 2021

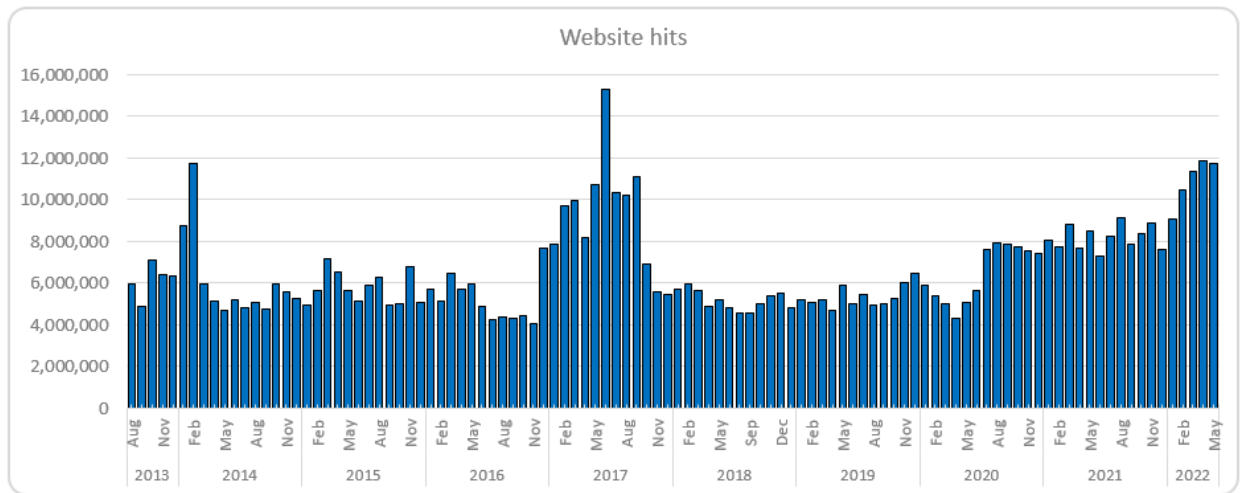


Figure 3 Number of hits on CCO website

## 8. General

Amy Webb has joined the team as the Coastal Process Scientist responsible for the Isle of Wight, temporarily replacing Poppy Mylorie who is on secondment to the Environment Agency as the Programme Manager for the Anglian Coastal Monitoring Programme.

Bella Ormerod has joined the team to deliver the assets register, replacing Lizzie Warwick-Champion who has taken on the project management of the hydrodynamic network.