



CCO Report to Southern Coastal Group

March 2022

1. Hydrodynamic Network

The issue with the Bracklesham Bay wave buoy displacement data which shows an unusual number of out-of-range spikes, is ongoing. The CCO continues to work with Fugro to resolve the issue.

Data from the Goodwin Sands buoy has become suspect, perhaps due to extensive biofouling or a problem with the mooring. The buoy will be swapped at the earliest opportunity.

An unscheduled visit was made to the Hayling Island wave buoy due to unexpected rapid battery depletion. The buoy was swapped.

The wind sensor on the Arun Platform is broken and will be replaced during the scheduled service in May 2022.

The wind measurements at Worthing Pier have started to show a southerly bias since halfway through December 2021. The instrument is scheduled for replacement during its next scheduled service in May 2022.

The Wave Radar REX at Swanage Pier was removed in anticipation of works on the pier that are expected to last until early April 2020. Upon completion of the works, the instrument will be re-installed and re-levelled.

The buoy at Folkestone was dragged 380 m East during storm Eunice.

After Storm Eunice, we experienced power outages at several shore stations, leading to gaps in the data. Some wave data will be filled in at a later date by downloading data from internal loggers. A power outage due to the storm affected the Milford wave buoy and Lymington tide gauge and meteorological station. Power was restored on 23rd February.

2. Topographic Survey

Autumn 2021 surveys were all completed successfully. Spring surveys have begun with Swanage and Weymouth baselines and Ryde / Seaview profiles on the Isle of Wight. Post storm surveys were undertaken at Hurst Spit, Milford on sea and Preston Beach, Weymouth.

3. Bathymetry

Trials with a Norbit MBES system were very successful, resulting in the purchase of a system. This will allow us to complete surveys in-house. Areas being surveyed this year include the West Solent in collaboration with the MCA and Christchurch Bay.

4. Aerial

The contract for 2022 aerals was awarded to APEM Ltd who are in the planning stages at the moment. Tidal windows will be challenging this year, and we will probably be in touch with some partners to review parts of the survey schedule.

5. Lidar

We have received the first few work packages from the 2021/22 lidar for QC while data capture continues.

6. Habitat Mapping

The latest Habitat mapping (based on 2019/20 aerials) is now available on the website.

7. Website

- Energy Period (Te) and Wave power (P) have been added to the realtime data pages
- Tools for removing outliers and spikes have been added to the tide graphs
- The WMS has been updated so this should now run more smoothly
- Current things being worked on that might be of interest -
 - We are updating the way the personal dashboard works, so you will be able to include more data going forward
 - Working on the cliff data category to allow download of cliff lines (and in the future other forms of cliff data)

Recorded downloads during Q4 of 2021 were £4.1M per month, and downloads over the entire year averaged £5.7M per month (Figure 1). Note that additional changes to the logging of reports mean this number might be slightly different to previously reported. Number of hits per month remains steady (Figure 2), at ~8.2M per month.

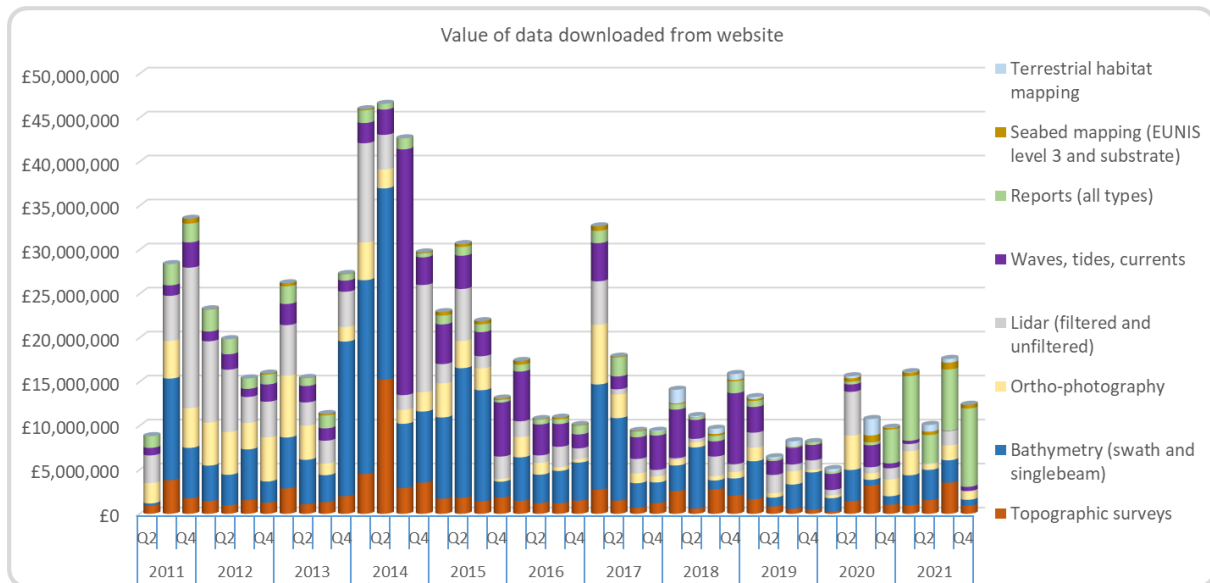


Figure 1 Data value of southeast regional data to end of Q4 2021

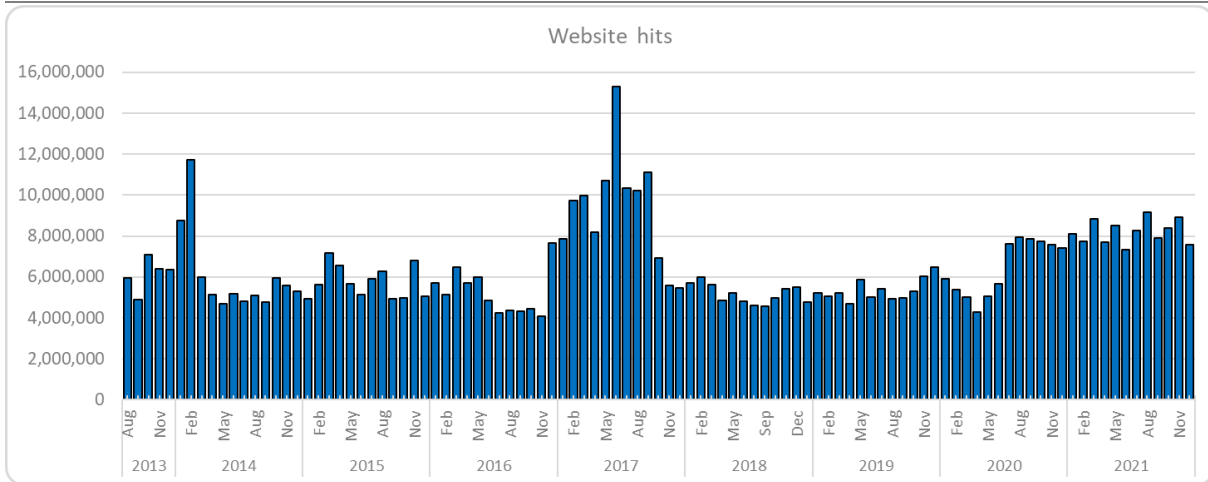


Figure 2 Number of hits on CCO website

8. General

We are delighted to announce that Dr Thomas Dhoop has been appointed to the role of Programme Manager for the CCO working alongside Dr Charlie Thompson and Stuart McVey to deliver the programme.