



CCO Report to Southern Coastal Group

October 2021

1. Hydrodynamic Network

Wave Buoys: an issue was identified with the displacement/heave data provided by the Bracklesham wave buoy which shows an unusually high number of out-of-range spikes in consecutive 30-minute heave (1Hz) data files. The calculated wave parameters (zero-crossing and spectral) are not affected. The CCO is working with Fugro to resolve the issue.

Rye Bay buoy: on 14/07/2021 the shore station was installed at the Rye Harbour Master's office and communication is now via HF radio which allows for the full 64-bin wave spectrum to be transmitted.

Deal Pier: remediation works by Fugro were coordinated with works by the council on the pier itself and took place on 07/07/2021. The existing cabling on the WaveRadar's frame and under the pier's floor boards was removed. New power and data cabling were then run under the renovated pier flooring, followed by the reinstallation of the newly overhauled WaveRadar.

The air temperature and humidity probe on the Worthing met station are broken. The met station itself is old and in need of replacement. A new Vaisala WXT536 met station will be installed in the next couple of weeks.

2. Topographic Survey

Rockley, Hamworthy and Sandown baseline surveys have been completed. Once per phase profile surveys at Hamble, Netley, Beaulieu and Sowley completed. Autumn interim profiles have started and include Weymouth, Ventnor, Totland, Yarmouth and Hurst Spit.

Interim reports are being uploaded.

3. Bathymetry

Trials with a Norbit MBES system were undertaken in June and July. Bathymetry data was collected in the West Solent between Lymington and Pennington (3km x 1km), Keyhaven River, Hurst Spit and in Christchurch Bay at Milford on Sea (2km x 0.5km). The data has yet to be processed but initial inspection has revealed it has provided a very high quality dataset.

4. Aerial

Tender for 2022 aerial capture is live until the 8th October. We have had EOI from 3 contractors. The contract will cover capture for the whole SE region, during March-September 2022.

5. Lidar

2019/20 is completed, there is one outstanding package to check that has been redelivered, other than that we are still waiting for a few final deliverables and then it will be uploaded. The 2020/21 data is currently being worked on. 2021/22 capture is due to begin on the 4th October, weather dependant.

6. Habitat Mapping

Initial mapping is complete and initial QC for the entire region has been returned. Environment Systems are now focussing on analysis – including assessments of accuracy based on ground truthing, and the change analysis. Final delivery is expected by the end of November.

7. Website

Recorded downloads during Q3 of 2021 averaged £5.6M per month (£3.3M without reports), still being influenced by increases in report downloads (adjusted for bots) associated with changes to access mechanisms (Figure 1). This equates to 8.4M hits per month on the website.

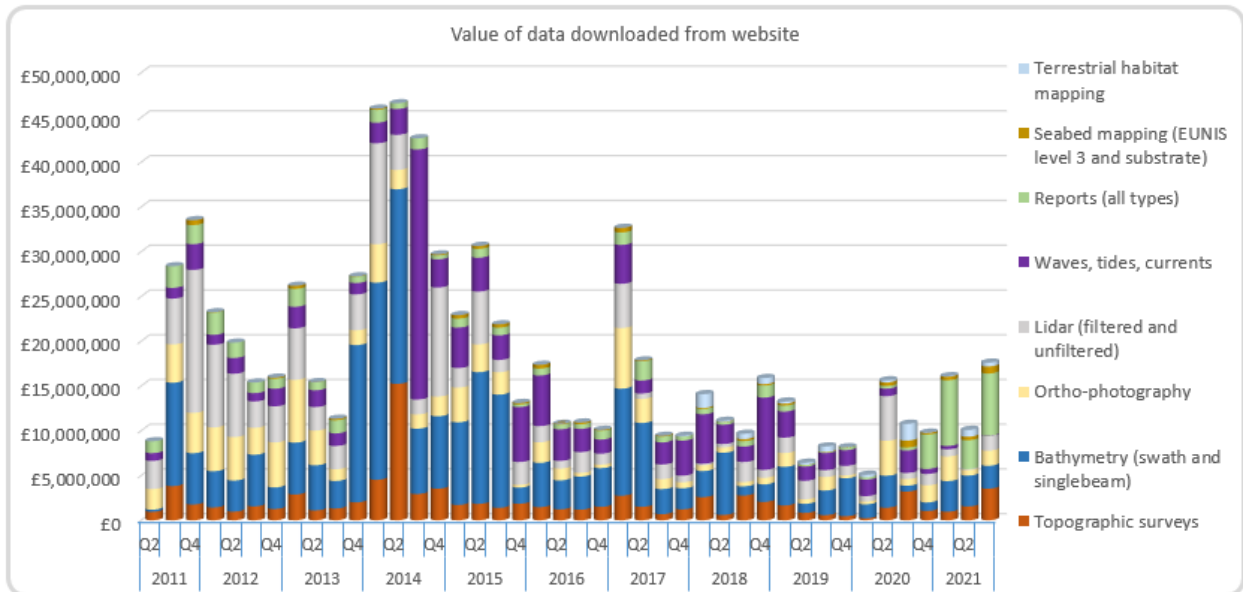


Figure 1 Data value of southeast regional data to end of Q2 2021

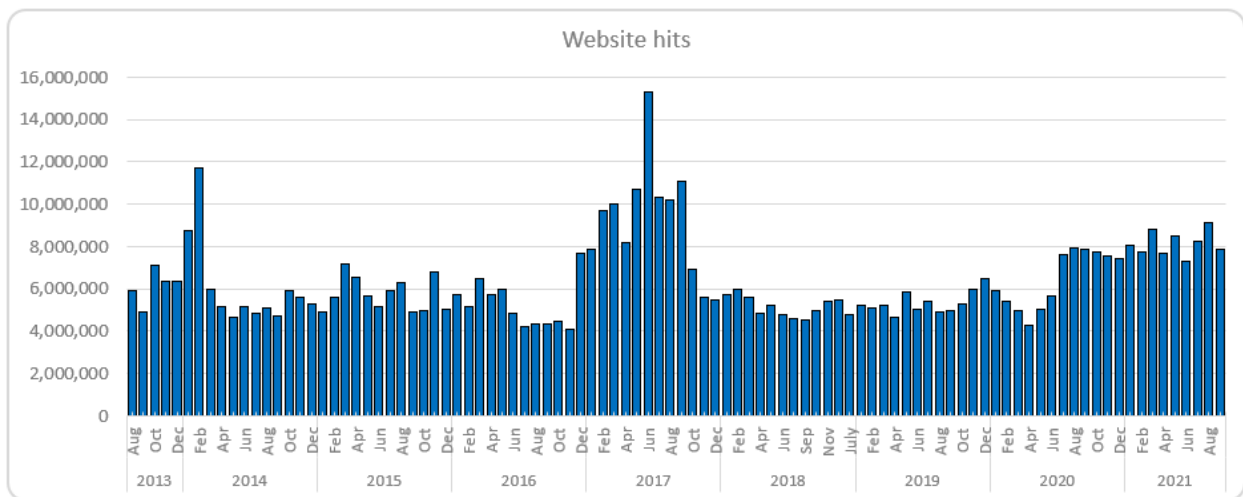


Figure 2 Number of hits on CCO website

The Real-time data page now includes links that take you directly to waves, tide or met station lists without having to scroll through the whole list combined. A CD to OD conversion has been added to tide plot data and tidal predictions can be viewed below the tidal plot for tide gauges for the following 6 days.

8. Annual Partners Meeting

Please join us on the 13th October for our Annual Partners Meeting for a full update on the programme. If you haven't received your invite yet, just let us know.