



CCO Report to Southern Coastal Group

June 2020

1. Hydrodynamic Network

Wave Buoys: **Pevensey** Bay lost signal on the 9th April, and the buoy swapped the following day. A crushed wire to the HF antenna appears to be the problem.

Tide Gauges: **Arun** Platform is still out of action, and planned repairs were cancelled due to COVID-19 measures. **Swanage** Pier is also out, with repairs delayed for the same reason.

Met: **Worthing** Met station Moxa I/O unit has been replaced.

HR Wallingford, while undertaking analysis for ESCP, noted an issue with spectral data files from **Hayling** Island (2004-2006). The problem was resolved by generation of new spectral files. There are no impacts on derived Hs values, which were found to be correct.

2. Topographic Survey

Annual baseline surveys have been completed at Preston Beach, Weymouth, and at Swanage. The annual Poole Bay baseline has been postponed due to bad weather, then COVID-19. Profile surveys have been undertaken at Ryde and Bembridge.

Spring surveys were interrupted due to COVID-19 restrictions. Delays include baselines at Whitely Lake, Highcliffe, Milford, Hurst Spit, & Northpoint. Profile survey delays include Hengistbury Head, Calshot, Ventnor, Reeth Bay, Seavew and Cowes. Plans are being developed to reschedule these over the summer period.

3. Bathymetry

Single beam bathy survey at Hayling may be delayed due to COVID-19 and is due for June / July.

4. Aerial

Aerial capture is still on hold, due to the current COVID-19 restrictions regarding working in small spaces. Progress is hoped to restart in late May/early June.

In order to ensure capture of the ASE03_01 polygon this year, some of the specification may be relaxed. This will take the form of:

- Increase the ground sampled distance (GSD) to 20cm. This reduces the time needed for flights and may make this polygon easier to capture within tidal windows with minimal impact on final outputs.
- Relaxation of sun angle from 30° to 20° which is within specification limits.
- In extreme cases, we will consider relaxation of the tidal limit, but only on analysis of the potential impact and consultation with partners.

5. Lidar

The EA made the decision to stop all Lidar surveys on the 26th March 2020, in response to the COVID-19 restrictions. At this point 61% of the 2019/20 survey area had been captured. There is an ambition to

capture outstanding polygons in the 2020/21 season, but this has not been confirmed yet. Captured data is undergoing processing and we have received several polygons for initial QC.

6. UAV

The UAV was deployed to provide aerial imagery and 3D point cloud data at Milford on Sea in March, see figure 1 below. A section of seawall around 150m in length has failed following rapid beach lowering and relentless rough seas over the winter months. Figure 2 shows aerial imagery from the UAV with difference plot superimposed showing sediment loss and seawall advance between June 2019 and March 2020. Further surveys with the UAV have taken place at Hurst Spit and Milford as the system can be operated under social distancing rules.



Figure 1. Photogrammetry derived 3D point cloud

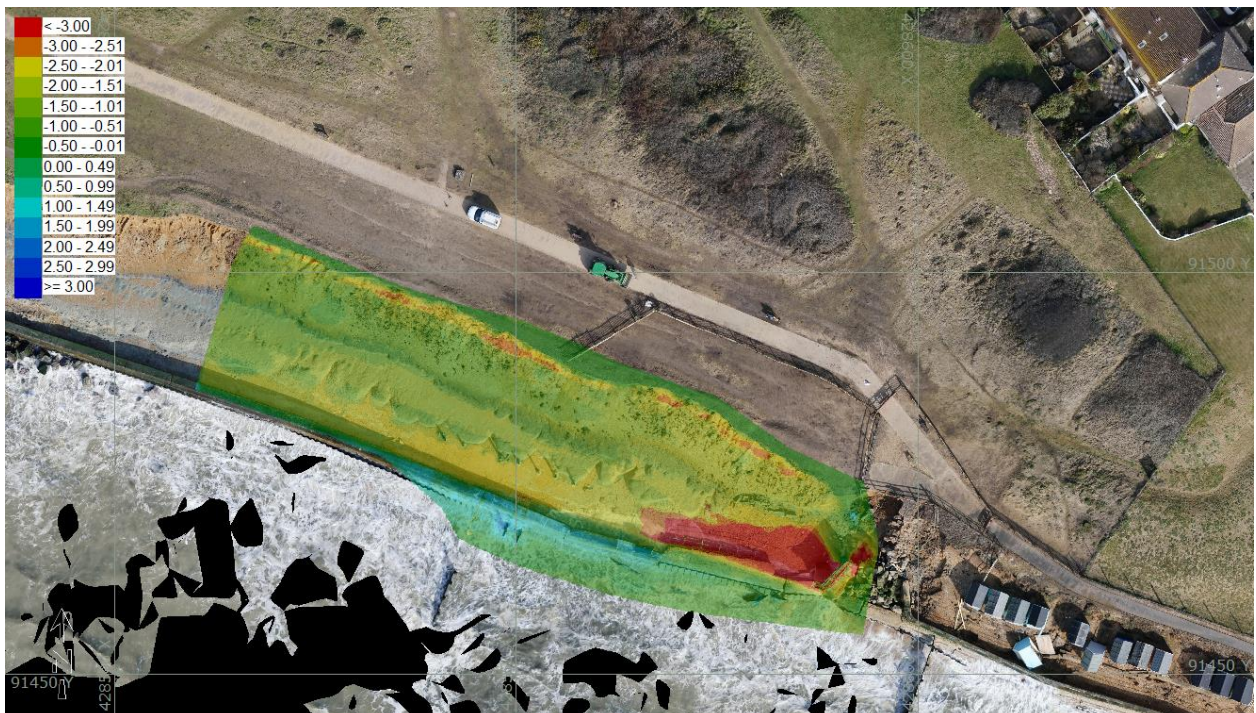


Figure 2. UAV photography with surface difference plot superimposed.

7. Website

Downloads during Q1 of 2020 have been lower than recent years, averaging £1.7M (Figure 2) which is something not echoed in all regions nationally, but may be related to delays in uploads of new data associated with the new website changes. There are still a number of teething problems with the move, which are being addressed as they arise.

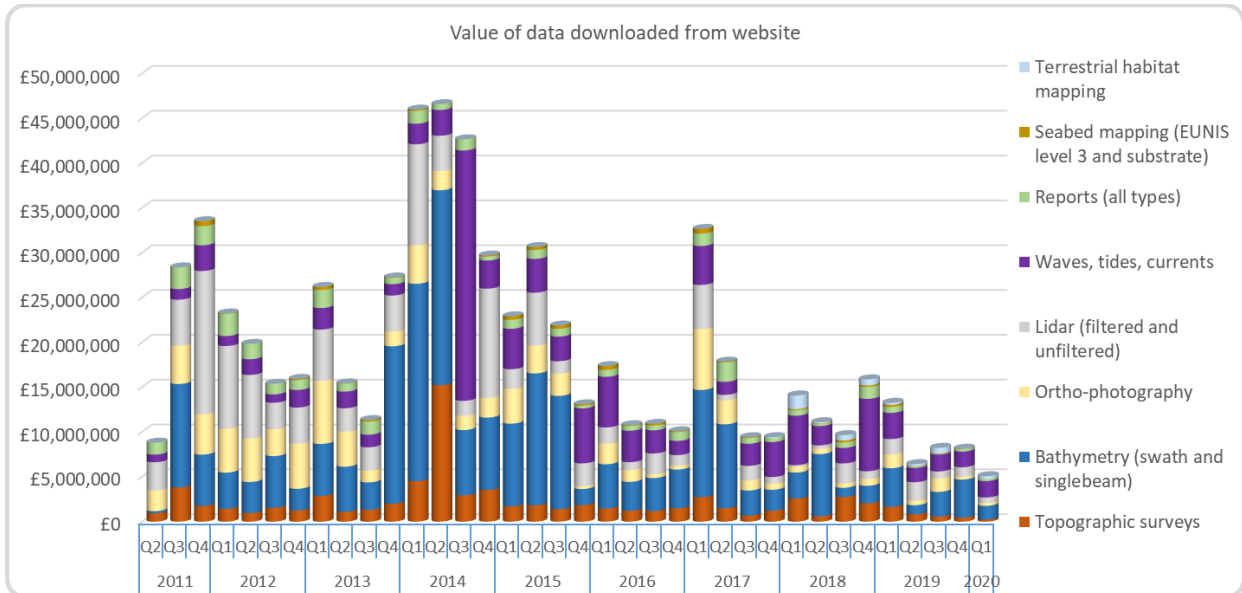


Figure 2 Data value of southeast regional data to end of Q1 2020

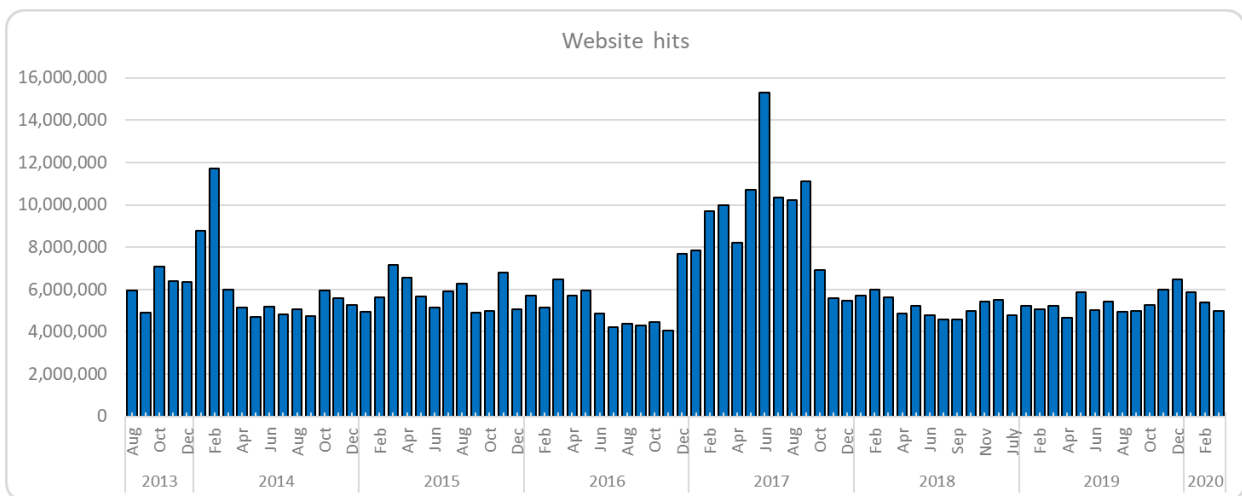


Figure 3 Number of hits on CCO website

8. General

Costs for the SERCMP Annual Review meeting is split between the SCG and the SECG and covers venue hire and catering. For 2019 the meeting was held at the National Oceanography Centre to reduce costs as the venue was provided free of charge. This reduced the total cost to SCG to £355.45 when in previous years this had been upward of £600. This year's Annual Partners Meeting is due to be held in the Autumn in Canterbury, the venue has been provided free of charge by Canterbury City Council.

The Outline Business Case for the National Network of Regional Coastal Monitoring Programmes was submitted in December 2019, and passed technical approval by LPRG in January 2020. We are awaiting confirmation of allocations before official announcements or plans are made.