Channel Coastal Observatory

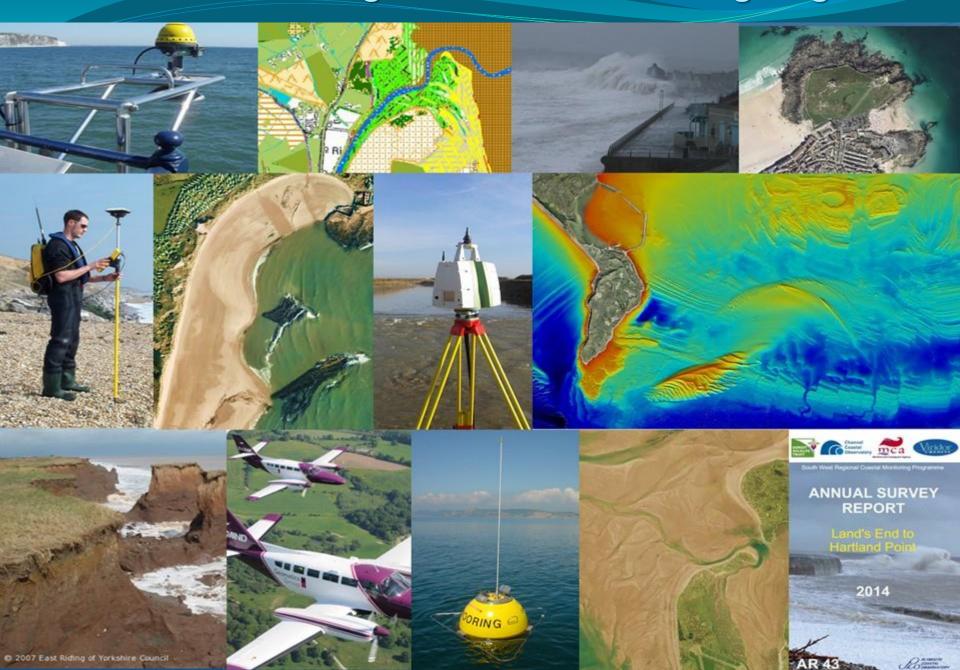
Travis Mason &

Sarah Geijsels

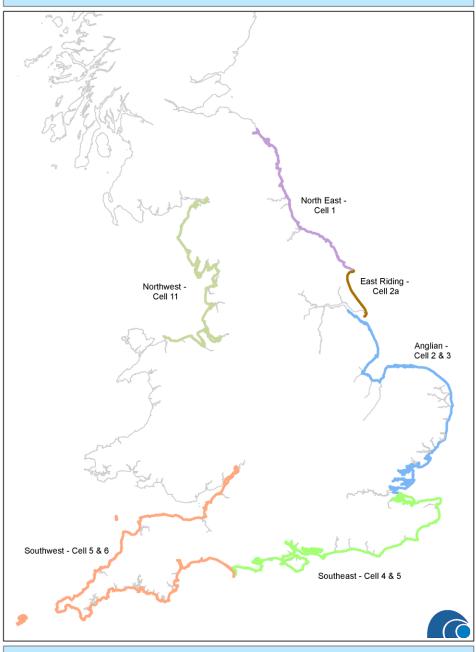
www.channelcoast.org www.coastalmonitoring.org



National Network of Regional Coastal Monitoring Programmes

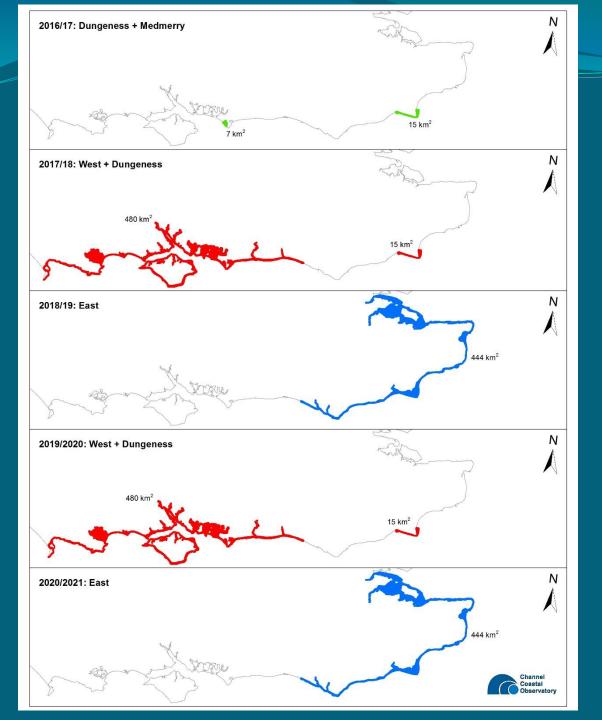


National Network of Regional Coastal Monitoring Programmes



National Network of Regional Coastal Monitoring Programmes

- Northeast
- East Riding of Yorkshire
- Anglian
- Southeast
- Southwest
- Northwest

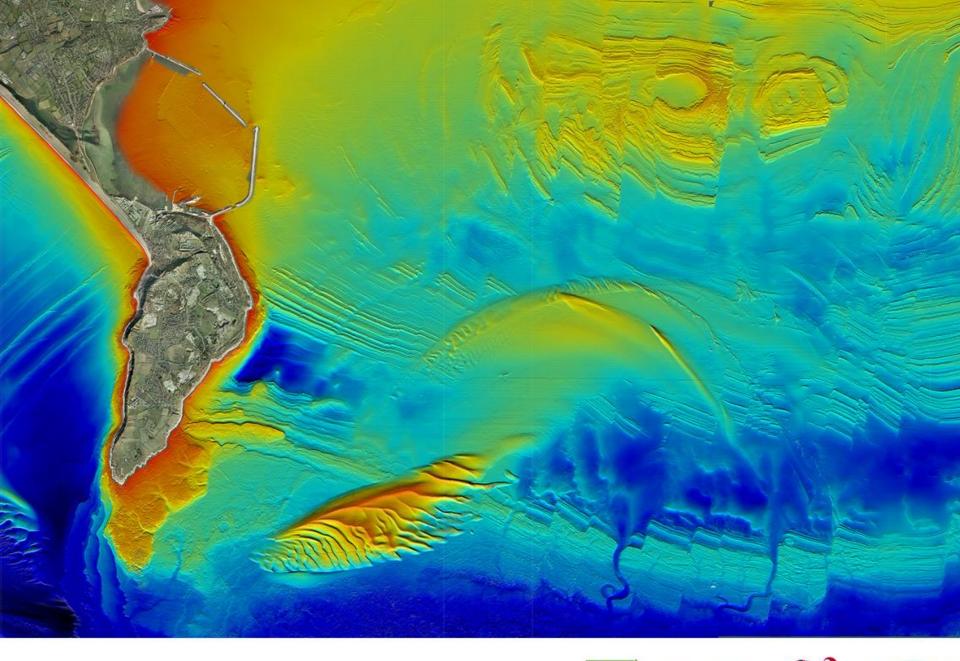


5-year lidar programme (Southeast)



Laser scan of Folkestone seawall















CHP and Coastal

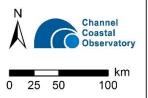
Monitoring

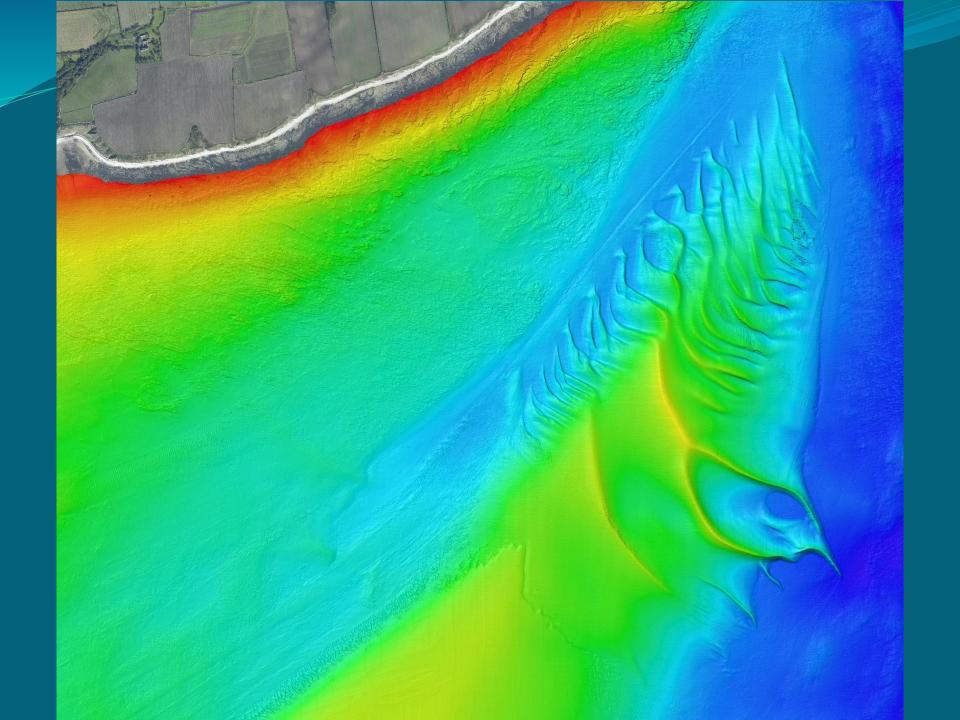
Programmes

~70% of English and Welsh coastline will have Order 1a swath bathymetry





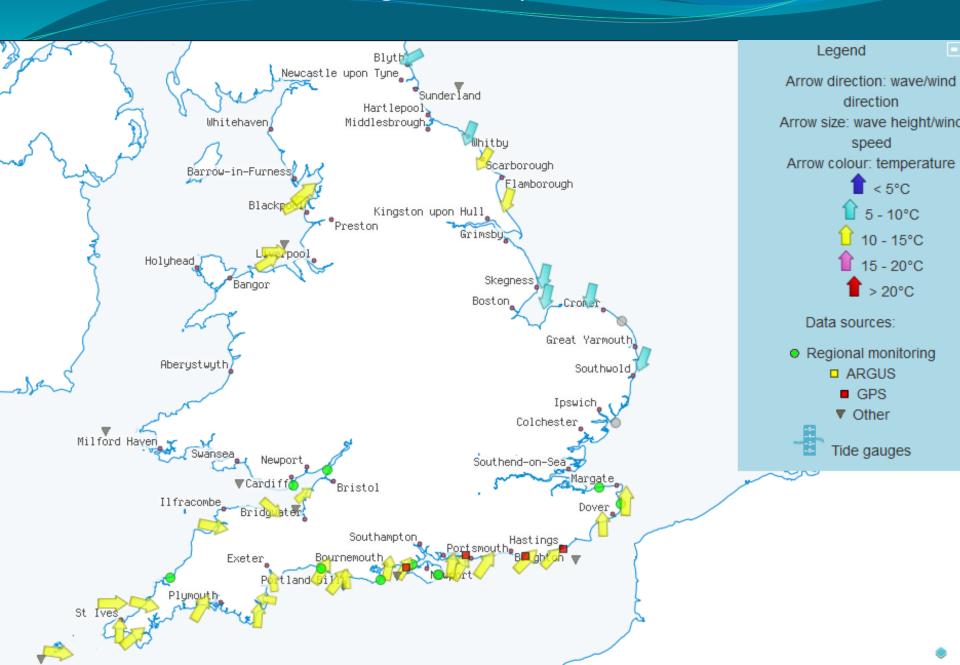


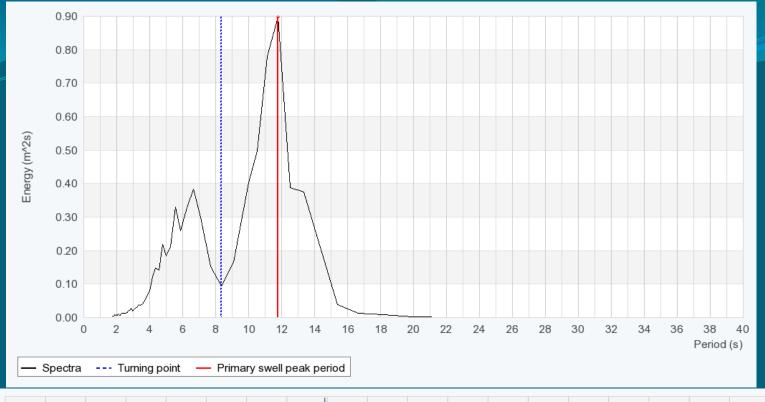


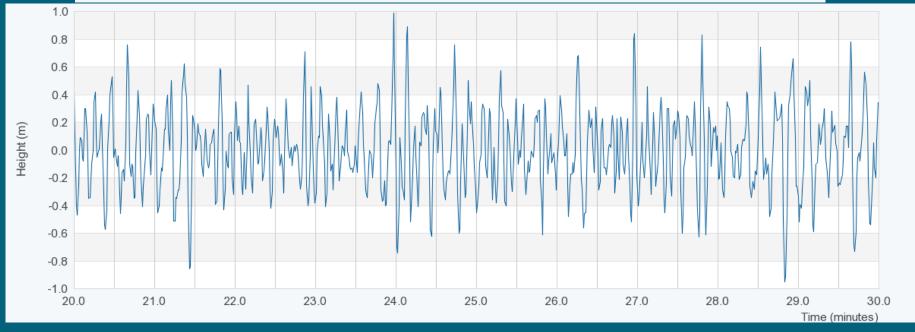




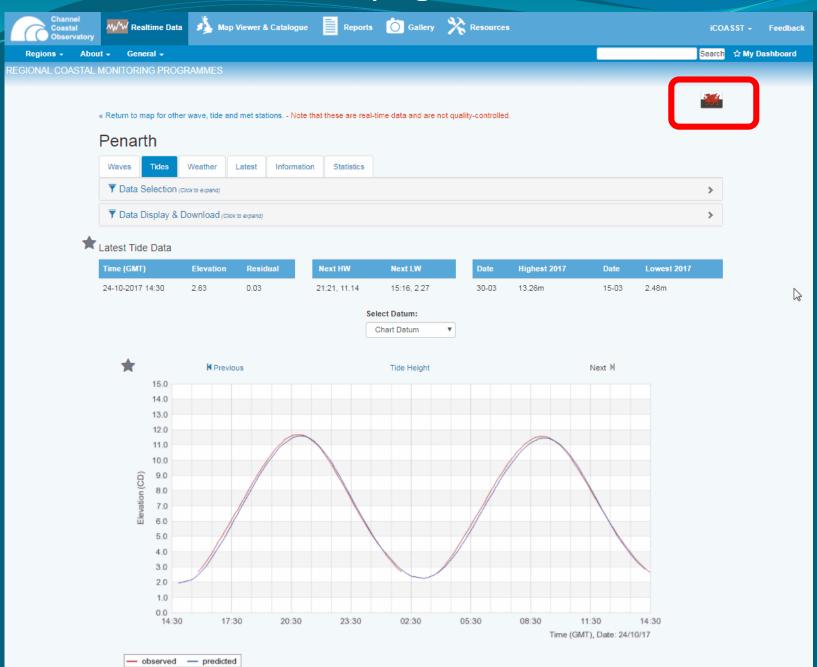
39 DWR sites, including 3 industry (RWE Innogy Ltd and Wave Hub Ltd)







Real time data – Welsh pages





5 x Rosemount WaveRadar REX



4 x Etrometa step gauge

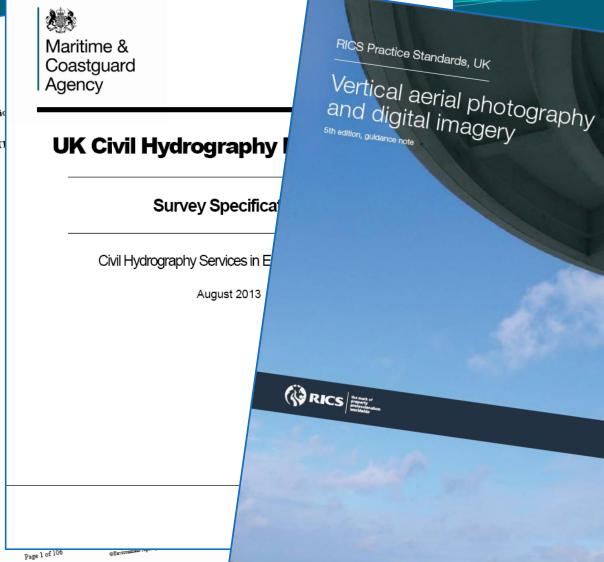
Environment Agency

National Standard Contract and Specification For Surveying Services

STANDARD TECHNICAL SPECIFICATI

Version: 3.2

1 May 2013 Date:



NATIONAL NETWORK OF REGIONAL COASTAL MONIT

SPECIFICATION FOR TERRESTRIAL ECOLO

Habitat mapping is undertaken to provide coastal and terrestri Authorities, the Environment Agency and Natural England to con requirements for Natura 2000 sites (designated by the EU Biodiversity Action Plans (resulting from the Convention of Biological Plans) Scientific Interest (designated under the Countryside and Rights

- Provision is made for:

Monitoring Programmes' website (www.coastalmon required.

GENERAL

during the contract period. If the Consultant is terms of the Contract, Specification or Brief,

The principal objectives are to provide priority habitat¹ extent d Identification and quantification of regional coastal ch Assessing losses and gains for the Environment Agens Identification and strategic consideration of coastal Assisting development of Biodiversity Action Plans Providing contextual information to support Appr Plans, Flood and Coastal Defence Strategies and Fk Mapping the extent of all coastal and terrestrial Data management at local Biodiversity Record G The output from the mapping will be freely avails Performance monitoring arrangement A quarterly review will be undertaken by the E Version 1.0 August terminate the contract. meets the standards and requirements of the Specification and the Briefler Block of delivery of each Block of quality control checks on the Consultant's data within 6 weeks of delivery of each Block of quality control checks on the Consultant's data within 6 weeks of delivery of each Block of quality control checks on the Consultant's data within 6 weeks of delivery of each Block of quality control checks on the Consultant's data within 6 weeks of delivery of each Block of quality control checks on the Consultant's data within 6 weeks of delivery of each Block of quality control checks on the Consultant's data within 6 weeks of delivery of each Block of quality control checks on the Consultant's data within 6 weeks of delivery of each Block of quality control checks on the Consultant's data within 6 weeks of delivery of each Block of quality control checks on the Consultant's data within 6 weeks of delivery of each Block of quality control checks on the Consultant's data within 6 weeks of delivery of each Block of quality control checks on the Consultant's data within 6 weeks of delivery of each Block of the Consultant's data within 6 weeks of delivery of the Consultant's data within 6 weeks of delivery of the Consultant within 6 weeks of the Consultant within 6 week Version 1.0 August 2015 meets the standards and requirements of the Specification and the bin-The Consultant is responsible for undertaking quality con- Formerly known as BAP Priority Habitats, they are now referred to as "priority habitats", as listed in Section 41 of the Natural Environment and Rural Communities Act (2006) · Formerly known as BAP Priority Habitats, they are now Natural Environment and Rural Communities Act (2006)

National Network of Regional Coastal Monitoring Programmes of England

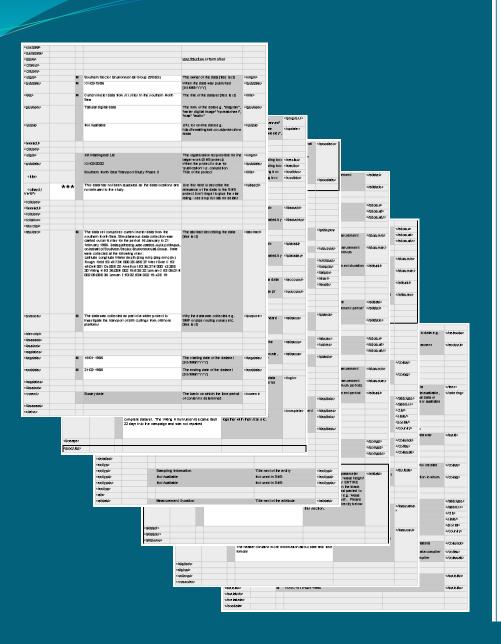
SURVEYS

CIFICATION FOR LIDAR

National Network of Regional Coastal Monitoring Programmes of England

National Network of Regional Coastal Monitoring Programmes of England National Network of Regional Coastal Monitoring Progra National Network of Regional Coastal Monitoring Programmes of England Quality Control of Aerial Photography Version 1.0 August 2017 Version 1.0 August 2017 Version 1.0 March 2017

Metadatabase



> Data management > Online Data Catalogue > Metadata > Topographic

Topographic General Information Publication date (YYYYMMDD) Type of topo survey: Baseline O Profile C Control **Survey Information** information detailing the survey Topographic Survey information detailing the topographic survey Survey Instrumentation Type Survey Instrumentation Model Survey Date means of encoding a range of dates and times Start date of topographic survey (YYYYMMDD) End date of topographic survey (YYYYMMDD) Update due **(** 6 Months \circ 1 Year Geographical extent of data Min easting Max easting Max northing Min northing

Quality Information



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Map Viewer/Data Catalogue



REGIONAL COASTAL MONITORING PROGRAMMES



Welcome

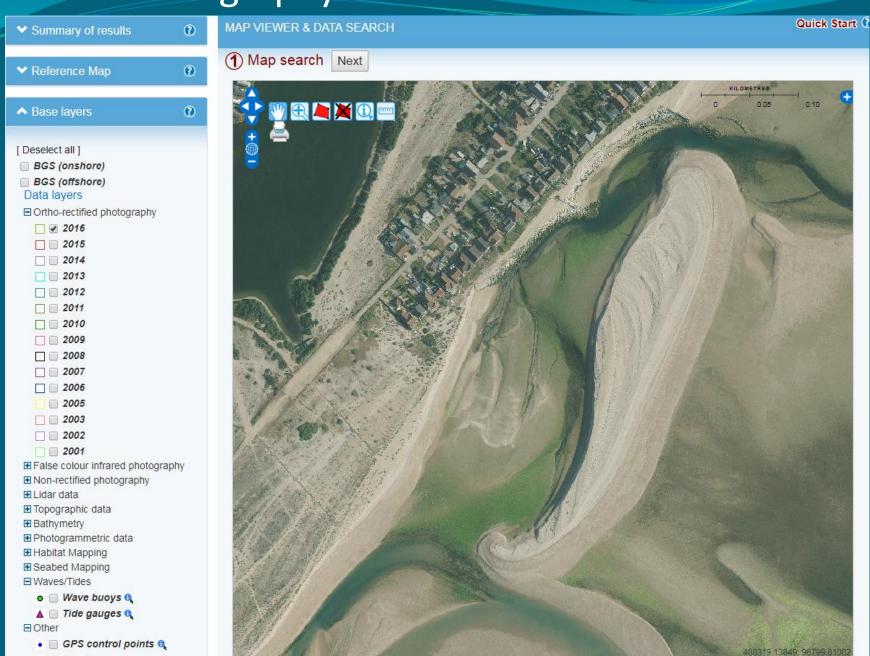
Welcome to the website for the National Network of Regional Coastal Monitoring Programmes of England.

The Network comprises 6 Regional Programmes, collecting coastal monitoring data in a co-ordinated and systematic manner to serve the needs of coastal engineering and management.

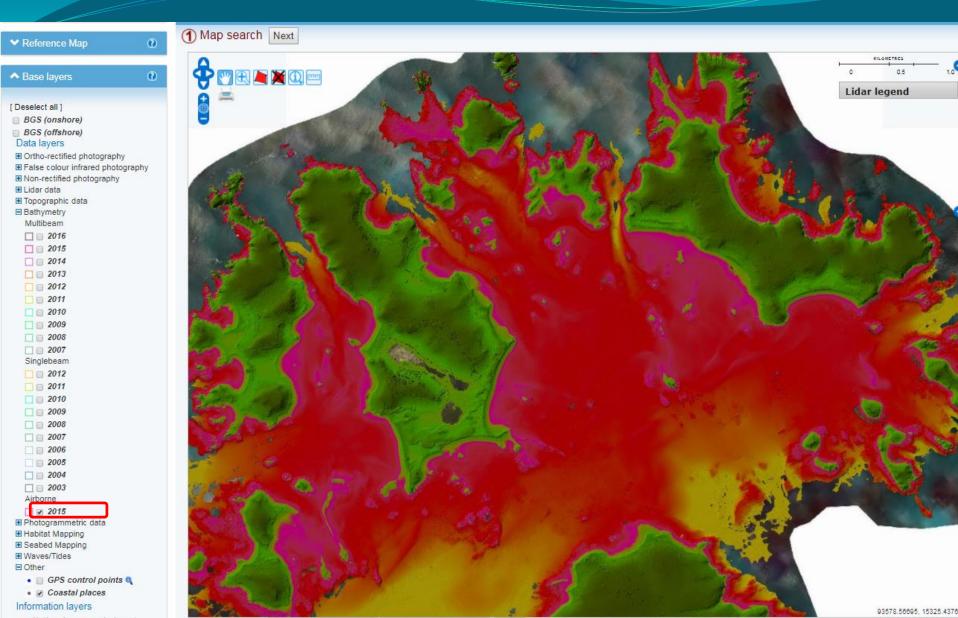
For regional information, click on one of the highlighted regions on the map.

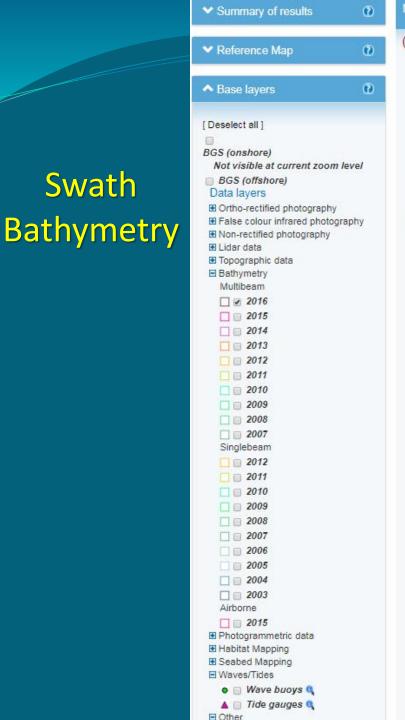
For data, click on one of the top buttons.

Aerial Photography

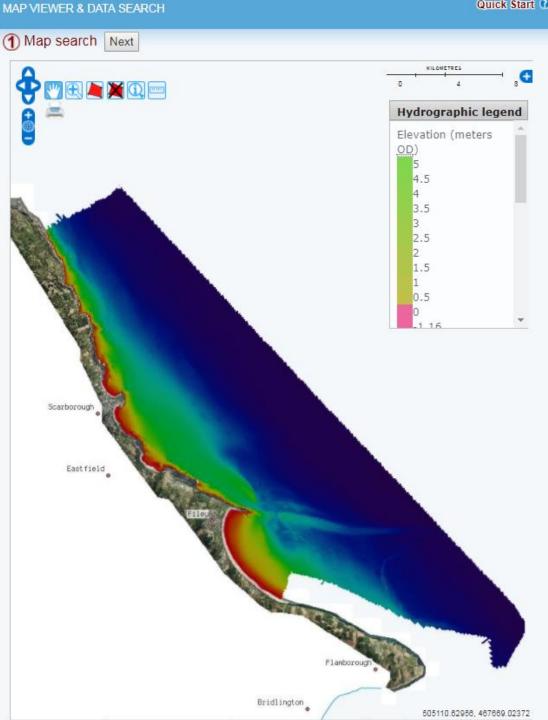


Airborne bathymetry





Swath

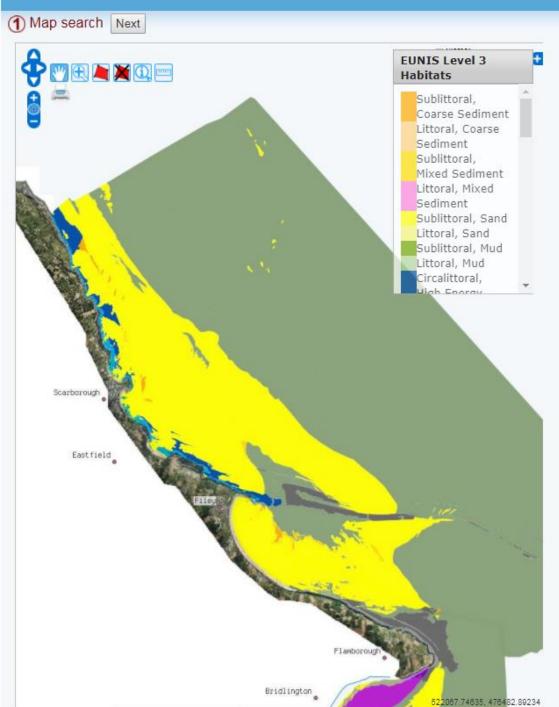


Summary of results MAP VIEWER & DATA SEARCH

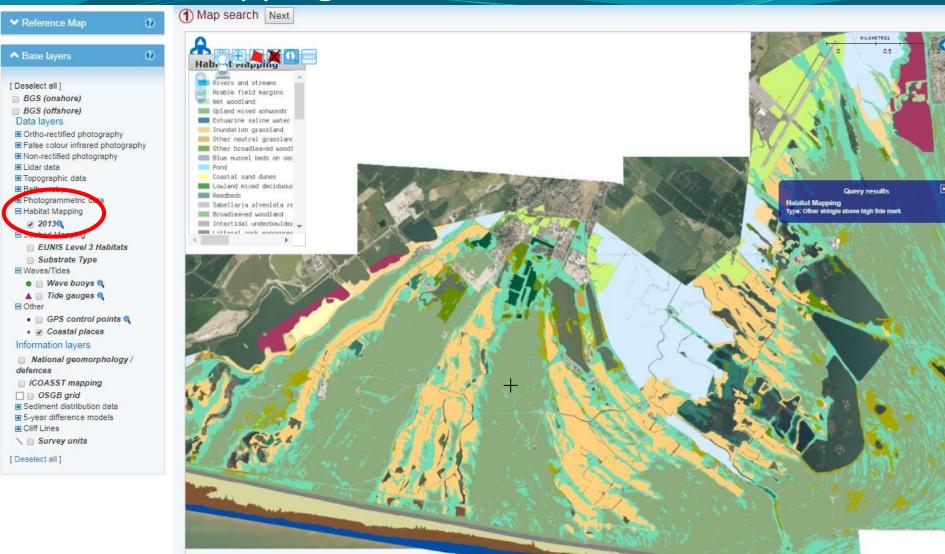
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Seabed Mapping

▼ Reference Map 0 Base layers [Deselect all] BGS (onshore) Not visible at current zoom level BGS (offshore) Data layers ■ Ortho-rectified photography False colour infrared photography Non-rectified photography ■ Lidar data ■ Topographic data Bathymetry ■ Photogrammetric data eabed Mapping ■ EUNIS Level 3 Habitats Substrate Type ■ Waves/Tides Wave buoys 🛕 📄 Tide gauges 🐧 ■ Other GPS control points 6 Coastal places Information layers ■ National geomorphology / defences iCOASST mapping
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Habitat Mapping



New section – Resources







Map Viewer & Catalogue



Reports





iCOASST ▼

Feedback

Regions → About →

General -

Searc

☆ My Dashboard

REGIONAL COASTAL MONITORING PROGRAMMES



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For regional information, click on one of the highlighted regions on the map.

For data, click on one of the top buttons.

Resources – WMS













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REGIONAL COASTAL MONITORING PROGRAMMES

Resources

» Procurement

A Multi-Supplier Dynamic Purchasing System is available to the National Network of Regional Coastal Monitoring Programmes for the Provision of Coastal Monitoring Services.



» Useful shapefiles

This page has a collection of useful shapefiles available for download such as defences, survey unit boundaries, profile lines etc. They can be downloaded and used under the Open Government Licence.



» WMS

A number of map viewer layers are made available as a Web Map Service (WMS) in various software packages. This page explains how to access the WMS layers in ArcMap and QGIS. A sample project file for use in QGIS with the main layers pre-loaded can be downloaded from this page too.



Resources – API













iCOASST - Feedback

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REGIONAL COASTAL MONITORING PROGRAMMES

Resources

» API

It is possible to access real-time data via an open Application Programming Interface (API). This page has instructions on how to obtain a key and how to request data.



» Dorset Coast Digital Archive

The DCDA is an extensive archive, hosting a great diversity of photographs, newspaper articles, aerial images and historical maps of the Dorset coast as far back as 1740. This work is a centrepiece for knowledge exchange on how areas have developed over time through a visual representation.

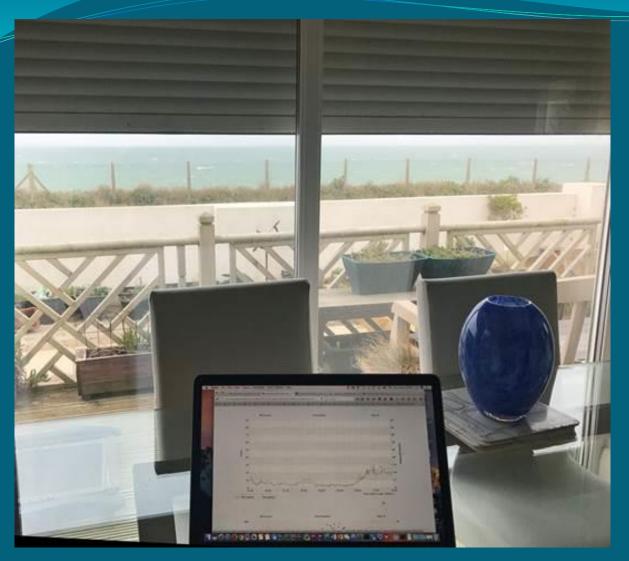


» CoastalTools

A toolbox to support the analysis of coastal data. Professor lan Townend, University of Southampton has kindly made available this software package which can import waves, tide and beach profile data downloaded from the website. Beach dynamics, spatial and temporal coastal change, storminess and the influence of clustering are just some of the aspects which can be examined.



Resources – API



Future use:
ABP
Looking at live
conditions to
make decisions
about vessel
transport

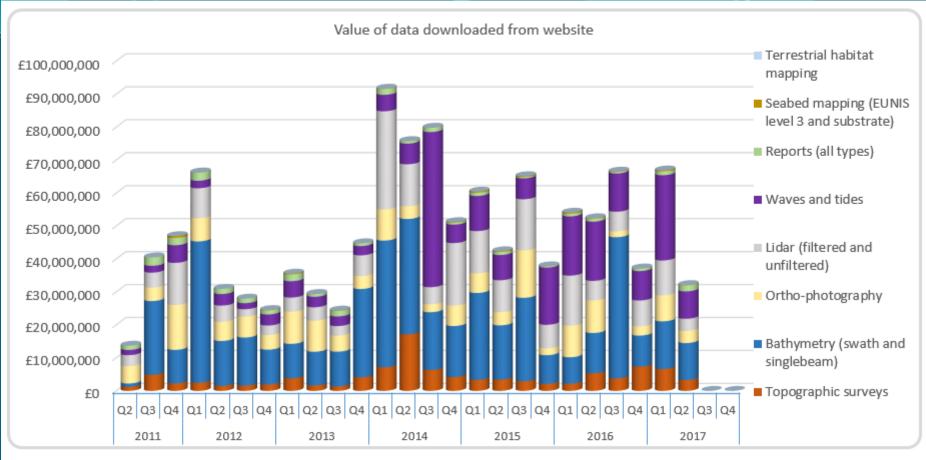
Automatic closing of shutters

photo courtesy of Nick Lansley

Monthly website hits



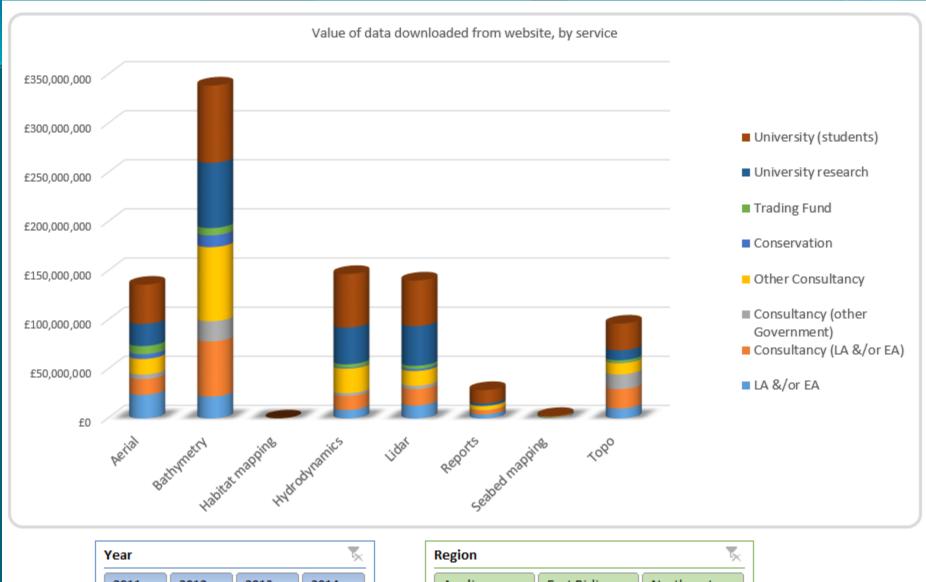
Quarterly downloads from website

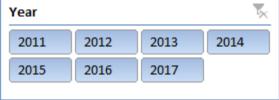


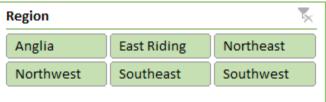


Sector 🦎	
Conservation organisation	Consultancy (LA or EA)
Consultancy (other govt.)	Consultancy (other)
Govt. Trading Fund	LA or EA
Other	Schools
University (research)	University (student)













Seaford Head UAV Survey

- Tricky area to normally access but actually quite easy to fly
- One day, four flights

