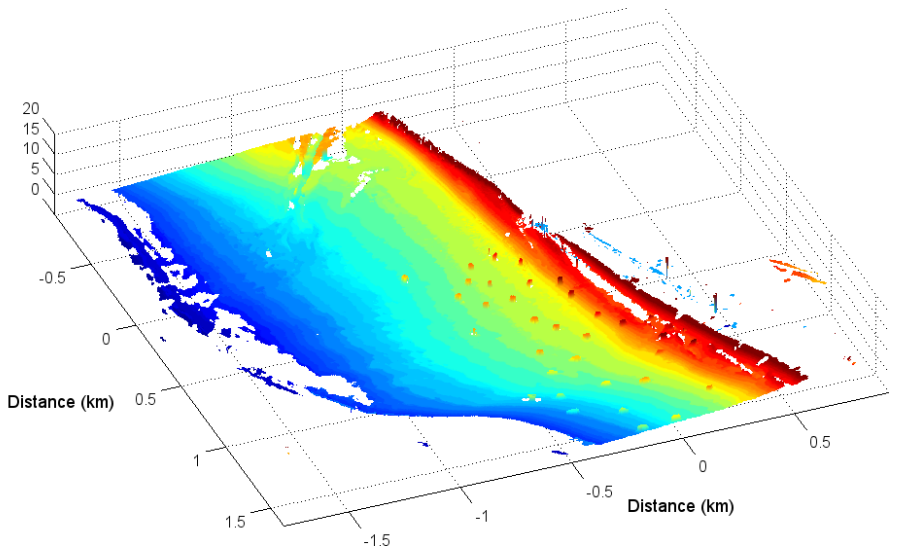
COASTSENSE

UNDERSTAND WHERE SEA MEETS LAND

This system is constantly collecting data on beach levels, waves, tides and currents in this area.

The Environment Agency are using the data collected by this system to make the best possible decisions about how to manage this stretch of coast in relation to flooding and erosion.



We take a great pride in our work and the service we provide. If you would like to find out more about us and the CoastSense system please visit our website www.coastsense.com

If you would like to know more about coastal monitoring a good starting place is https://coastalmonitoring.org/

If you would like to know more about Coastal Management please search for 'Shoreline Management Plans' on the .Gov website and you can find a link to the one relevant to your area.

COASTSENSE

Please report any issues to info@marlan-tech.co.uk

Emergency contact No. 0151 602 0304

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Frequently asked questions:

Why are you collecting this data?

The Environment Agency is responsible for the coastal defences in this area and the hard defences (the concrete walls) only work if the beach levels are high enough. To keep the beach levels high the Environment Agency currently commissions a contractor to bring in sand from the seabed each year to top up the levels. The Environment Agency will use the data collected by these systems to better understand how this sediment moves along, onto and off the beach.

How does the system 'know' the beach level?

With the radar we can sense where the tideline is on a section of beach (the edge of the water on the beach). Because we know what the tide level is we can use the position of the tideline to determine the height of that bit of beach. This process is undertaken for lots of sections of the beach over a 5km radius from the CoastSense column.

How does the system 'know' about seabed levels, waves and currents?

With the radar we can sense the waves and extract information from this about them and surface water currents. In shallow water there is also a relationship between waves and the depth to the seabed, we use this to calculate the seabed levels.

Is the Radar safe?

We use the same type of radar that is used on small boats that you see out on the sea and in harbours along the coast. There is no danger to the people or wildlife from the radar.

Why is it always on?

The radar can sense 24 hours a day and if we have data all the time it allows us to go back and review specific events such as storms.

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