

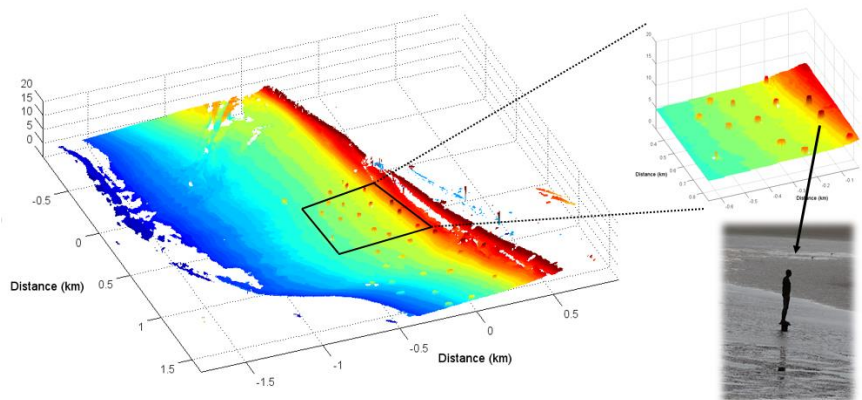
Radar-based nearshore morphological monitoring

Conducting regular hydrographic surveys in complex and dynamic shallow water coastal areas is an incredibly difficult logistical challenge, radar offers a cost-effective solution.

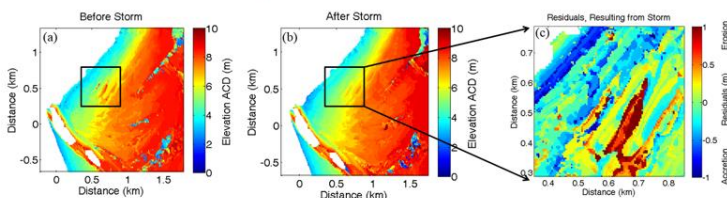
Marine radar is able to continuously observe the sea surface as the tide rises and falls. By analysing the behaviour of the sea surface across a sequence of radar images, the radar survey system is able to build up a comprehensive topographical map of the intertidal zone.



Deployment of a radar survey system can accelerate the understanding of coastal processes in this typically challenging operational environment. Constant hydrographic monitoring enables easy observation of accretion, erosion and sediment migration patterns. This wealth of information enables better, data-driven coastal management decisions.



Morphological Response to Storm Event



Capabilities

- Regular repeat surveys – usually every spring-neap tidal cycle.
- Observation of migrating, eroding or accreting sediment.
- 4 km effective radial range from the radar.
- 3 m spatial resolution.
- Accuracy is comparable to Airborne LiDAR.
- Pre- and post-storm impact assessment.
- Synoptic, wide area coverage.

Get in touch for more information
info@marlan-tech.co.uk
 323 Mariners House, Queens Dock Business Centre,
 Norfolk St, Liverpool L1 0BG