Interreg 2 Seas Mers Zeeën SARCC

European Regional Development Fund

Engaging the public, a key for NBS mainstreaming

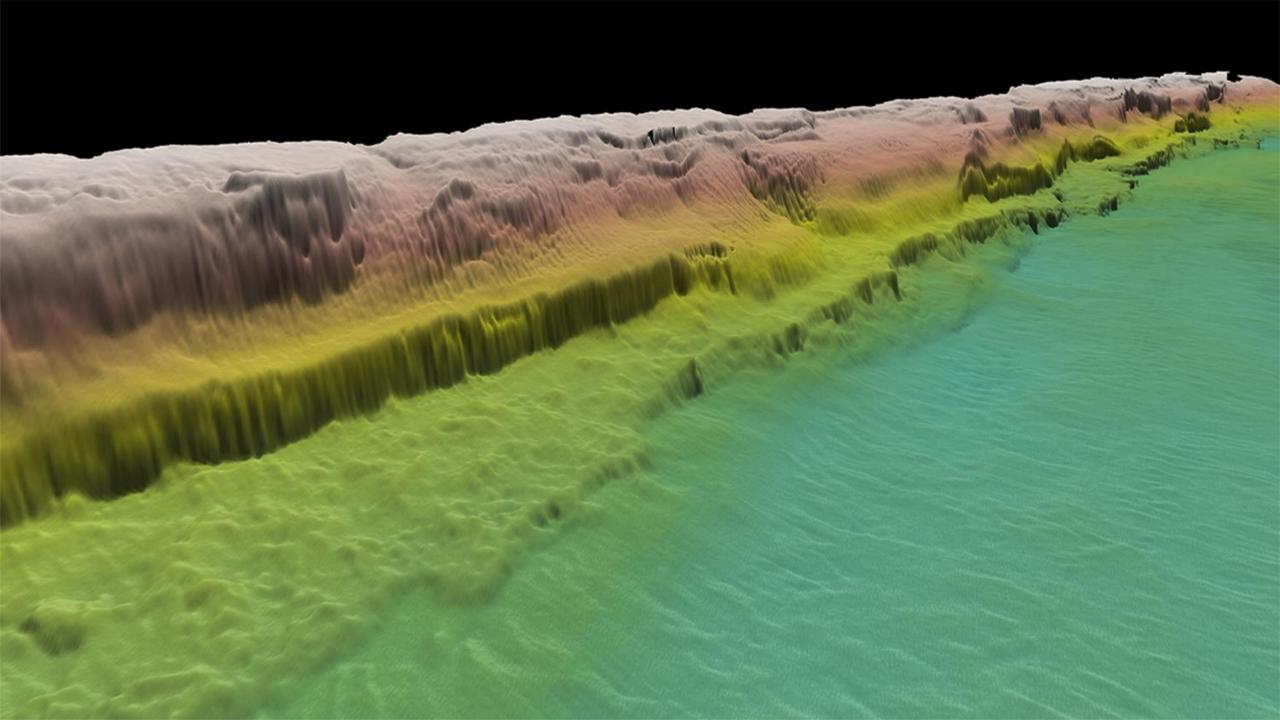
SARCC Final Conference



The Long Durée

- A review of the long durée demonstrates how human and natural influences contribute to the evolution of the coastline.
- Historical, artistic and archaeological information can provide a visual narrative of the changing coast.
- This helps stakeholders, coastal managers and decision makers consider solutions that work with long-term natural processes.

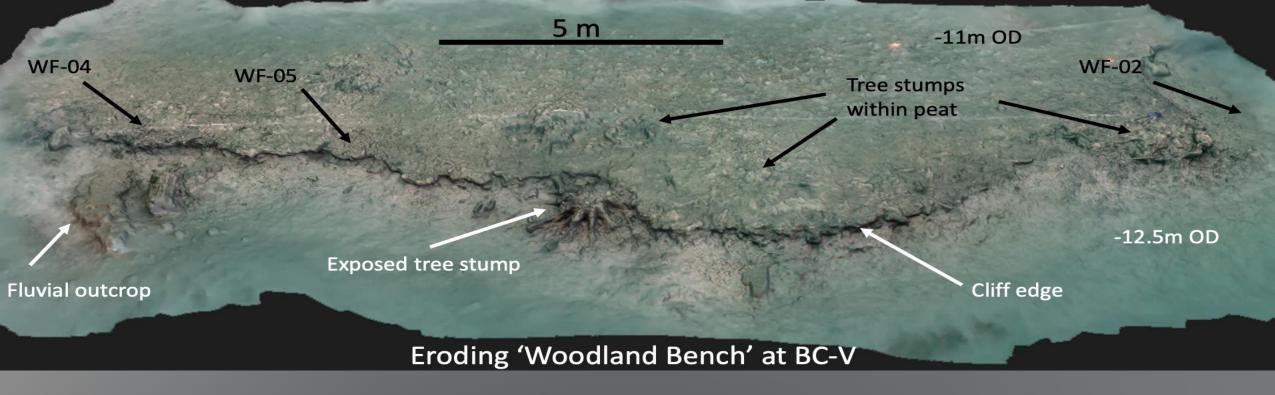


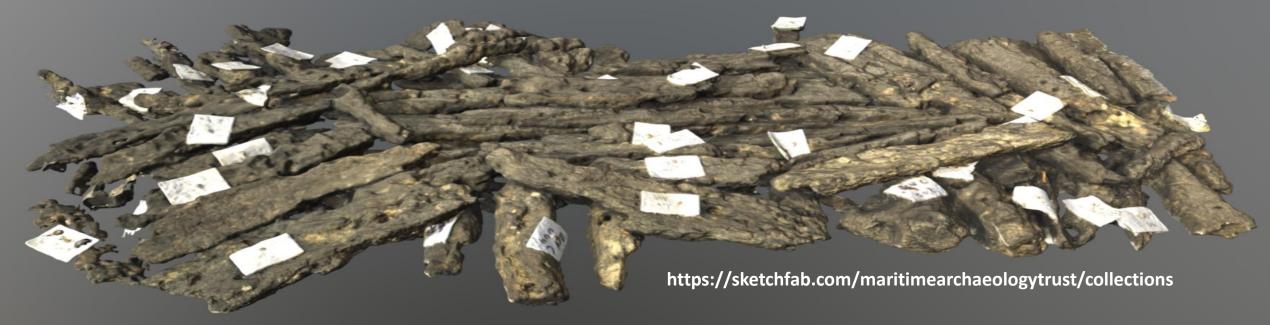


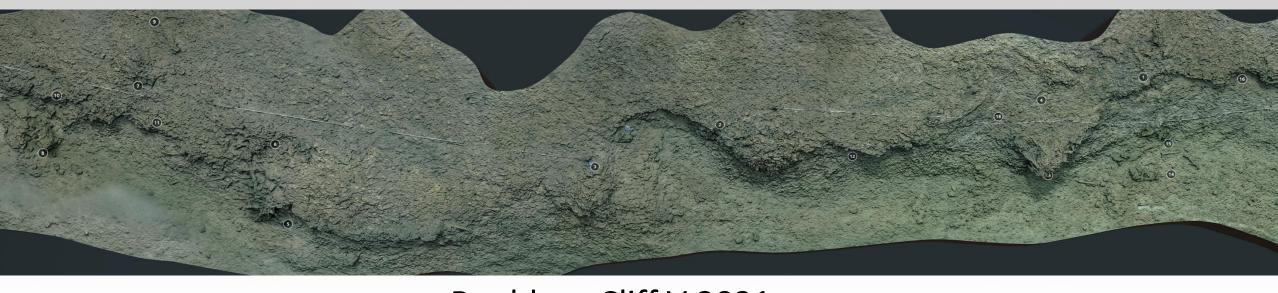






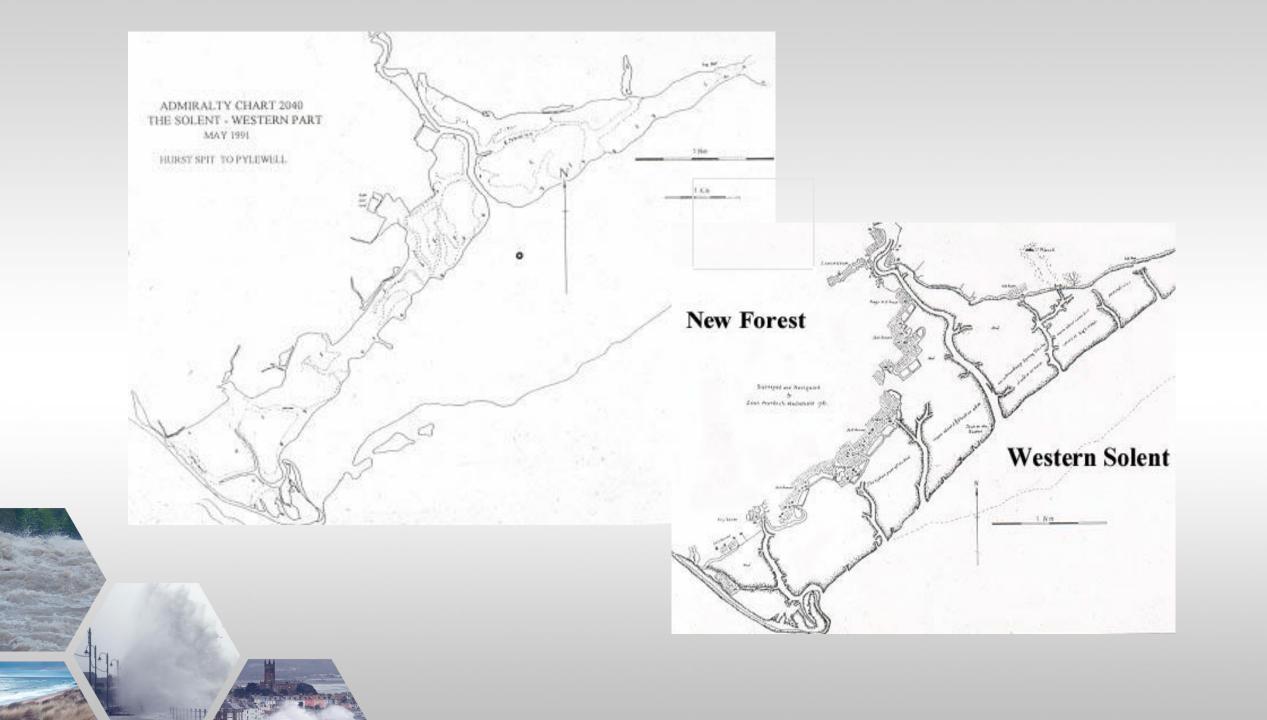


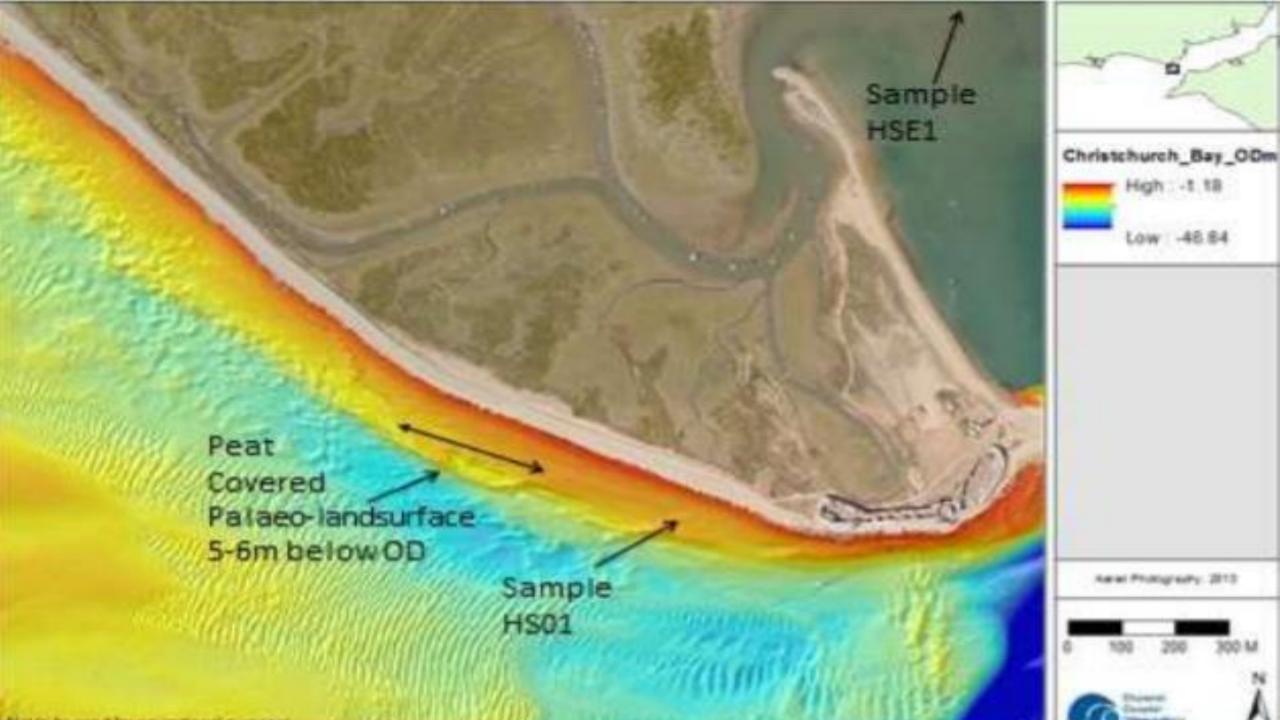




Bouldnor Cliff V 2021





















Newlyn: implications of grey infrastructure



Project context - Newlyn





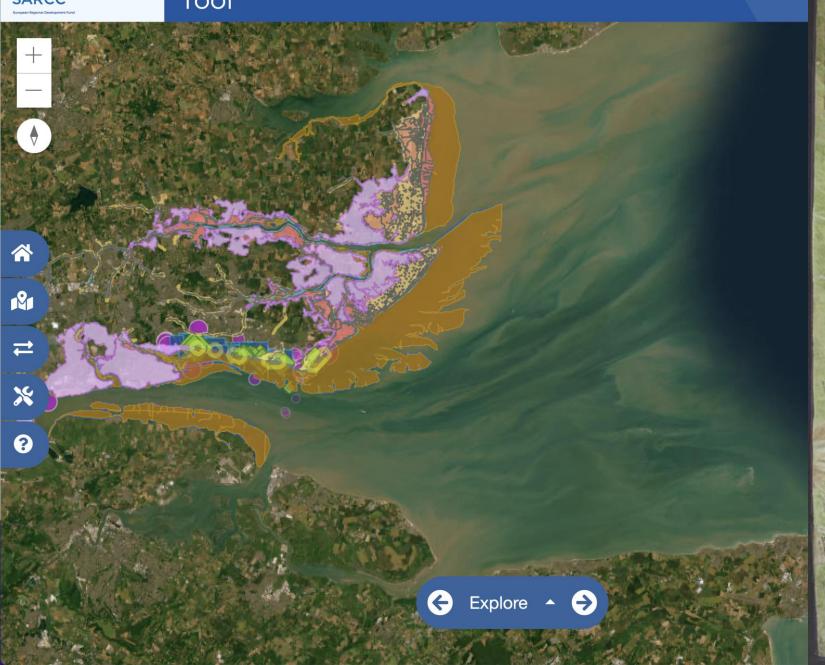








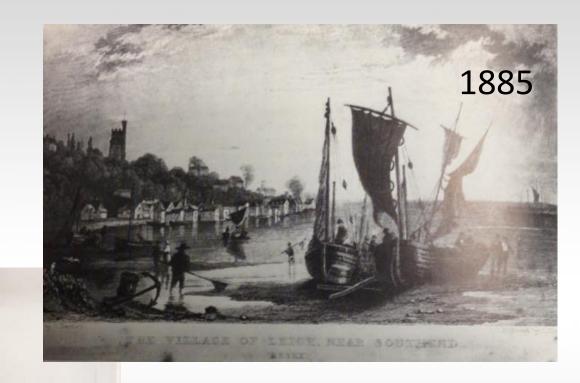
SARCC - Sustainable and Resilient Coastal Cities Tool





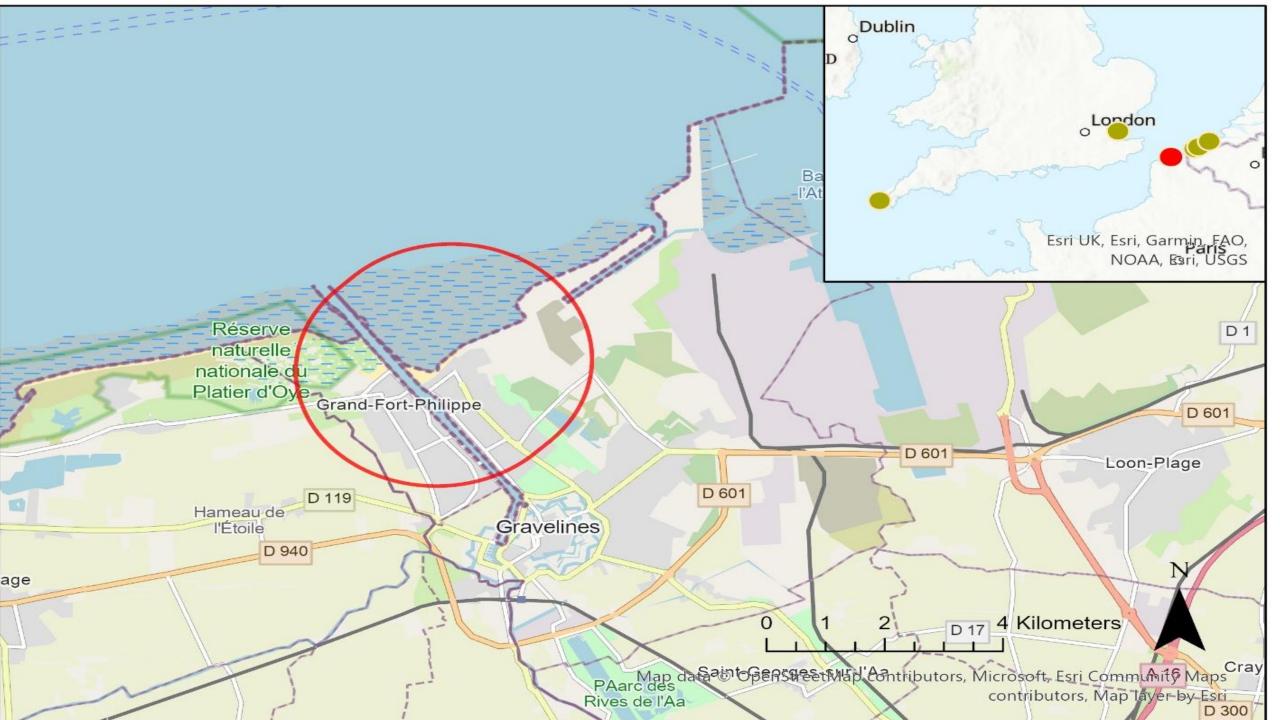








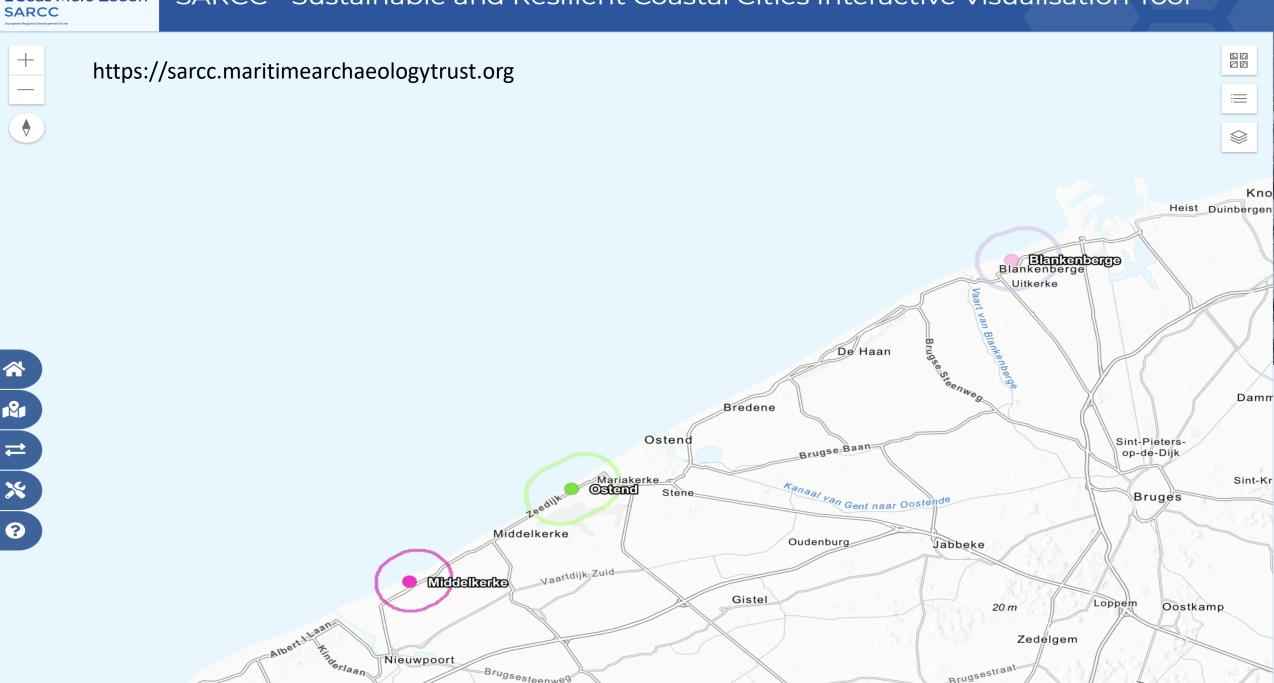
Nieuwlant het Fort St. Philips au Mars et Septembre Sout Keeten Cales Poort AVELINE'S

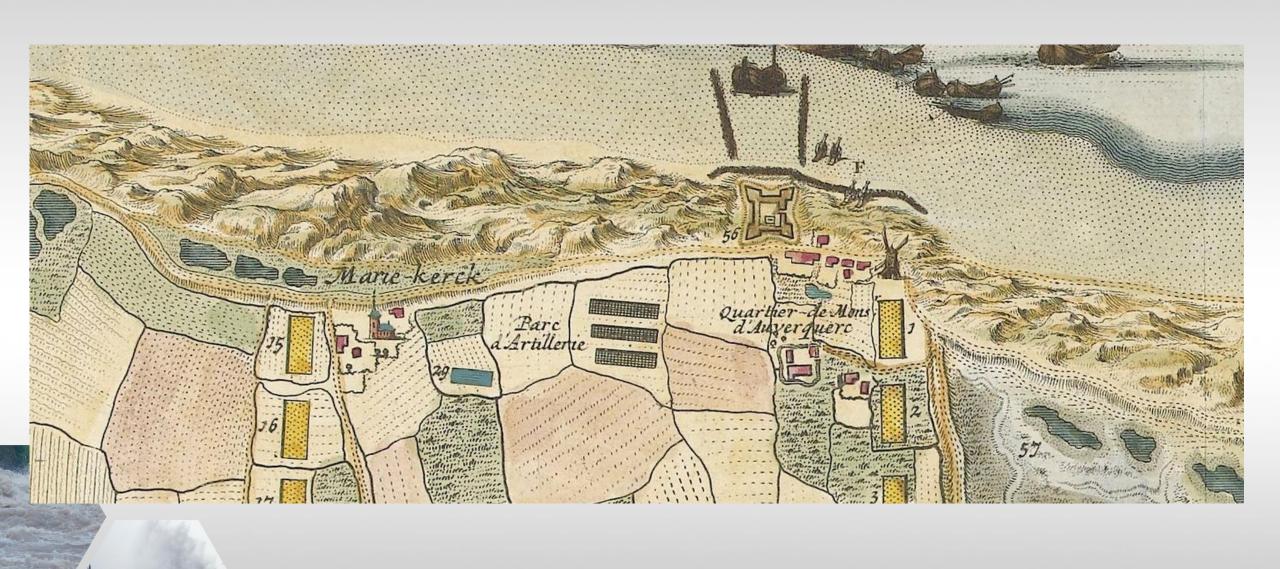






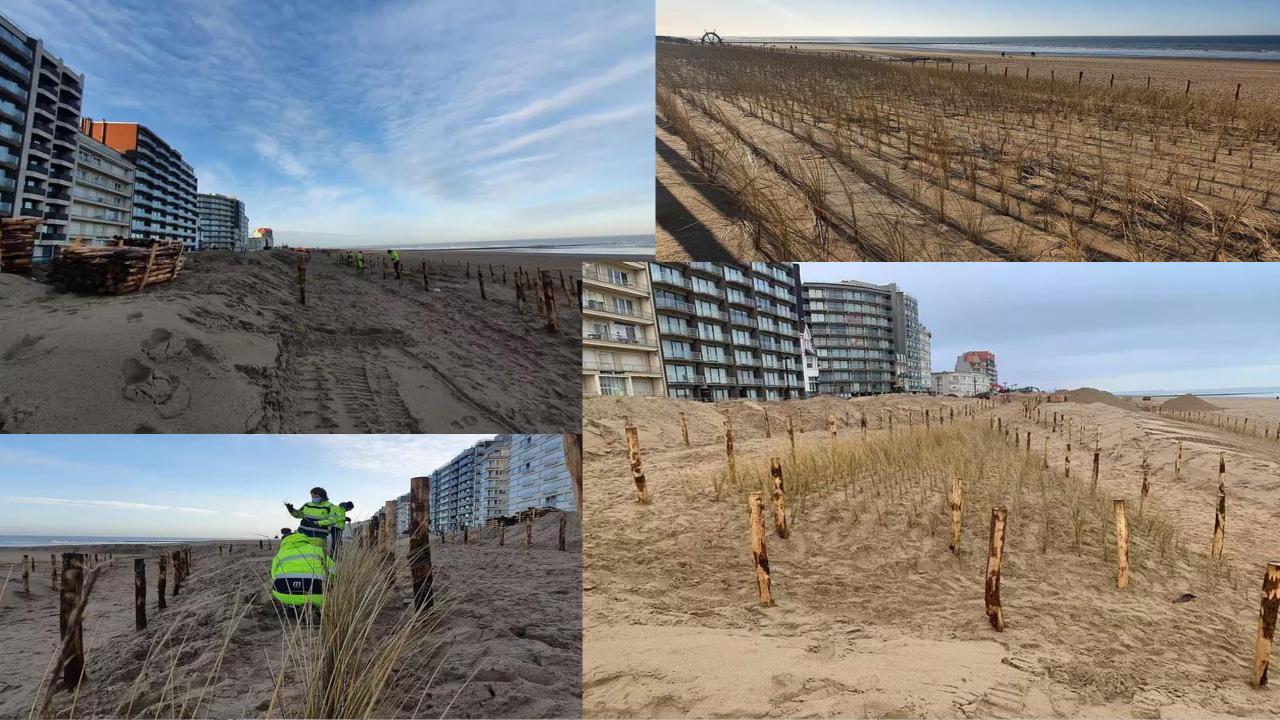
SARCC - Sustainable and Resilient Coastal Cities Interactive Visualisation Tool





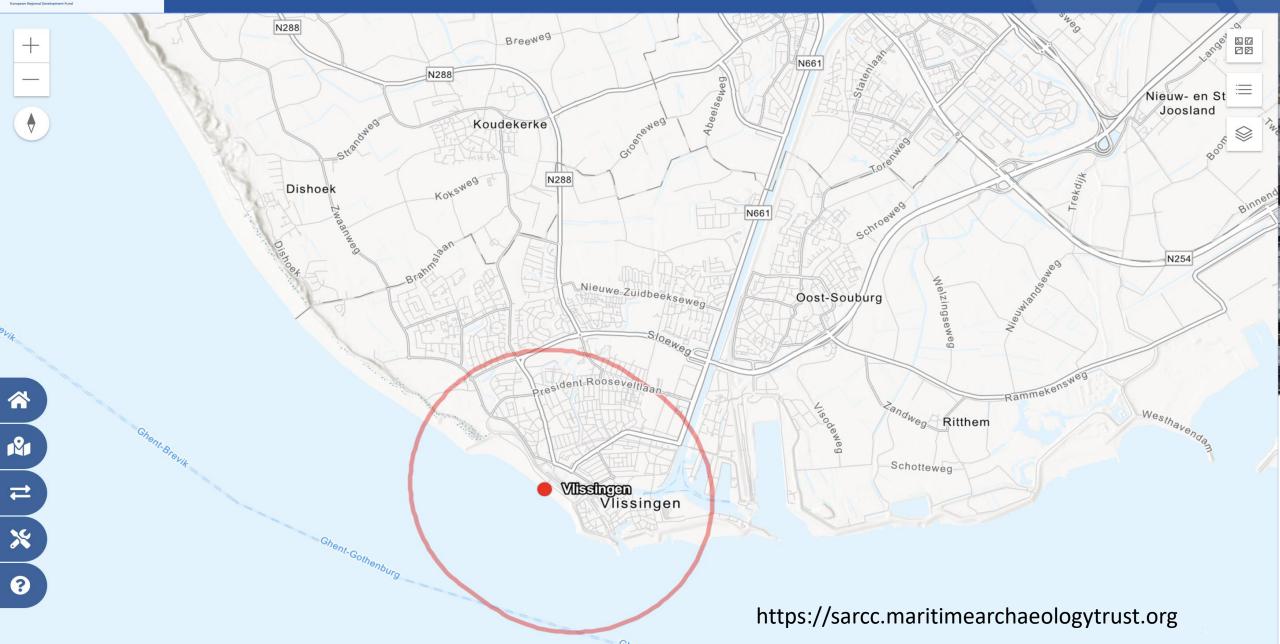






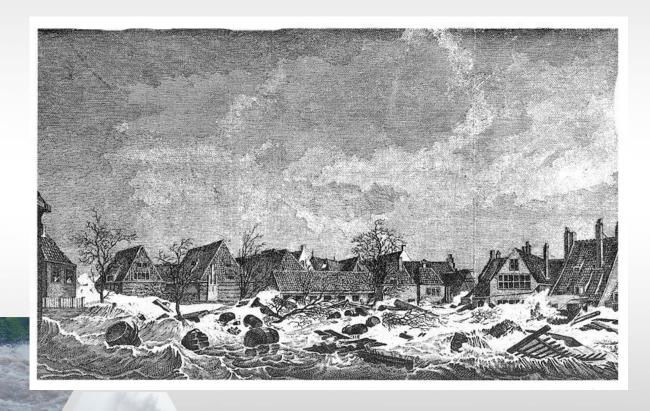


SARCC - Sustainable and Resilient Coastal Cities Interactive Visualisation Tool





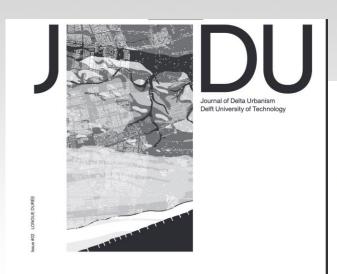
On St Elisabeth's day in the early 15th and repeatedly up to the 18th century and beyond







Noordzee Boulevard bij Storm - Vlissingen.



Publications

The value of historical and archaeological data in understanding patterns of long term coastal change

Garry Momber Julie Satchell Jan Gillespie Brandon Mason Jasmine Noble-Shelly WP1 Guidance Booklet providing long term context for stakeholders

WP2 Guidance Booklet for coastal managers and decision makers



Education







Climate Change and Flooding Assembly

Registered charity number 1153740

Waves in the sea become rougher and higher



When lots of heavy rain falls quickly, it can cause flooding





Interreg EUROPEAN UNION 2 Seas Mers Zeeën SARCC

European Regional Development Fund

<u>Pilots — SARCC - Sustainable And</u> Resilient Coastal Cities





SARCC EDUCATION RESOURCES

RESOURCE GUIDE FOR TEACHERS

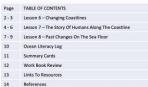








European Regional Development Fund





https://bit.ly/3VEfppW

Visit the Visualisation Tool as you work through this Work Book.



Lesson 6 **Changing Coastlines**

KEY FACTS

11,500 years ago the global oceans were about 40m lower than today. When the climate warmed, the ice sheets melted and sea level rose rapidly. Within 6,000 years there was a rise of around 40m. This had three significant consequences for the SARCC pilot areas that are being studied.



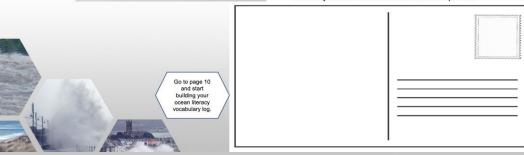
Approximately 8,000 years ago, the ice was melting and sea levels rose.

COASTLINE EROSION EXPERIMENT INSTRUCTIONS

Materials needed for this experiment.

- · Medium sized container
- Sand Water
- Water bottle
- 1. Place sand on one side of the pan. Make it a steep slope. Place some items such as small stones half way up the
- 2. Pour water into the other side until it's halfway up your sand slope.
- 3. Place your water bottle on the end with the water. Push the bottle down to create small waves. Do this consistently and evenly for 1 minute.
- 4. You may make your waves bigger, or keep them the same size. Make observations and note them below. What has happened to the sand and your items?
- 5. Repeat this experiment without any items on the slope and note the differences.

List below your observations of the Coastline Erosion Experiment.





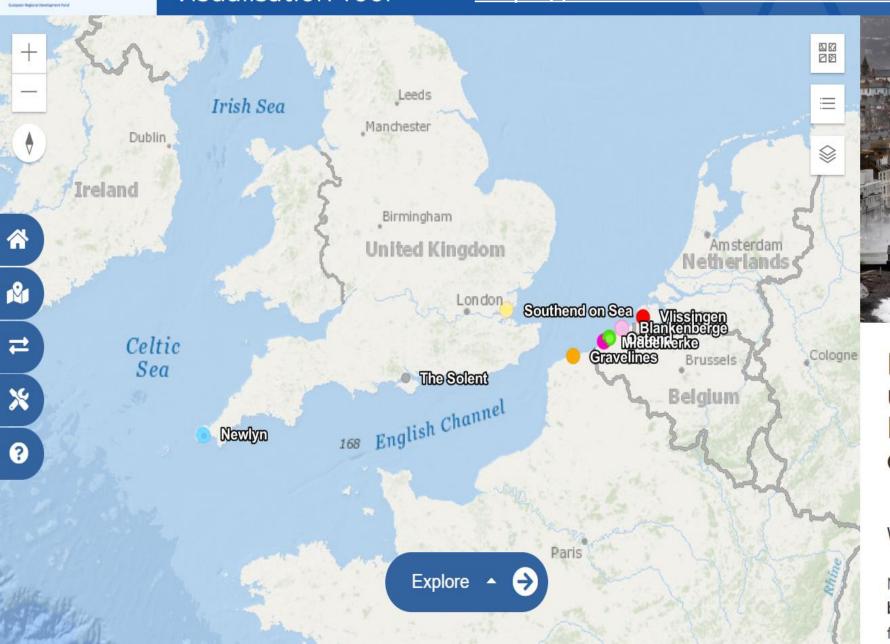






SARCC - Sustainable and Resilient Coastal Cities Interactive Visualisation Tool https://sarcc.maritimearchaeologytrust.org/







Improving the understanding of Nature-Based Solutions in coastal cities

Why is this project required?

Mean sea level rise (SLR) could increase by **1.5m-2.5m by 2100**, which would see damage caused by coastal flooding in Europe increase from €1.25bn per annum



2 Seas Mers Ze∈ SARCC

Sustainable and

International Col

June





Interreg

Sustainable and Resilient Coastal Cities

Archaeology and Coastal Change

UNESCO Meeting on <u>Mobilising</u> Civil Society and the Scientific Community for the Cultural Heritage of the Oceans.

Underwater Cultural Heritage and Non Government
Organisations

May 24th 2022

Garry Momber, Brandon Mason and Julie Satchell

2 Seas Mers Zee SARCC

Archaeology and Change

Isle of Wight Natural
Archaeological S
29 March 20

longue durée Maritime Atlas

Julie Satchell, Jan Gillespie, Garry Momber



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