



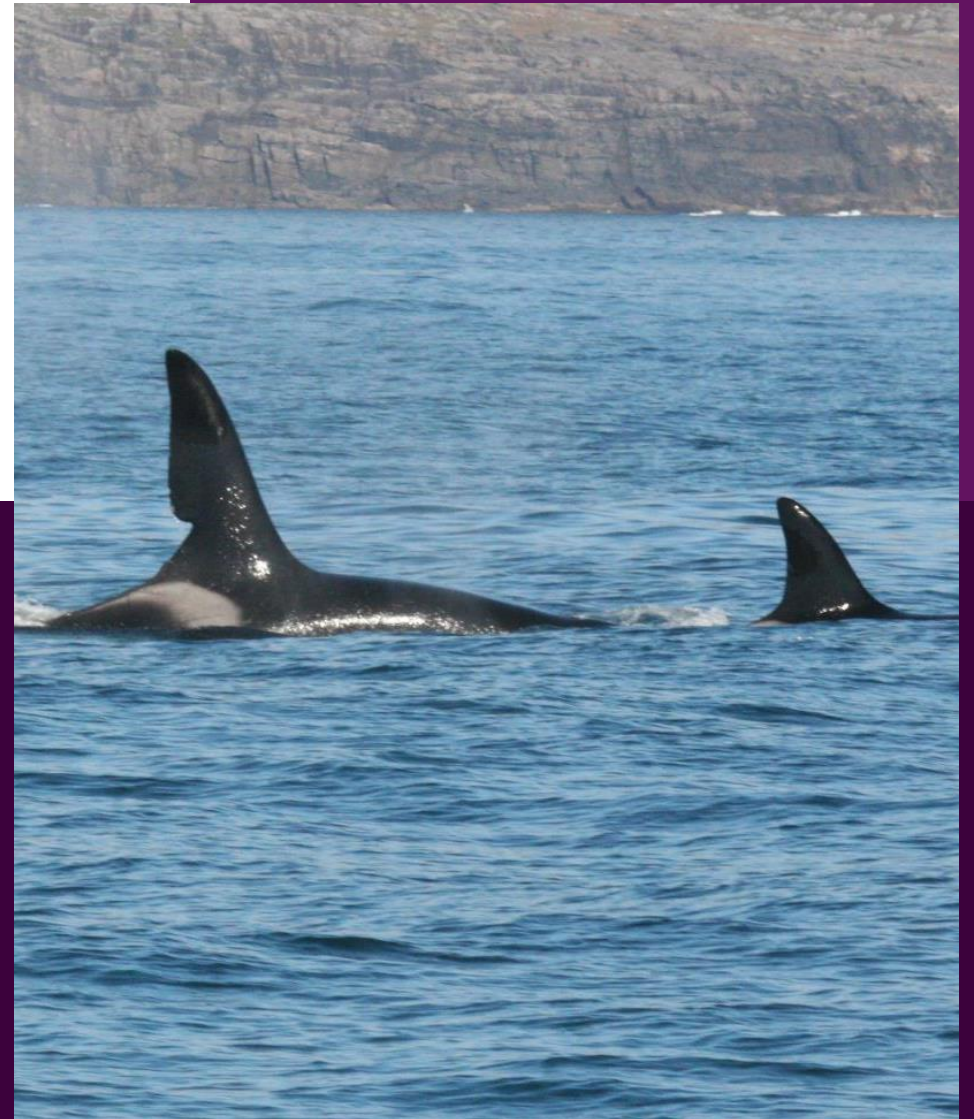
**UNIVERSITY OF
PORTSMOUTH**

Climate change and marine pollution around Portsmouth

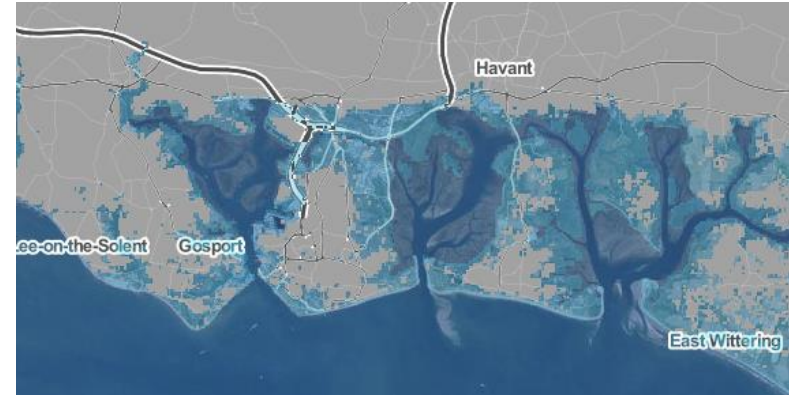
Professor Alex Ford

Institute of Marine Sciences

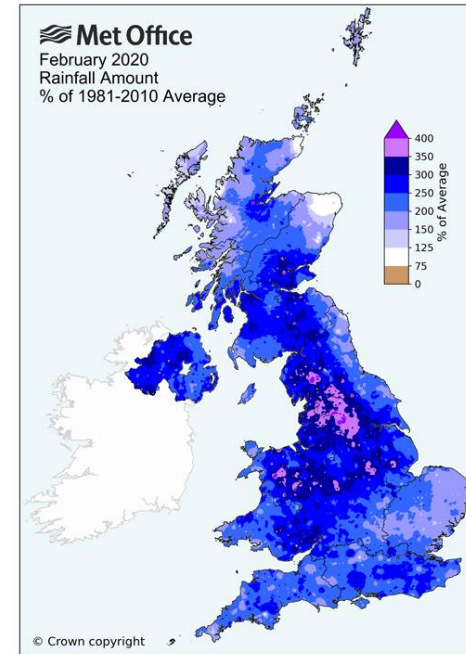
Solent Forum



1. Legacy Pollutants: Sea Level Rises



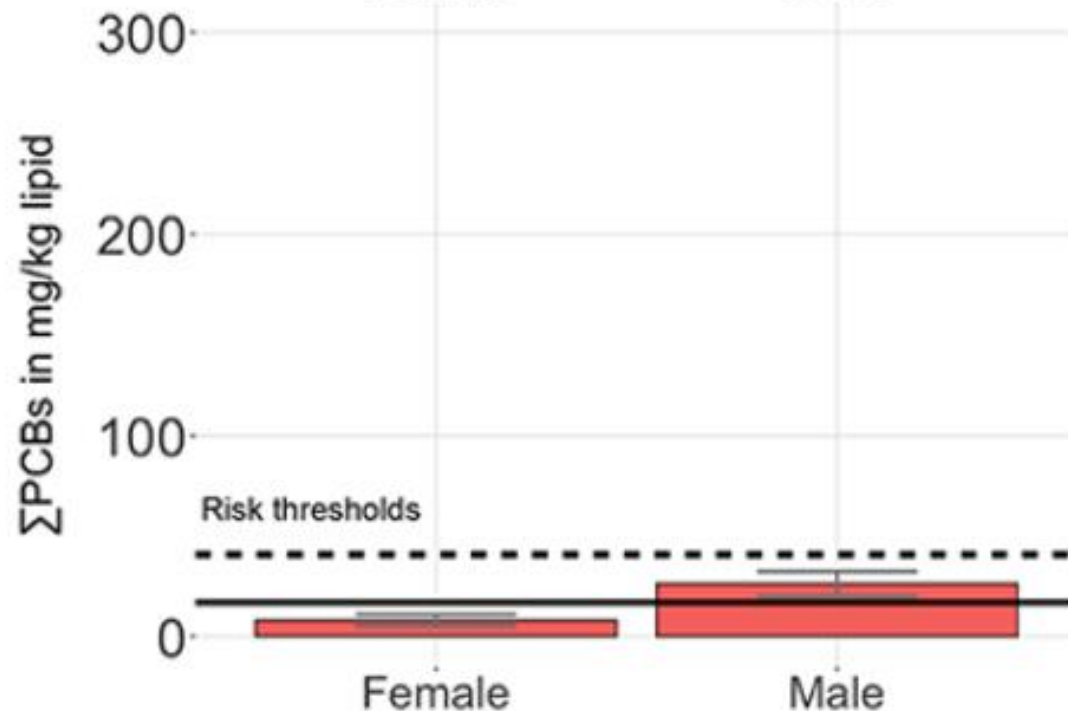
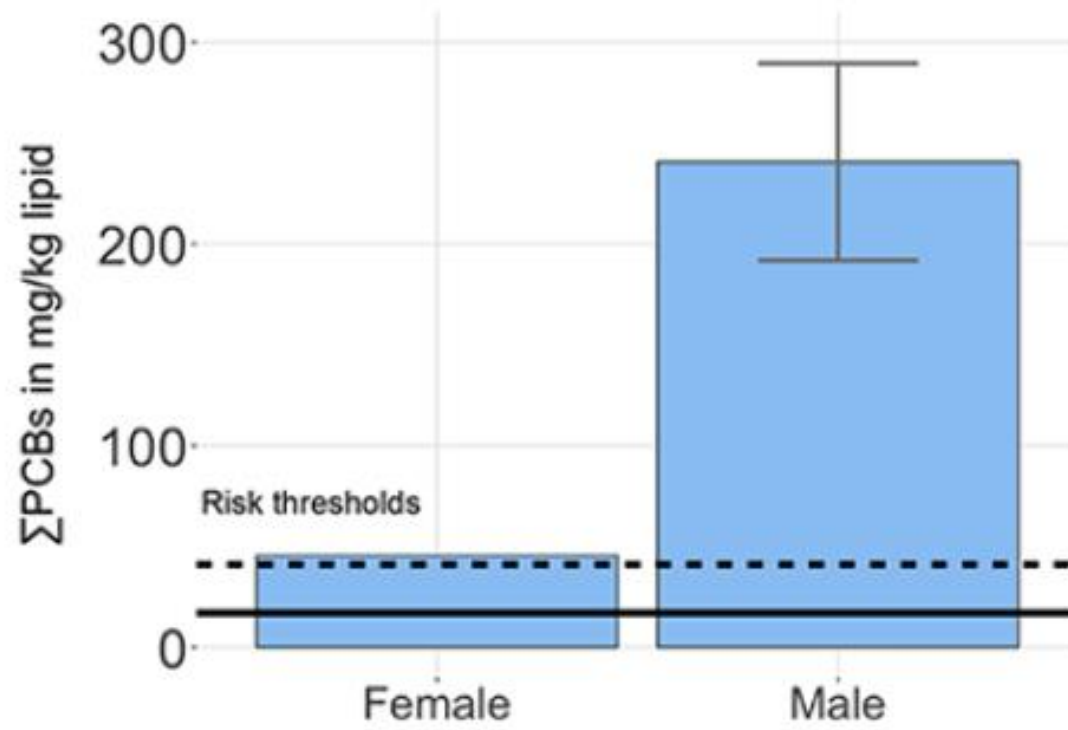
2. New and Emerging contaminants:
Increased rainfall pattern



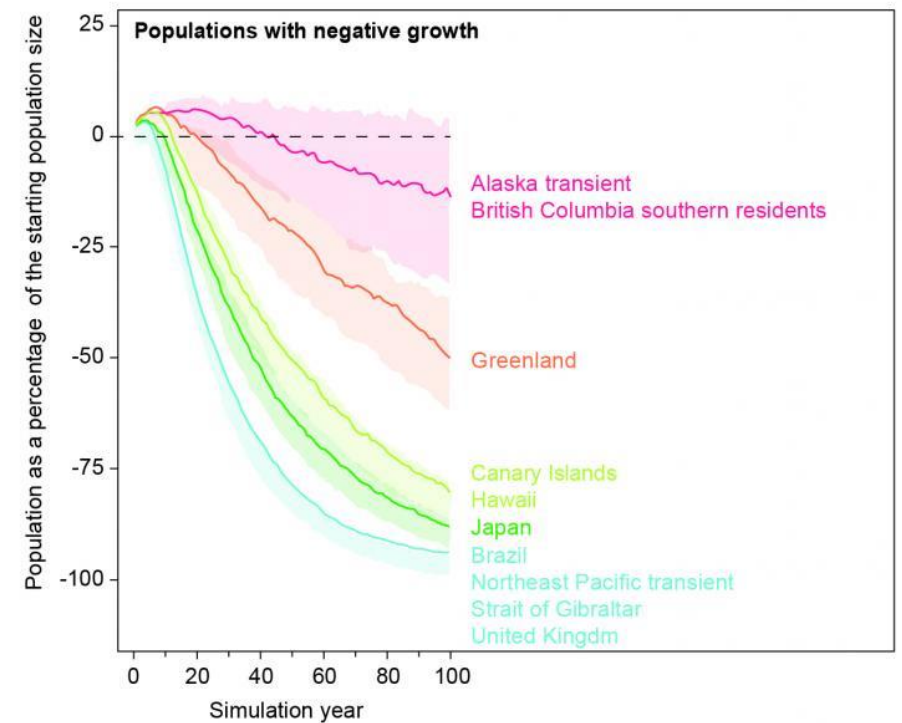
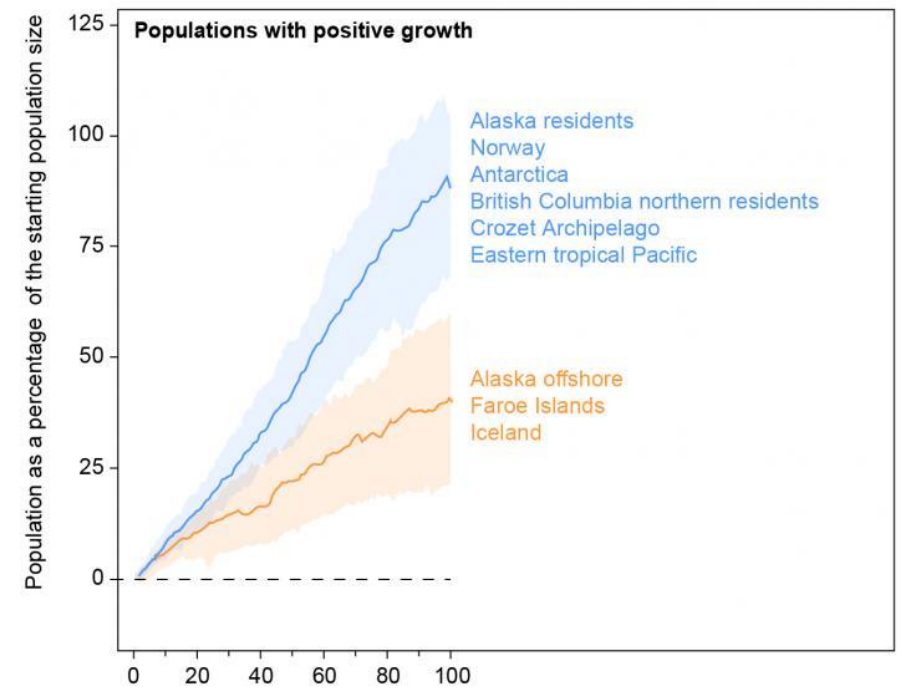
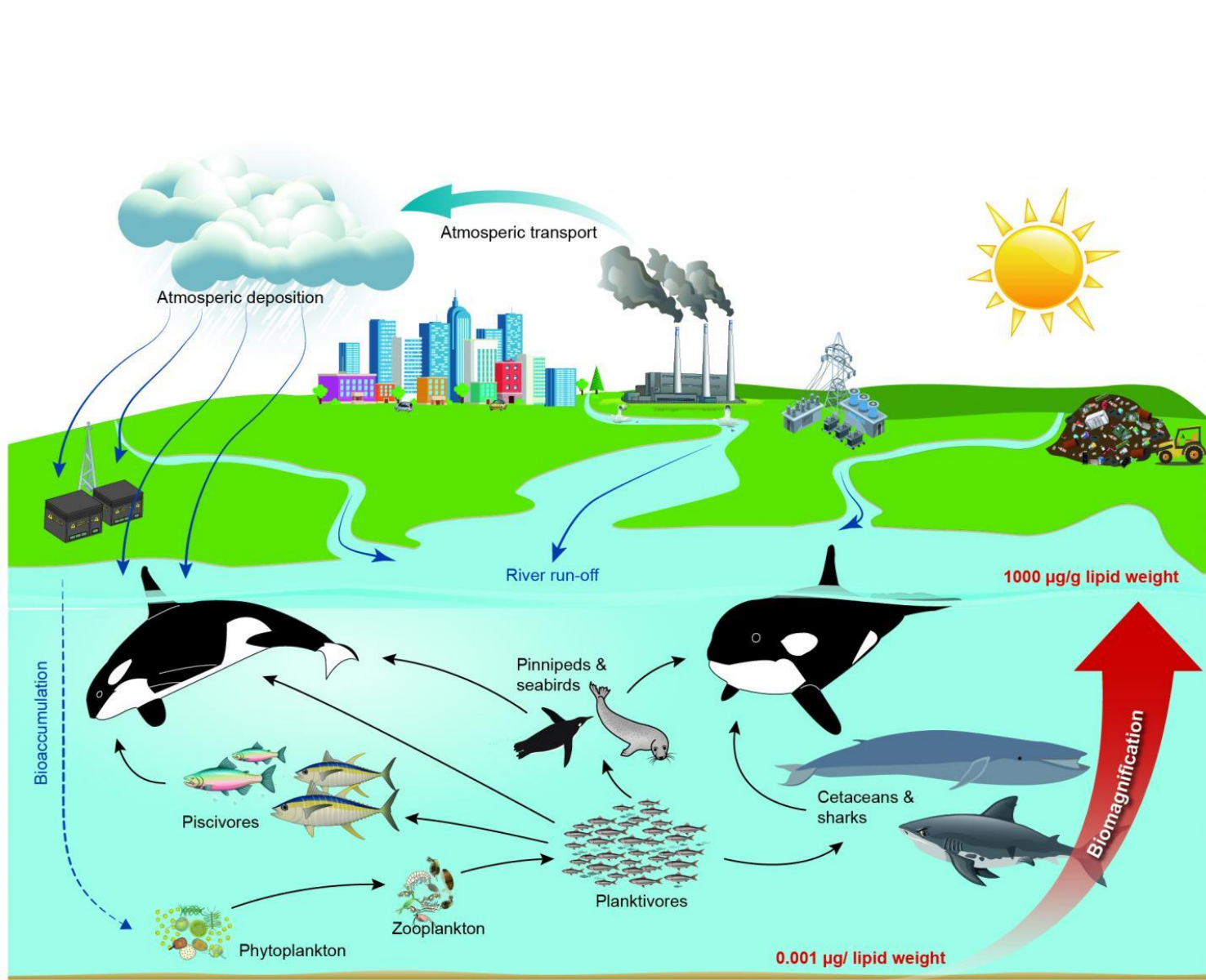


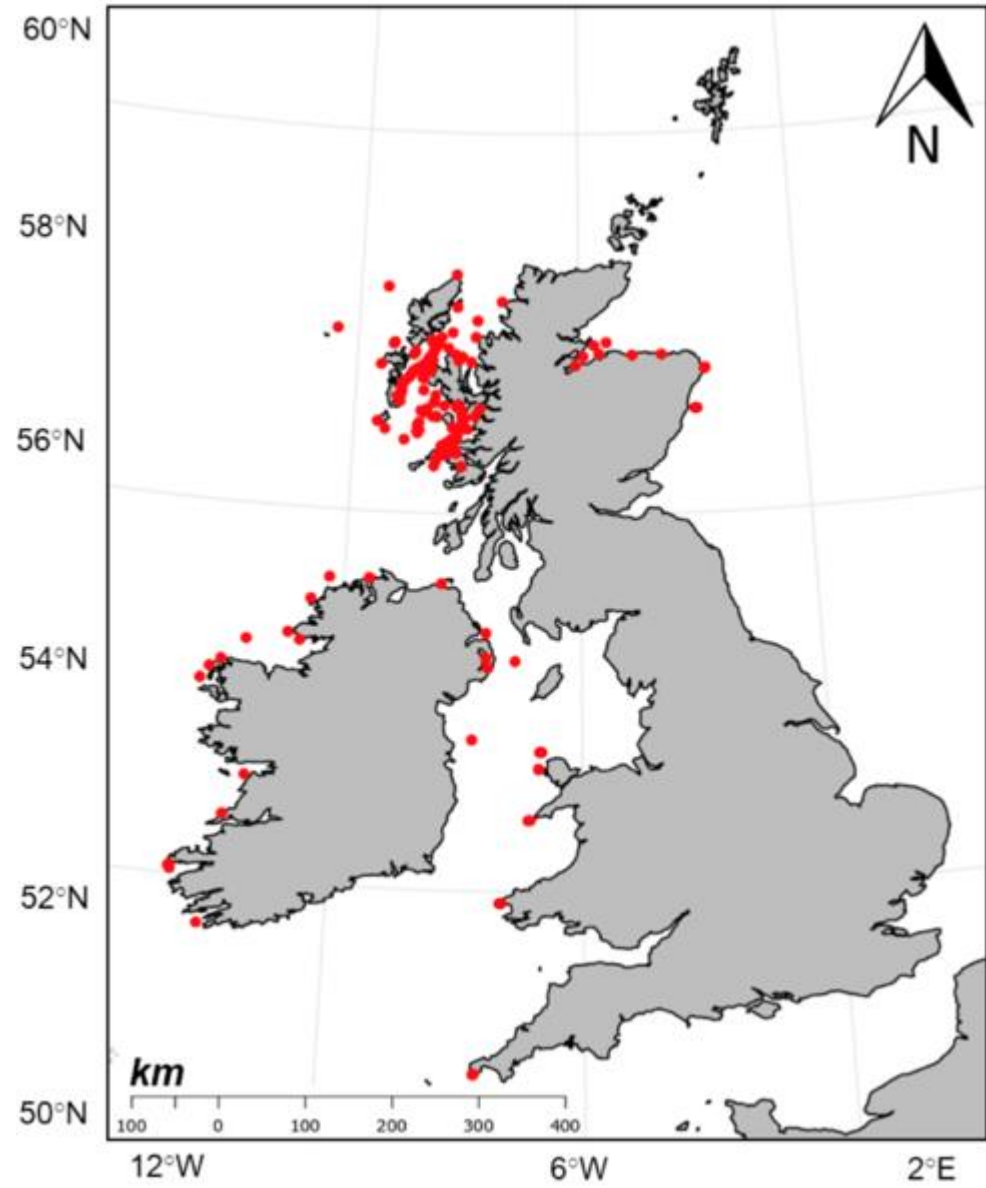


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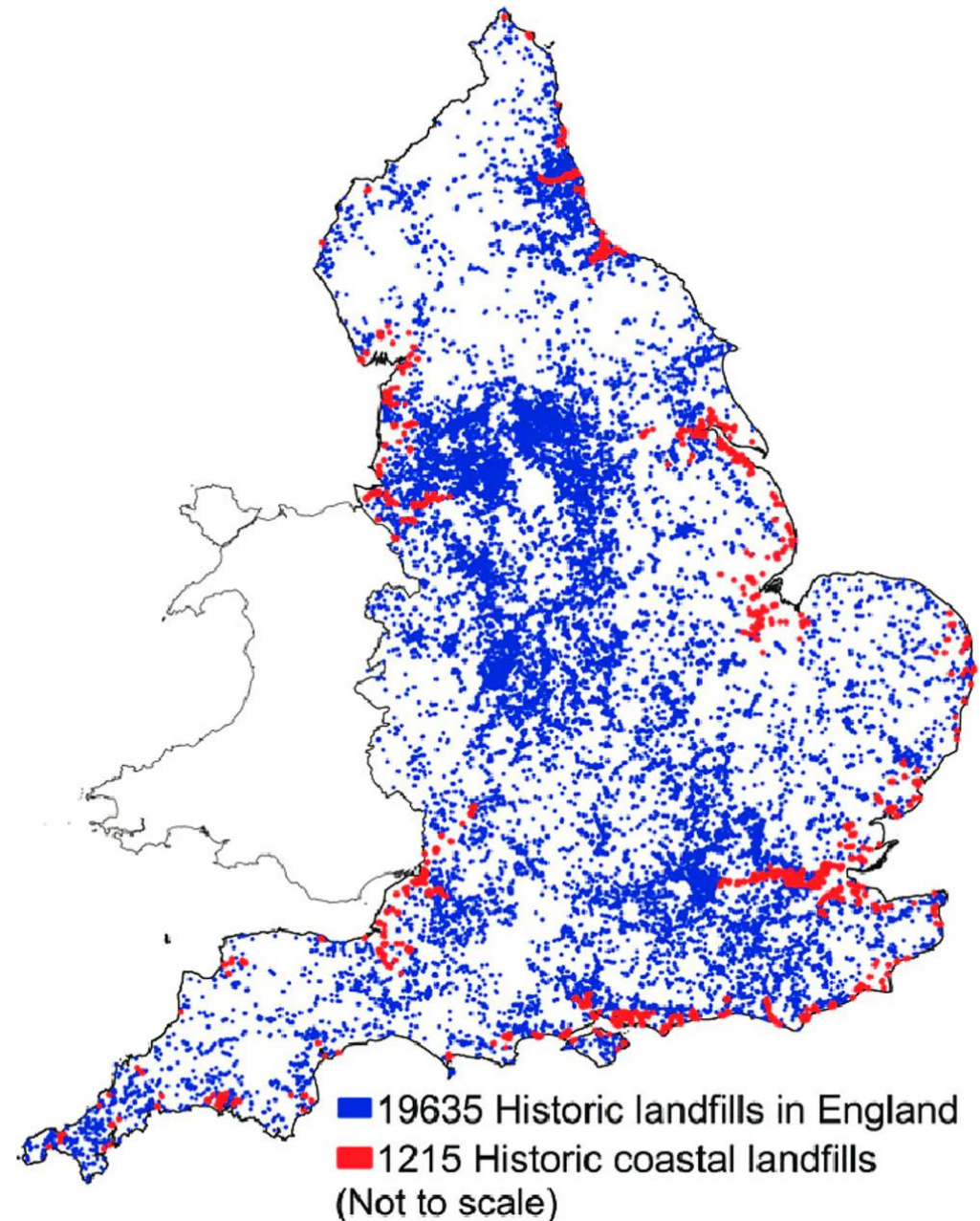
Coastal landfills risk leaking long-banned toxic chemicals into the ocean

Published: July 15, 2021 4.11pm BST

Alex Ford (UoP), Kate Spencer (Queen Mary University of London)

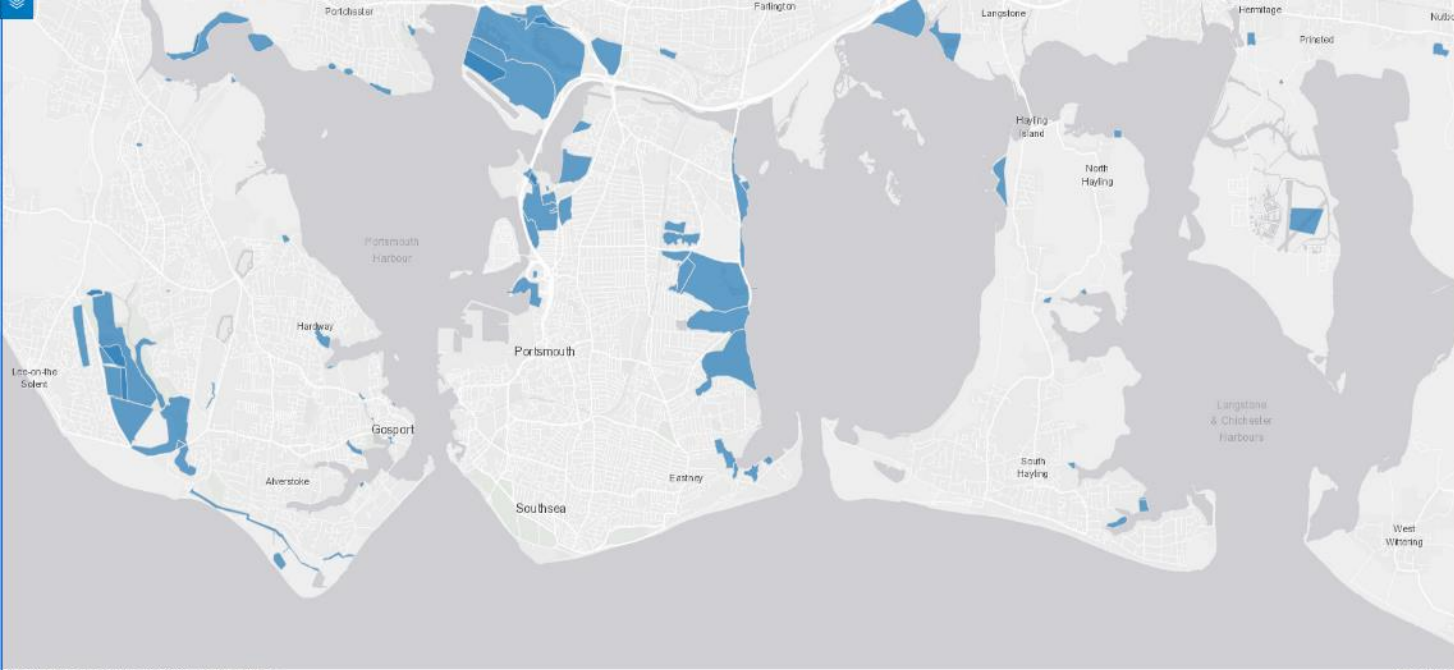
1 million historic landfill sites in Europe

10,000 are situated on coasts at risk of climate change, sea-level rise, flooding or erosion



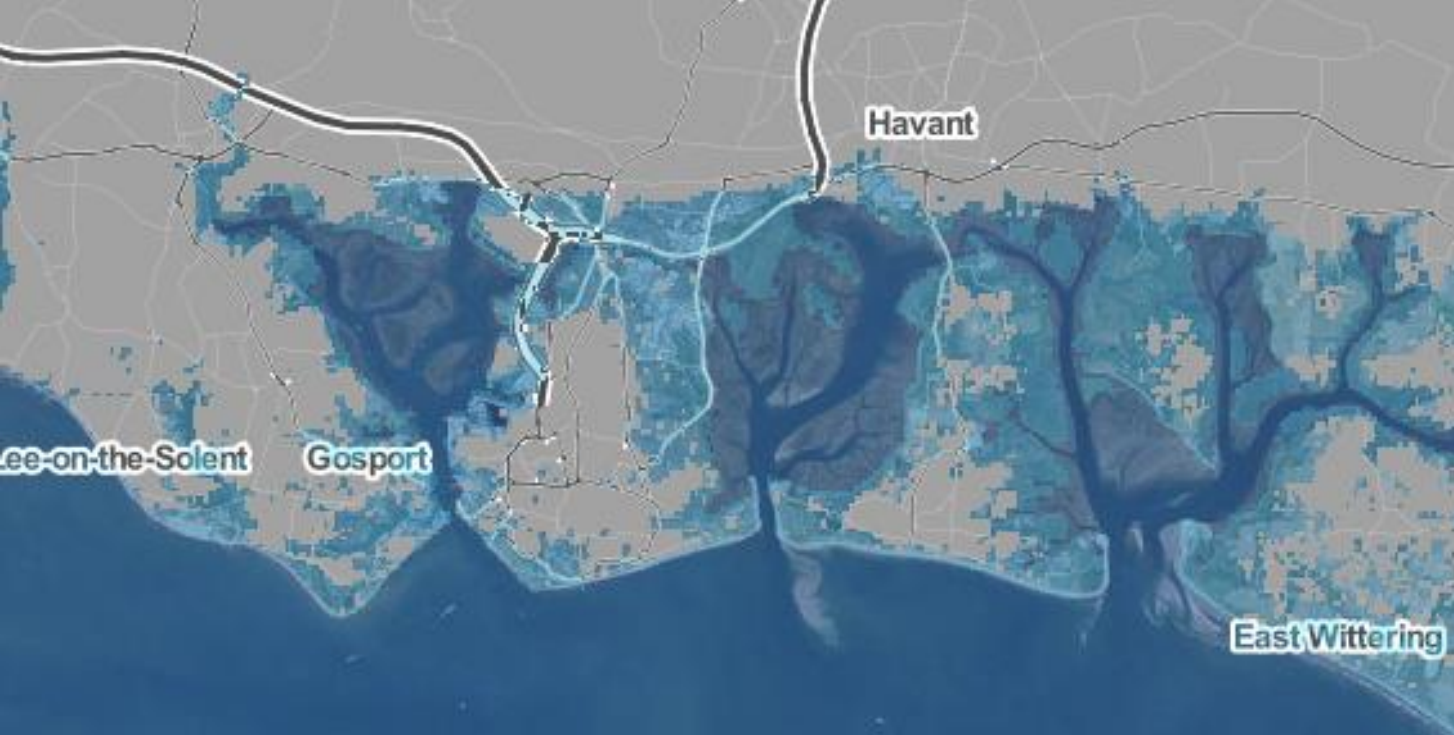
Brand et al 2017

Such extreme weather events are predicted to increase in frequency under climate change scenarios and in England alone up to 79 coastal landfills could erode by 2055 if sea defences are not maintained and across the UK more than 1,700 are at risk of flooding.



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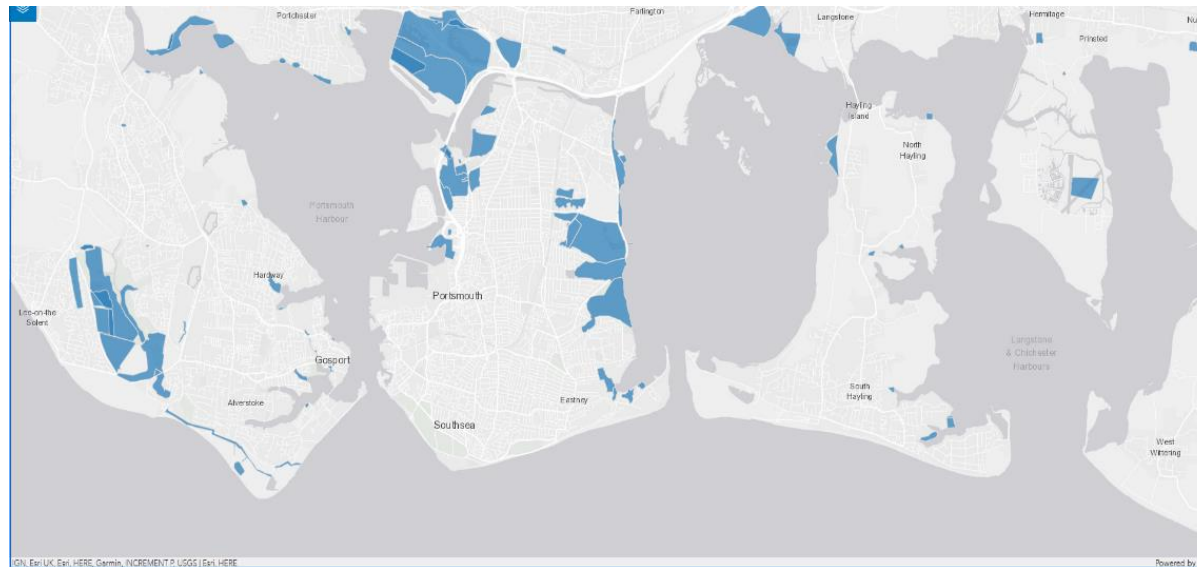
Gosport

Havant

East Wittering

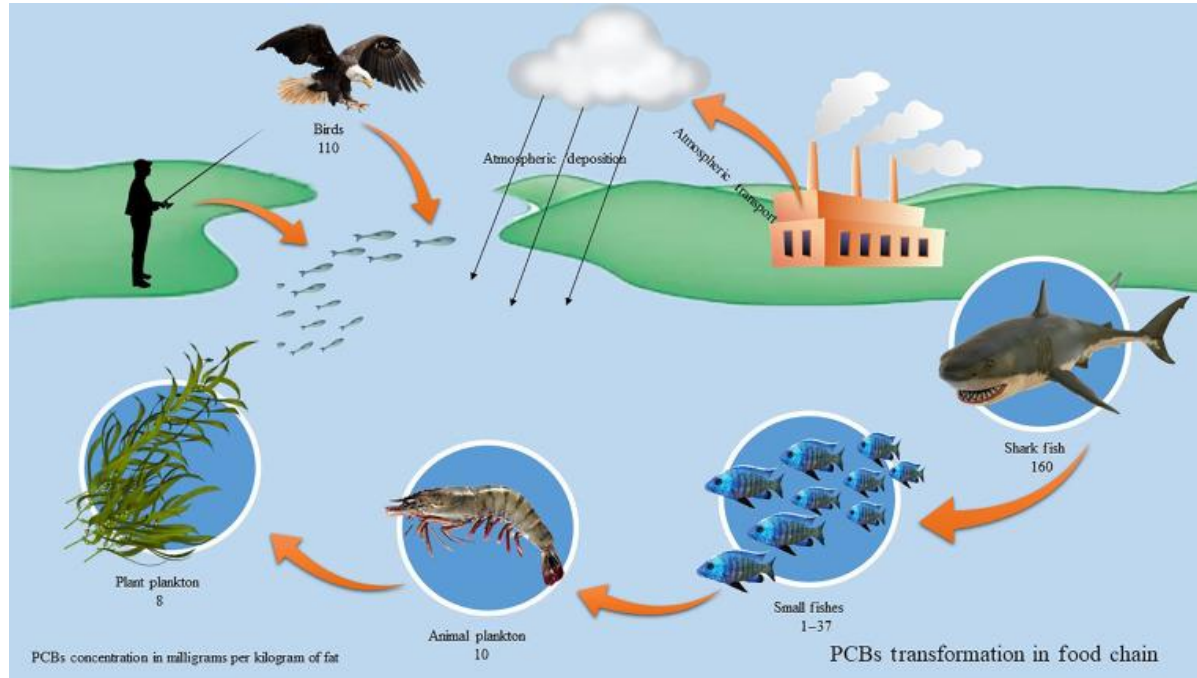


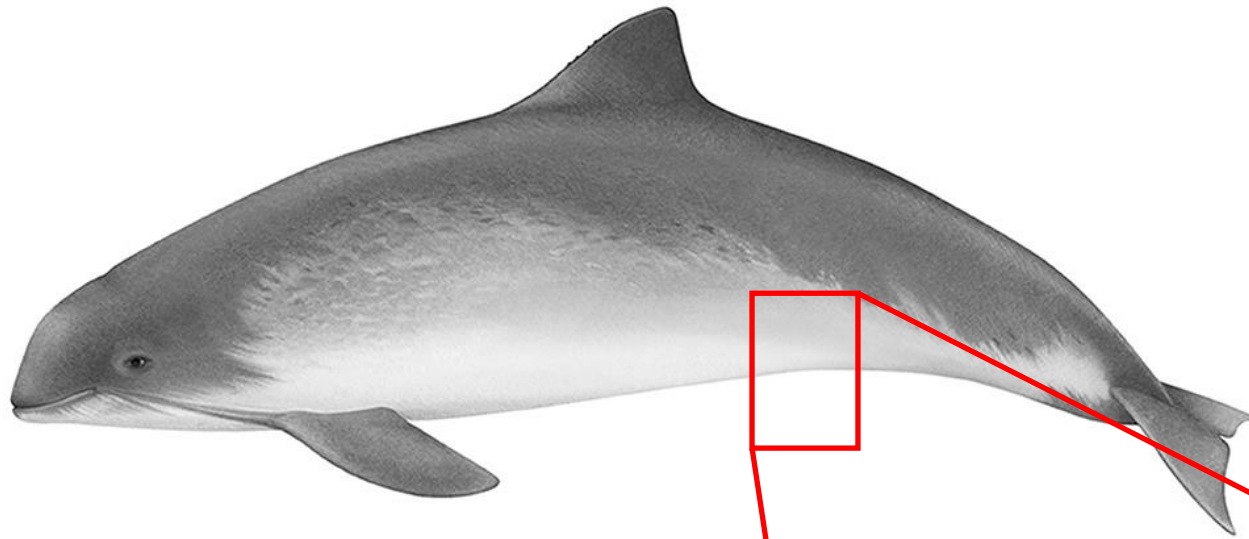
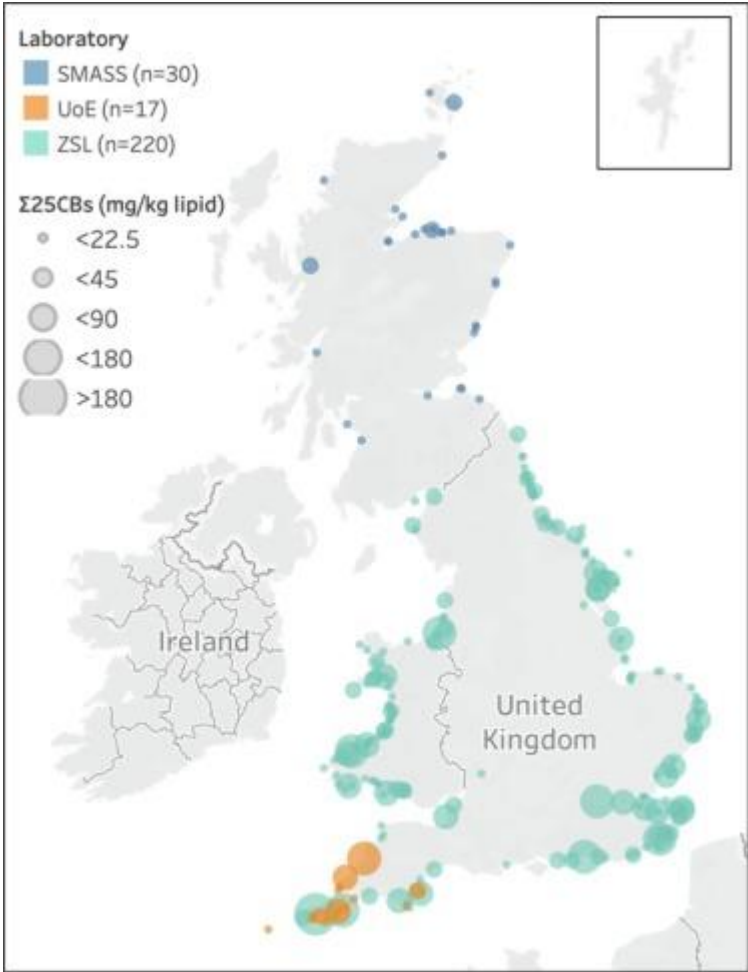
- An article has been [published by The Guardian](#) today about historic landfill sites in the UK, stating that “the contents of hundreds of sites remain unknown” to the Environment Agency (EA), therefore inferring that the EA is responsible for these sites and the potentially hazardous wastes within them.
- Although the EA [maintains a record](#) of the location of all former landfill sites through data collated from a number of sources, **it is the responsibility of local authorities to maintain these old sites** and more generally to identify contaminated land within their districts.



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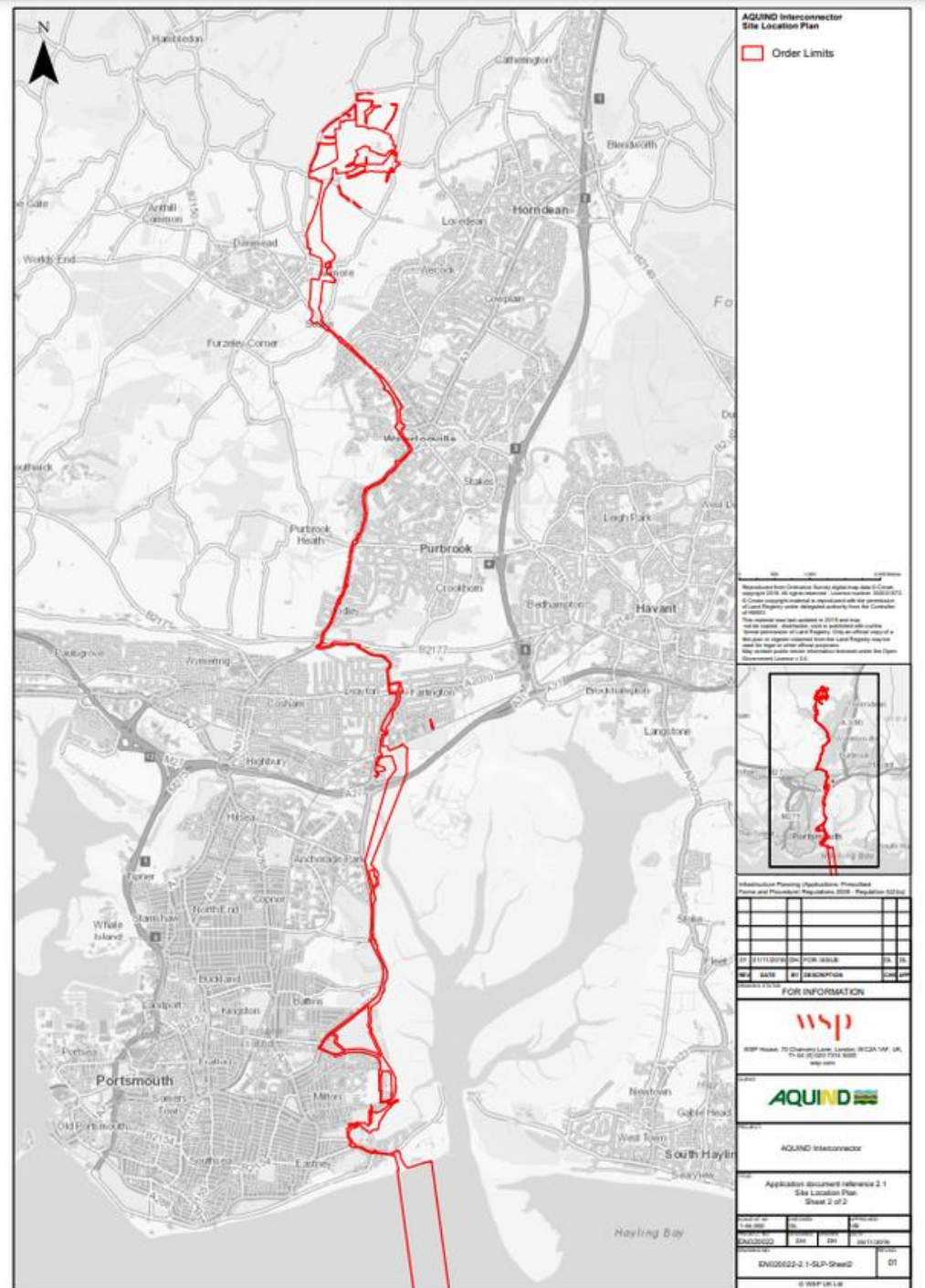


- However, none of these options are cheap. Authorities looked at one UK south coast landfill and estimated it would cost £200 million to hold the line or [£1 billion to relocate the waste..](#)

- *“Given the potential number of coastal landfills at risk in the UK alone.....it is evident that the UK alone is looking at an issue that will cost billions to address.”*



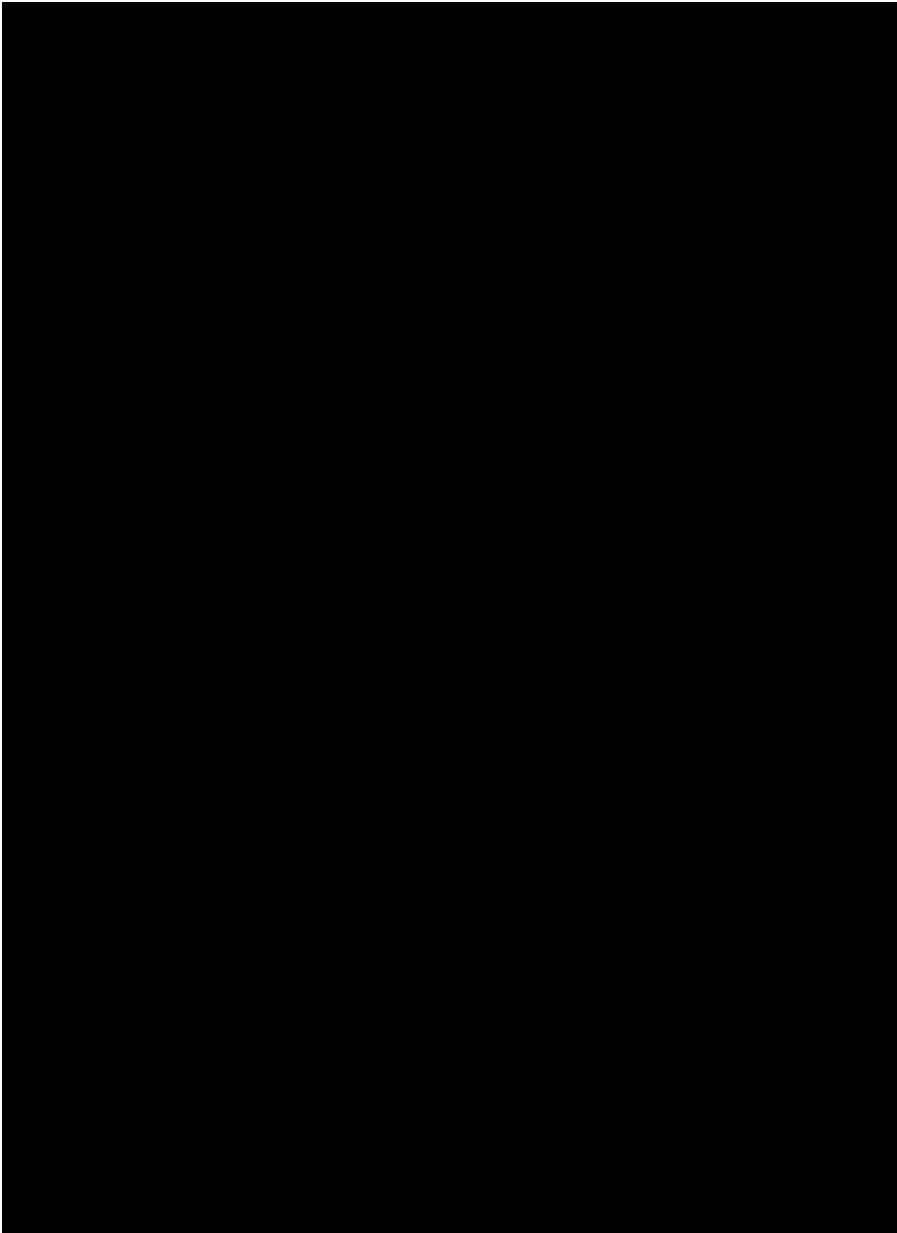
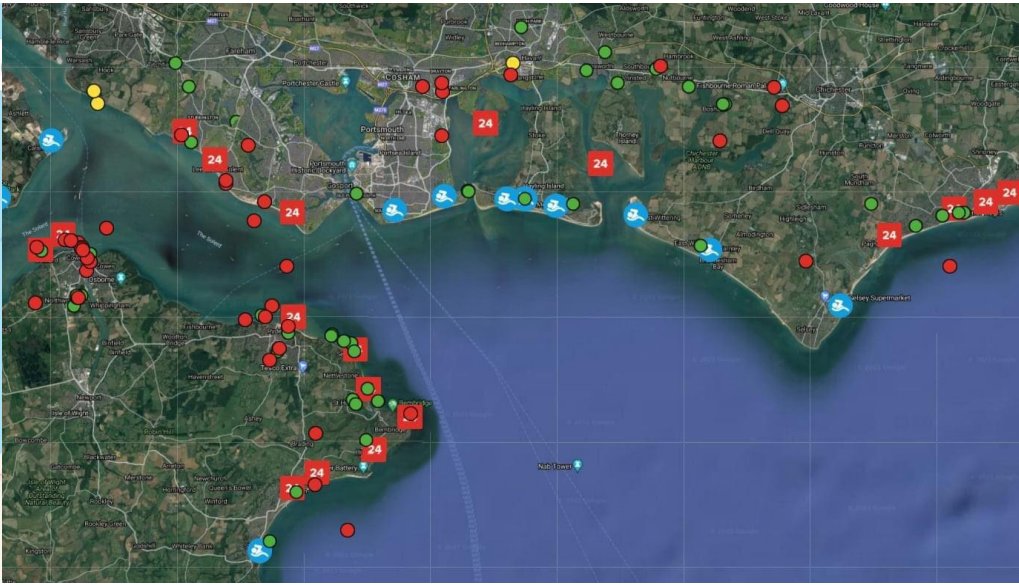
- This is a long-term societal problem that will cause significant problems for future generations if we ignore it today.
- We need national strategy and funding, and the issue can't be allowed to fall foul of **governmental short-termism**.
- Internationally, there need to be **coordinated efforts** to accept this will be an issue not just for some countries, but all, due to the global importance of healthy oceans.







● No release to bathing site
 ▲ Release within last 72 hours
 ■ 24 Release within last 24 hours
 ● No release from outfall
 ● Release within last 72 hours
 ● Release within last 24 hours





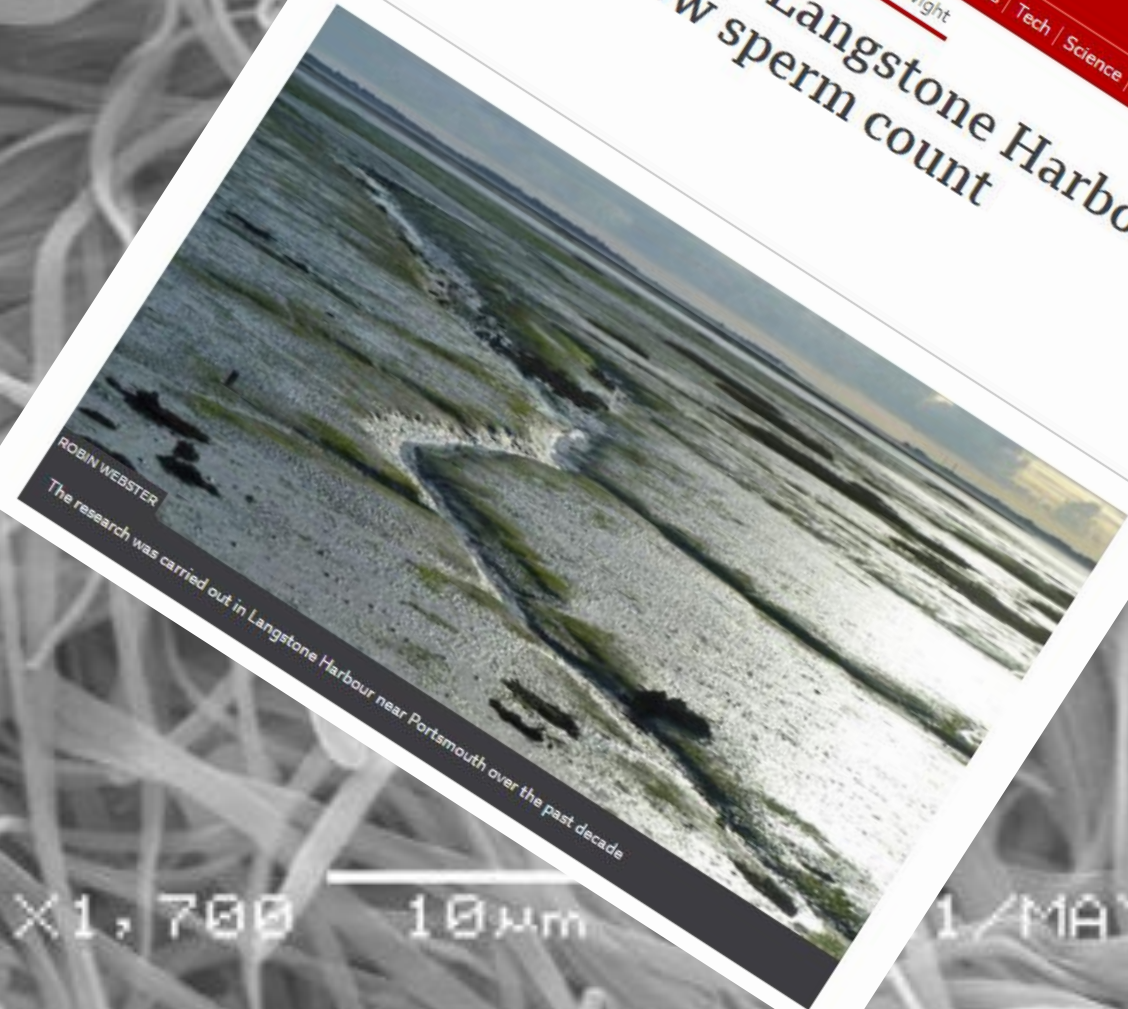


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Warning over Langstone Harbour shrimps' low sperm count

9 March



ROBIN WEBSTER

The research was carried out in Langstone Harbour near Portsmouth over the past decade

X1,700

10µm

1/MAY/12

Thank You for listening!



Natural
Environment
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Biotechnology and
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