Co-existence between Brown Crab Fisheries and Offshore Wind Developments

Mike Roach Deputy CEO, National Federation of Fishermen's Organisations

Chair: Shellfish Association of Great Britain, Crustacean Committee Chair: Shellfish Industry Advisory Group



nffo@nffo.org.uk/ https://www.nffo.org.uk/

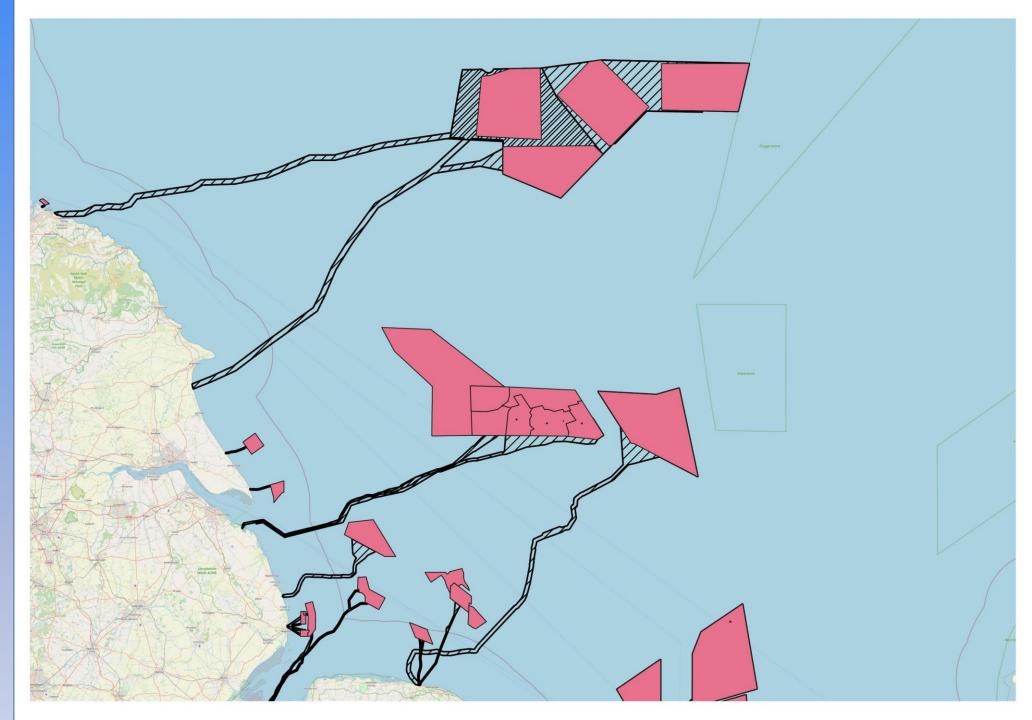
Introduction

- Scale of the issue
- Concerns from the fishing industry
- Barriers and enablers to co-existence
- A working example of co-existence
- Caveats
- Summary



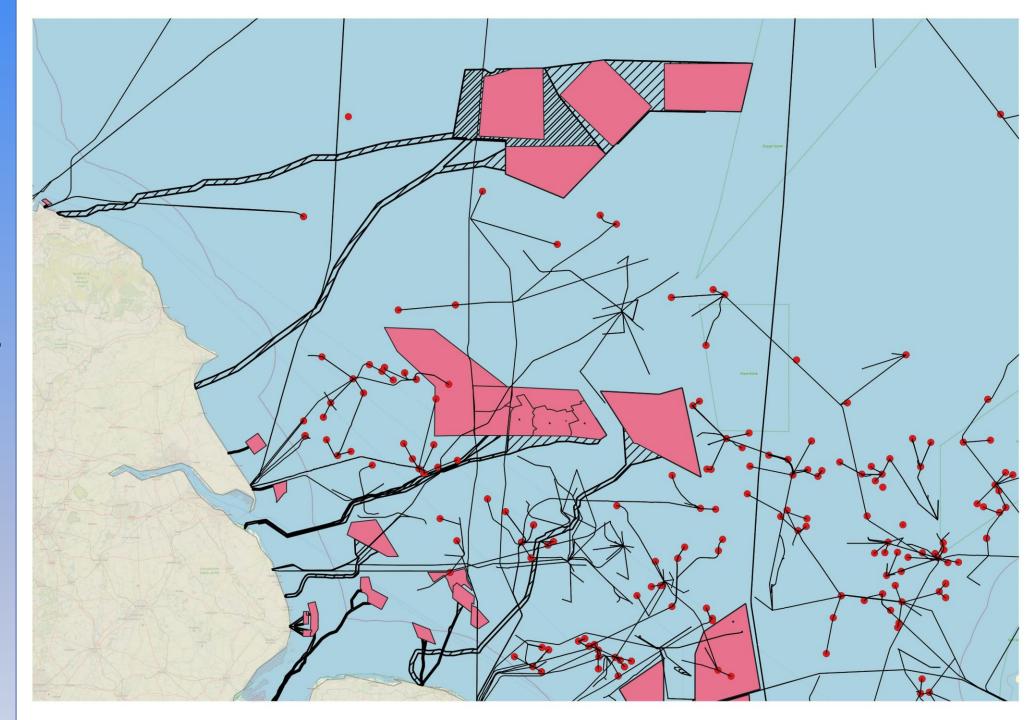


Offshore wind developments and export cable routes



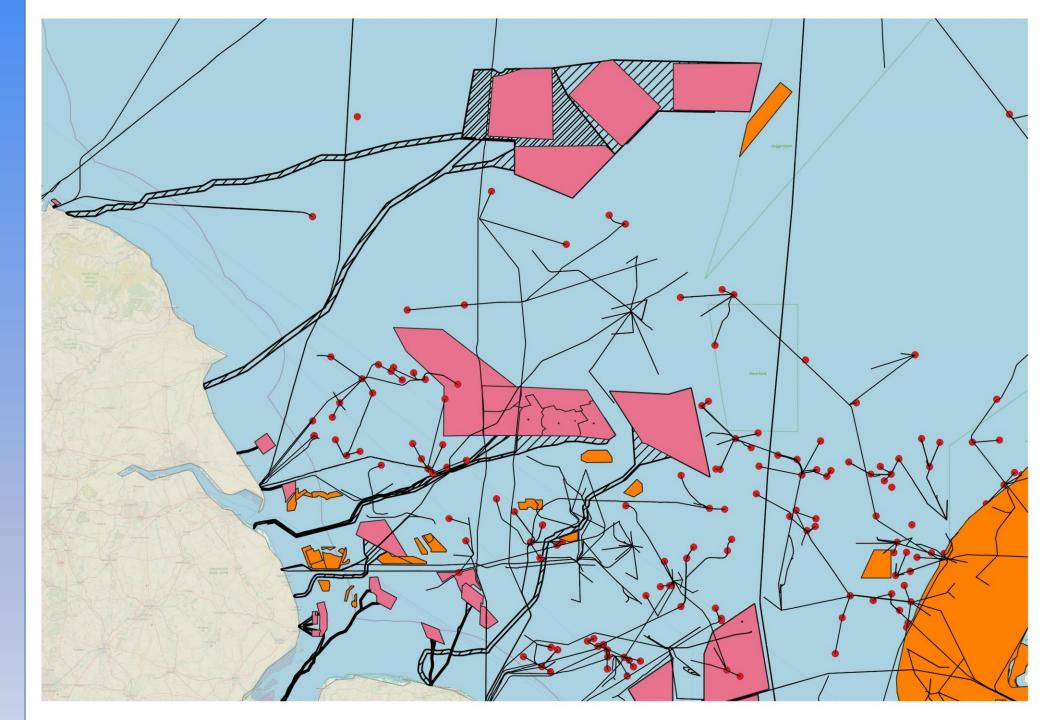


Gas wellheads and pipelines



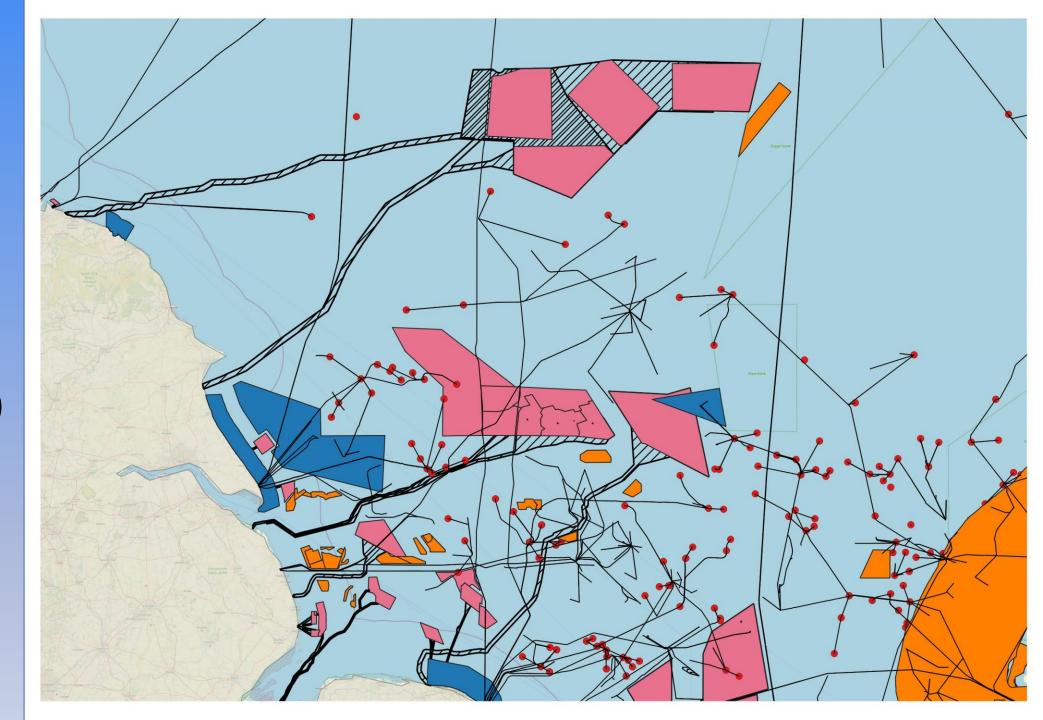


Aggregate extraction areas





Marine Conservation Zones (MCZs)



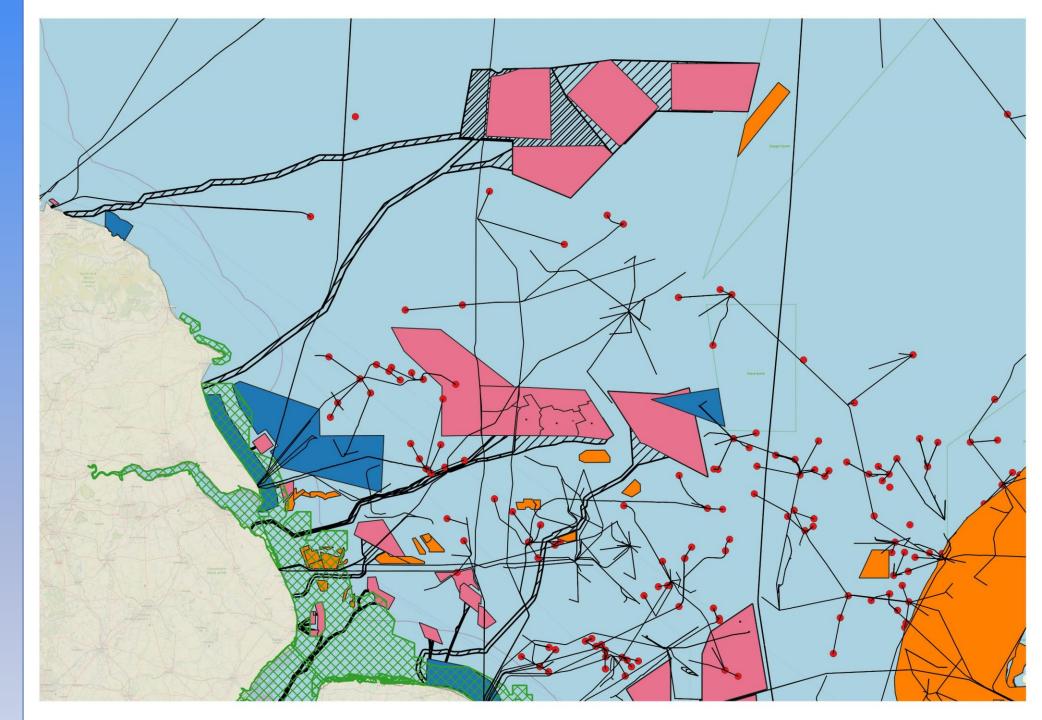




Specially Protected Areas (SPAs)

Data sourced from EMODnet





Offshore wind interactions

- Access to sites
- Cable hazards
- Displacement and spatial squeeze
- Ecological effects
- Scales of development
- Long-term strategy





Spatial Squeeze

Fishing is the oldest maritime industry, but many other claims are now made to the sea.

- Wind farms 100 GW planned by 2050.
- Cables calls for 0.25 mile buffer.
- Aquaculture seaweed farming increasing.
- Aggregates
- Oil and gas
- Conservation 371 MPAs = 38% of UK waters. Management measures still under discussion.





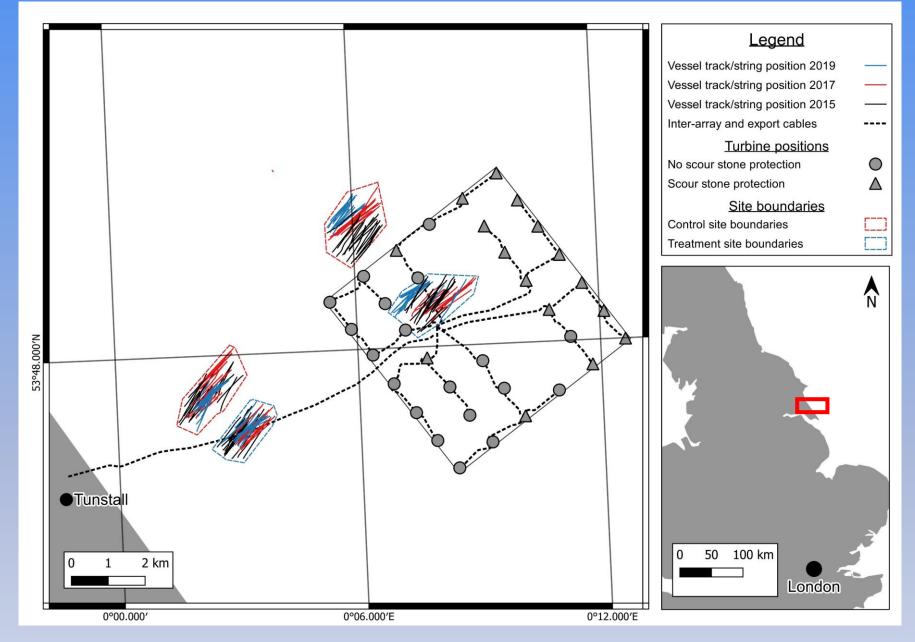
Barriers and enablers

- Site design
- Environmental conditions
- Gear type
- Engagement
- Necessity
- Co-existence drivers and plans



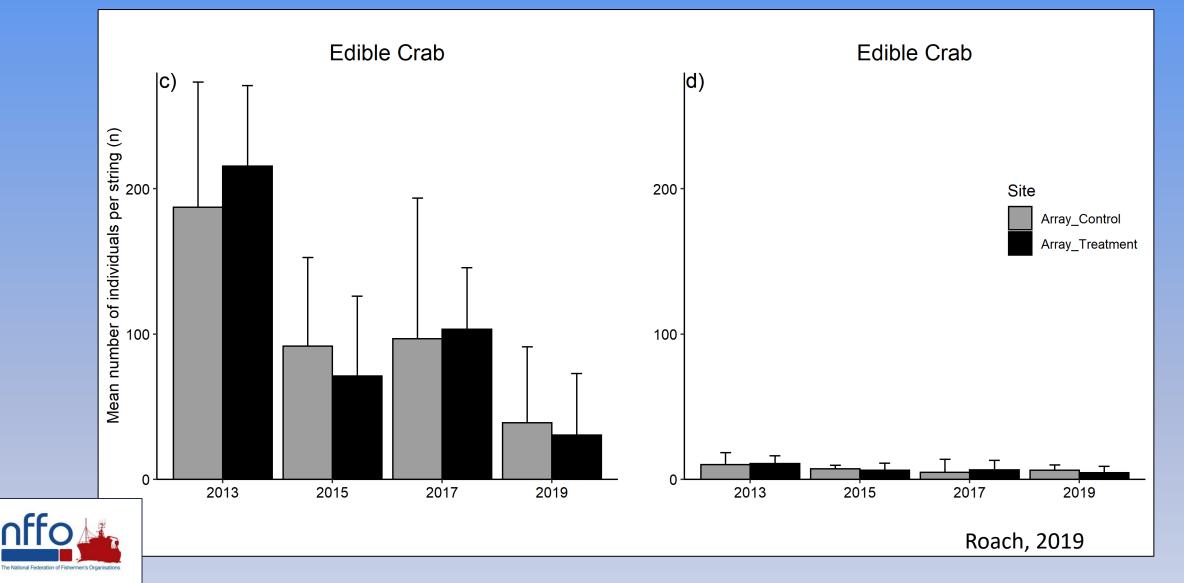


Westermost Rough Study





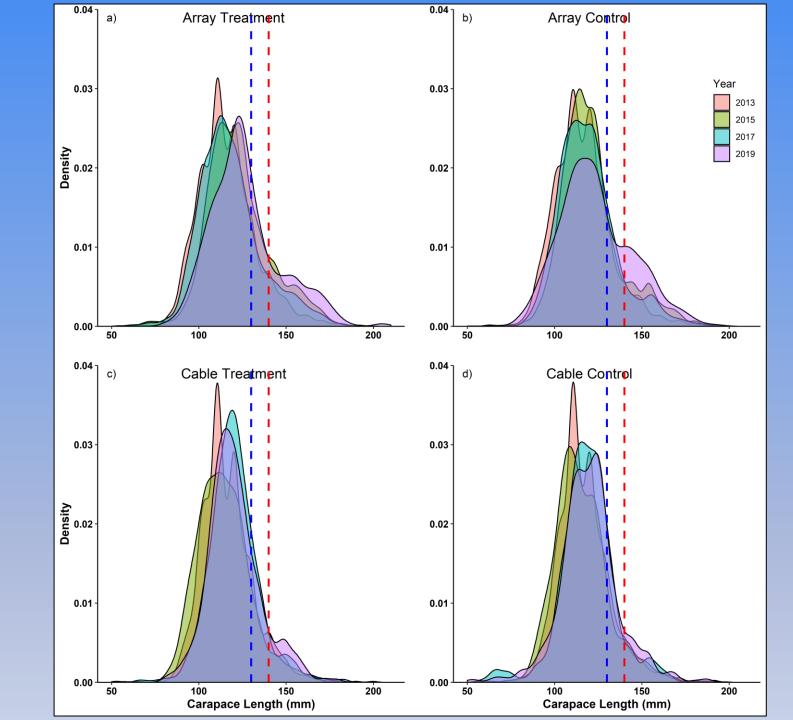
CPUE & LPUE



Size structure

- Closure effect observed in the array during 2015
- Change in MLS in the region late 2015
- Storm surge in March 2018

 changed composition of the inshore fishery





Caveats

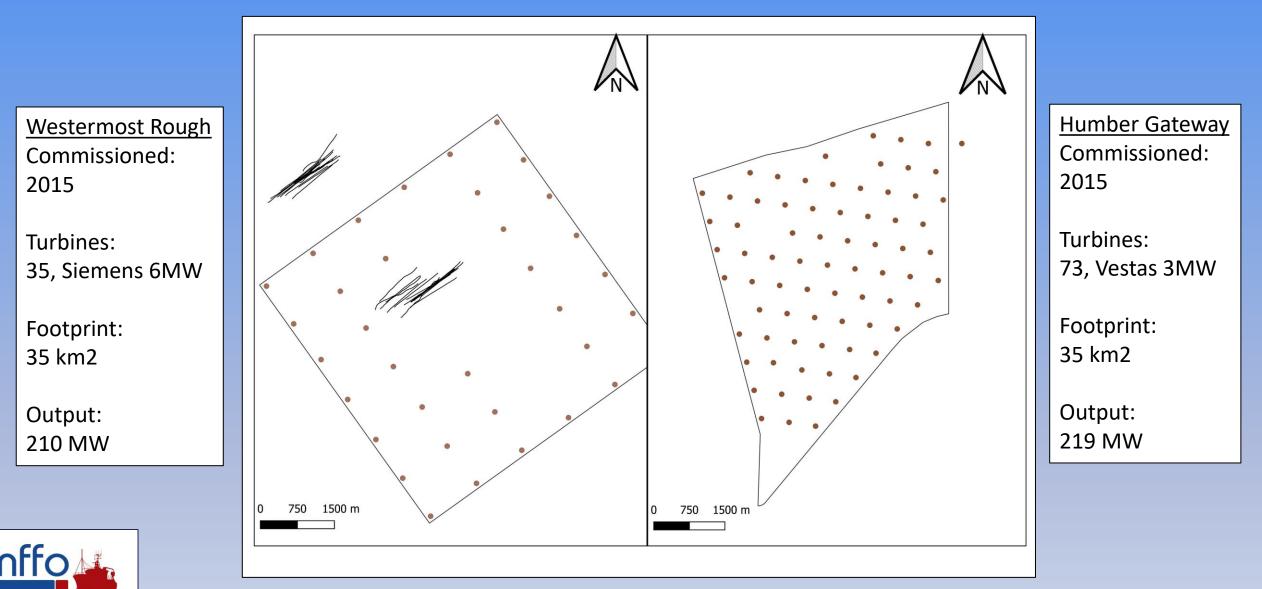
• The survey design was focused on lobster

NIRESS of Grimsby

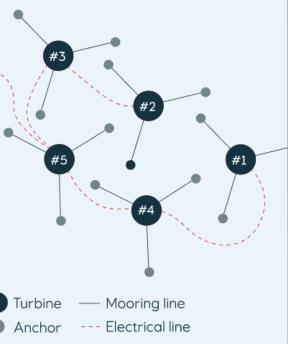
- Brown crab was a bycatch
- Site specific
- Season specific
- Issues surrounding a BACI design



Co-existence enablers and barriers









The future; floating wind turbines

- Expansion into deeper waters
- Greater spatial footprint
- Overlap of mooring chains
 prevent fishing
- Possibly prevent navigation through the site
- What are the ecological effects?



Lessons for the future

- Integrated marine spatial planning.
- Better evidence base for fisheries in marine spatial planning.
- Co-existence is site and fishery specific.
- Avoid, minimise, mitigate.



