

Sustainable Fisheries in Marine Protected Areas... how to make it possible?

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- Marine Protected Areas
- MPAs in the UK case studies
 - Kingmere MCZ
 - Cromer Shoal Chalk Beds MCZ
- What next?
- Discussion

Natural England- What we do?



- Non-departmental public body advising Government on conservation. We help protect nature and landscapes/ seascapes for people and the services they provide.
- Examples of our work and who we work with and importance of working with others in and outside 'Defra family'.



- Natural England's Marine Work and Marine Conservation Zones

Marine Conservation Society



Clean Seas

Good beach guide

Ocean Recovery

Responsible Seafood

Good Fish Guide

- Agents of Change taking a values-based approach to community engagement with MPAs;
 - *what can your MPA do for you and what can your MPA do for you?*



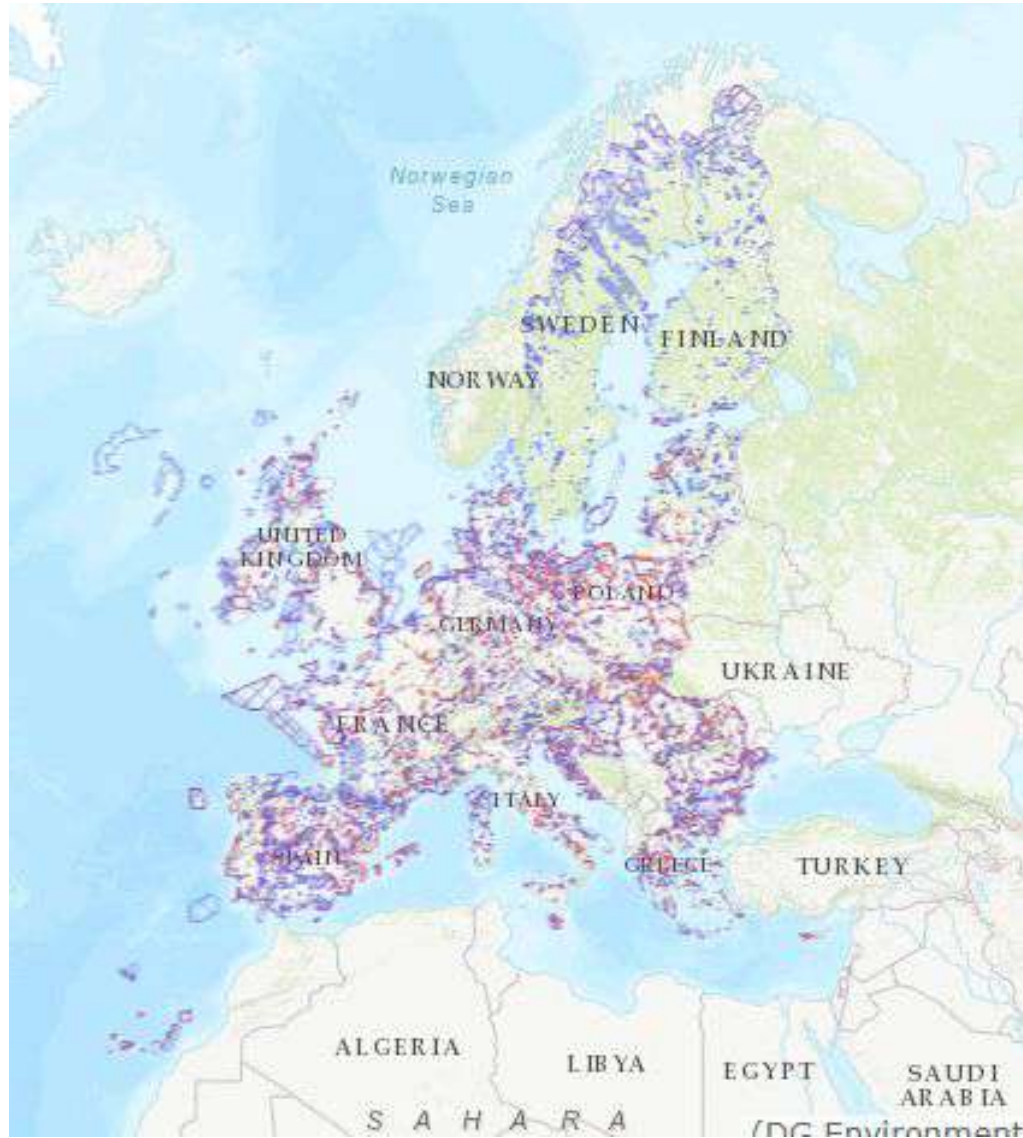
Marine Protected Areas

Questions to the room:

- Hands up! Has anyone worked in the marine sector?
- Hands up! Do you know where your nearest Marine Protected Area is?

Ocean Literacy Principles

- #1: The Earth has one big ocean with many features.
- #2: The ocean and life in the ocean shape the features of Earth.
- #3: The ocean is a major influence on weather and climate.
- #4: The ocean made the Earth habitable.
- #5: The ocean supports a great diversity of life and ecosystems.
- #6: The ocean and humans are inextricably interconnected.
- #7: The ocean is largely unexplored.



European Marine Sites – Natura 2000

- Special Protection Areas (sea birds)
- Special Areas of Conservation (sea bed)

Marine Conservation Zones – Marine and Coastal Access Act 2009 (England and Wales)



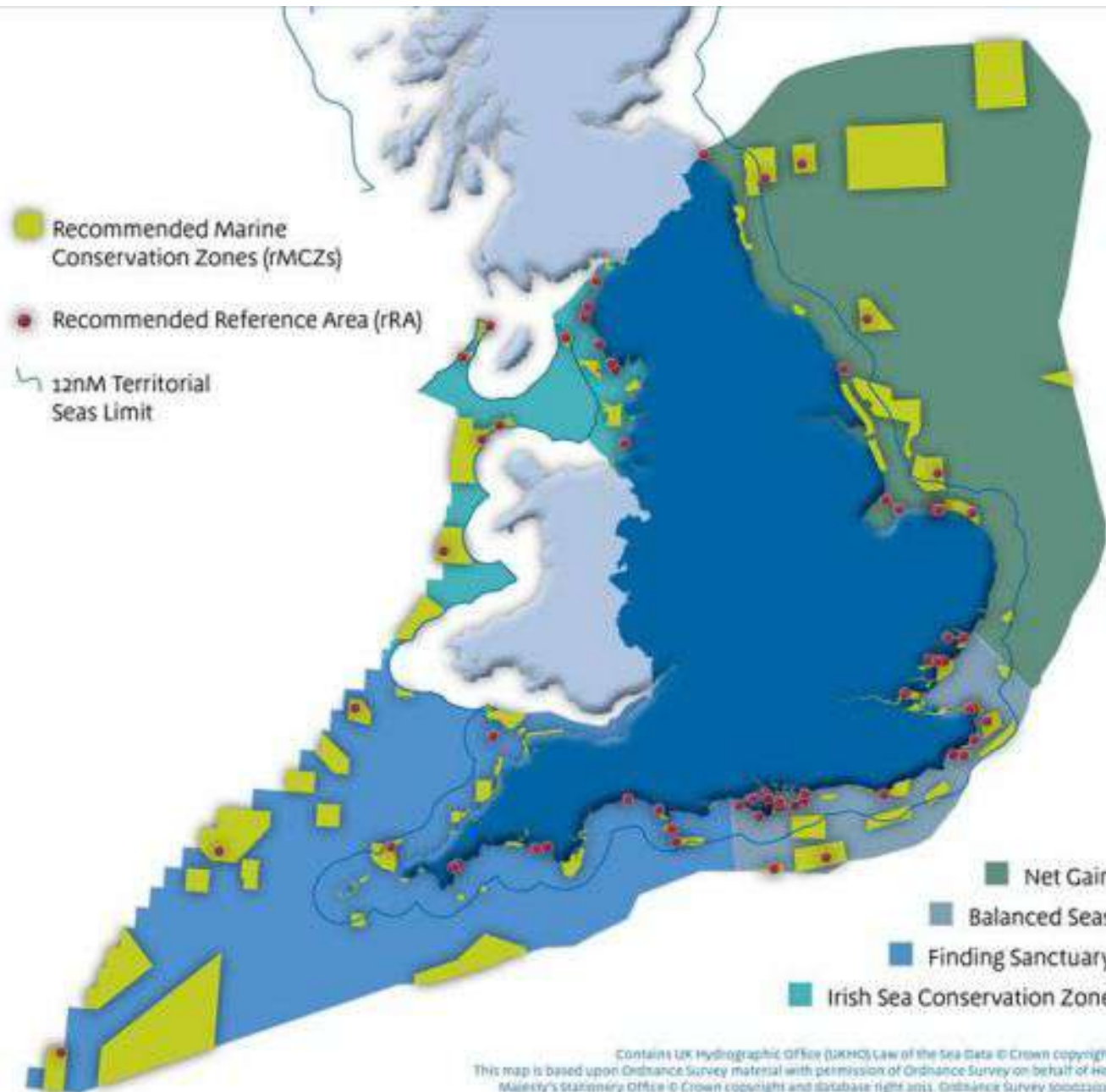


Marine and Coastal Access Act 2009

CHAPTER 23

MARINE AND COASTAL ACCESS ACT 2009

Section 117 (7)
‘In considering whether it is desirable to designate an area as an MCZ, the appropriate authority may have regard to any economic or social consequences of doing so.’



Regional Projects:

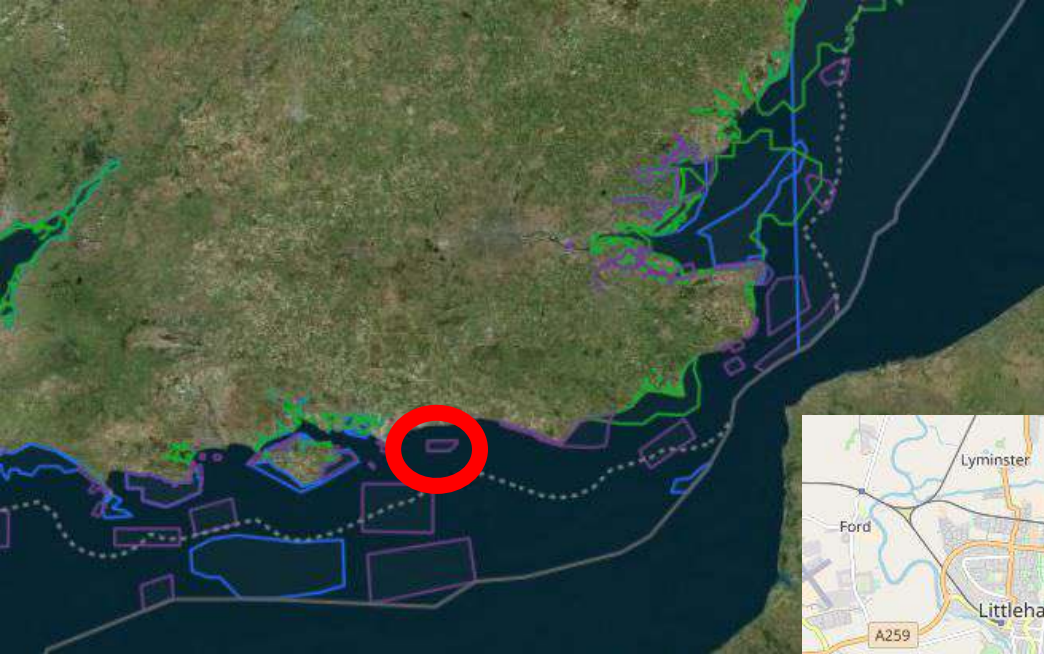
- Net Gain
- Balanced Seas
- Finding Sanctuary
- Irish Sea Conservation Zones

2010 - September 2011

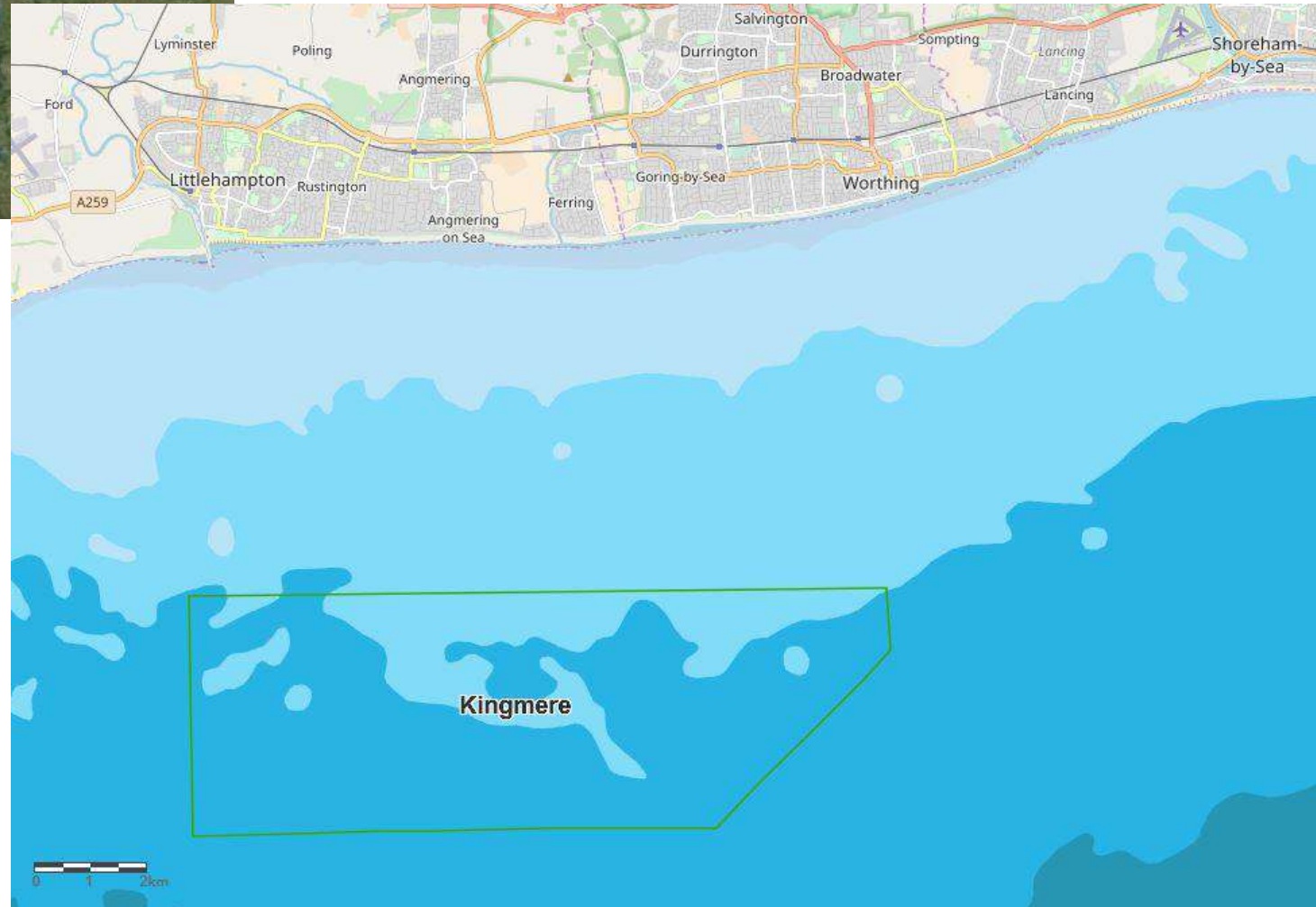
Tranche 1

2013: 31 MCZs consulted on and 27 designated.

And our first case study!!



Kingmere MCZ



Kingmere MCZ fishing culture

- Ancient fishing grounds: <https://player.bfi.org.uk/free/film/watch-lobsters-1936-online>
- Angling in the 1980s: <https://vimeo.com/12113036>



MCZ management – who does what?

Commercial and
Recreational
Fishing

Other licencable activities
such as extraction – i.e.
aggregate or construction i.e.
cables

Conservation
advice



Community Voice Method



Stakeholder workshops - film screening

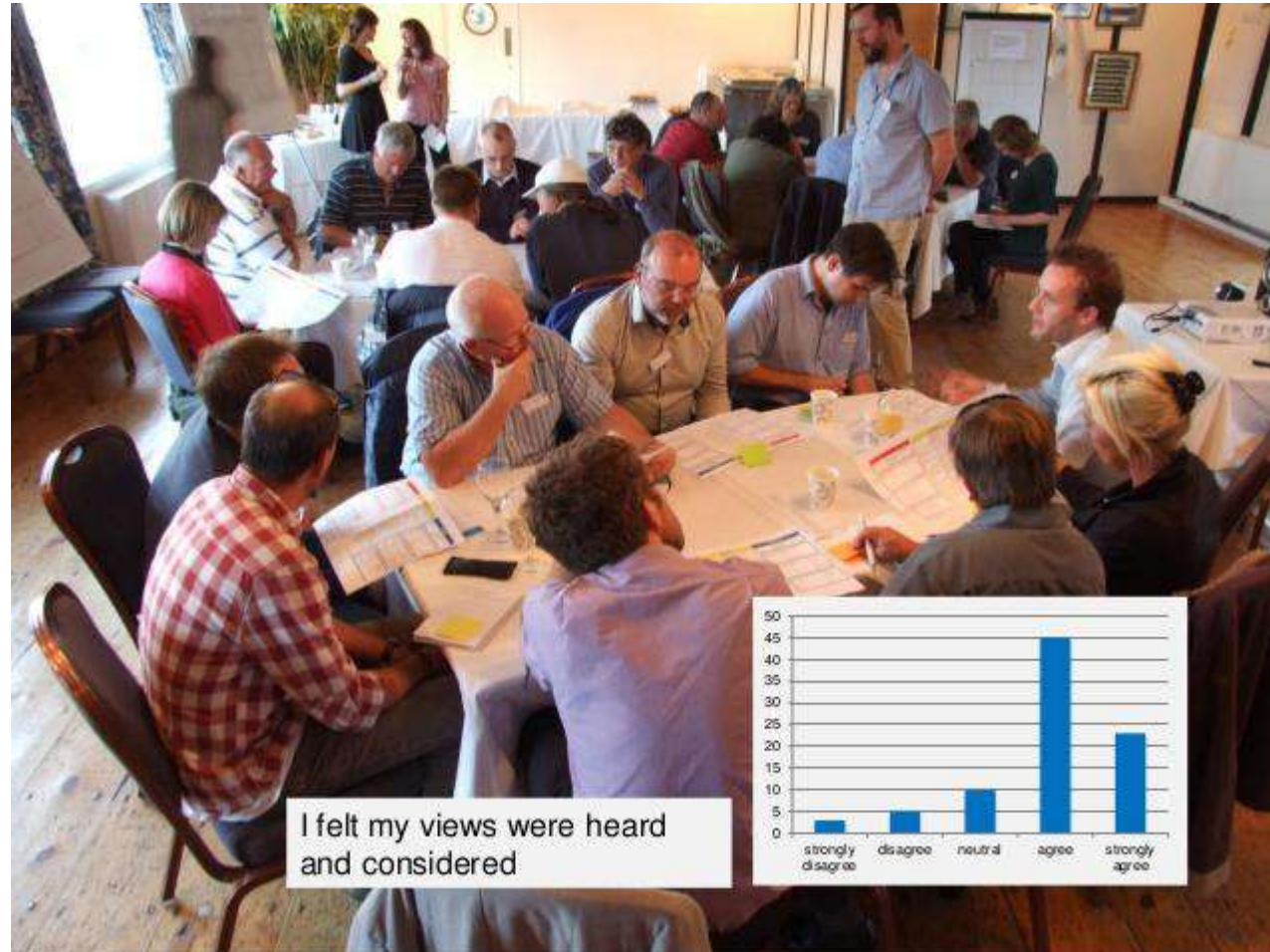
Photo: Sue Ranger



Workshop exercises explored stakeholder views on proposed management measures through structured discussions and multi-criteria analysis.

<https://vimeo.com/116849036>

Positive consultation experience

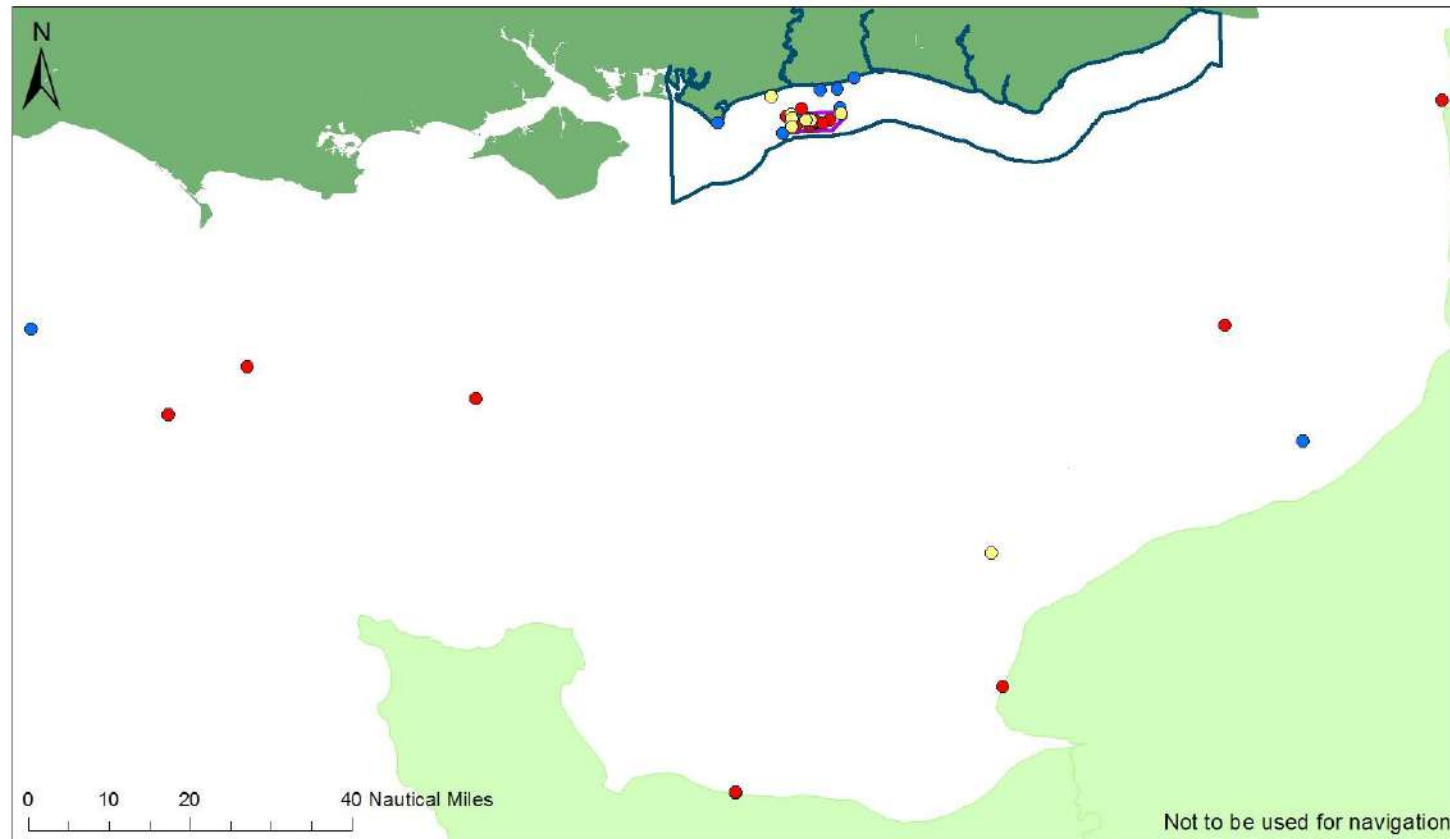


Citizen science – bream tagging



Citizen science improving understanding

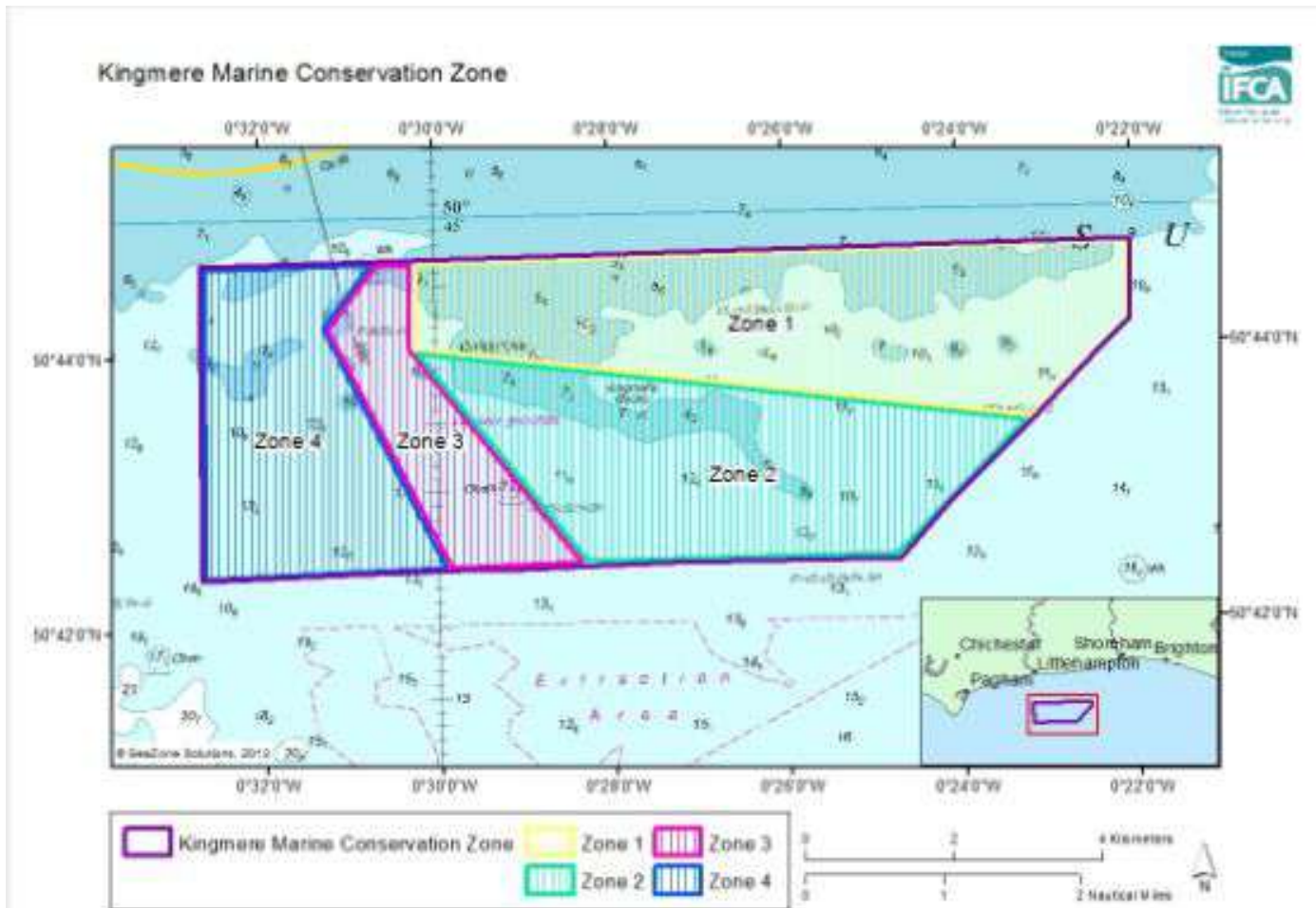
April 2014 - March 2017 Tagged Bream Recaptures



Key

- 2016 Tag Recaptures
- 2015 Tag Recaptures
- 2014 Tag Recaptures
- England Coastline
- France boarder
- ▭ Sussex IFCA boundary
- ▭ Kingmere boundary

Kingmere MCZ fisheries management



1st April-30th June Bream Season Management

	Towed gear	Netting gear	Potting & trap gear	Lining	Angling	Dive gathering
Zone 1	X	X	X	X	X	X
Zone 2	X	X	X	X	✓4	X
Zone 3	X	X	✓0	✓0	✓4	✓0
Zone 4	X	X	✓0	✓0	✓4	✓0

Key:

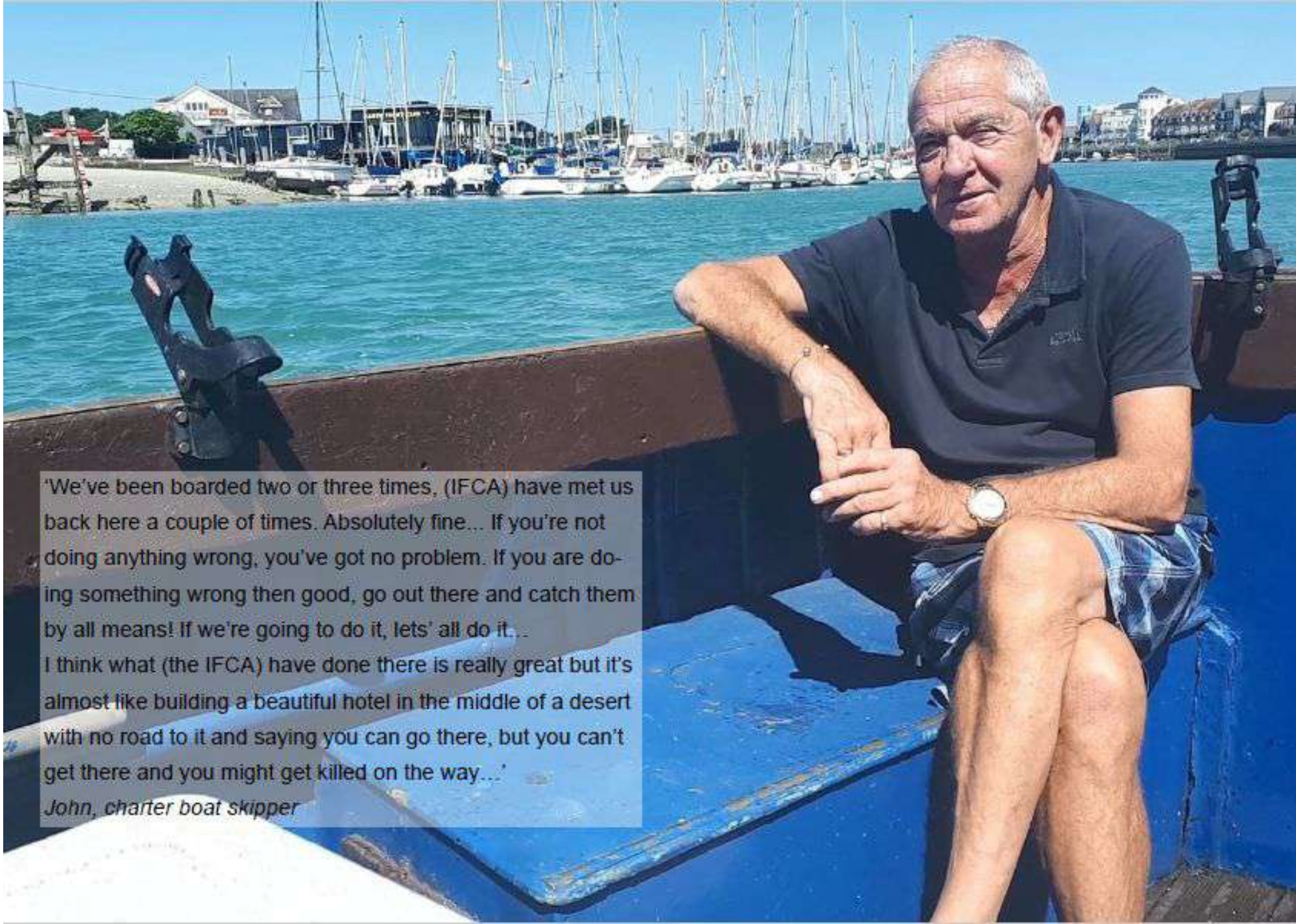
- X Prohibited
- ✓4 Open but maximum of 4 bream per person bag limit
- ✓0 Open but no retention of bream

1st July-31st March Management

	Towed gear	Netting gear	Potting & trap gear	Lining	Angling	Dive gathering
Zone 1	X	✓	✓	✓	✓4	✓
Zone 2	X	✓	✓	✓	✓4	✓
Zone 3	✓	✓	✓	✓	✓4	✓
Zone 4	X	✓	✓	✓	✓4	✓

Key:

- X Prohibited
- ✓ Open
- ✓4 Open but maximum of 4 bream per person bag limit



'We've been boarded two or three times, (IFCA) have met us back here a couple of times. Absolutely fine... If you're not doing anything wrong, you've got no problem. If you are doing something wrong then good, go out there and catch them by all means! If we're going to do it, lets' all do it... I think what (the IFCA) have done there is really great but it's almost like building a beautiful hotel in the middle of a desert with no road to it and saying you can go there, but you can't get there and you might get killed on the way...'

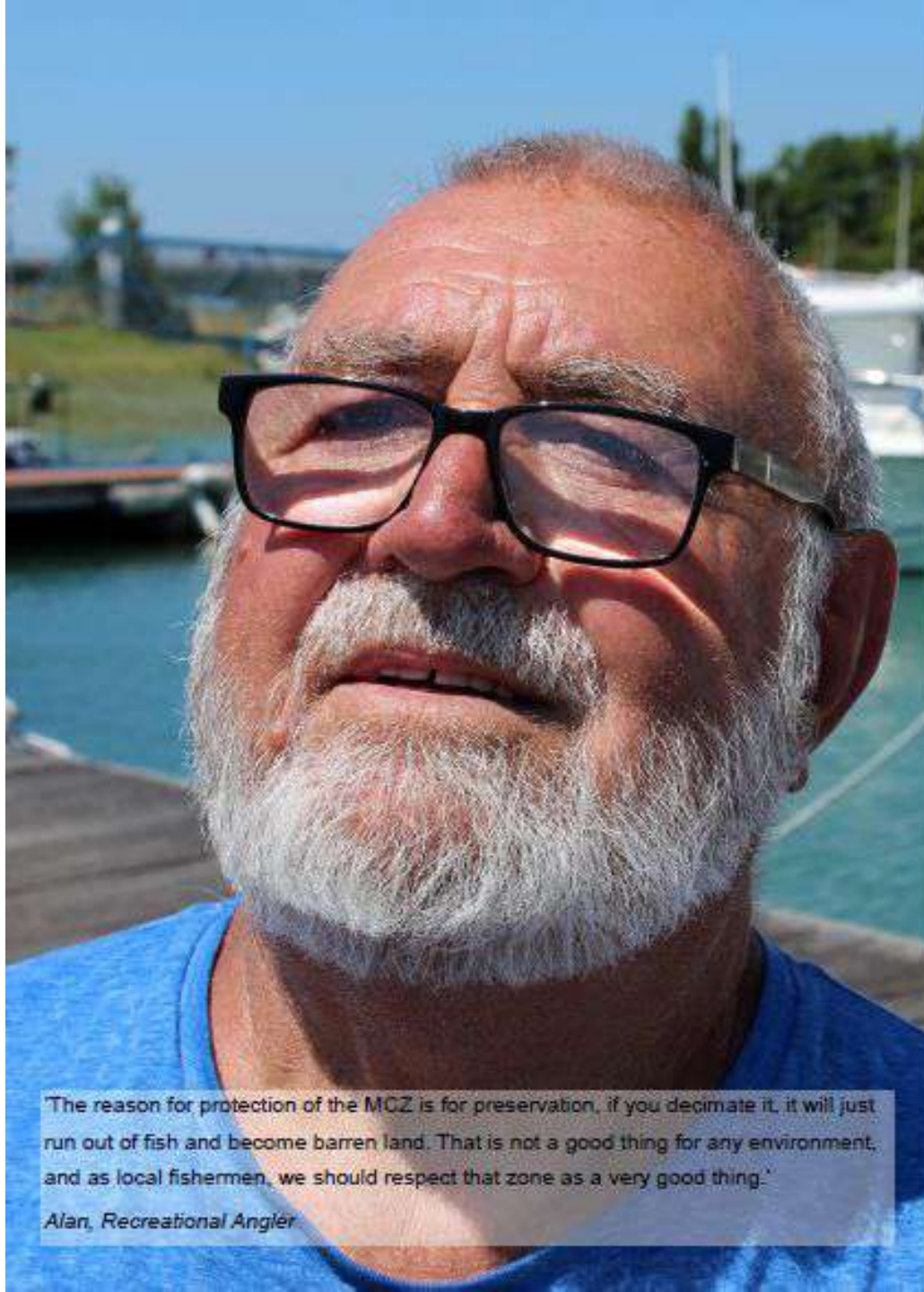
John, charter boat skipper

'I think Kingmere and Worthing Lumps is a very special place...

Anglers have had to show accountability and responsibility by adhering to our code of conduct... A four black bream bag limit has not affected my fishing at all.'

Reg, Angling Trust - Sussex

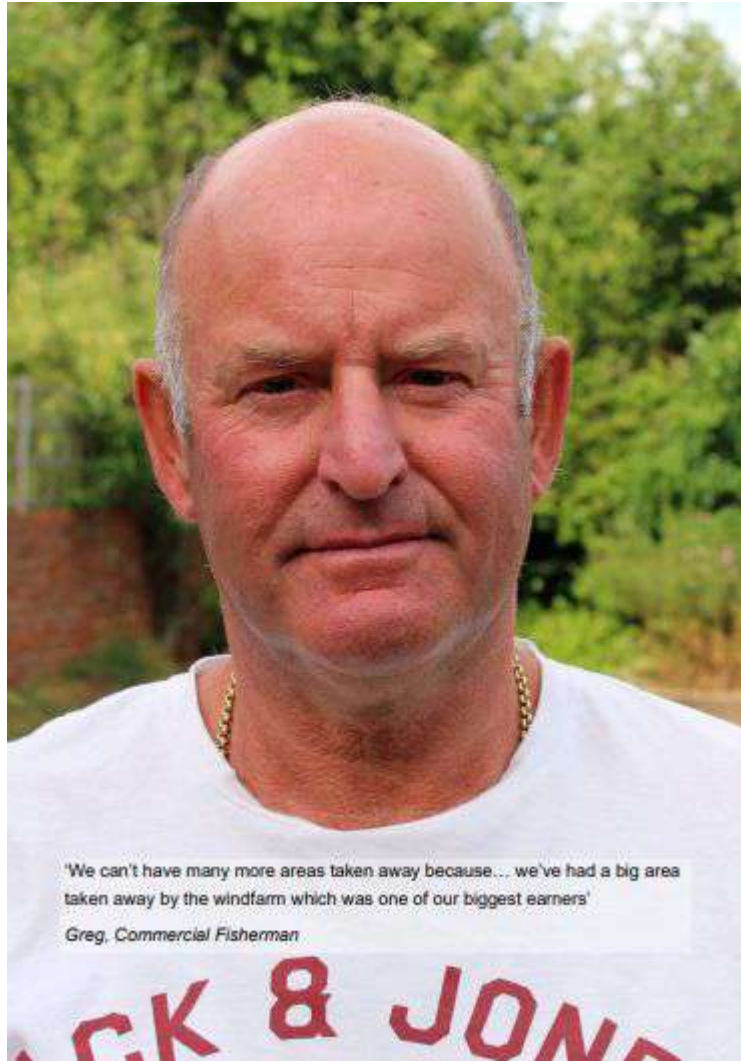




'The reason for protection of the MCZ is for preservation, if you decimate it, it will just run out of fish and become barren land. That is not a good thing for any environment, and as local fishermen, we should respect that zone as a very good thing.'

Alan, Recreational Angler

It's not perfect!!



Tranche 2

2016, 41 new sites designated...

Leading to our second and very different case study.

The 'Blue Belt' Develops.

2016 Norfolk gets it's first MCZ.

Cromer Shoal Chalk Beds MCZ.

321 km squared of rocky and
sedimentary habitats in a
predominantly sandy sea bed.



Cromer Shoal Chalk Beds MCZ

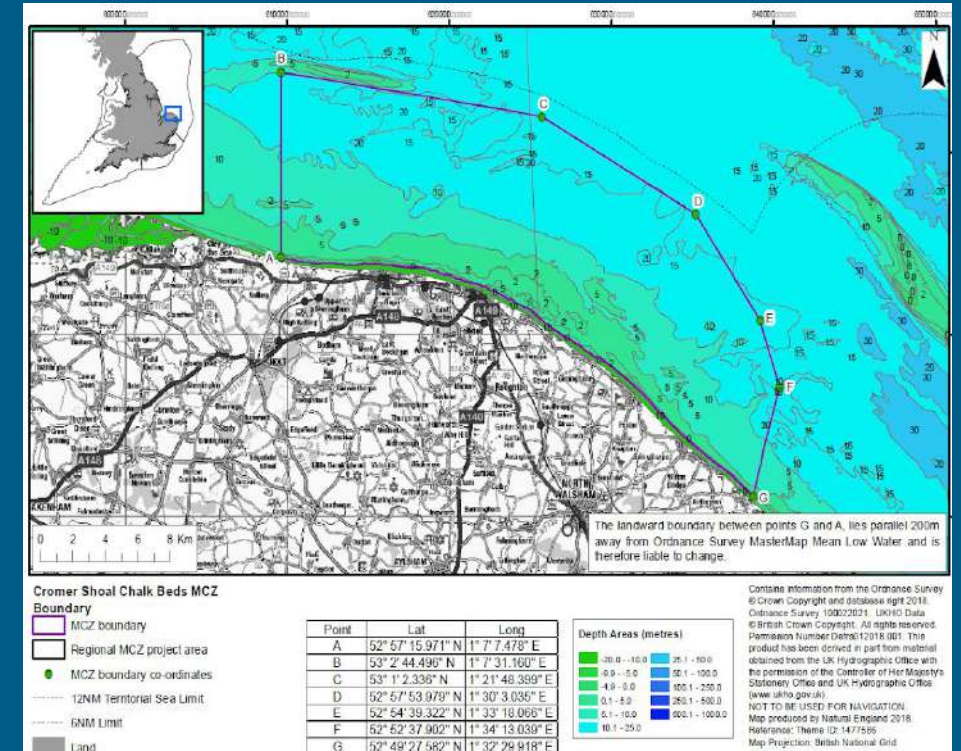


- 10 Features- BSH and HOCI
- Conservation Objectives as 'Maintain'.
- Best available evidence .
- 3 years of uncertainty for fishing industry.



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High energy infralittoral rock
Moderate energy infralittoral rock
Moderate energy circalittoral rock
High energy circalittoral rock
Subtidal coarse sediment
Subtidal sand
Subtidal mixed sediments
North Norfolk coast (Subtidal)
Peat and clay exposures
Subtidal chalk



‘Putting people at the heart of nature
(and nature at the heart of people)’.



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Designation-
The end or just
the beginning?





The Sea- Shared Resources and Finding Balance



- Nature
- Industry
- Culture
- Heritage
- Livelihoods
- Community
- Identity
- Data



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- Historical and dominant fishery.
- Small scale and selective.
- Integral to heritage and character of Norfolk coast.

<https://www.youtube.com/watch?v=ZnH6ROP0KsU>



Crab and Lobster Fisheries in Cromer Shoal Chalk Beds MCZ





Management of Activities in Cromer Shoal Chalk Beds MCZ



- The importance of chalk and best available evidence
- Understanding the ecological and community impact of potential management
- Need to gather more evidence with help nationally and locally.
- Communicate evidence effectively.
- Provide accurate and proportionate advice to EIFCA (otherwise precautionary principle applies).
- Build trust and sustainability together.
- Encouraging communities to take ownership of their MPAs.

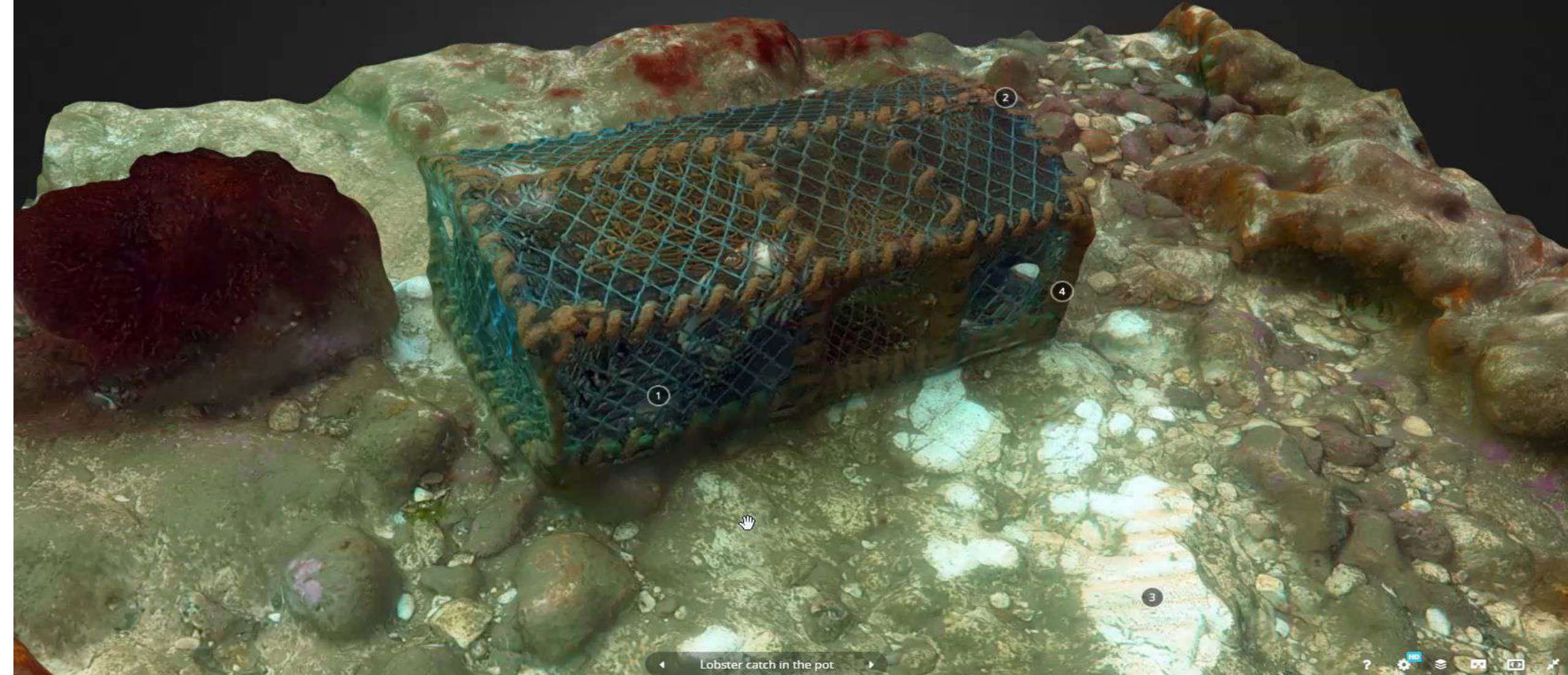


Marine
Management
Organisation



3D model of a traditional parlour pot used to catch lobster and crab on chalk reef (Sheringham, Norfolk, July 2019)

(1 cam video 4mins capture time, approx 180 images. GoPro Hero 5. Images from Jon Chamberlain/Jess Wright University of Essex. <https://skfb.ly/6Moon>)



Next Steps & Future Aspirations.

- What worked?
- What can we do better?
- Ongoing and improved partnerships.
- Rapid monitoring techniques developed.
- Visualization tools produced
- What does success look like?
- HPMAs/ Ecosystem Approach/ EU exit!



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Thank you!

