

Manx Marine Conservation and Fisheries Management

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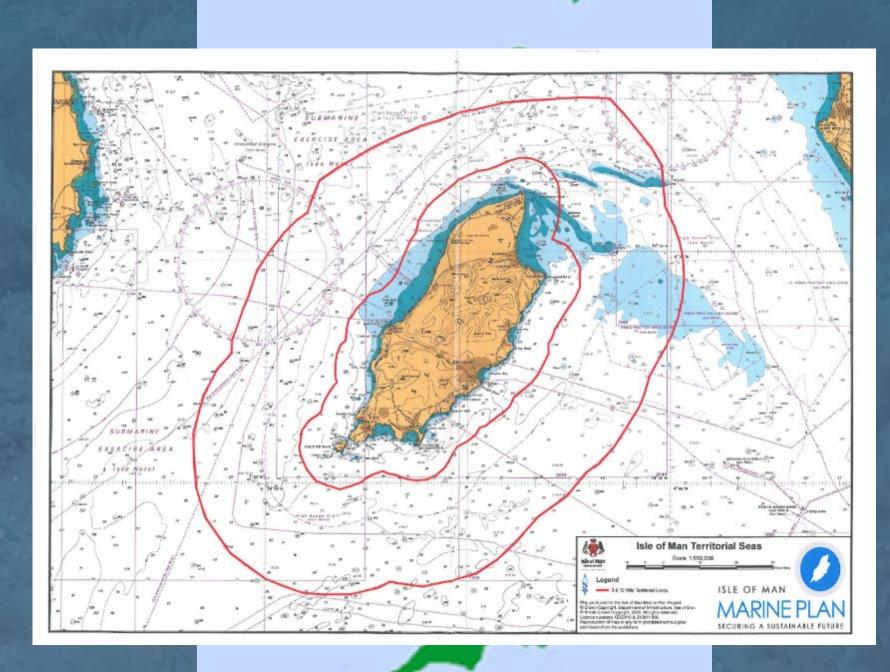
Isle of Man Government

Isle of Man Territorial Sea



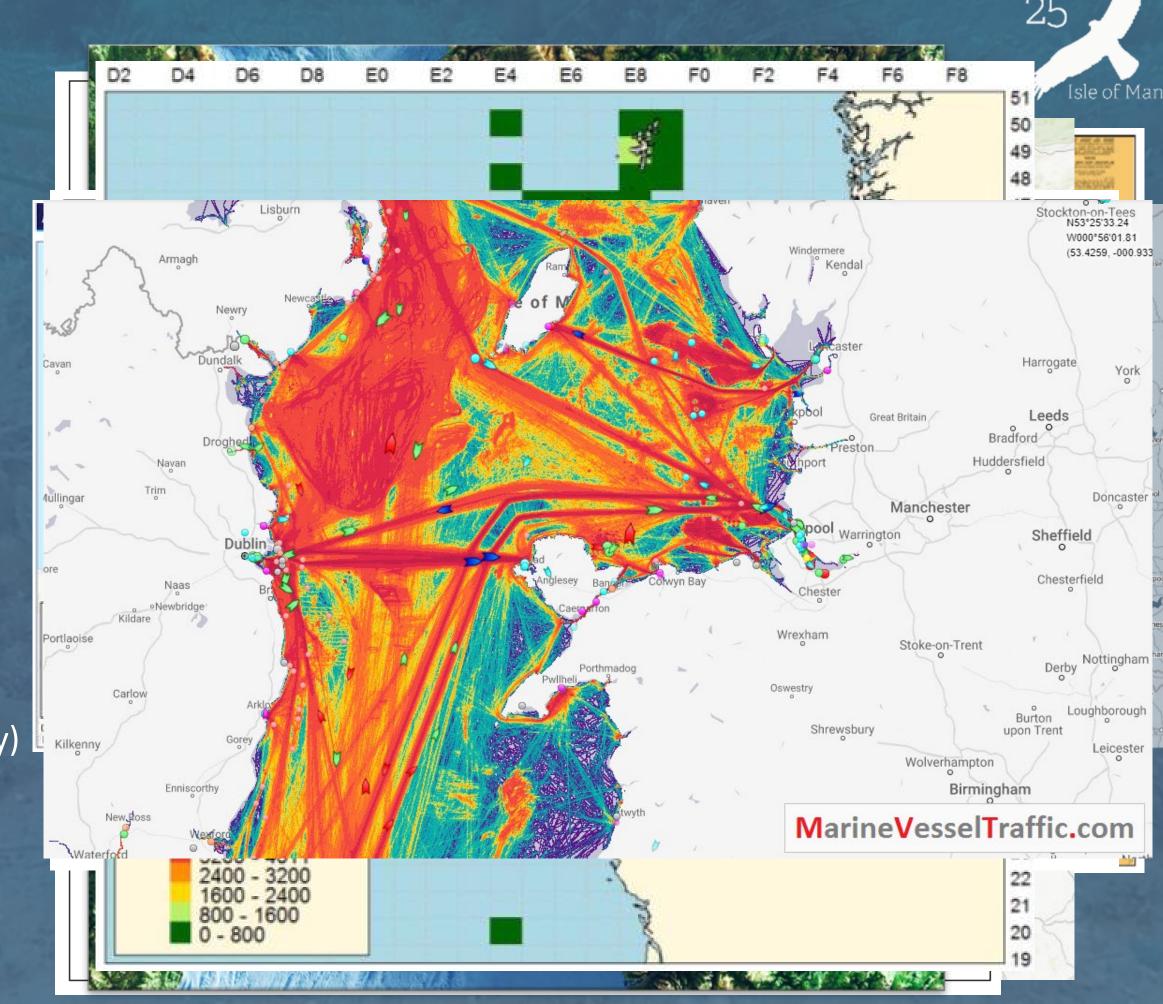
Crown Dependency

- not UK, never EU.
- UK conservation drivers don't apply eg. EU Directives.
- But Fisheries Management principles do apply e.g. CFP, UK.
- Land area = **572** km², sea area = **3970** km²
- Territorial sea to 12 M (22 km).
 - Marine environment management supported by domestic legislation.
 - Wildlife Act 1990, Fisheries Act 2012, Water Pollution Act 1993 etc.
- Unusually no Marine Plan or Spatial Plan... yet.
- MMEA (Manx Marine Environmental Assessment) for reference.



Isle of Man Territorial Sea

- Busy Marine Area
 - Infrastructure
 - Vessel traffic
 - Cables and energy; windfarms
 - Domestic infrastructure (disposal)
 - Fishing activity
- Physical
 - Bathymetry
 - Varied benthic habitats
- Marine data and knowledge supported by Government, NGOs, PEML (Liverpool University) and Bangor University (2007-present)
- IoM Government has a lot of marine issues to regulate and balance – challenging!



Marine ConservationOverview

IIEM 25

Drivers:

General acknowledgement of 'national' responsibility for conservation: marine ecosystem services, tourism, commercial benefits e.g. fisheries etc.

Statutory Responsibilities

- Wildlife Act 1990
- Fisheries Act 2012

International multilateral conservation agreements (extended via the UK)

- OSPAR
- UN Convention on Biological Diversity (CBD)
- Bern (European Wildlife and Natural Habitats)
- Bonn (migratory species)
- Ramsar
- CITES

Biosphere Status

• Requirement for core (highly-protected) area designations













Statutory Designations and other protections

Area-based conservation is fundamental, although species-specific protections also exist.

Marine Nature Reserves (Wildlife Act 1990)

- Marine up to Highest Astronomical Tide (HAT).
- Currently 10, all inshore (within 3M)
- 430/3970 km² ~ **11%**.
- CBD 2020 objective (now **30 x** 30.....).

National Nature Reserves (Wildlife Act 1990)

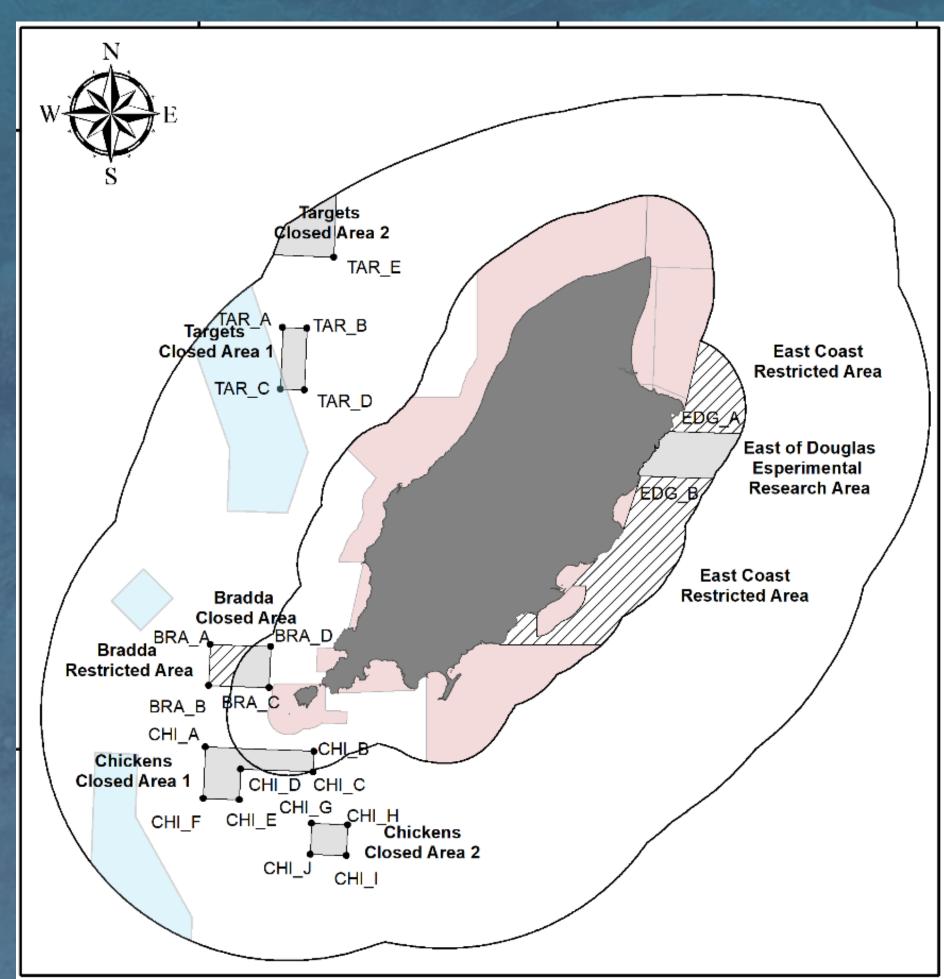
Terrestrial, but coastal to HAT.

ASSIs (Wildlife Act 1990)

Terrestrial, but coastal to LAT.

Fishery Areas (Fisheries Act 2012)

- Restrict fishing activities on annual or longer term basis.
- Controlled via licence condition.



Habitat highlights (+MNR)

Broad –scale benthic habitat survey 2008 (EUNIS)

Horse mussel reefs: high biodiversity (Little Ness, Point of Ayre)

• Other infaunal *Modiolus* populations

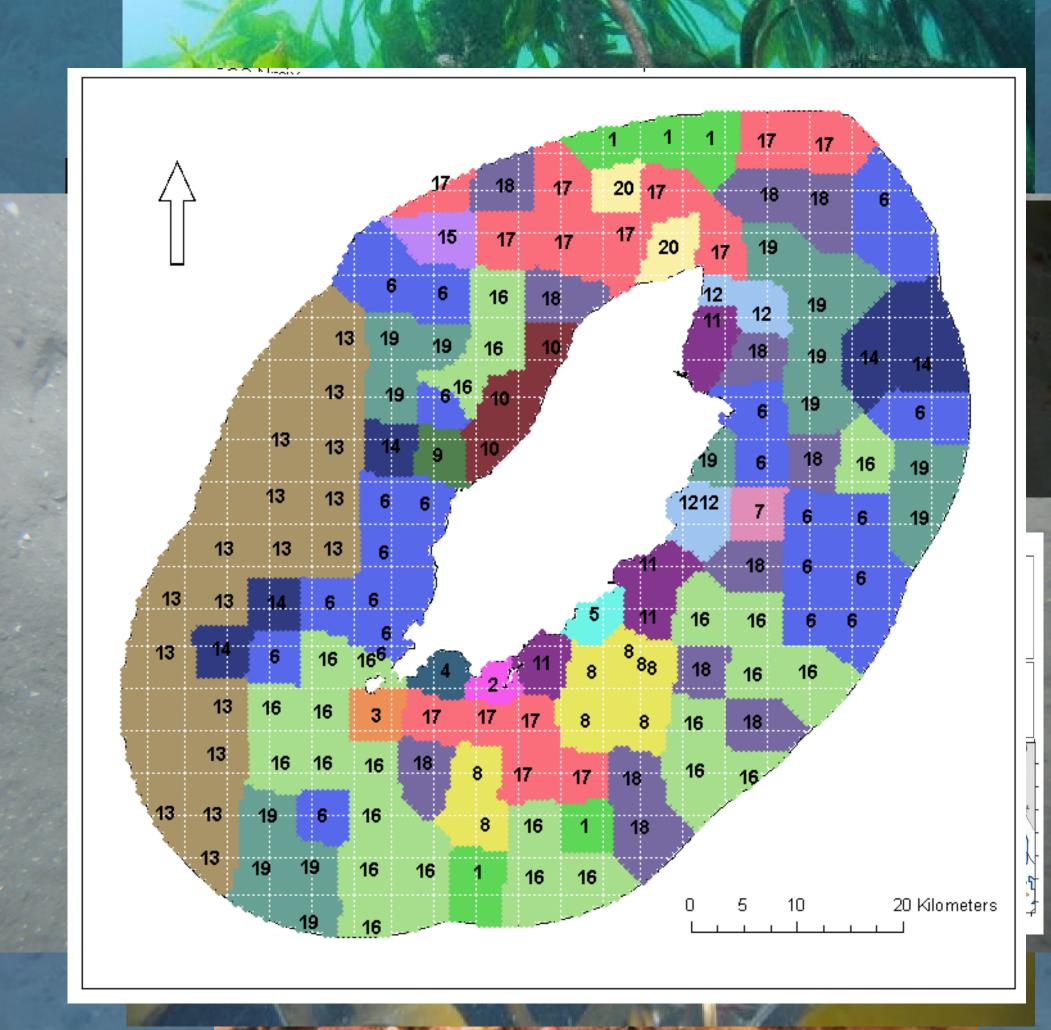
Eel grass beds (*Baie ny Carrickey*, Laxey, Ramsey, Langness, Bulgham)

• ~196 Ha

Maerl (extensive)

Kelp forest (BNC, Lax, Ram, Langness, Calf WB, PE, Niarbyl)

Sub-littoral muds: Nephrops, seapens, Northern krill etc.



Species Highlights

- Risso's dolphin large seasonal population: feeding and nursery (Little Ness, Langness, Calf, BNC, Douglas)
- Bottlenose dolphin (Cardigan Bay)
- Common dolphins (increasing?)
- Basking shark (Niarbyl, West, BNC, Calf, Langness)
- Inshore herring + associated spp. (minke whale, blue fin tuna, tope, thresher shark, porpoise
- Grey seals (400+)
- **Seabirds**, coastal birds (Sugarloaf, Calf of Man, Derbyhaven +)
- Occasionals sunfish, swordfish, humpback, longfinned pilot whale, Cuvier's beaked whale, thresher shark
- Iceland/black clam (Little Ness, Langness, PE, Niarbyl, Lax, Ramsey)
- Flame shells (Port Erin, Calf and Wart Bank)
- **Beaumont's nudibranch** (Douglas Bay+Langness)(rare species)
- ...and the Hydroid it feeds on.



Manx Fisheries: Overview



Main Species

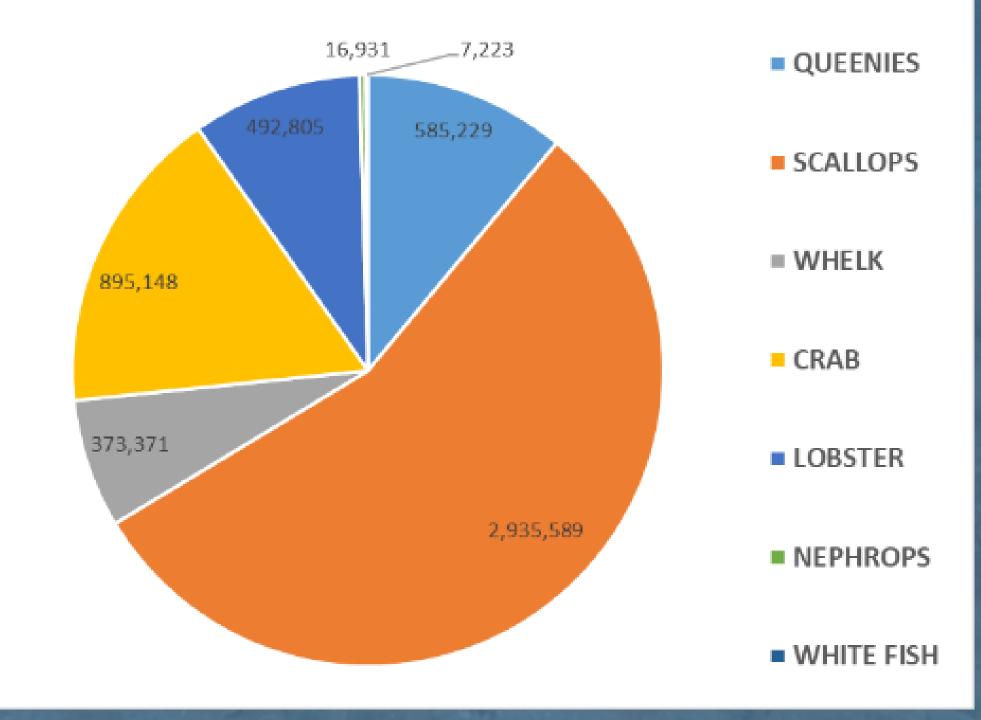


- Mostly non-quota (typically poorly managed)
- Two (3?) main fisheries are towed gears: dredge and trawl.
 - (Nephropsby UK boats)



• Four are static, pebased.

Manx Landing, First Sale Value (£) (2024)



Manx FisheriesOverview



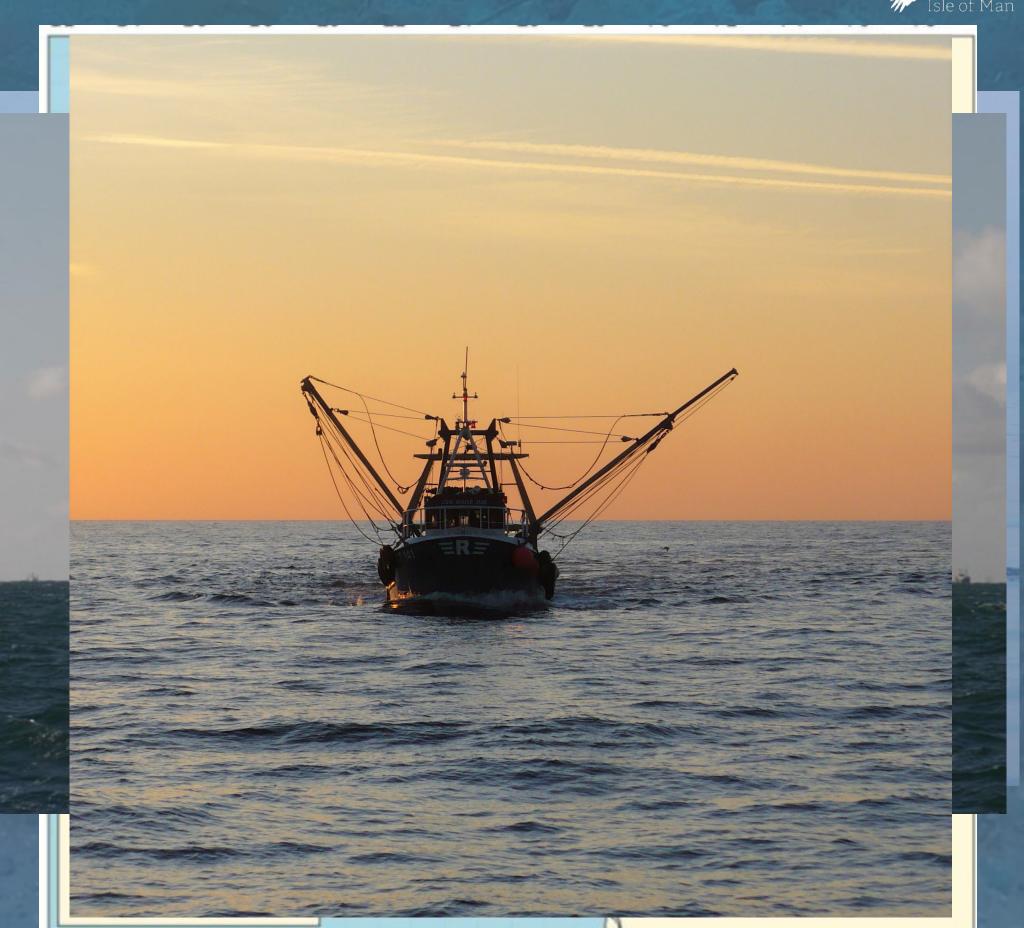
Q: How do we manage the interaction between conservation and fisheries?

A: Look for the mutual benefits/commonalities

Poorly or unmanaged fisheries benefit no-one.

Gone from the most dredged 'square' in British Isles, with relatively open access, to

...the best managed scallop fisheries, with lower & restricted vessel access (from 200+ to ~60 since 2010), comprehensive surveys and data, widespread use of closed area management and highest stock levels on record.



Achieving Sustainable Fisheries

Home Museu

Rucky Court

ey Fisheries

IoM 3 M and 12 M limits Fisheries Zone Manx Marine Pr

How?

- Conservation
 - Demonstrate benefits
 - > Involve industry
 - > First MNR had FMZ included – very beneficial.
 - Current MNR network evolved from fishery closed areas.



- Port Erin 1989
- Douglas 2008
- Laxey and Niarbyl 200
- Ramsey MNR 2011
- Baie ny Carrickey 201
- Conservation Zones



Achieving Sustainable Fisheries

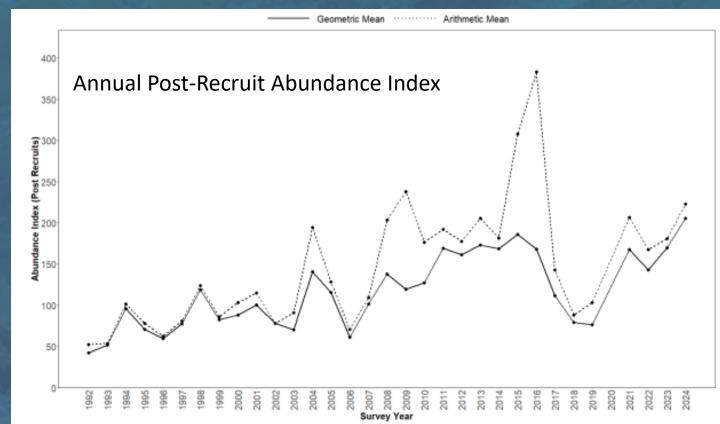
How?

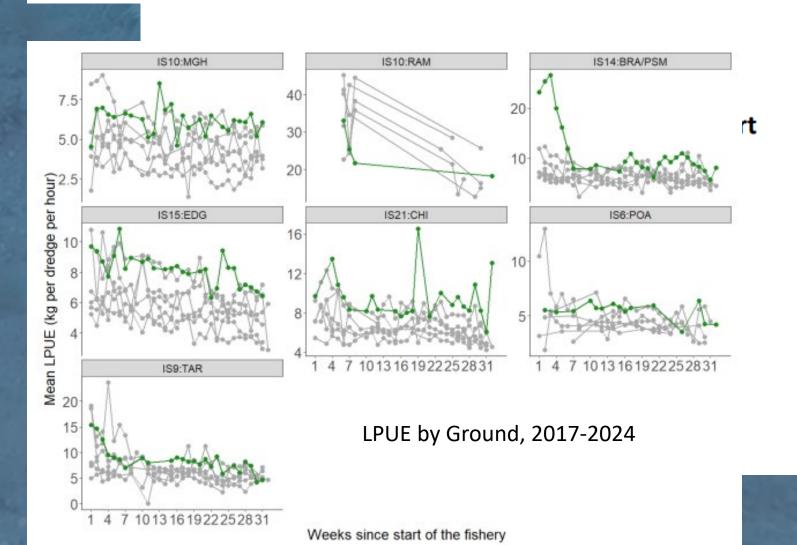
Data

- Resources
- Good data (back to 1992)
- Science capacity (Liverpool and Bangor Universities)
- Annual stock surveys (since 1992)
- Application of data e.g. individual ground management
- Persistence
- ➤ Involve industry industry survey since **2019**

Co-Management

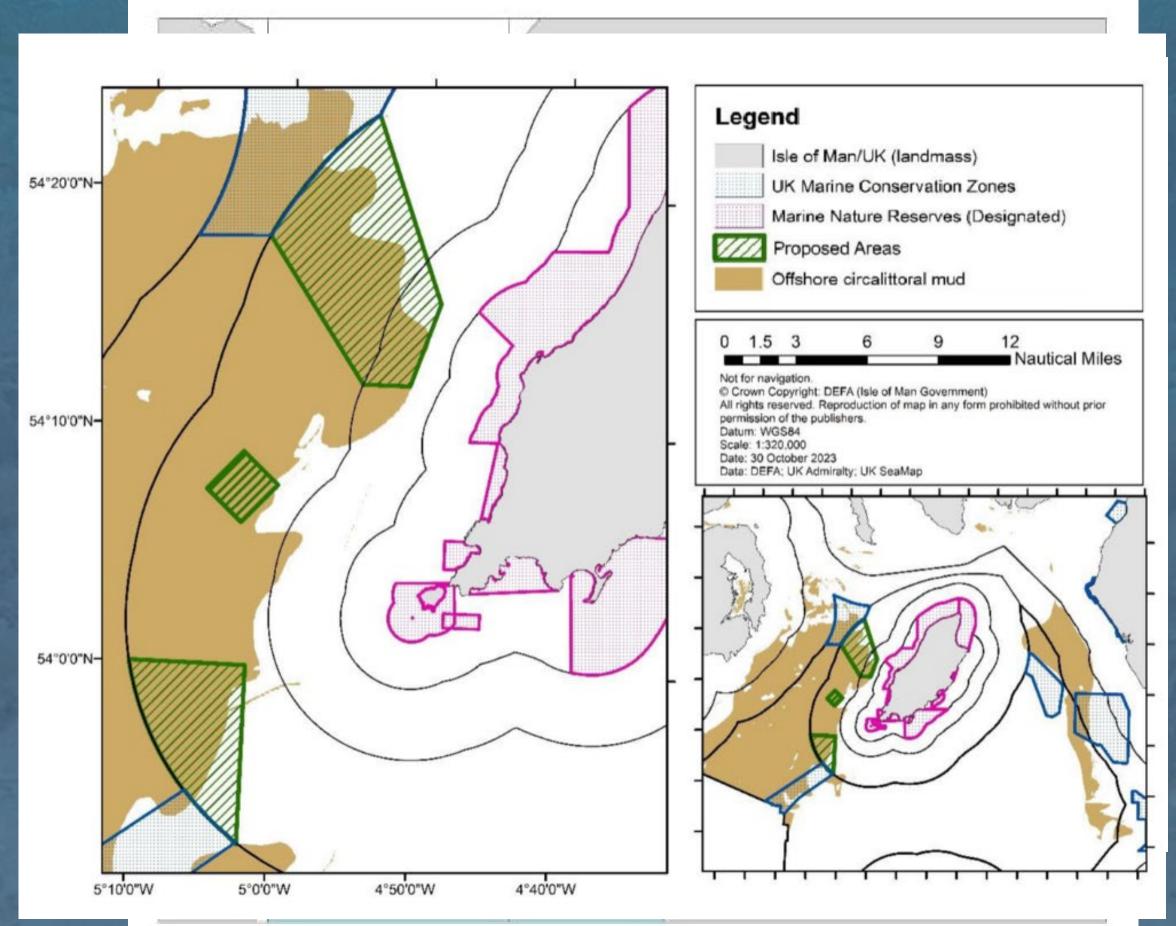
- Scallop Management Board
- 'moving beyond stakeholder 'engagement' to genuine 'participation', underpinned by mutually trusted evidence, is the key to unlocking sustainable approaches to fisheries management.'





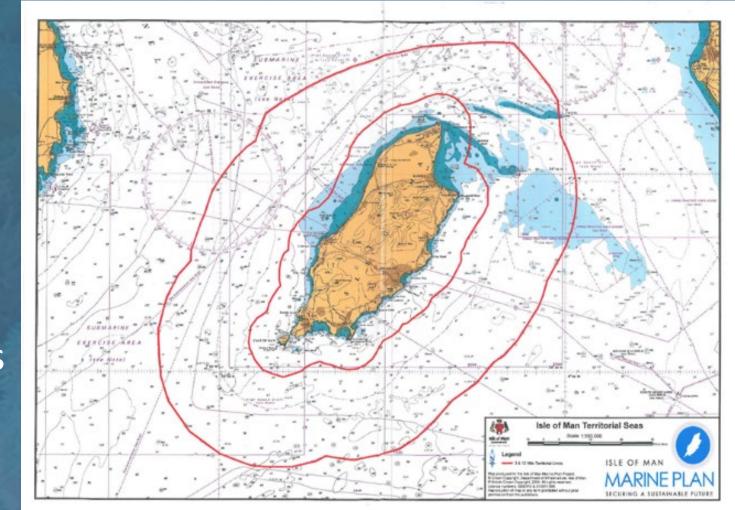
Marine Conservation and Fishery Similarities

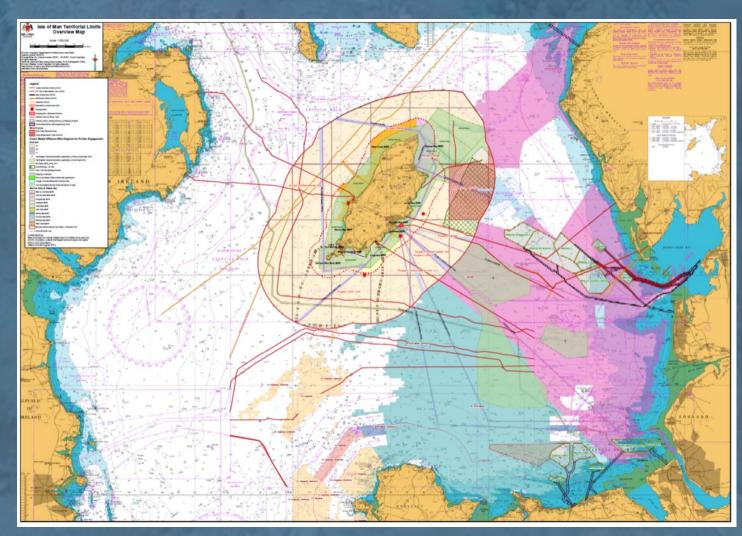
- Presence
- Data
- Management
- (Sustainable Exploitation)
- Conservation
- Treat fishery species more like any other conservation-value species, and part of the ecosystem, not in isolation.
- More similarities than differences.



Future?

- Protect what we have (from various threats, e.g. climate change, marine infrastructure projects, fisheries, terrestrial activities, INNS)
- Finding space for everything! Inclusion of conservation, fisheries etc. in future Marine Spatial Planning processes.
- Increase data and understanding: strong evidence base for policy and legislation.
- Apply proven management principles to our other fisheries.
- Improve engagement and communication of marine environment, especially Ecosystem Services.
 - Net Zero targets and Blue Carbon.
- International Issues, e.g. climate change, biodiversity crisis, CBD (30 x 30).
- Local and regional cooperation is essential.









Thank you!

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