MPA proposals West of Scotland







marinescotland

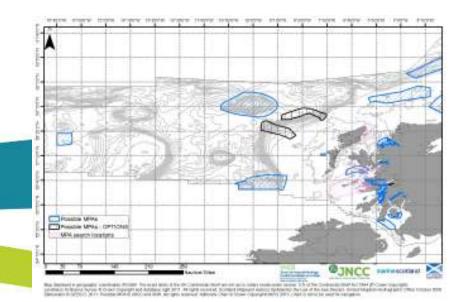


marine scotland science

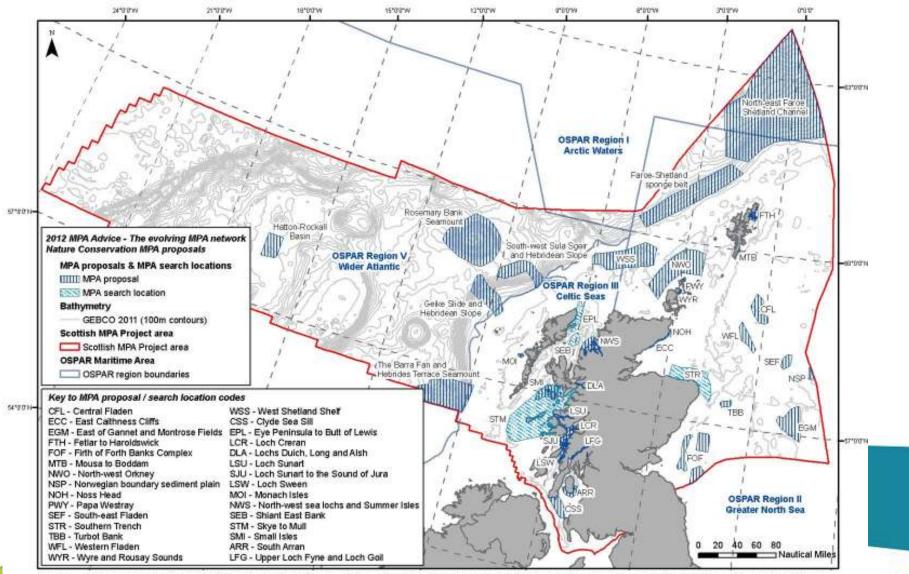
Purpose of this presentation



- Support Consultation
 - Sites, features and management options
 - Basis for advice
 - WoS Site options
- Answer any questions

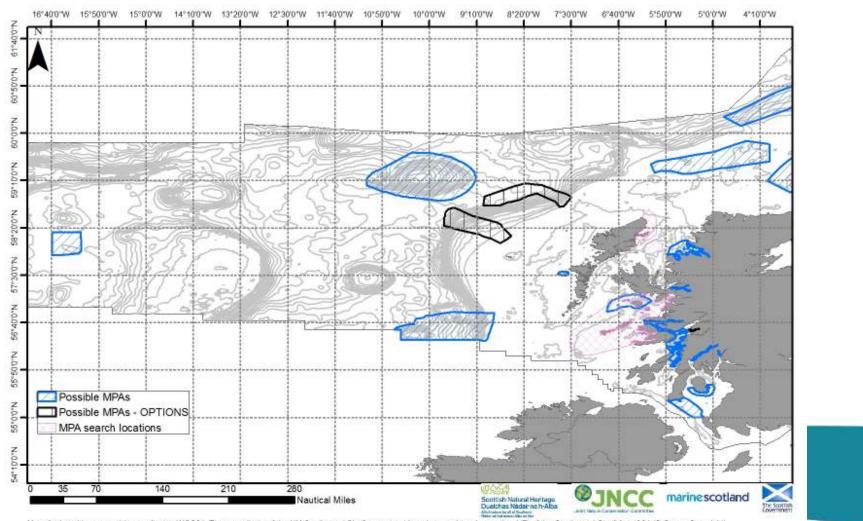


Scottish MPA proposals Nov 2012



Map projected in Europe Albers Equal Area Canic (Modified Standard Parallels - Standard Parallel 1 = 50.2; Standard Parallel 2 = 58.5). The exact limits of the UK Continental Shelf are set out in orders made under section 1(7) of the Continental Shelf Act 1964 (@Crown Copyright). Coaddine @Crown copyright and database right (2012). All rights reserved. Ordnance Survey Licence number 100017508; Behymetry @GEECO. NOT TO BE USED FOR NAVIGATION. MPA network @ENH, JNCC and Marine Scotland. 07.12.12. All rights reserved.

West of Scotland

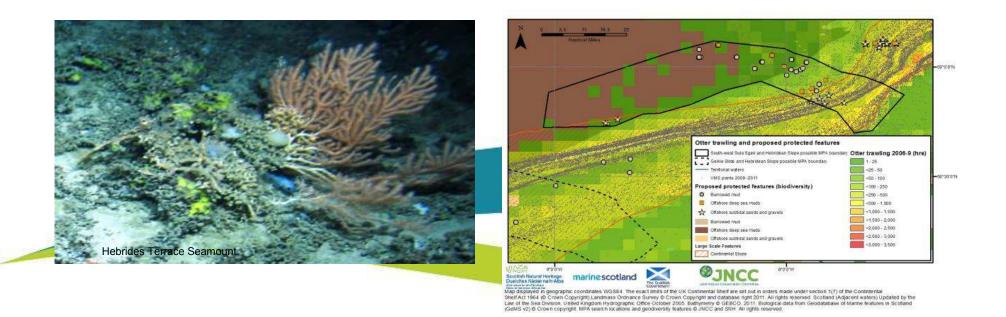


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Based on

- Overlap of activities and features
 VMS/survey data etc.
- Sensitivity of features to human activities



Sensitivity

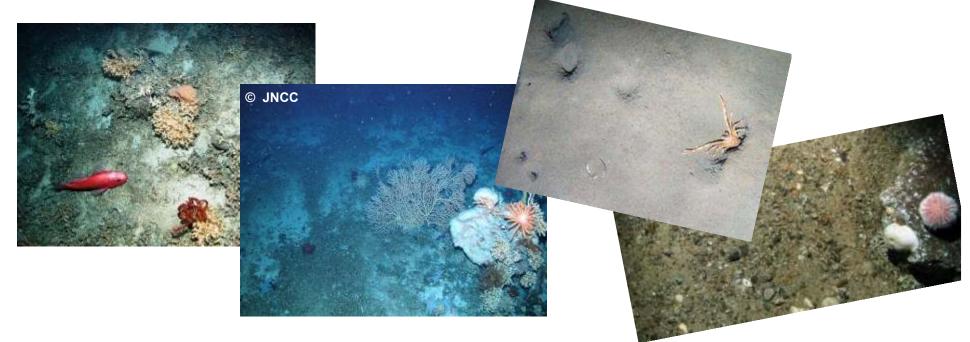
Where evidence on current "state" of the feature is limited

Response to Human activities •Mortality (e.g. uprooting/removal/impact) •Disturbance (surface and sub-surface) •Sedimentation



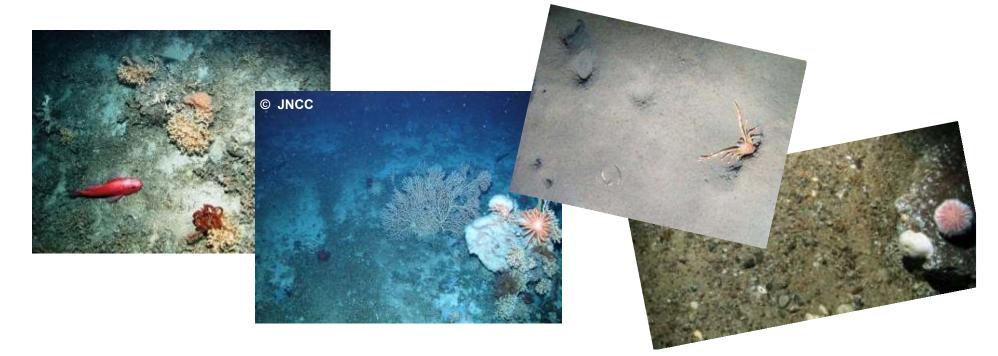
West of Scotland Site Features

- Offshore deep sea mud and burrowed mud
- Offshore subtidal sands and gravels
- Seamount communities
- Deep sea sponge aggregations
- Orange roughy

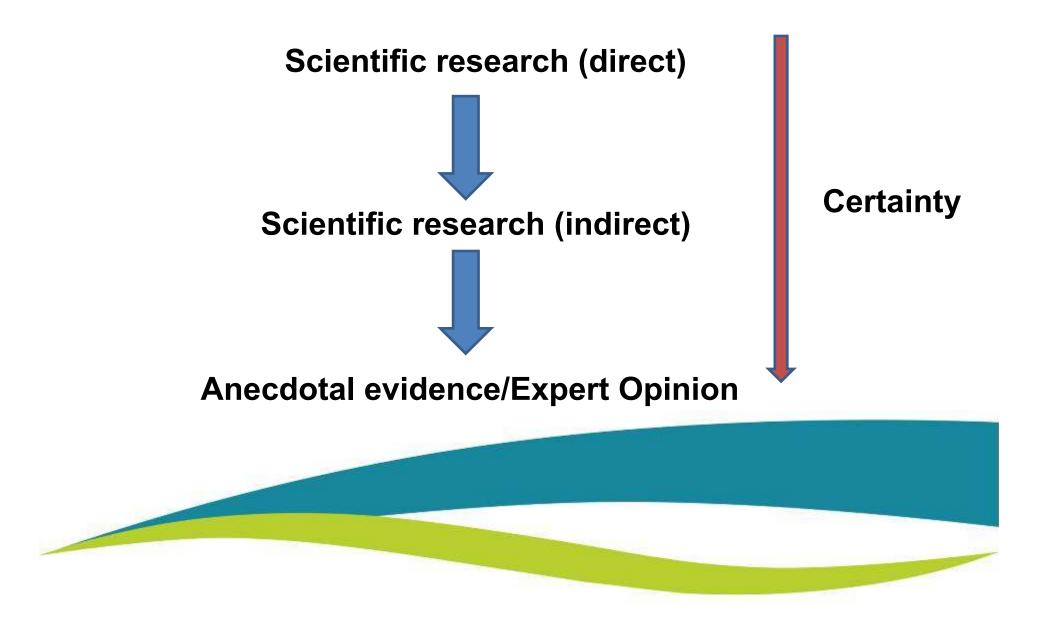


Sensitivity of the features

- Animals at surface (sponges, soft corals, gorgonians, sea pens etc)
- Animals below the surface (burrowing crustacea, worms etc).
- Orange roughy (long lived)



Evidence used – Fisheries Guidance



Evidence of impact and slow recovery

- Seamount communities
- Sponges
- Orange roughy



Trawl scarring © JNCC 2013

Certainty

Potential impact – uncertain recovery

Sand and gravel habitatsBurrowed mud habitats

Management options

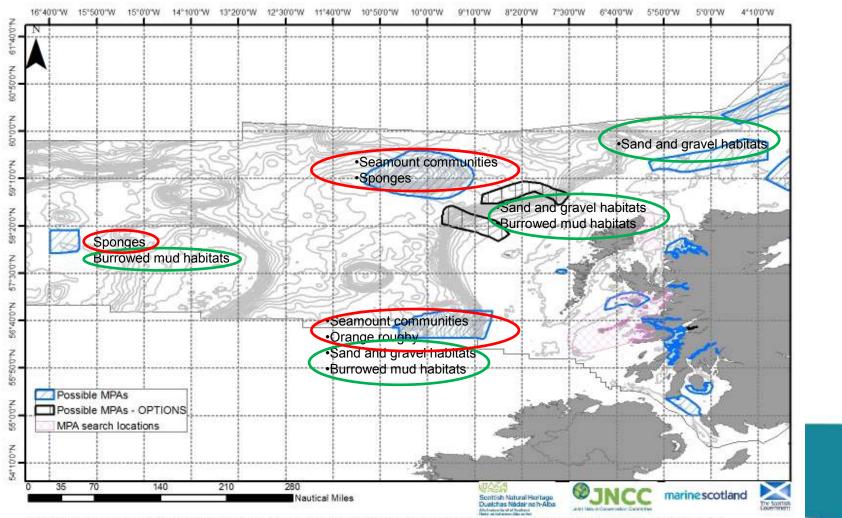
Based on **Risk** to achieving conservation objective

Range of options

no additional management required
management to reduce/limit pressure
management to remove/avoid pressure



Sites and features

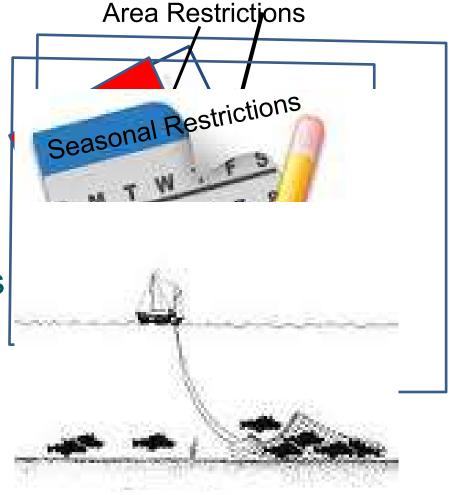


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Potential management to reduce/limit pressure

Potential measures could include: Temporal Restrictions

- Area restrictions
- Temporal restrictions
- Seasonal restrictions
- Gear restrictions



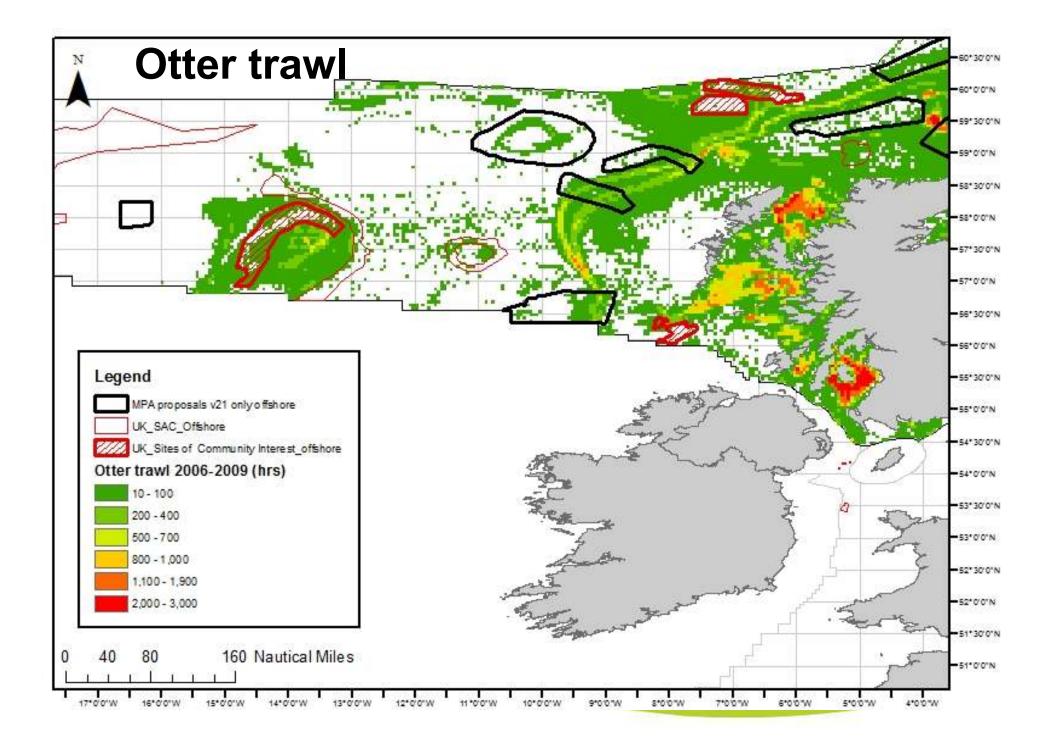
Fishing activities

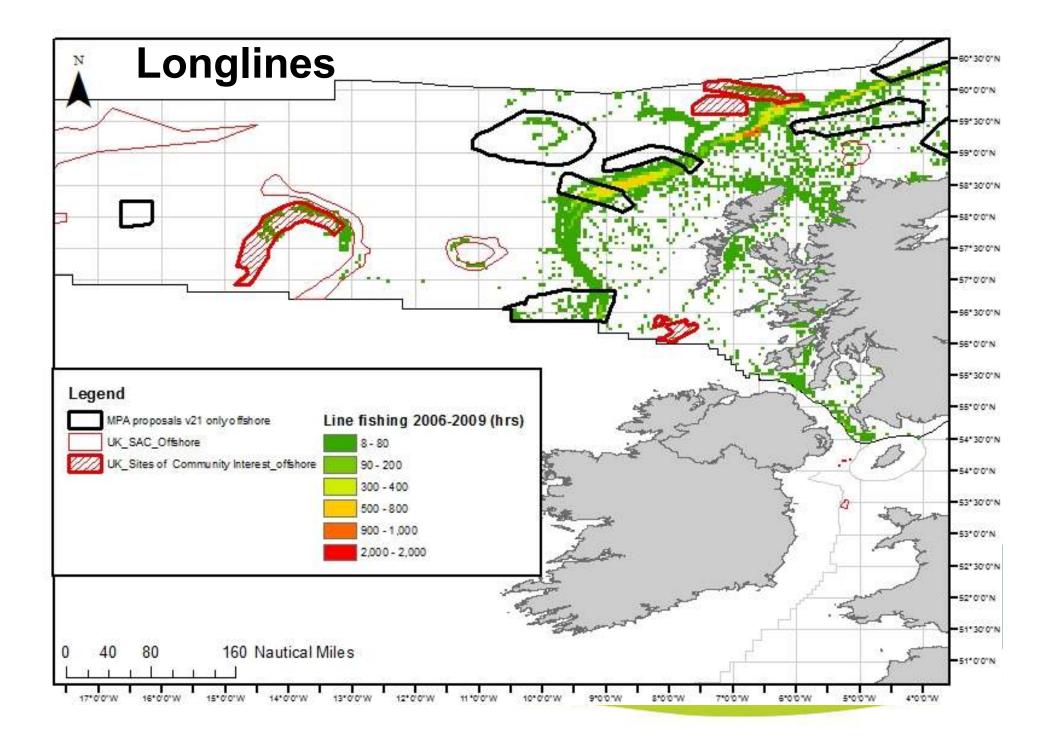
VMS data 2006-2011 Landings data 2001-2011

Summary

- Multinational UK, France and Spain.
- Monkfish and Hake upper slope
- Deep water species
- Otter trawling and longlining

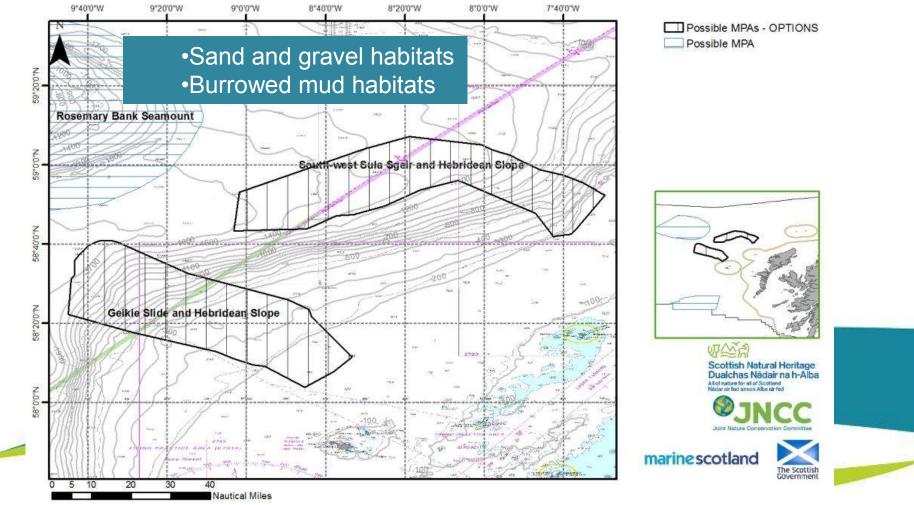






West of Scotland - Site options

Network options: equivalent contribution to the network



Management options (e.g. Slope site options)

Otter trawl



Outcomes

- 1. Sula Sgeir of greatest value for UK vessels.
- 2. Suggestion that selection of individual features from both sites may minimise impact
- 3. More meetings to be organised during consultation
- Consult with industry on management boundaries – Complex boundaries not a problem



Consultation

- Public consultation (16 weeks)
 - Site summaries
 - Data confidence assessments
 - Management option papers (MOP)
 - Fisheries management guidance
 - Translated summaries (process & MOP)



Next steps

- Continue dialogue with stakeholders facilitate responses to consultation
- West of Scotland offshore sites CFP measures
- Develop management proposals with industry



Thank you

What next

Ongoing monitoring of managed areas Has condition deteriorated/improved e.g. Increase in diversity/abundance

Adaptive management



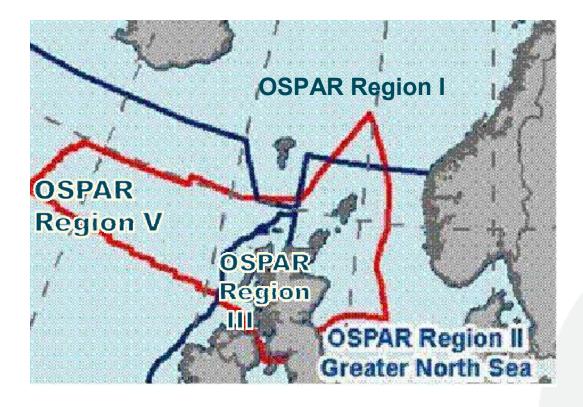


MPA management

- JNCC provide advice & MS to lead on development of management measures
- The purpose of an MPA is not to restrict fishing! Only where managing activity will help achieve conservation objective
- West of Scotland offshore sites CFP measures
- Develop management proposals with industry

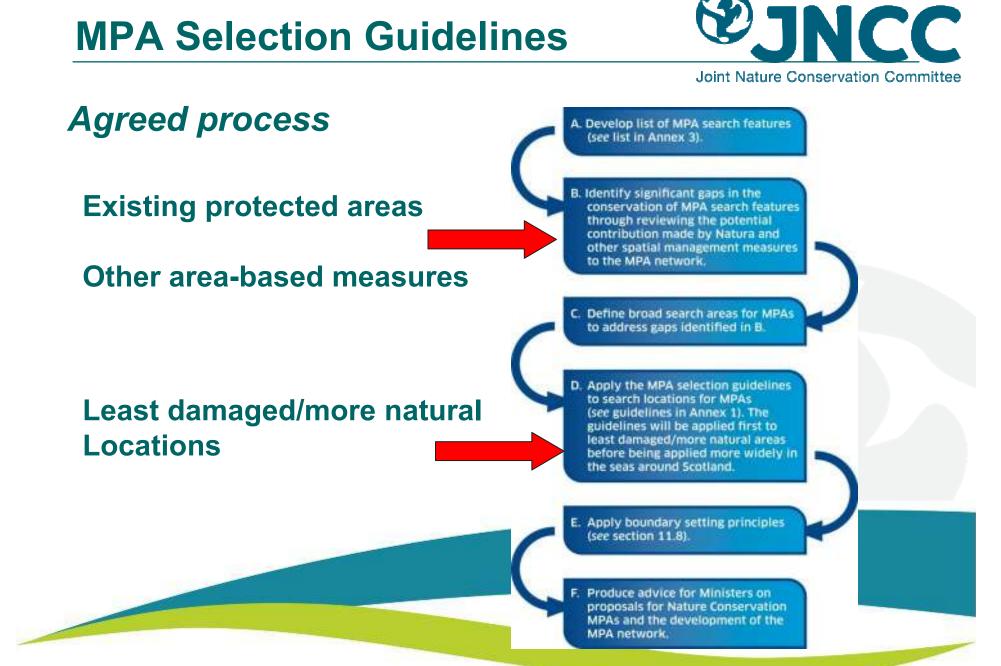
Feature coverage in the network



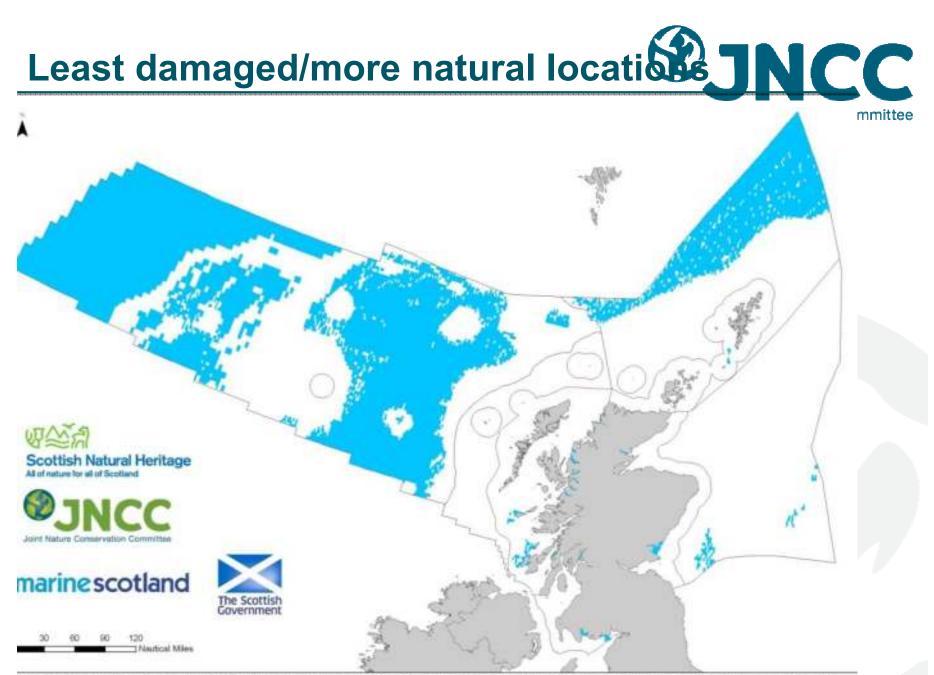


Principles

- Replication
- Representation
- Geographic range and
 - ecological variation
- Linkages
- Resilience



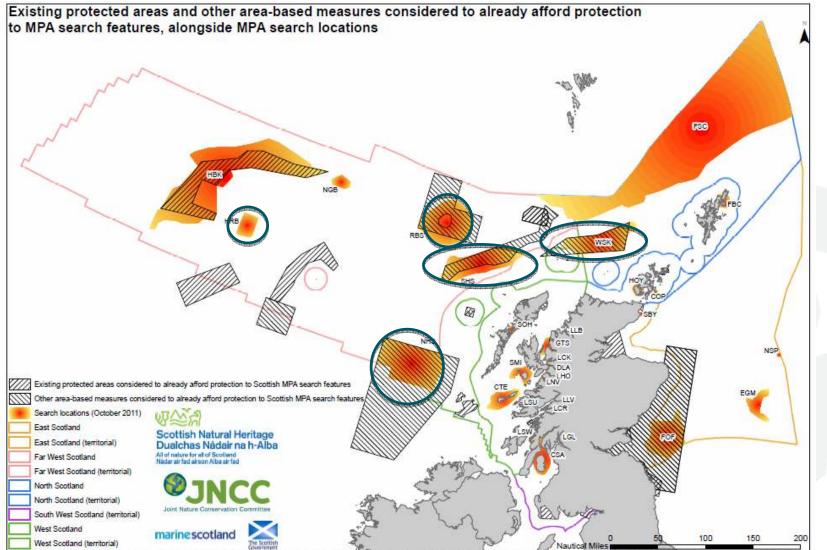
See Fig. 4 MPA Selection Guidelines



map projected in Europe Albert Equal Area Costs: (Modified Standard Parallels - Standard Parallels 1 = 50.2; Standard Parallel 2 = 55.5), Intert maps projected in Exitin National Geld, The exact links of the UK Continental Sheff are set out in orders made r section 1(7) of the Continental Sheff Add 1964 (II Crown Copyright), Land, World Vector Shoreline II US Defense Mapping Agency, NOT TO BE USED FOR NAVIDATION, Map copyright MCC 2011; OCA 28.09; 11, Date published 28.09; 2011

LDMN and enhancing other area based measure CC

Joint Nature Conservation Committee



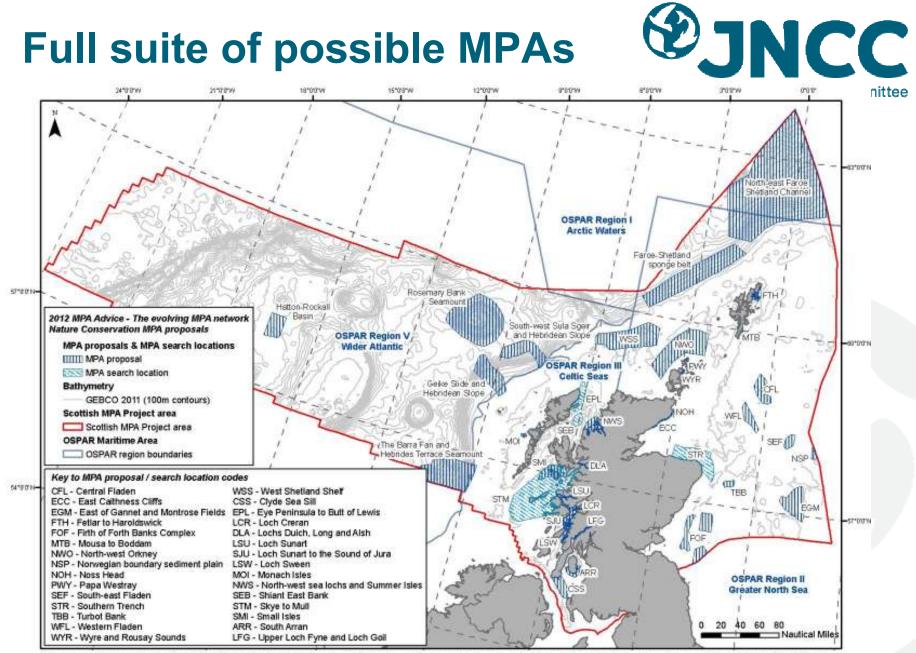
Map projected in Europe Albers Equal Area Conic (Modified Standard Parallels - Standard Parallel 1 - 50.2; Standard Parallel 2 - 58.5), The exact limits of the UK Continental Shelf are set out in orders made under section 1(7) of the Continental Shelf Act 1964 (© Crown Copyright), Landmass, World Vector Shoreline © US Defense Mapping Agency. NOT TO BE USED FOR NAVIGATION. Map copyright JNCC 2011, OCA 20.10.11, Date published 20.10.2011

Sensitivity of features



- Feature resilience (recovery) and resistance (tolerance) to pressures
- Pressure examples:
 - Removal of habitat: e.g. cables & pipelines, oil and gas
 - Abrasion on and sub surface: e.g. bottom contact fishing, cables & pipelines
 - Removal of non-target species
- Sensitivity varies depending on the species
 - Vulnerable Marine Ecosystems e.g. Coral gardens





Map projected in Europe Abers Equal Area Conic (Modified Standard Parallels - Standard Parallels - Standard Parallels - Standard Parallels 2 = 55:5). The exect limits of the UK Continential Shelf are set out in orders made under section 1(7) of the Continential Shelf Act 1964 (@Crown Copyright). Coastline @Crown copyright and database right (2012). All rights reserved. Ordnance Survey Licence number 100017508. Bathymetry @GEBCO. NOT TO BE USED FOR NAVIGATION. MPA network @ENH, JNCC and Marine Scotland. 07 12:12. All rights reserved.