## MPA proposals West of Scotland







marinescotland

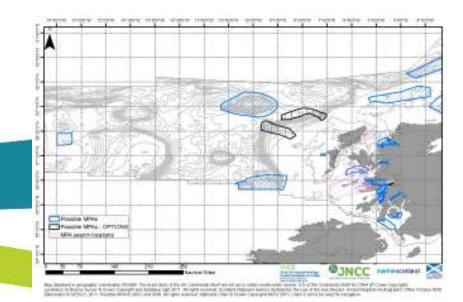


marine scotland science

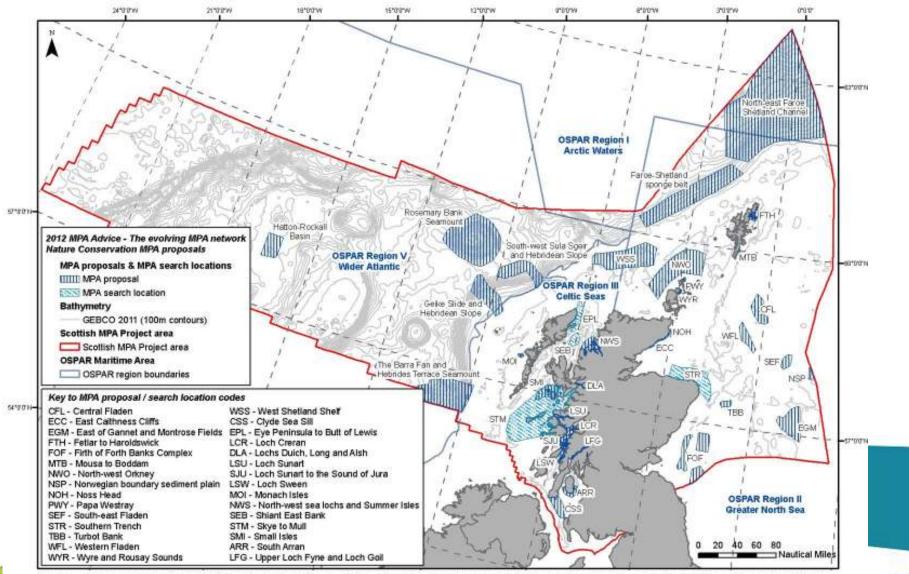
#### **Purpose of this presentation**



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

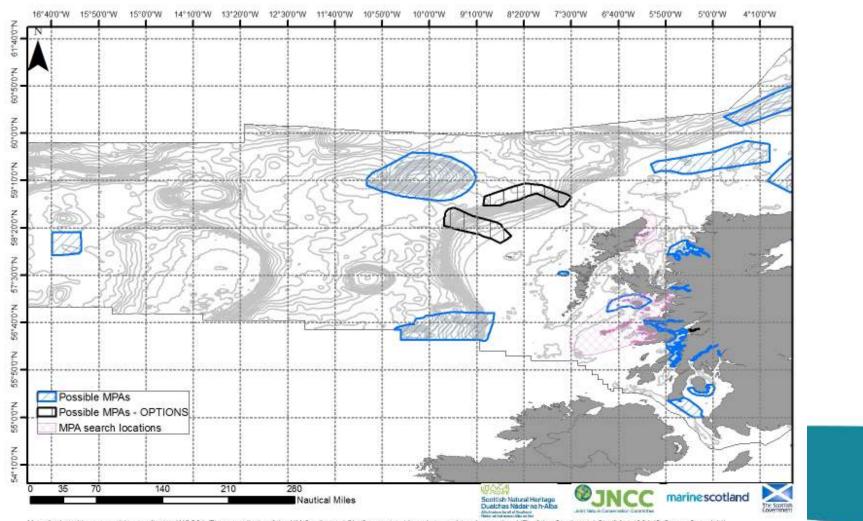


#### **Scottish MPA proposals Nov 2012**



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

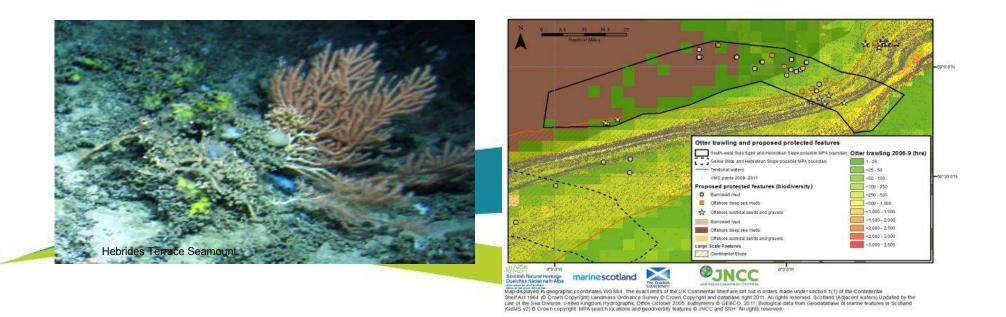


Map displayed in geographic coordinates WGS84. The exact limits of the UK Continental Shelf are set out in orders made under section 1(7) of the Continental Shelf Act 1964 (© Crown Copyright). Landmass Ordnance Survey © Crown Copyright and database right 2011. All rights reserved. Scotland (Adjacent waters) Updated by the Law of the Sea Division, United Kingdom Hydrographic Office October 2005. Bathymetry © GEBCO, 2011. Possible MPA © JNCC and SNH. All rights reserved. Adminatry Chart © Crown Copyright/UKHO 2013. Chart is not to be used for navigation.



#### **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



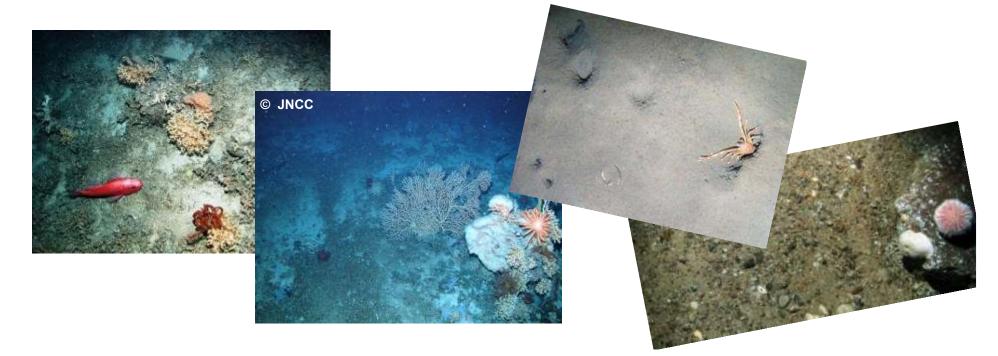
#### **West of Scotland Site Features**

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

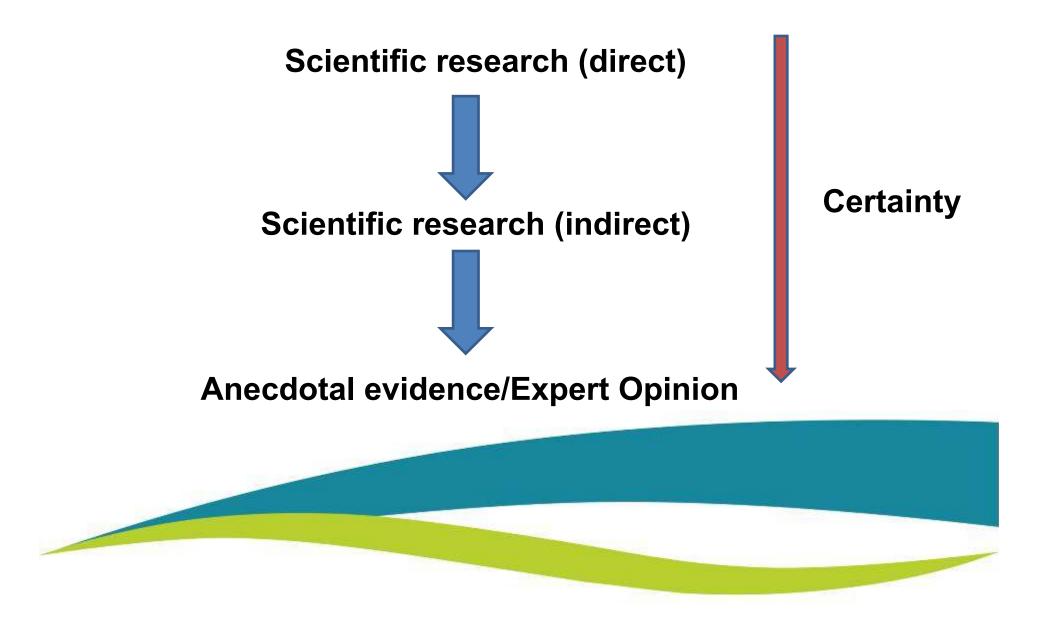


#### **Sensitivity of the features**

- 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** 

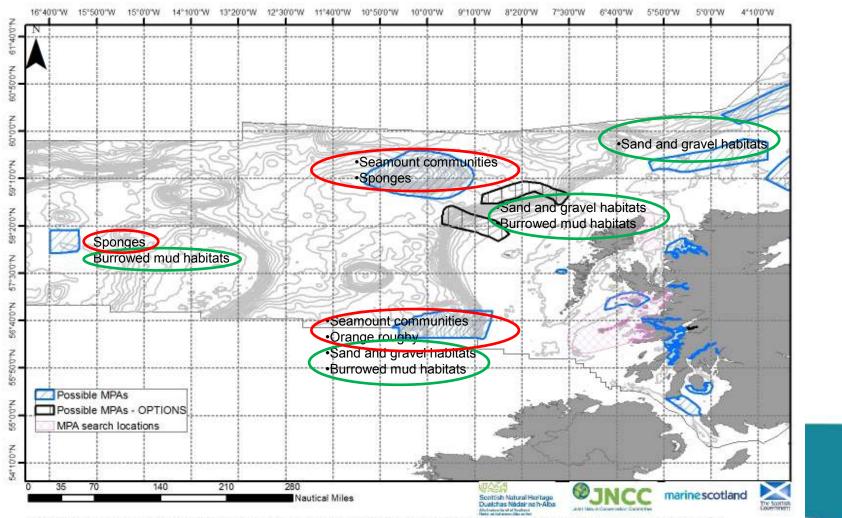
Based on **Risk** to achieving conservation objective

Range of options

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



#### **Sites and features**

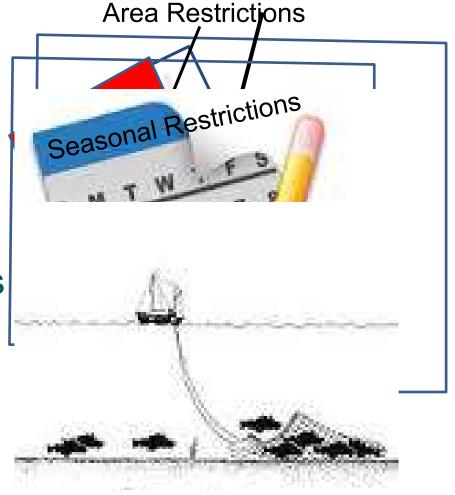


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### **Potential management to reduce/limit pressure**

Potential measures could include: Temporal Restrictions

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



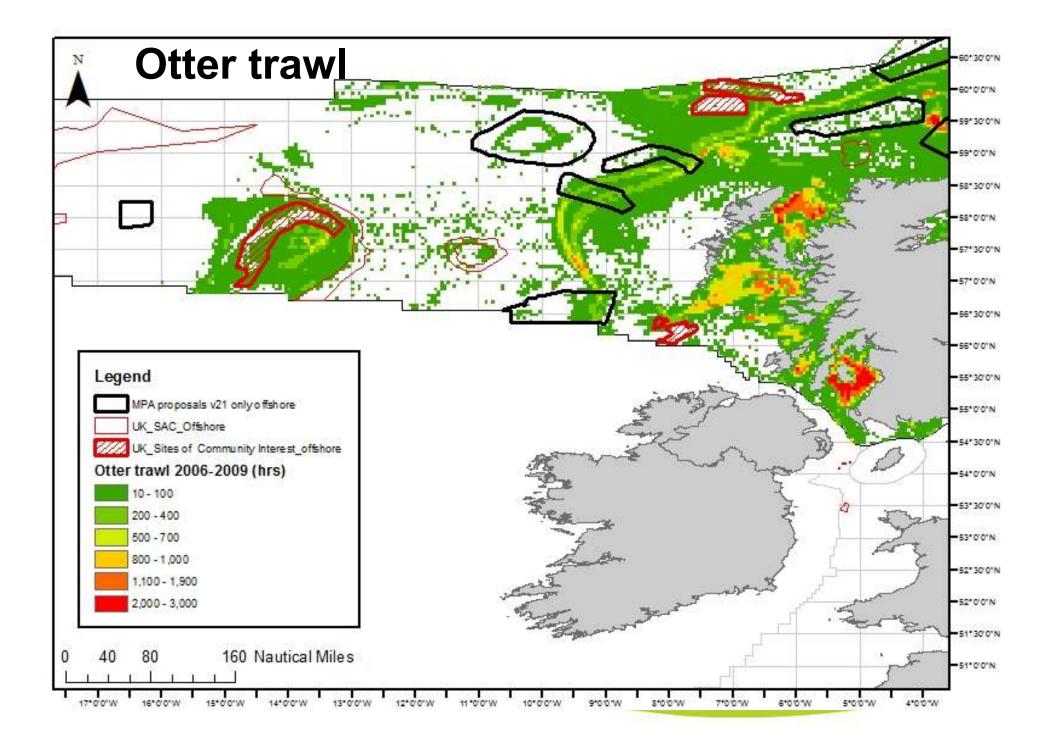
#### **Fishing activities**

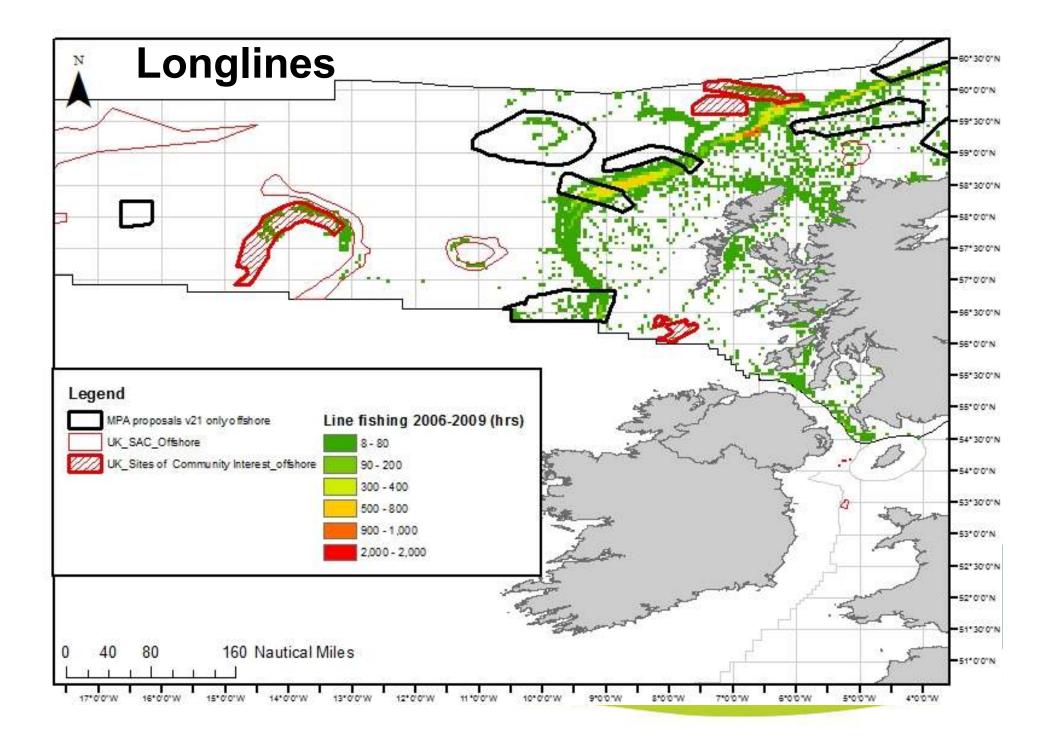
VMS data 2006-2011 Landings data 2001-2011

Summary

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

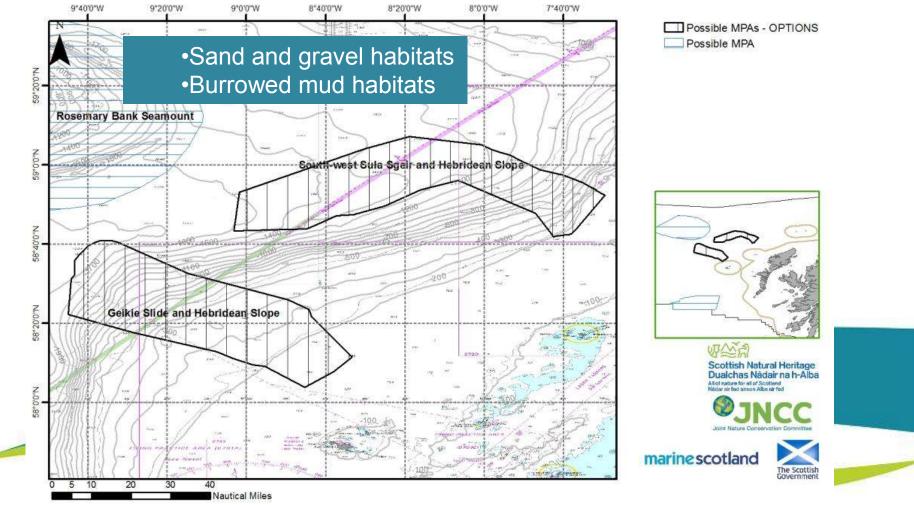






#### West of Scotland - Site options

# 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



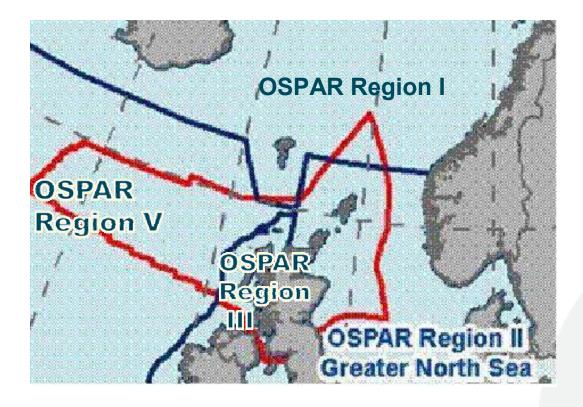


### **MPA** management

- 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

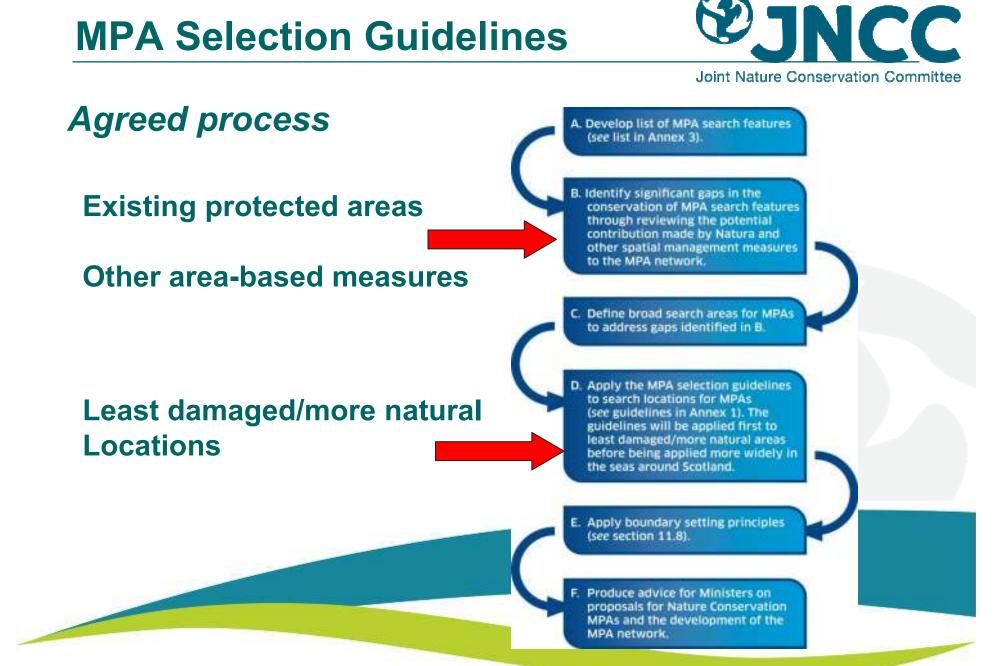
### Feature coverage in the network



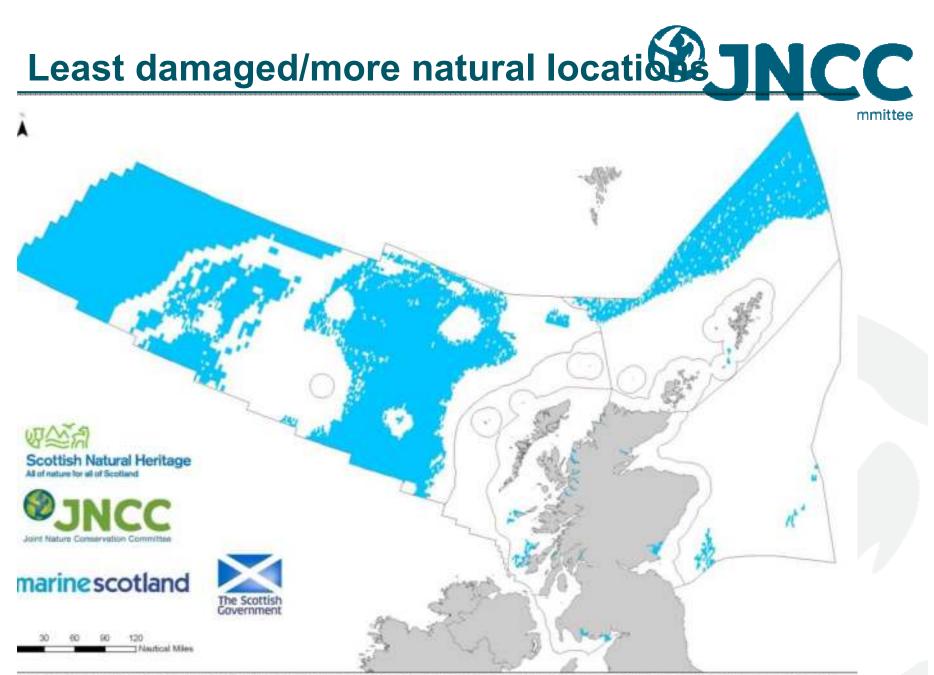


#### **Principles**

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



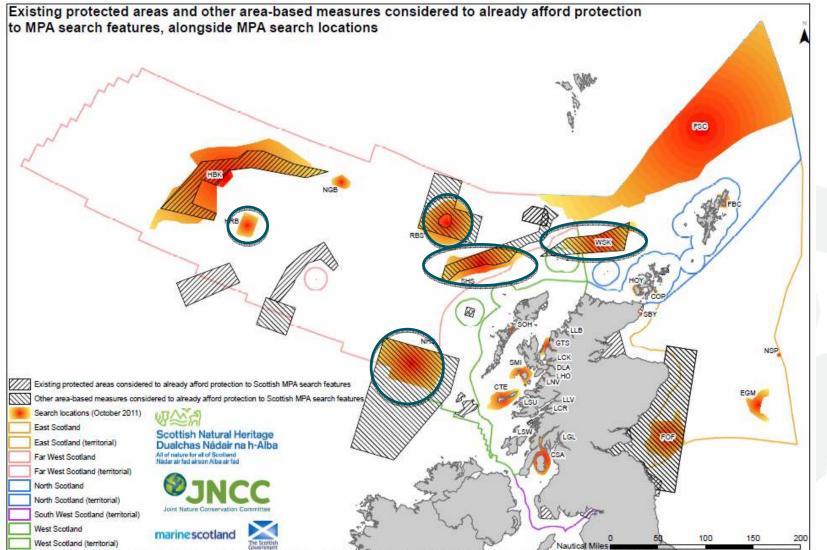
#### See Fig. 4 MPA Selection Guidelines



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



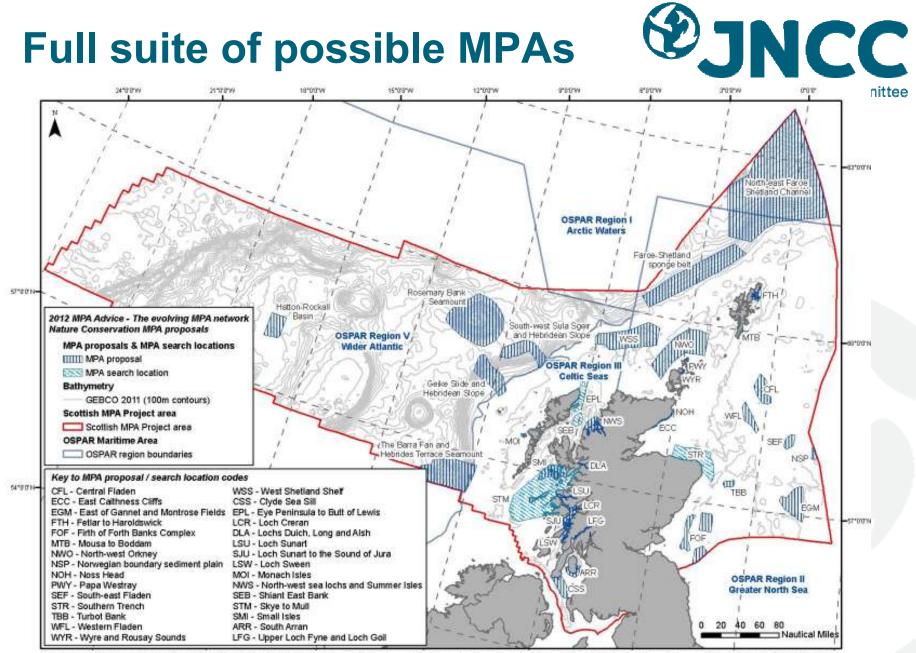
Map projected in Europe Albers Equal Area Conic (Modified Standard Parallels - Standard Parallel 1 - 50.2; Standard Parallel 2 - 58.5), The exact limits of the UK Continental Shelf are set out in orders made under section 1(7) of the Continental Shelf Act 1964 (© Crown Copyright), Landmass, World Vector 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.