Marine Management Organisation

Marine Planning Evidence

September 2016

ENVIRONMENT ISO 14001 CERTIFIED

QUALITY ISO 9001 CERTIFIED

Outline

- What is evidence and why it important in marine planning?
- How evidence fits into the marine planning process
- Our Evidence Strategy
- Some example evidence gaps
- Tying evidence to issues
- Questions

Evidence

Data, information or knowledge used to make decisions. Comes in many forms

What is evidence?

Technical	Governance	Stakeholder
Internal	National government	Special interest groups
Delivery partners	Devolved administration	Sectors and Industries
Research / Consultancy	Non-UK	NGOs
Industry	Local-authorities	Public

Why do we need evidence?

- Marine plans must be underpinned by sound evidence
- To help understand an issue (cause, effect, interactions, scale and priority)
- To assess confidence in the issue or identify assumptions and evidence gaps
- To inform plan vision, objectives and options and determine where and how marine planning can add most value
- To develop appropriately prescriptive and spatially explicit policies

Where do we get evidence from?

- Discrete research
  - **Commissioned** research, in partnership within the Defra group, working with academia
  - **knowledge exchange** (researchers) funded through the research councils.

Where else?

- Evidence provided by applicants
- Baseline information on the marine area
- Expert advice
- Monitoring data for sectors managed by MMO
- Evidence provided by stakeholders

Aquaculture &Fisheries
Energy production & infrastructure development
OGDs
Defra
Devolved Administrations
Marine Aggregates / Dredging & disposal
Tourism & Recreation
The Crown Estate
Government
International
Bordering Countries
Ports & Shipping
Marine Conservation (including MCZs)
Industry & Sector groups/ individuals
Stakeholder Engagement
Stakeholder Focus Group
Coastal Partnerships
Subsea Cables – Power/ Telecoms
Local Authorities, AONB, National Parks, LEPs
Local Government
Delivery Partners
Academia
NGOs
Defence & National Security
Waster water treatment & disposal
Local Government Association (LGA)
MPs and Elected Members
General Public
IFCAs

MMO Evidence Strategy

- Developed by the Evidence Team for all MMO functions

- Strategy part 1: 2015 – 2020*

  - What the MMO does
  - What scientific evidence the MMO uses
  - Where this evidence comes from
  - How it is applied
  - What more we need (in broad terms)…….

* https://www.gov.uk/government/publications/evidence-strategy-for-the-marine-management-organisation-mmo

MMO Evidence Strategy

	THEME	SUB THEME
	Describing the marine area	• State of the biological, physical and chemical environment • Distribution of human activities • Social value of human activities and the environment • Economic value of human activities and the environment
	Interactions in the marine area	• Pressures resulting from human activities • Sensitivities • Potential impacts and effects of human activities • Interaction pathways
	Integrated management	• Integrated assessments to inform management approaches • Tools for monitoring and evaluating management approaches • Methodologies for adaptive management

MMO Evidence Strategy

- Strategy part 2:
  - Sets out our preferred routes for delivering our 63 evidence requirements*
  - Working on a delivery plan for every requirement
  - Part 2 and first tranche of delivery plans published August
- Alignment with the rest of Defra and others
  - Links from our evidence requirements to Defra Marine Evidence Action Plan (EAP)
  - Have looked at areas of interest to Defra group
  - Identify potential collaborations – partnership working is a preferred delivery route for our evidence

* https://www.gov.uk/government/publications/evidence-gaps

Examples of high priority gaps: 2016-17

MMO Evidence Strategy Sub-theme	Gap ID Number	Title
1.1	R095	Seascape characterisation and visual impacts within marine plan areas
1.2	R090	The intensity and impacts of marine recreation
1.3	R103	The baseline social environment of the English marine plan areas
1.4	R027	The baseline economic environment of the English marine plan areas
2.4	R053	Future trends analysis for marine sector/activity
3.2	R068	Approaches for monitoring the impact of marine plans.
1.1	R088	Spatial identification and categorisation of areas of particular importance to fish populations
1.1	R004	Biodiversity 'hotspots' in the English marine plan areas
1.1	R086	The location, condition and features of compensatory sites
1.1	R005	Marine species migration pathways

How do we use evidence in Marine Planning?

Issues and Evidence gathering

Evidence in Issues Identification

Planning Issue - Opportunities or challenges likely to drive, or be subject to changes within the marine plan areas over the life of the plans

Come in all shapes and sizes

- Outlook
- Scale
- Level of detail

- Must be underpinned by evidence!

Development of issues work to date

- Use knowledge and available evidence MMO teams.
- Scoping report for the Sustainability Appraisal of the remaining marine plan areas
- Exploring common issues in E, S, and devolved administration plan areas
- Issues with Evidence workshops in July gathered stakeholder evidence.
- Work is currently ongoing to process this, and find appropriate gaps

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Marine Planning Evidence Base (MIS)

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What is Marine Information System

- Data

  Marine Planning Evidence Base – displays data gathered to support the marine plan drafting process

- Content

  Marine plans, their policies, supporting data and information

Marine Information System

Homepage

Interactive map for England | Marine planning evidence base | Contact us | Search for a marine plan policy

Marine Management Organisation
Marine Information System

East | North East | North West | South | South East | South West

Marine planning areas across England

Welcome to the Marine Information System (MIS). The MIS displays the appropriate marine policy documents for all of England's marine plan areas in an accessible online, quick reference format. It is aimed at interested parties seeking to understand marine plans, particularly in the context of proposals. This resource is also designed to provide support to public authorities in their use of marine plans in decision making.

Marine planning evidence base

Interactive map for England | Marine planning evidence base | Contact us | Search for a marine plan policy

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Marine Information System

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Contact us

If you have any other comments or views you wish to share with us please complete the following form:

Name *

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Telephone

Subject *

Message *

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Socio economic research on coastal communities (MMO1001)	Understanding of the potential for Marine Planning to facilitate socio-economic opportunities for communities on the coast.
Evaluation of the current state of knowledge on potential cumulative effects from offshore wind farms (OWF) to inform marine	To provide as comprehensive an evidence base as possible to inform the potential cumulative effects from OWF developments and other major marine development in light of current and

Aggregate exploration and option areas:

Area name	Liverpool Bay
Company	Hanson Aggregates Marine Ltd
Area number	518
Sub type	N/A

Zoom to

Map legend

Marine plan areas

Aggregates

MMO legacy aggregate licence areas

Marine aggregate application areas

Marine aggregate license areas

Aggregate exploration and option areas

Future technical opportunity for marine aggregates (South plan areas)

Energy - wave & tidal

Wave lease areas

Tidal lease areas

Aquaculture

Shellfish production by species

Abalone shellfish production

Blue mussel shellfish production

Common cockle shellfish production

Manila clam shellfish production

Native oyster shellfish production

Map legend

Marine plan areas

Marine Conservation Zones

Marine Conservation Zones

- Designated
- Proposed
- Recommended

Habitats and Species

Species of conservation importance (FOCI)

- Tentacled lagoon worm- Alkmaria romijni
- Sea fan anenome- Amphianthus dohrni
- Bearded red seaweed- Anotrichium barbatum
- Scarce tube dwelling anemone- Arachnanthus sarsi
- Deep-sea shrimp- Arrhis phyllonyx
- Icelandic cyprine- Arctica islandica
- Lagoon sandworm- Armandia cirrhosa
- Wig wrack or sea-loch egg wrack- Ascophyllum nodosum
- Fan mussel- Atrina pectinata (syn fragilis)
- Trembling sea mat- Victorella pavida
- DeFolin's lagoon snail- Caecum armoricum
- Red seaweed- Cruoria cruoriaeformis
- Red seaweed- Dermocorynus montagnei
- Ivel"s sea anemone- Edwardsia ivelli
- Timid burrowing anemone- Edwardsia timida
- Lagoon sand shrimp- Gammarus insensibilis
- Pink sea fan- Eunicella verrucosa
- Tall sea pen- Funiculina quadrangularis
- Amphipod shrimp- Gitanopsis bispinosa
- Giant goby- Gobius cobitis
- Northern hatchet-shell- Thyasira gouldi
- Couch's goby- Gobius couchi
- A stalked jellyfish- Haliclystus auricula

Questions?

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