

Lundy (rMCZ41) Evidence Review

Region	Finding Sanctuary	
Site Name/number	Lundy rMCZ FS41	
ENG Features present and proposed for inclusion within MCZ designation	BSH	-
	Habitat FOCI	<ul style="list-style-type: none"> Mud habitats in deep water.
	Species FOCI	<ul style="list-style-type: none"> <i>Palinurus elephas</i>.
ENG Features present but not proposed for inclusion within MCZ designation	BSH	<ul style="list-style-type: none"> High energy infralittoral rock Moderate energy infralittoral rock High energy circalittoral rock Moderate energy circalittoral rock Subtidal coarse sediment Subtidal sand.
	Habitat FOCI	<ul style="list-style-type: none"> Fragile sponge&anthozoan communities on subtidal rocky habitats Subtidal sands and gravels.
	Species FOCI	<ul style="list-style-type: none"> <i>Phymatolithon calcareum</i> <i>Amphianthus dohrnii</i> <i>Eunicella verrucosa</i> <i>Leptopsammia pruvoti</i>.
Non-ENG Features (Geological/geomorphological/biological)		<ul style="list-style-type: none"> <i>Uria aalge</i> <i>Fratercula arctica</i> <i>Alca torda</i> <i>Puffinus puffinus</i>.

Evidence Summary – data provided by Regional MCZ Projects

Feature	Evidence Summary	Key Sources
Mud habitats in deep water	Presence and extent based on data points from MESH, MB0102	MESH, MB0102,
<i>Palinurus elephas</i>	Presence and extent based on data points from MB0102	MB0102

Description of New Evidence Identified by MB0116 project

Evidence Description	Source	Feature
Smith, P and Nunny, R (2012) Mapping of sedimentary marine biotopes around Lundy, UK.	Journal of the Lundy Field Society. 3. 41-85.	Mud habitats in deep water
Data points	SeaSearch	Mud habitats in deep water <i>Palinurus elephas</i>
Data points	Marine Recorder MBA	Mud habitats in deep water <i>Palinurus elephas</i>

Evidence That Could Not Be Acquired by MB0116 project

Evidence Description	Source	Feature
Rock and thin sediment.	British Geological Society	Broadscale habitats
Barnstable Bay multibeam survey	Maritime and Coastguard Agency	Mud habitats in deep water

Confidence Assessment undertaken by MB0116 project

Feature	Presence	Extent	Condition	Boundaries (site)
Mud habitats in deep water	High	Moderate	Moderate	Low
<i>Palinurus elephas</i>	High	High	Moderate	

The presence of 'Mud habitats in deep water' is based on multiple data points and therefore confidence is assessed a 'high' for presence and 'moderate' for extent, as the records do not cover >50% of the rMCZ.

For the assessment of '*Palinurus elephas*' 10 distinct data points were available from MB0102, Seasearch Survey and Marine Recorder, all of which were collected by experts and six of which are <6 years old. 'High' confidence scores are given to both presence and distribution of the species.

The condition assessment for all the features was based on a Vulnerability Assessment and as 'Mud habitats in deep water' are sensitive to fishing activities that disturb the seabed and are considered to damage this habitat (beam and otter trawls and shellfish harvesting) and these were indicated by evidence gathered through Charting Progress 2 to occur across the site. Confidence in condition is therefore assessed as 'moderate'. The condition assessment *Palinurus elephas* scored a 'moderate' confidence score as there was overlap with benthic trawling.

The confidence assessment in the boundary of the site was classified as 'low' primarily because the site boundary was not closely aligned to the boundary of the individual features.