

Bembridge (rMCZ22) Evidence Review

Region	Balanced Seas	
Site Name/number	Bembridge rMCZ BS22	
ENG Features present and proposed for inclusion within MCZ designation	BSH	<ul style="list-style-type: none"> • Subtidal sand • Subtidal mud • Subtidal mixed sediments.
	Habitat FOCI	<ul style="list-style-type: none"> • Maerl beds • Mud habitats in deep water • Sea-pen and burrowing megafauna communities • Native Oyster <i>Ostrea edulis</i> beds • Ross worm <i>Sabellaria spinulosa</i> reefs • Seagrass beds.
	Species FOCI	<ul style="list-style-type: none"> • <i>Padina pavonica</i> • <i>Alkmaria romijni</i> • <i>Hippocampus guttulatus</i> • <i>Hippocampus hippocampus</i> • <i>Haliclystus auricula</i> • <i>Nematostella vectensis</i> • <i>Gammarus insensibilis</i> • <i>Ostrea edulis</i> • <i>Paludinella littorina</i>.
ENG Features present but not proposed for inclusion within MCZ designation	BSH	<ul style="list-style-type: none"> • High energy intertidal rock • Moderate energy intertidal rock • Intertidal coarse sediment • Intertidal sand and muddy sand • Intertidal mud • Intertidal mixed sediments • Coastal saltmarshes and saline reedbeds • High energy infralittoral rock • Moderate energy infralittoral rock • Low energy infralittoral rock.
	Habitat FOCI	<ul style="list-style-type: none"> • Estuarine rocky habitats • Littoral chalk communities • Subtidal chalk • Subtidal sands and gravels.
	Species FOCI	<ul style="list-style-type: none"> • <i>Osmerus eperlanus</i> • <i>Anguilla anguilla</i> • <i>Raja undulata</i>.
Non-ENG Features (Geological/geomorphological)		<ul style="list-style-type: none"> • Mosaic of Intertidal mud and coastal saltmarsh and saline reed bed.

Evidence Summary – data provided by Regional MCZ Projects

Feature	Evidence Summary	Key Sources
Subtidal sand	Point and Polygon data from MESH/UKSeaMap and Regional Project BS. Survey Id: GB001090 GB001097 GB001055 JNCCMNCR60015578, MESH confidence score is > 58.2 ground-truthed records not agreeing with polygon.	MESH/UKSeaMap and Regional Project BS.
Subtidal mud	Point and Polygon data from MESH/UKSeaMap and Regional Project BS. Survey Id: GB001055; JNCCMNCR60014910 MESH confidence score is 0. 3 ground-truthed record available not agreeing with polygon.	Point and Polygon data from MESH/UKSeaMap and Regional Project BS.
Subtidal mixed sediments	Point and Polygon data from MESH and Regional Project BS. MESH confidence score 81. 3 validation points. New point record from Marine Recorder (survey ID: MRLRC0120000000C).	Point and Polygon data from MESH/UKSeaMap and Regional Project BS.
Maerl beds	One point record from Regional Projects-BS (NE_Maerl_April2011_MCZ). > 1 HOCl in MCZ.	Regional Projects-BS
Mud habitats in deep water	Point and predicted modelled polygon data from MB0102, MESH/UKSeaMap. Survey Ids: JNCCMNCR10000686 JNCCMNCR10013622 GB001055. No ground-truthed record overlapping the polygon.	MB0102, MESH/UKSeaMap.
Sea-pen and burrowing megafauna communities	Point data from MB0102 and MESH.	MESH/UKSea Map and MB0102.
Native Oyster <i>Ostrea edulis</i> beds	One point record from MB0102. Survey Id: MPALAYERS000055.	MB0102.
Ross worm <i>Sabellaria spinulosa</i> reefs	Point data from MESH, Regional Projects NG and MB0102. Survey Ids:	MESH, Regional Projects NG and MB0102.

	JNCCMNCR10000686 JNCCMNCR10013616 JNCCMNCR10013623. 6 HOCl points. 6 ground-truth records 2 distinct records older than 12 years.	
Seagrass beds	Point and polygon data. 1 point record not within polygon data. MB0102 and MESH Survey Ids: GB000337 MRLRC01200000066	MB0102 and MESH.
<i>Padina pavonica</i>	Point and polygon data. More than 5 specialist records less than 6 years	Regional Projects BS and MB0102.
<i>Alkmaria romijni</i>	Four point records from Regional Projects-BS (ALKNGR_Merge_MCZ) from Environment Agency. Survey ID's unknown. Collected by specialists; all from 2003 (<12 years old)	Point data from Regional Projects-BS
<i>Hippocampus guttulatus</i>	One point record from MB0102. Survey Id: MPALAYERS000015	MB0102.
<i>Hippocampus hippocampus</i>	Point data from MB0102. Survey ID: MPALAYERS000015, and Regional Projects - BS (Seahorses_SeahorseTrust_MCZ), 5 records; all collected by a specialist, three of which are <6 years old.	MB0102. Regional Projects - BS
<i>Haliclystus auricula</i>	Point data from MB0102. Survey Ids: MRLRC0120000000B. 7 records collected by specialists, 1 of which is <6 years old.	MB0102.
<i>Nematostella vectensis</i>	No data	No data
<i>Gammarus insensibilis</i>	No data	No data
<i>Ostrea edulis</i>	Point data from MB0102. Survey Ids: MRLRC0120000000B MRLRC01200000003 MRMLN0010000010C	MB0102.. Regional project BS.

	MPALAYERS000055 and regional proejct BS (Ostrea_edulis_MRAug2010_MCZ),	
<i>Paludinella littorina</i>	No data	No data

Description of New Evidence Identified by MB0116 project

Evidence Description	Source	Feature
2008 Seasearch Hampshire and Isle of Wight MarineRecorderBSH_MCZ	Marine Recorder - MBA	Subtidal mixed sediments
Hampshire_loW_Zoster_Inventory_Polygons_region_MCZ Hampshire and Isle of Wight Wildlife Trust. 2009. Eelgrass survey Bembridge	Hampshire and Isle of Wight Wildlife Trust	Seagrass beds
HIWWT_FOCI_Records_120502_MCZ HIWWT 2011 rMCZ Intertidal Survey Isle of Wight	Hampshire and Isle of Wight Wildlife Trust	Sea-pen and burrowing megafauna communities
Seagrass_Inventory_Points_MCZ	Hampshire and Isle of Wight Wildlife Trust	Seagrass beds
BS_Sample_Species_1982_MCZ	Seasearch Survey	<i>Ostrea edulis</i> <i>Haliclystus auricula</i>
HIWWT_FOCI_records_120502_MCZ_species Seasearch Survey Of Culver Cliff Biological Survey Of Bembridge HIWWT Survey Of Bembridge Lagoon	Hampshire and Isle of Wight Wildlife Trust	<i>Haliclystus auricula</i>
2008 Seasearch Hampshire and Isle of Wight MarineRecorderSpecies_MCZ 2006 - PmnhS - Isle Of Wight Field Trip 1971 Kent, Hampshire, Dorset, Devon, Cornwall Polydora And Ostrea Edulis Investigation 1970-present Marlin UK Expert Sighting Records	Marine Recorder - MBA	<i>Ostrea edulis</i> <i>Padina pavonica</i> <i>Hippocampus hippocampus</i>
The status, distribution and ecology of <i>Paludinella littorina</i> (Delle Chiaje, 1828) (Gastropoda: Assimineidae) in the British Isles	Journal of Conchology	<i>Paludinella littorina</i>
Pearson, C. V. M., et al. (2002). "The genetic structure of the rare lagoonal sea anemone, <i>Nematostella vectensis</i> Stephenson (Cnidaria; Anthozoa) in the United Kingdom based on RAPD analysis.	Molecular Ecology 11(11): 2285-2293.	<i>Nematostella vectensis</i>
EID_15_16_MCZ	Journal of Conchology	<i>Paludinella littorina</i>

Evidence That Could Not Be Acquired by MB0116 project

Evidence Description	Source	Feature
Rock and thin sediment.	British Geological Society	Broadscale habitats
Local knowledge from colleagues, MSc and PhD theses at Portsmouth University.	Portsmouth University	Features unknown