

## Studland Bay (rMCZ15) Evidence Review

Region	Finding Sanctuary	
Site Name/number	Studland Bay rMCZ FS15	
ENG Features present and proposed for inclusion within MCZ designation	BSH	<ul style="list-style-type: none"> <li>• Intertidal sand and muddy sand</li> <li>• Intertidal mud</li> <li>• Subtidal sand</li> <li>• Subtidal mixed sediments</li> </ul>
	Habitat FOCI	<ul style="list-style-type: none"> <li>• Seagrass beds</li> </ul>
	Species FOCI	<ul style="list-style-type: none"> <li>• <i>Hippocampus hippocampus</i></li> <li>• <i>Ostrea edulis</i></li> <li>• <i>Raja undulata</i>.</li> </ul>
ENG Features present but not proposed for inclusion within MCZ designation	BSH	-
	Habitat FOCI	<ul style="list-style-type: none"> <li>• Subtidal sands and gravels</li> </ul>
	Species FOCI	<i>Hippocampus guttulatus</i>
Non-ENG Features (Geological/geomorphological)		-

### Evidence Summary – data provided by Regional MCZ Projects

Feature	Evidence Summary	Key Sources
Intertidal sand and muddy sand	Presence and extent based on predicted modelled polygon data from MESH (survey ID: GB001070)	MESH;
Intertidal mud	Presence and extent based on predicted modelled polygon data from MESH (survey ID: GB001070)	MESH;
Subtidal sand	Presence and extent based on predicted modelled polygon data from MESH (survey ID: GB001055)	MESH
Subtidal mixed sediments	Presence and extent based on one point record and predicted modelled polygon data from MESH (survey ID's: MRLRC00100000858, GB001090, GB001097). MESH confidence score 0. One ground-truthed	MESH

	record.	
Seagrass beds	Point data from MESH and MB0102;	MESH; MB102,
<i>Hippocampus hippocampus</i>	One point record from MB0102; survey ID: MPALAYERS000015	MB0102
<i>Ostrea edulis</i>	Point data from MB0102, regional project FS (survey ID's: MRLRC00100000763 MRLRC00100000685.01 MRLRC00100000766 MRLRC00100000123.01 MRLRC00100000516)	MB0102, regional project FS
<i>Raja undulata</i>	No data	No data

### Description of New Evidence Identified by MB0116 project

Evidence Description	Source	Feature
Garrick-Maidment, N., J. Newman, et al. (2010). Movement of a pair of Spiny Seahorses ( <i>Hippocampus guttulatus</i> ) seen during the summer of 2010 at Studland Bay in Dorset.	Escot, Devon, The Seahorse Trust: 9 pages.	<i>Hippocampus guttulatus</i>
Garrick-Maidment N, Trehwella S, Hatcher J, Collins K, Mallinson J (2010a) Seahorse tagging project, Studland Bay, Dorset, UK.	Marine Biodiversity Records 3.	Majority of seahorses in Studland Bay are <i>H. guttulatus</i> not <i>H. hippocampus</i>
East_Dorset_Legend_Apr_16_2010_MCZ	SW_Habitat_Mapping	Intertidal mud
County_Dorset_All_MCZ	SW_Habitat_Mapping_BAP	Intertidal mud
FS_Sample_HOCI_1982_MCZ_2	SeaSearch	Seagrass beds
Seasearch_MCZ	Dorset Wildlife Trust	Seagrass beds
FS_sample_species_1982_MCZ	Seasearch Survey	<i>Ostrea edulis</i>
FS_sample_species_2011_MCZ	Seasearch Survey	<i>Ostrea edulis</i>
StudlandSeagrassPoint_MCZ StudlandSeagrassPoly_MCZ	Jackson, E.L., Griffiths, C. , Durkin, O and Collins, K (2012) An assessment of anthropogenic impact on angiosperm habitat. Reference 23599. Report by The Marine Biological Association of the UK: Evidence for Conservation Management and Policy Team.	Seagrass beds

## Evidence That Could Not Be Acquired by MB0116 project

Evidence Description	Source	Feature
Data on the shoreline sediment collected during the Shoreline Management Plan and various assessments of shoreline sediment processes in the bay	(SCOPAC 2004)	Intertidal sand and muddy sand Intertidal mud
Anthropogenic impact on Seagrass within Studland Bay Seagrass maps created and collated as part of the MAIA project (NE and MMO funded) – GIS layers available from NE. Egerton & Southeran 2011 - ENVISION video survey; Collins et al. (2010)	(Jackson et al. In prep.) (Poole Harbour Commission)	Seagrass HOCl
Seahorse observations collected as part of the tagging work being carried out in Studland Bay. 40 sightings (mainly <i>H. guttulatus</i> but also <i>H. hippocampus</i> ) (Garrick-Maidment et al. 2010, Garrick-Maidment 2011)	Seahorse Trust	<i>H. hippocampus</i> <i>H. guttulatus</i>
Rock and thin sediment.	British Geological Society	Broadscale habitats
Distribution and abundance of young fish.	CEFAS. The distribution and abundance of young fish on the east and south coast of England (1981 to 1997).	<i>Raja undulata</i> .
Voluntary No Anchor Zone Study by SeaStar	The Crown Estate (A80)	Subtidal sand Subtidal mixed sediments Seagrass beds