

Isles of Scilly: Tean Non-Disturbance Area rMCZ (FS35a) Evidence Review

Region	Finding Sanctuary	
Site Name/number	Isles of Scilly: Tean Non-Disturbance Area rMCZ (FS35a)	
ENG Features present and proposed for inclusion within MCZ designation	BSH	<ul style="list-style-type: none"> Moderate energy intertidal rock Intertidal coarse sediment Moderate energy infralittoral rock Subtidal mixed sediments Subtidal macrophyte-dominated sediments
	Habitat FOCI	<ul style="list-style-type: none"> Fragile sponge & anthozoan communities on subtidal rocky habitats Intertidal under boulder communities Seagrass beds Tide-swept channels
	Species FOCI	-
ENG Features present but not proposed for inclusion within MCZ designation	BSH	-
	Habitat FOCI	-
	Species FOCI	-
Non-ENG Features (Geological/geomorphological)		-

Evidence Summary – data provided by Regional MCZ Projects

Feature	Evidence Summary	Key Sources
Moderate energy intertidal rock	No GI Aerial photography provided by CCO	CCO
Intertidal coarse sediment	No GI Aerial photography provided by CCO	CCO
Moderate energy infralittoral rock	The presence and extent of this broad-scale habitat was supported by 1 Combined MESH/UKSeaMap GB001055 polygon. No point data were available. Aerial photography provided by CCO	Combined MESH/UKSeaMap CCO
Subtidal mixed sediments	The presence and extent of this broad-scale habitat was supported by 2 Combined MESH/UKSeaMap GB000498 polygon. No point data were available.	Combined MESH/UKSeaMap
Subtidal macrophyte-	No GI	No GI

dominated sediment		
Fragile sponge & anthozoan communities on subtidal rocky habitats	No GI	No GI
Intertidal under boulder communities	No GI	No GI
Seagrass beds	The occurrence of this habitat FOCI was supported by polygon data derived from 1 'IoS_LG_habitat_poly_NewIntersect' (no survey ID) polygon and 137 from Regional Project -FS. No point data were available.	Regional Project -FS
Tide-swept channels	The occurrence of this habitat FOCI was supported by polygon data derived from 1 'IoS_LG_habitat_poly_NewIntersect' (no survey ID) polygon and 1 'webGIS_habitat_poly_NewIntersect' (no survey ID) polygon, from Regional Project - FS.	Regional Project -FS

Description of New Evidence Identified by MB0116 project

Anecdotal evidence provided by NE to MB0116 project

Evidence Description	Source	Feature
Polygon data	SW_Habitat_Mapping	Intertidal coarse sediment Intertidal under boulder communities
Polygon data	SW_Habitat_Mapping_BAP	Intertidal under boulder communities
Jackson, E.L., Higgs, S., Allsop, T., Cawthray, A., Evans, J. and Langmead, O. (2011) Isles of Scilly Seagrass Mapping and point data	Natural England Commissioned Reports, Number 087	Subtidal macrophyte-dominated sediment Seagrass beds

Evidence That Could Not Be Acquired by MB0116 project

Evidence Description	Source	Feature
South Devon reef video baseline surveys for the Prawle Point to Plymouth Sound & Eddystone cSAC and surrounding areas.	UNIVERSITY OF PLYMOUTH, 2011.	High energy infralittoral rock Moderate energy infralittoral rock

Marine BAP Habitats and Species of the Isles of Scilly - an update to the Isles of Scilly Environmental Audit 2008.	Gall, A. (2011)	Seagrass beds
Jackson, E.L., Higgs, S., Allsop, T., Cawthray, A., Evans, J. and Langmead, O. (2011) Isles of Scilly Seagrass Mapping.	Natural England Commissioned Reports, Number 087	Seagrass beds
Cook, K.J. (2011) Report on 2011 Isles of Scilly Zostera marina survey.	Report to Natural England	High energy infralittoral rock Moderate energy infralittoral rock

Confidence Assessment

Feature	Presence	Extent	Condition	Boundaries (site)
Moderate energy intertidal rock	Moderate	Low	Low	Low
Intertidal coarse sediment	Moderate	Low	Low	
Moderate energy infralittoral rock	Low	Low	Low	
Subtidal mixed sediments	Low	Low	Low	
Subtidal macrophyte-dominated sediment	Moderate	Moderate	Low	
Fragile sponge & anthozoan communities on subtidal rocky habitats	No confidence	No confidence	No confidence	
Intertidal under boulder communities	Low	Low	Low	
Seagrass beds	Moderate	Moderate	Low	
Tide-swept channels	Low	Low	Low	

The confidence assessment for 'Moderate energy intertidal rock' was based on aerial photography because no GI data was available. These photographs confirmed the presence of the feature but only showed it to cover a small proportion of the MCZ the presence was therefore considered to be 'moderate' for presence and 'low' for extent.

Polygon data from the SW mapping project was available for 'Intertidal coarse sediment' however there were no validating data points of this feature. However the aerial photography

confirms the feature presence and coverage of part of the feature polygon, thus giving a confidence score of 'moderate' for presence and 'low' for extent.

The occurrence of broad-scale habitats 'Moderate energy infralittoral rock' was supported by modelled habitat polygons derived from MESH/UKSeaMap data. The lack of validating point data however, meant that confidence in the presence and extent of this feature could only be categorised as 'low'.

Polygon data with a MESH confidence score of 72 verified the occurrence of the broad-scale habitat 'Subtidal mixed sediments'. However, as there was an absence of point records and non-conflicting modelled data to verify the presence of this habitat, confidence in the presence and extent of the habitat was categorised as 'low'.

Only anecdotal evidence was available for the presence and extent of 'Subtidal macrophyte-dominated sediment' however the detail of the habitat map was insufficient to give a confidence score above 'moderate' for both.

There was no geographic information available for 'Fragile sponge & anthozoan communities on subtidal rocky habitats', and therefore a no confidence score could be assigned to the presence or extent of this feature.

The presence and extent of the habitat FOCI 'Intertidal under boulder communities' and 'Tide-swept channels' were supported by polygon data derived from SW Habitat Mapping and data supplied in the FS Regional Projects respectively. However, an absence of point data meant that confidence in both the presence and extent of these habitat FOCI was categorised as 'low'.

Polygon data from surveys of the Isles of Scilly provided the base map however no data points were available to confirm the presence and extent of 'Seagrass beds'. The anecdotal evidence did confirm the presence of the feature within the rMCZ but the mapping was of insufficient resolution to score the confidence of presence and extent above 'moderate'.

The condition assessment for majority of the features was based on a Vulnerability Assessment and could not be improved beyond a 'low' confidence score. Seagrass beds were considered to be sensitive (with moderate or high confidence) to pressures resulting from human activities by project MB0102. However, assessment protocol requires that confidence in condition is assessed as low where confidence in extent is lower than moderate or high.

The confidence assessment in the boundary of the site was classified as low primarily because the overall confidence in the extent of the respective BSH and Habitat FOCI was determined as low.