

## Isles of Scilly: Tean (FS rMCZ35m) Evidence Review

Region	Finding Sanctuary	
Site Name/number	Isles of Scilly: Tean (FS rMCZ35m)	
ENG Features present and proposed for inclusion within MCZ designation	BSH	<ul style="list-style-type: none"> <li>• High energy intertidal rock</li> <li>• Moderate energy intertidal rock</li> <li>• Intertidal coarse sediment</li> <li>• Intertidal sand and muddy sand</li> <li>• Intertidal mud</li> <li>• High energy infralittoral rock</li> <li>• Moderate energy infralittoral rock</li> <li>• Subtidal sand</li> <li>• Subtidal mixed sediments</li> <li>• Subtidal macrophyte-dominated sediment</li> </ul>
	Habitat FOCI	<ul style="list-style-type: none"> <li>• Fragile sponge &amp; anthozoan communities on subtidal rocky habitats</li> <li>• Intertidal under boulder communities</li> <li>• Seagrass beds</li> <li>• Tide-swept channels</li> </ul>
	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
High energy intertidal rock	The presence and extent of this broad-scale habitat was supported by polygon data derived from 1 Combined MESH/UKSeaMap and 1 MB0102 GB001070 polygon. No point data were available. Aerial photography from CCO	Combined MESH/UKSeaMap MB0102 CCO
Moderate energy intertidal rock	No GI Aerial photography from CCO	CCO
Intertidal coarse sediment	The presence and extent of this broad-scale habitat was supported by polygon data derived from 2 Combined MESH/UKSeaMap and 5 MB0102 GB001070 polygons.	Combined MESH/UKSeaMap MB0102 CCO

	No point data were available. Aerial photography from CCO	
Intertidal sand and muddy sand	The presence and extent of this broad-scale habitat was supported by polygon data derived from 1 Combined MESH/UKSeaMap GB001070 and 2 MB0102 GB001070 polygons. Point data were available from 2 MESH points. Aerial photography from CCO	Combined MESH/UKSeaMap MB0102 MESH CCO
Intertidal mud	Aerial photography from CCO	CCO
High energy infralittoral rock	The presence and extent of this broad-scale habitat was supported by polygon data derived from 3 Combined MESH/UKSeaMap GB001055 polygons. No point data were available.	Combined MESH/UKSeaMap
Moderate energy infralittoral rock	The presence and extent of this broad-scale habitat was supported by polygon data derived from 4 Combined MESH/UKSeaMap GB001055 polygons. Point data were available from 2 MESH points.	Combined MESH/UKSeaMap MESH
Subtidal sand	The presence and extent of this broad-scale habitat was supported by point data derived from 1 MESH point. No polygon data were available.	MESH
Subtidal mixed sediments	The presence and extent of this broad-scale habitat was supported by polygon data derived from 10 Combined MESH/UKSeaMap GB000498 polygons. No point data were available.	Combined MESH/UKSeaMap
Subtidal macrophyte-dominated sediment	The presence and extent of this broad-scale habitat was supported by polygon data derived from 1 Combined MESH/UKSeaMap GB000498 polygon. Point data were available from 3 MESH points.	Combined MESH/UKSeaMap MESH
Fragile sponge & anthozoan communities on subtidal rocky habitats	No GI	No GI

Intertidal under boulder communities	No GI	No GI
Seagrass beds	The presence and extent of this habitat FOCI was supported by polygon data derived from 1 Combined MESH/UKSeaMap GB000498 polygon, 3 MB0102 GB000498 polygons, 2 loS_LG_habitat_poly_NewIntersect polygons Point data were available from 2 MESH points, 2 MB0102 points, 2 Isles of Scilly Wildlife Trust, SeaSearch points	Combined MESH/UKSeaMap MB0102 MESH Regional Project - FS
Tide-swept channels	The presence and extent of this habitat FOCI was supported by polygon data derived from 2 loS_LG_habitat_poly_NewIntersect polygons and 2 webGIS_habitat_poly_NewIntersect polygons. Point data were available from 1 MESH point, 1 Isles of Scilly Wildlife Trust, SeaSearch	MESH Regional Project - FS

### Description of New Evidence Identified by MB0116 project

#### Anecdotal evidence provided by NE to MB0116 project

Evidence Description	Source	Feature
Irving, R.A. and Northen, K.O. (2012) Isles of Scilly SAC Diving Monitoring Studies, 2011. Data points from loS_Zostera_Marina_2008_simp_MCZ	Natural England Commissioned Reports, Number 104	High energy infralittoral rock Moderate energy infralittoral rock
Isles of Scilly 2010 Summary Report.	SeaSearch (2010)	High energy infralittoral rock Moderate energy infralittoral rock Seagrass beds Tide-swept channels
Polygons	SW Habitat Mapping	Intertidal coarse sediment Intertidal mud Intertidal under boulder communities
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.	Seagrass beds

## Evidence That Could Not Be Acquired by MB0116 project

No additional evidence was identified

## Confidence Assessment undertaken by MB0116 project

Feature	Presence	Extent	Condition	Boundaries (site)
High energy intertidal rock	Moderate	Moderate	Low	Low
Moderate energy intertidal rock	Low	Low	No confidence	
Intertidal coarse sediment	Moderate	Moderate	Low	
Intertidal sand and muddy sand	Moderate	Low	Low	
Intertidal mud	Low	Low	Low	
High energy infralittoral rock	Low	Low	Low	
Moderate energy infralittoral rock	Low	Low	Low	
Subtidal sand	Low	Low	Low	
Subtidal mixed sediments	Low	Low	Low	
Subtidal macrophyte-dominated sediment	Low	Low	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	

Polygon data with a MESH confidence score of 1 supported the occurrence of three broad-scale habitats: 'High energy intertidal rock'; 'Intertidal coarse sediment' and 'Intertidal sand and muddy sand'. Although there was an absence of point data and insufficient non-conflicting modelled data available to verify the presence of features 'High energy intertidal rock' and 'Intertidal coarse sediment', the aerial photography confirms the presence of these features and covers between 50 and 90% of the feature polygons therefore the confidence in presence and extent was considered to be 'moderate'. Point data and aerial photography were available to verify the presence of 'Intertidal sand and muddy sand' and therefore the confidence in presence of the feature was scored 'moderate'. Due to the lack of validating point data within

the modelled broad-scale habitat maps and the photography covering less than 50% of the feature polygon the confidence in the extent was categorised as 'low'.

There was no geographic information available for the following ENG features: 'Moderate energy intertidal rock' however aerial photography confirmed the presence of the feature within the rMCZ it was therefore assessed as being 'low' in both presence and extent. No photography was available for 'Fragile sponge & anthozoan communities on subtidal rocky habitats', therefore, confidence in the presence and extent of this feature could not be assessed.

A MESH confidence score was not available for the following broad-scale habitats: 'Intertidal mud', 'High energy infralittoral rock', 'Moderate energy infralittoral rock' and 'Subtidal sand'. An absence of available point data and non-conflicting modelled data and supporting photography or anecdotal to verify the presence of the features 'Intertidal mud' and 'High energy infralittoral rock' meant that confidence in presence of these features was categorised as 'low'. Due to the lack of validating point data within the modelled broad-scale habitat maps, confidence in the extent of these 2 features was also categorised as 'low'. The presence and extent of the feature 'Subtidal sand' was supported by MESH points, however an absence of polygon data or anecdotal evidence resulted in a confidence score of 'low' for confidence in presence and extent. The feature 'Moderate energy infralittoral rock' was also supported by MESH points, though none fell within the feature polygons. As such, confidence in both the presence and extent of this feature was considered to be 'low'.

The occurrence of the broad-scale habitat feature 'Subtidal mixed sediments' was supported by polygon data with a MESH confidence score of 72, however, there was an absence of validating point data and non-conflicting modelled data and therefore confidence in both the presence and extent of this feature was categorised as 'low'.

The presence of the broad-scale habitat feature 'Subtidal macrophyte-dominated sediment' was supported by polygon data with a MESH confidence score of 72, but the availability of point data (not in agreement with the broad-scale habitat polygon) meant that there was 'low' confidence in both presence and extent.

SW\_Habitat\_Mapping and SW\_Habitat\_Mapping\_BAP polygons were available for the habitat FOCI 'Intertidal under boulder communities', however, the absence of available point data resulted in an assessment of 'low' confidence for presence and extent of the feature.

Polygon data derived from 'IoS\_Zostera\_Marina\_2008\_simp\_MCZ' and 'IoS\_LG\_habitat\_poly\_NewIntersect' supported the presence of the habitat FOCI 'Seagrass beds'. With 1 MB0102 point falling within the habitat FOCI and anecdotal evidence confirms the presence of the feature and provides a habitat map to support the extent therefore the confidence in both the presence and extent is therefore considered to be 'moderate'.

Polygon and point data were available for the habitat FOCI 'Tide-swept channels'. Only 25% of points were in agreement with the habitat polygons and therefore confidence in the presence of the feature was categorised as 'low'. The point data were distributed over less than 50% of the habitat polygons and hence confidence in extent of the feature was scored 'moderate'. However, the confidence score assigned to extent was reduced to 'low' to reflect the low confidence score assigned to the presence of this feature.

All features are not considered to be highly sensitive to any pressures considered within the MB0102 sensitivity X pressures matrix and hence confidence in condition, based on this, they were assessed as 'low'.

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'.