

Isles of Scilly: Hanjague to Deep Ledge rMCZ (FS35f) Evidence Review Template

Region	Finding Sanctuary	
Site Name/number	Isles of Scilly: Hanjague to Deep Ledge rMCZ (FS35f)	
ENG Features present and proposed for inclusion within MCZ designation	BSH	<ul style="list-style-type: none"> • High energy intertidal rock • Moderate energy intertidal rock • Intertidal coarse sediment • High energy infralittoral rock • Moderate energy infralittoral rock • Low energy infralittoral rock • High energy circalittoral rock • Moderate energy circalittoral rock • Low energy circalittoral rock • Subtidal sand • Subtidal mixed sediments
	Habitat FOCI	<ul style="list-style-type: none"> • Fragile sponge & anthozoan communities on subtidal rocky habitats • Intertidal under boulder communities
	Species FOCI	<ul style="list-style-type: none"> • <i>Amphianthus dohrnii</i> • <i>Eunicella verrucosa</i> • <i>Leptopsammia pruvoti</i> • <i>Palinurus elephas</i>
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 4 combined MESH/UKSeaMap polygons and 20 MB0102 GB001070 polygons. Point data were available from 2 MESH points. Aerial photography from CCO	MB0102 Combined MESH/UKSeaMap MESH CCO
Moderate energy intertidal rock	No GI Aerial photography from CCO	CCO
Intertidal coarse sediment	The extent of this broad-scale habitat was supported by polygon data derived from 11 Combined MESH/UKSeaMap and MB0102 GB001070 polygons, No point data were available.	MB0102 Combined MESH/UKSeaMap CCO

	Aerial photography from CCO	
High energy infralittoral rock	The presence and extent of this broad-scale habitat was supported by point data derived from 13 MESH points. No polygon data were available.	MESH
Moderate energy infralittoral rock	The presence and extent of this broad-scale habitat was supported by 6 combined MESH/UKSeaMap GB001055 polygons. Point data were available from 8 MESH points.	Combined MESH/UKSeaMap MESH
Low energy infralittoral rock	The 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
High energy circalittoral rock	The presence and extent of this broad-scale habitat was supported by polygon data derived from 1 Cornwall Wildlife Trust polygon. Point data were available from 25 MESH points.	MESH Cornwall Wildlife Trust
Moderate energy circalittoral rock	The presence and extent of this broad-scale habitat was supported by polygon data derived from 2 Combined MESH/UKSeaMap GB001055 polygons, and 1 Cornwall Wildlife Trust polygon. Point data were available from 7 MESH points.	Combined MESH/UKSeaMap MESH Cornwall Wildlife Trust
Low energy circalittoral rock	The 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
Subtidal sand	The presence and extent of this broad-scale habitat was supported by polygon data derived from 9 Combined MESH/UKSeaMap GB000498 polygons. Point data were available from 1 MESH point and 1 Marine recorder-MBA point.	Combined MESH/UKSeaMap Marine recorder-MBA MESH
Subtidal mixed sediments	The presence and extent of this broad-scale habitat was supported by polygon data derived from 7 combined MESH/UKSeaMap GB000498 polygons. Point data were available from 1 MESH point.	Combined MESH/UKSeaMap MESH
Fragile sponge & anthozoan communities on subtidal rocky habitats	The presence and extent of this habitat FOCI was supported by polygon data derived from 7 loS_LG_habitat_poly_NewIntersect polygons. Point data were available from 7 MESH points, 1 HOCI point, 5 Isles of Scilly Wildlife Trust, SeaSearch points, 2 Marine Recorder points and 10 SeaSearch	loS_LG_habitat_poly_NewIntersect MESH Habitat_HOCI_Points_NewIntersect Isles of Scilly Wildlife Trust, SeaSearch Marine Recorder

	Survey points.	SeaSearch Survey
Intertidal under boulder communities	The presence and extent of this habitat FOCI was supported by polygon data derived from 10 SW_Habitat_Mapping_BAP and SW_Habitat_Mapping polygons. No point data were available.	SW_Habitat_Mapping_BAP SW_Habitat_Mapping
<i>Amphianthus dohrnii</i>	The presence and extent of this species FOCI was supported by point data derived from 2 FOCI_April_09_MCZ points, 3 Cornwall_FOCI_Species_NewIntersect points, 1 Marine Recorder point and 3 Non_mobile_Species_NewIntersect points. No polygon data were available.	FOCI_April_09_MCZ Cornwall_FOCI_Species_NewIntersect Marine Recorder Non_mobile_Species_NewIntersect
<i>Eunicella verrucosa</i>	The presence and extent of this species FOCI was supported by point data derived from 23 Cornwall_FOCI_Species_NewIntersect points, 9 Marine Recorder points, 14 Non_mobile_Species_NewIntersect points, 34 FS_Sample_Species_1982_NewIntersect points and 19 FOCI_April_09_MCZ points. No polygon data were available.	Cornwall_FOCI_Species_NewIntersect MarineRecorderSpecies_NewIntersect Non_mobile_Species_NewIntersect FS_Sample_Species_1982_NewIntersect FOCI_April_09_MCZ
<i>Leptopsammia pruvoti</i>	No GI	No GI
<i>Palinurus elephas</i>	The presence and extent of this species FOCI was supported by point data derived from 2 Cornwall_FOCI_Species_NewIntersect points, 2 Marine Recorder points, 3 FS_Sample_Species_1982_NewIntersect points and 3 FOCI_April_09_MCZ points. No polygon data were available.	Cornwall_FOCI_Species_NewIntersect MarineRecorderSpecies_NewIntersect FS_Sample_Species_1982_NewIntersect FOCI_April_09_MCZ

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	Natural England Commissioned Reports, Number 104	High energy circalittoral rock
SW_Habitat_Mapping_BAP SW_Habitat_Mapping polygons	SW_Habitat_Mapping	Intertidal coarse sediment Intertidal under boulder communities
Polygons	Cornwall Wildlife Trust	High energy circalittoral rock Moderate energy circalittoral rock

Data points	Marine Recorder-MBA	Subtidal sand Fragile sponge&anthozoan communities on subtidal rocky habitats
FOCI_April_09_MCZ and Isle of Scilly Wildlife Trust points.	2009 Isles of Scilly Wildlife Trust Seasearch Surveys 2010 Seasearch/MCS Isles of Scilly Surveys	Fragile sponge&anthozoan communities on subtidal rocky habitats <i>Amphianthus dohrnii</i> <i>Eunicella verrucosa</i> <i>Palinurus elephas</i>
Marine BAP Habitats and Species of the Isles of Scilly - an update to the Isles of Scilly Environmental Audit 2008.	Gall, A. (2011)	High energy circalittoral rock

Evidence That Could Not Be Acquired by MB0116 project

No additional evidence identified

Confidence Assessment

Feature	Presence	Extent	Condition	Boundaries (site)
High energy intertidal rock	High	Moderate	Low	Low
Moderate energy intertidal rock	Low	Low	No confidence	
Intertidal coarse sediment	High	Moderate	Low	
High energy infralittoral rock	Low	Low	Low	
Moderate energy infralittoral rock	Low	Low	Low	
Low energy infralittoral rock	Low	Low	Low	
High energy circalittoral rock	Low	Low	Low	
Moderate energy circalittoral rock	Low	Low	Low	
Low energy circalittoral rock	Low	Low	Low	
Subtidal sand	Low	Low	Low	
Subtidal mixed sediments	Low	Low	Low	
Fragile sponge & anthozoan communities on	Moderate	Moderate	Low	

subtidal rocky habitats				
Intertidal under boulder communities	Low	Low	Low	
<i>Amphianthus dohrnii</i>	Moderate	Moderate	Moderate	
<i>Eunicella verrucosa</i>	High	High	Moderate	
<i>Leptopsammia pruvoti</i>	No confidence	No confidence	No confidence	
<i>Palinurus elephas</i>	Moderate	Moderate	Moderate	

No geographic information was available to support the ENG SOCI '*Leptopsammia pruvoti*' therefore, no confidence score was assigned.

Polygon data derived from combined MESH/UKSeaMap GB001055 was available to support the presence of the broad-scale habitats 'Moderate energy infralittoral rock', 'Low energy infralittoral rock' and 'Low energy circalittoral rock', and from combined MESH/UKSeaMap GB000498 to support the presence of the broad-scale habitat 'Subtidal mixed sediments'. No point data were available in support of either 'Low energy infralittoral rock' or 'Low energy circalittoral rock', and hence only a 'low' confidence score could be assigned to the presence and extent of these features.

Eight MESH points were available to verify the presence of the broad-scale habitat 'Moderate energy infralittoral rock' (34% in agreement with broad-scale habitat type), hence confidence in the presence of this habitat was categorised as 'low'. Multiple validation points were available within the polygon of this broad-scale habitat, distributed over more than 50% of the feature. As such, confidence in the extent of this broad-scale habitat was categorised as 'high'. However, the confidence score assigned to extent was reduced to 'low' to reflect the low confidence score assigned to the presence of this feature.

One MESH point was available to support the presence of the broad-scale habitat 'Subtidal mixed sediments', though it fell outside of the feature polygon resulting in confidence in the presence of this feature being categorised as 'low'. No validation points were available to assess the feature's extent and, as such, confidence in the feature's extent was categorised as 'low'.

The presence of the broad-scale habitat 'High energy intertidal rock' was supported by combined MESH/UKSeaMap and MB0102 GB001070 polygons. Two MESH points were also available in support of the feature presence, though they fell outside of the feature polygon however aerial photography confirms the presence of the feature which overlaps with the feature polygons thus resulting in confidence being categorised as 'high'. The photographic coverage was greater than 50% but did not cover more than 90% of the feature polygons and so was assessed as 'moderate'.

The occurrence of the broad-scale habitat 'Intertidal coarse sediment' was supported by combined MESH/UKSeaMap, MB0102 and 'SW_Habitat_Mapping' polygons, however no point data were available. The aerial photography provided evidence of feature presence resulting in a 'high' confidence score, but because the coverage was not greater than 90% the extent score was considered to be 'moderate'.

No polygon data were available in support of the presence of the broad-scale habitat 'High energy infralittoral rock'. Thirteen MESH points were available however to verify presence, resulting in confidence in the presence of this feature being categorised as 'low'. As only point data were available to verify the extent of this broad-scale habitat, confidence could only be assessed as 'low', accordingly.

The presence and extent of the broad-scale habitat 'High energy circalittoral rock' was supported by polygon data derived from the Cornwall Wildlife Trust. 25 MESH points were also available, though they fell outside of the feature polygon resulting in confidence in the presence of this feature being categorised as 'low'. No validation points were available to assess the feature's extent and, as such, confidence was categorised as 'low'.

The presence and extent of the broad-scale habitat 'Moderate energy circalittoral rock' was supported by polygon data derived from combined MESH/UKSeaMap GB001055 and the Cornwall Wildlife Trust. Seven MESH points were also available, though they fell outside of the feature polygon resulting in confidence in the presence of this feature being categorised as 'low'. No validation points were available to assess the feature's extent and, as such, confidence was categorised as 'low'.

The presence and extent of the broad-scale habitat 'Subtidal sand' was supported by polygon data derived from combined MESH/UKSeaMap GB000498. One MESH and 1 Marine Recorder point were also available, though they fell outside of the feature polygon. Therefore, confidence in the presence of this feature was categorised as 'low'. No validation points were available to assess the feature's extent, so confidence was categorised as 'low'.

The presence and extent of the habitat FOCI 'Fragile sponge and anthozoan communities on subtidal rocky habitats' was supported by polygon data derived from 'IoS_LG_habitat_poly_NewIntersect'. Point data were available from 7 MESH points, 1 HOCl point, 5 Isles of Scilly Wildlife Trust (SeaSearch) points, 2 Marine Recorder points and 10 SeaSearch Survey points (64% in agreement with habitat FOCI type), hence confidence in the presence of this habitat FOCI was categorised as 'moderate'. These same 25 points were distributed over more than 50% of the habitat FOCI polygons, and therefore confidence in extent could be categorised as 'high'. However, the confidence score assigned to extent was reduced to 'moderate' to reflect the moderate confidence score assigned to the presence of this feature.

The presence and extent of the habitat FOCI 'Intertidal under boulder communities' was supported by polygon data derived from 'SW_Habitat_Mapping_BAP' and 'SW_Habitat_Mapping'. However, no validating point data were available, therefore, confidence in the presence and extent of this feature were categorised as 'low'.

The occurrence of the species '*Amphianthus dohrnii*' was supported by 9 points derived from 'FOCI_April_09_MCZ', 'Cornwall_FOCI_Species_NewIntersect', Marine Recorder and 'Non_mobile_Species_NewIntersect'. All of these records were less than 12 years old. 5 were collected by specialists, of which 4 were less than 6 years old. As such, confidence in the presence of this species was categorised as 'moderate', and confidence in the extent of the species categorised as 'high'. However, the confidence score assigned to extent was reduced to 'moderate' to reflect the moderate confidence score assigned to the presence of this feature.

The occurrence of the species '*Eunicella verrucosa*' was supported by 99 points derived from, the Isle of Scilly Wildlife Trust, 'FS_Sample_Species_1982_NewIntersect' and 'Non_mobile_Species_NewIntersect'. Forty one of these were collected by specialists, of which 35 records were under 6 years old. As such, confidence in both the presence and extent of this species were categorised as 'high'.

The occurrence of the species '*Palinurus elephas*' was supported by 10 points derived from 'Cornwall_FOCI_Species_NewIntersect', 'FOCI_April_09_MCZ' and SeaSearch. Two of these records were collected by a specialist, so confidence in the presence of this species was categorised as 'moderate'. All records were less than 6 years old, therefore confidence in the extent of the species was categorised as 'high'. However, the confidence score assigned to extent was reduced to 'moderate' to reflect the moderate confidence score assigned to the presence of this feature.

The BSH and HOCI features are not considered highly sensitive to any pressures considered within the MB0102 sensitivity X pressures matrix and hence confidence in condition, based on this, is assessed as low. SOCI *Amphianthus dohrnii*, *Eunicella verrucosa* and *Palinurus elephas* were considered to be sensitive (by project MB0102) to a number of pressures caused by human activities. These species are sensitive to fishing activities that disturb the seabed and these were indicated by evidence gathered through Charting Progress 2 to occur across the site. Confidence in condition is therefore assessed as moderate although it is acknowledged the resolution of this data is fairly coarse.

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'.