

Runswick Bay (NG 11) Evidence Review

Region	Net Gain	
Site Name/number	Runswick Bay NG 11	
ENG Features present and proposed for inclusion within MCZ designation	BSH	<ul style="list-style-type: none"> • High energy infralittoral rock • Moderate energy infralittoral rock • High energy circalittoral rock • Moderate energy circalittoral rock • Subtidal coarse sediment • Subtidal sand • Subtidal mixed sediments
	Habitat FOCI	-
	SOCI	<ul style="list-style-type: none"> • <i>Arctica islandica</i>
ENG Features present but not proposed for inclusion within MCZ designation	BSH	<ul style="list-style-type: none"> • Moderate energy intertidal rock • Low energy intertidal rock • Intertidal sand and muddy sand • Intertidal mud • Intertidal mixed sediments
	Habitat FOCI	<ul style="list-style-type: none"> • Subtidal sands and gravels
	SOCI	-
Non-ENG Features (Geological/geomorphological)		-

Evidence Summary – data provided by Regional MCZ Projects

Feature	Evidence Summary	Key Sources
High energy infralittoral rock	The occurrence of this broad-scale habitat was supported by 11 Combined MESH/UKSeaMap GB001055 polygons and 1 UKSeaMap GB001055 polygon. No point data were available.	UKSeaMap Combined MESH/UKSeaMap
Moderate energy infralittoral rock	The occurrence of this broad-scale habitat was supported by 1 Combined MESH/UKSeaMap GB001055 polygon and 1 predictive modelled UKSeaMap GB001055 polygon. Point data were also available from 2 MESH locations, derived from numerous MNCR surveys.	UKSeaMap Combined MESH/UKSeaMap
High energy circalittoral rock	The occurrence of this broad-scale habitat was supported by 1 Combined MESH/UKSeaMap GB001055 polygon and 1 predictive modelled UKSeaMap GB001055 polygon. Point data were also available from 1 MESH location, derived from MNCR10008184.	UKSeaMap Combined MESH/UKSeaMap

Moderate energy circalittoral rock	The occurrence of this broad-scale habitat was supported by 1 Combined MESH/UKSeaMap GB001055 polygon and 1 predictive modelled UKSeaMap GB001055 polygon. Point data were also available from 2 MESH locations, derived from MNCR surveys.	UKSeaMap Combined MESH/UKSeaMap
Subtidal coarse sediment	The occurrence of this broad-scale habitat was supported by 2 Combined MESH/UKSeaMap GB001055 polygons and 1 UKSeaMap GB001055 polygon. Point data were also available from 1 MESH location, derived from MNCR10008145.	UKSeaMap Combined MESH/UKSeaMap
Subtidal sand	The occurrence of this broad-scale habitat was supported by 3 Combined MESH/UKSeaMap GB001055 polygons and 4 UKSeaMap GB001055 polygons. Point data were also available from 2 MESH locations, derived from MNCR surveys.	UKSeaMap Combined MESH/UKSeaMap
Subtidal mixed sediments	The occurrence of this broad-scale habitat was supported by 2 Combined MESH/UKSeaMap GB001055 polygons and 1 UKSeaMap GB001055 polygon. Point data were also available from 1 MESH location, derived from MNCR10008452.	UKSeaMap Combined MESH/UKSeaMap
<i>Arctica islandica</i>	No polygon data were available to support the presence of this SOCI. The presence of <i>Arctica islandica</i> was supported by 16 point records within the rMCZ. These were derived from a number of projects including NESFC_ICES points and SOCI points provided by Regional Projects NG.	Regional Projects NG.

Description of New Evidence Identified by MB0116 project

No new evidence identified.

Evidence That Could Not Be Acquired by MB0116 project

Evidence Description	Source	Feature
UK National Biodiversity Network. Marine Biological Association - Volunteer sightings data held by the DASSH Data Archive Centre.	MarBef	SOCI
Allen, J.H., 2008. Ecological Assessment of Yorkshire Coast Prohibited Trawling Areas. Report to North Eastern Sea Fisheries Committee, Institute of Estuarine and Coastal	North Eastern Sea Fisheries Committee	Unknown

Studies, University of Hull.		
Begum, S., Basova, L., Strahl, J., Sukhotin, A., Heilmayer, O., Philipp, E., Brey, T. & Abele, D., 2009. A Metabolic Model for the Ocean Quahog <i>Arctica islandica</i> -Effects of Animal Mass and Age, Temperature, Salinity, and Geography on Respiration Rate. <i>Journal of Shellfish Research</i> . 28 (3)	Unknown	<i>Arctica islandica</i>
Kroencke, I., 1995. Long-term changes in North Sea benthos. <i>Senckenbergiana maritima</i> . Frankfurt/Main, 26 (1)	Unknown	Unknown
Schone, B.R., Kroncke, I., Houk, S.D., Castro, A.D.F. and Oschmann, W., 2003. The Cornucopia of chilly winters: ocean quahog (<i>Arctica islandica</i> L., Mollusca) master chronology reveals bottom water nutrient enrichment during colder winters (North Sea). <i>Senckenbergiana maritima</i> , 32 (1/2)	Unknown	<i>Arctica islandica</i>
Bolam, S.G., Barrio-Frojan, C.R.S. and Eggleton, J.D., 2010. Macrofaunal production along the UK continental shelf. <i>Journal of Sea Research</i> , 64 166-179	Christopher.Barrio@cefas.co.uk	Unknown
Kenny, A.J., Rees, H.L. and Lees, R.G., 1991. An inter-regional comparison of gravel assemblages off the English east and south coasts: preliminary results. C.M. - International Council for the Exploration of the Sea, CM 1991 (E:27). ICES [s.l.]. 6 + annexes pp.	Andrew.Kenny@cefas.co.uk	Unknown