

Fulmar (NG 17) Evidence Review

Region	Net Gain	
Site Name/number	Fulmar NG 17	
ENG Features present and proposed for inclusion within MCZ designation	BSH	<ul style="list-style-type: none"> Subtidal coarse sediment Subtidal sand
	Habitat FOCI	<ul style="list-style-type: none"> Subtidal sands and gravels
	SOCI	<ul style="list-style-type: none"> <i>Arctica islandica</i>
ENG Features present but not proposed for inclusion within MCZ designation	BSH	-
	Habitat FOCI	-
	SOCI	<ul style="list-style-type: none"> <i>Gitanopsis bispinosa</i> <i>Ostrea edulis</i> <i>Raja undulate</i>
Non-ENG Features (Geological/geomorphological)		-

Evidence Summary – provided by Regional MCZ Projects

Feature	Evidence Summary	Key Sources
Subtidal coarse sediment	The occurrence of this broad-scale habitat was supported by 2 Combined MESH/UKSeaMap GB001055 polygons and 2 UKSeaMap GB001055 polygons. No point data were available.	UKSeaMap Combined MESH/UKSeaMap
Subtidal sand	The occurrence of this broad-scale habitat was supported by 3 Combined MESH/UKSeaMap GB001055 polygons and 3 UKSeaMap GB001055 polygons	UKSeaMap Combined MESH/UKSeaMap
Subtidal sands and gravels	The occurrence of this habitat FOCI was supported by polygon data derived from 3 Combined MESH/UKSeaMap GB001055 polygons, 3 UKSeaMap GB001055 polygons as well as 1 MB0102 BGS modelled subtidal sands and gravels polygon.	MB0102 Combined MESH/UKSeaMap 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 99 point records within the rMCZ.	MB0102 and Regional Projects NG

Description of New Evidence Identified by MB0116 project

Evidence Description	Source	Feature
C END 12/08 survey	Cefas	Subtidal sand Subtidal sands and gravels
IBTS_CPUE_DATA_MCZ	North Sea International Bottom Trawl Survey	<i>Arctica islandica</i>

	(NS-IBTS)	
Historical Benthos Data From The North Sea And Baltic Sea From 1902-1912	Eurobis	<i>Arctica islandica</i>

Evidence That Could Not Be Acquired by MB0116 project

Evidence Description	Source	Feature
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
Cooper, K.M., Curtis, M., Wan Hussin, W.M.R., Barrio Froján, C.R.S., Defew, E.C., Nye, V. and Patterson, D.M., 2011. Implications of dredging induced changes in sediment particle size composition for the structure and function of marine benthic macrofaunal communities. <i>Marine Pollution Bulletin</i> , 62: 2087-2094.	Keith.Cooper@cefas.co.uk	Unknown
Kingston, P.F. and Rachor, E., 1982. North Sea level bottom communities. <i>International Council for the Exploration of the Sea. C.M.1982/L;41 Biological Oceanography Committee.</i>	ICES	Unknown
30/11b - Halley & Fulmar	Talisman North Sea Ltd	Unknown
30/12b - Halley	Talisman Energy	Unknown
30/16a, b & c - AUK	Maersk Oil North Sea Ltd, Talisman Energy	Unknown
30/16n & t- AUK & AUK North	Talisman Energy, Maersk Oil North Sea Ltd	Unknown

30/17a & c - Janice & James	Maersk Oil UK Ltd, Valiant Exploration Ltd	Unknown
30/18a & b - Orion	Talisman North Sea Ltd, Valiant Exploration Ltd	Unknown
AUK A	Talisman	Unknown
AUK A Oceanographic Buoy	Shell UK	Unknown
Clyde	Talisman	Unknown
Fulmar A & Ad	Talisman	Unknown
Janice Alpha	Maersk	Unknown
Begum, S., Basova, L., Strahl, J., Sukhotin, A., Heilmayer, O., Philipp, E., Brey, T. and 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>
Schone, B.R., Kroencke, 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 maritime</i> , 32(1/2)	Unknown	<i>Arctica islandica</i>
Rumohr, H. and Krost, P., 1991. Experimental evidence of damage to benthos by bottom trawling with special reference to <i>Arctica islandica</i> . <i>Meeresforschung</i> . 33 (4)	Unknown	<i>Arctica islandica</i>