

**European Community Directive
on the Conservation of Natural Habitats
and of Wild Fauna and Flora
(92/43/EEC)**

**Second Report by the United Kingdom under
Article 17
on the implementation of the Directive
from January 2001 to December 2006**

**Conservation status assessment for
Habitat:**

**H1110 - Sandbanks which are slightly covered by
sea water all the time**

The information in this assessment corresponds to the "habitat fact sheet" submitted by the UK to the European Union in February 2008 (second and final submission). Please note that this is a section of the UK's report. For the complete report visit <http://www.jncc.gov.uk/article17>

Please cite as: Joint Nature Conservation Committee. 2007. *Second Report by the UK under Article 17 on the implementation of the Habitats Directive from January 2001 to December 2006*. Peterborough: JNCC. Available from: www.jncc.gov.uk/article17

Habitat Name: Sandbanks which are slightly covered by sea water all the time

1. National level

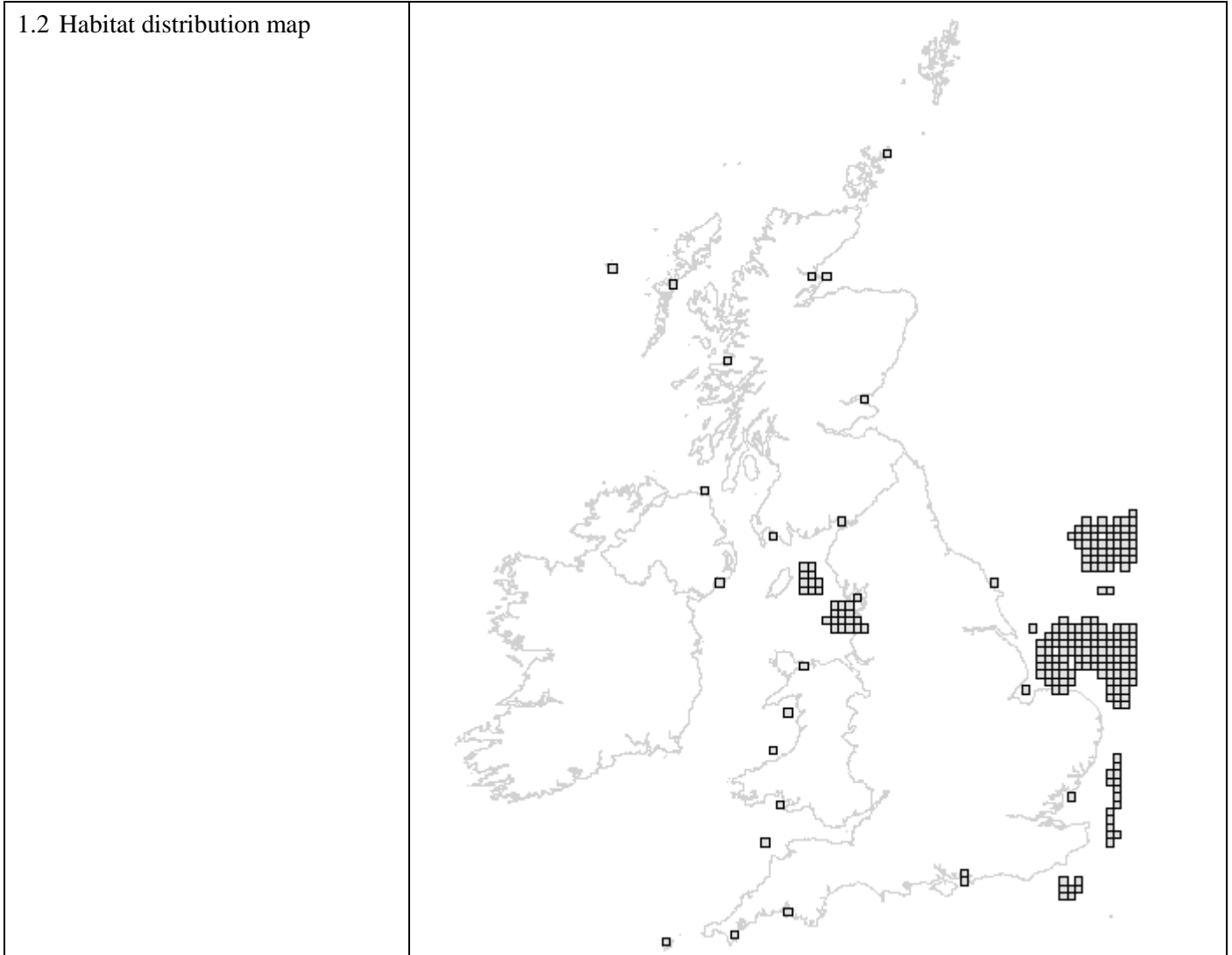
Habitat Code H1110

Member State UK

Biogeographic regions concerned within the MS MATL

1.1 Habitat range map





2. Biogeographic level

2.1 Biogeographic region or marine region
MATL

2.2 Published sources and/or websites

BOYES, S., BURDON, D. AND ELLIOTT, M. 2006 Unlicensed Activities: A review to consider the threats to marine biodiversity: Building the evidence base for the Marine Bill . CRO354 Living Land and Seas Science Division DEFRA.

BROOKER R. & J. YOUNG 2005 Climate change and biodiversity in Europe: a review of impacts, policy responses, gaps in knowledge and barriers to the exchange of information between scientists and policy makers, NERC Centre for Ecology and Hydrology, Banchory research station, Final Report for Defra Research Contract CRO326, Report presented at the European Platform for Biodiversity Research, Strategy meeting held under the UK Presidency, October 2005

BUTCHER, R.W. 1933 Report on the present condition of eelgrass on the coasts of England. MAFF Report

CARLTON, J.T. 1996 Pattern, process, and prediction in marine invasion ecology. *Biological Conservation*, 78, 97–106.

COHEN, A. N. AND CARLTON, J. T. 1998 Accelerating invasion rate in a highly invaded estuary. *Science*, 279, 555–557.

CONNOR, D.W., ALLEN, J.H., GOLDING, N., HOWELL, K.L., LIEBERKNECHT, L.M., NORTHEN, K.O. AND REKER, J.B. 2004 The Marine

Habitat Classification for Britain and Ireland Version 04.05. JNCC Peterborough.

DAVIES, C. 2003 The stability of Helwick Bank, past, present and future).

DAVISON, D.M. 1997 The genus *Zostera* in the UK: A literature review, identifying key conservation, management and monitoring requirements. Environment and Heritage Service Research and Development Series No. 97/12

DEPARTMENT FOR THE ENVIRONMENT 1992 PPG 20: Coastal Planning

DARBYSHIRE, T., MACKIE, A.S.Y., MAY, S.J. & ROSTRON, D. 2003 Macrofaunal Survey of Welsh Sandbanks 2001: CCW Contract Science Report No. 539. 113pp

DE GROOT SJ, LINDEBOOM, HJ 1994 Environmental impact of bottom gears on benthic fauna in relation to natural resources management and protection of the North Sea. Netherlands Institute for Sea Research, Texel

DEN HARTOG, C. 1997 Is *Sargassum muticum* a threat to eelgrass beds? *Aquatic Botany*, 58, 37–41.

Dyer, K.R. and Huntley, D.A. 1997 The origin, classification and modelling of sand banks and ridges
Continental Shelf Research, 19 (10), 1285-1330.

ELLIOTT, M., NEDWELL, S., JONES, N.V., READ, S.J., CUTTS, N.D. AND HEMINGWAY, K.L. 1998 Intertidal sand and mudflats and subtidal mobile sandbanks (Volume ii). An overview of dynamic and sensitivity characteristics for conservation and management of marine SACs. Scottish Association of Marine Science (UK Marine SACs project)

EUROPEAN COMMISSION 2006 Proposal for Updating the Interpretation Manual of European Union Habitats with three new definitions for the marine habitat types listed in Annex I of the 92/43 Habitats Directive: 1110 Sandbanks which are slightly covered by sea water all the time, 1170 Reefs, and 1180 Submarine structures made by leaking gases.

GIESEN, W.B.J.T., VAN KATWIJK, M.M AND DEN HARTOG, C. 1990 Temperature, salinity, isolation and wasting disease of eelgrass beds in the Dutch Wadden Sea in the 1930s. *Netherlands Journal of Sea Research*, 25, 395-404.

HAYS, G.C., RICHARDSON, A.J & ROBINSON, C. 2005 Climate change and marine plankton. *Trends in Ecology and Evolution*, 20 (6), 337-344.

HISCOCK, K., SEWELL, J. & OAKLEY, J. 2005 MARINE HEALTH CHECK 2005. A report to gauge the health of the UK's sea-life. Godalming, WWF-UK.

INTERNATIONAL MARITIME ORGANIZATION 2004 International Convention for the Control and Management of Ships' Ballast Water and Sediments.
http://www.imo.org/Conventions/mainframe.asp?topic_id=867

JACKSON, D.L. & MCLEOD, C.R. (EDITORS), 2000 Handbook on the UK status of EC Habitats Directive interest features: provisional data on the UK distribution and extent of Annex I habitats and the UK distribution and population size of Annex II species, Revised 2002, JNCC Report 312, 180 pages, ISSN 0963 8091

JACKSON, J.B.C., KIRBY, M.X., BERGER, W.H., BJORNDAL, K.A.,

BOTSFORD, L.W., BOURQUE B.J., BRADBURY, R.H., COOKE, R., ERLANDSON, J., ESTES, J.A., HUGHES, T.P., KIDWELL, S., LANGE, C.B., LENIHAN, H.S., PANDOLFI, J. M., PETERSON, C.H., STENECK, R.S., TEGNER, M.J. AND WARNER, R.R. 2001 Historical Overfishing and the Recent Collapse of Coastal Ecosystems. *Science*, 293, 561-748.

JNCC 2004 Common Standards Monitoring Guidance for Generic Introduction for Marine Feature Guidance, ISSN 1743-8160 (online)

KAISER, M.J. AND SPENCER, B.E. 1996 The effects of beam-trawl disturbance on infaunal communities in different habitats. *Journal of Animal Ecology*, 65, 348-358.

KAISER M.J., CHENEY K., SPENCE F.E., EDWARDS D.B. & RADFORD K 1999 Fishing effects in northeast Atlantic shelf seas: patterns in fishing effort, diversity and community structure. VII. The effects of trawling disturbance on the fauna associated with the tubeheads of serpulid worms. *Fisheries Research*, 40, 195-205.

LAFFOLEY, D. AND TASKER, M. 2004 Marine Environment Analytical paper produced to support the report Net Benefits – a sustainable and profitable future for UK fishing.

OSPAR 2000 Quality Status Report 2000 Chapter 5 - Biology
<http://www.ospar.org/eng/html/welcome.html>

ROGERS, S.I. & ELLIS, J.R., 2000 Changes in demersal fish assemblages of British coastal waters during the 20th century. *ICES Journal of Marine Science*, 57, 866-881.

ROYAL COMMISSION ON ENVIRONMENTAL POLLUTION 2004 Turning the Tide: Addressing the Impact of Fisheries on the Marine Environment, Twenty Fifth Report.

RUIZ GM, CARLTON JT, GROSHOLZ ED, HINES AH 1997 Global invasions of marine and estuarine habitats by non-indigenous species: Mechanisms, extent, and consequences. *American Zoologist*, 37,621–632

RUIZ GM, FOFONOFF PW, CARLTON JT, ET AL. 2000 Invasion of coastal marine communities in North America: apparent patterns, processes, and biases. *Annual Review of Ecology and Systematics*, 31, 481–531.

RUMOHR, H. & KUJAWSKI, T. 2000 The impact of trawl fishery on the epifauna of the southern North Sea. *ICES Journal of Marine Science*, 52, 1389-1394.

SCOTTISH EXECUTIVE 1997 NPPG 13: Coastal Planning.

SHORT, F.T., MATHIESON, A.C. AND NELSON, J.I. 1986 Recurrence of the eelgrass wasting disease at the border of New Hampshire and Maine, USA. *Marine Ecology Progress Series*, 29, 98-92.

STANSBY, P, CUI-PING KUANG, C.P., LAURENCE, D AND LAUNDER, B. 2006 Sandbanks for coastal protection: implications of sea-level rise Part 1: Application to East Anglia. Tyndall Centre Working Paper No. 86

UK BIODIVERSITY ACTION PLAN 2006a Habitat Action Plan: Seagrass Beds,
<http://www.ukbap.org.uk/ukplans.aspx?ID=35>

	<p>UK BIODIVERSITY ACTION PLAN 2006b Habitat Action Plan: Maerl Beds, http://www.ukbap.org.uk/UKPlans.aspx?ID=40</p> <p>WELSH ASSEMBLY 1998 TAN 14: Coastal Planning</p> <p>WHELAN, P.M. AND CULLINANE, J.P. 1987 The occurrence of wasting disease of <i>Zostera</i> in Ireland in the 1930s. <i>Aquatic Botany</i>, 27, 285-289.</p> <p>WILLIAMS, J.M., (ED). 2006 Common Standards Monitoring for Designated Sites: First Six Year Report. Peterborough, JNCC.</p>
2.3 Range of the habitat within the Biogeographic or marine region	
2.3.1 Surface area of range in square km	66127
2.3.2 Date of range determination	05/2007
2.3.3 Quality of data concerning range	Moderate
2.3.4 Range trend	Stable (=)
2.3.5 Range trend magnitude in %	Not applicable
2.3.6 Range trend period	1994-2006
2.3.7 Reasons for reported trend	Not applicable
2.4 Area covered by habitat type within the range in the biogeographical region concerned.	
2.4.1 Surface area of the habitat type (sq km)	7331
2.4.2 Date of area estimation	05/2007
2.4.3 Method used for area estimation	2 - Based on remote sensing data
2.4.4 Quality of data on area	Moderate
2.4.5 Area trend	Unknown (X)
2.4.6 Area trend magnitude in %	Not applicable
2.4.7 Area trend period	1994-2006
2.4.8 Reasons for reported trend	Not applicable
2.4.9 Justification of % thresholds for trends (optional)	Not applicable
2.4.10 Main pressures	200 - Fish and Shellfish Aquaculture; 210 - Professional fishing; 212 - trawling; 213 - drift-net fishing; 220 - Leisure fishing; 300 - Sand and gravel extraction; 320 - Exploration and extraction of oil or gas; 400 - Urbanised areas, human habitation; 410 - Industrial or commercial areas; 420 - Discharges; 504 - port areas; 510 - Energy transport; 512 - pipe lines; 520 - Shipping; 700 - Pollution; 701 - water pollution; 850 - Modification of hydrographic functioning, general; 851 - modification of marine currents; 860 - Dumping, depositing of dredged deposits; 871 - sea defense or coast protection works; 900 - Erosion; 952 - eutrophication; 954 - invasion by a species; 960 - Interspecific faunal relations; 969 - other forms or mixed forms of interspecific faunal competition; 973 - introduction of disease; 974 - genetic pollution;

2.4.11 Threats	200 - Fish and Shellfish Aquaculture; 210 - Professional fishing; 212 - trawling; 213 - drift-net fishing; 220 - Leisure fishing; 300 - Sand and gravel extraction; 320 - Exploration and extraction of oil or gas; 400 - Urbanised areas, human habitation; 410 - Industrial or commercial areas; 420 - Discharges; 504 - port areas; 510 - Energy transport; 512 - pipe lines; 520 - Shipping; 700 - Pollution; 701 - water pollution; 850 - Modification of hydrographic functioning, general; 851 - modification of marine currents; 860 - Dumping, depositing of dredged deposits; 871 - sea defense or coast protection works; 900 - Erosion; 954 - invasion by a species; 960 - Interspecific faunal relations; 969 - other forms or mixed forms of interspecific faunal competition; 973 - introduction of disease; 974 - genetic pollution;
Complementary information	
2.5.1 Favourable reference range (sq km)	66127
2.5.2 Favourable reference area (sq km)	7331
2.5.3 Typical species	none listed
2.5.4 Typical species assessment	Not applicable
2.5.5 Other relevant information	
2.6 Conclusions (assessment of conservation status at end of reporting period)	
(2.3) Range	(FV) - Favourable
(2.4) Area	(FV) - Favourable
(2.5) Specific structures and functions (incl. typical species)	(U2-) - Bad and deteriorating
Future prospects	(U2-) - Bad and deteriorating
Overall assessment	(U2-) - Bad and deteriorating