

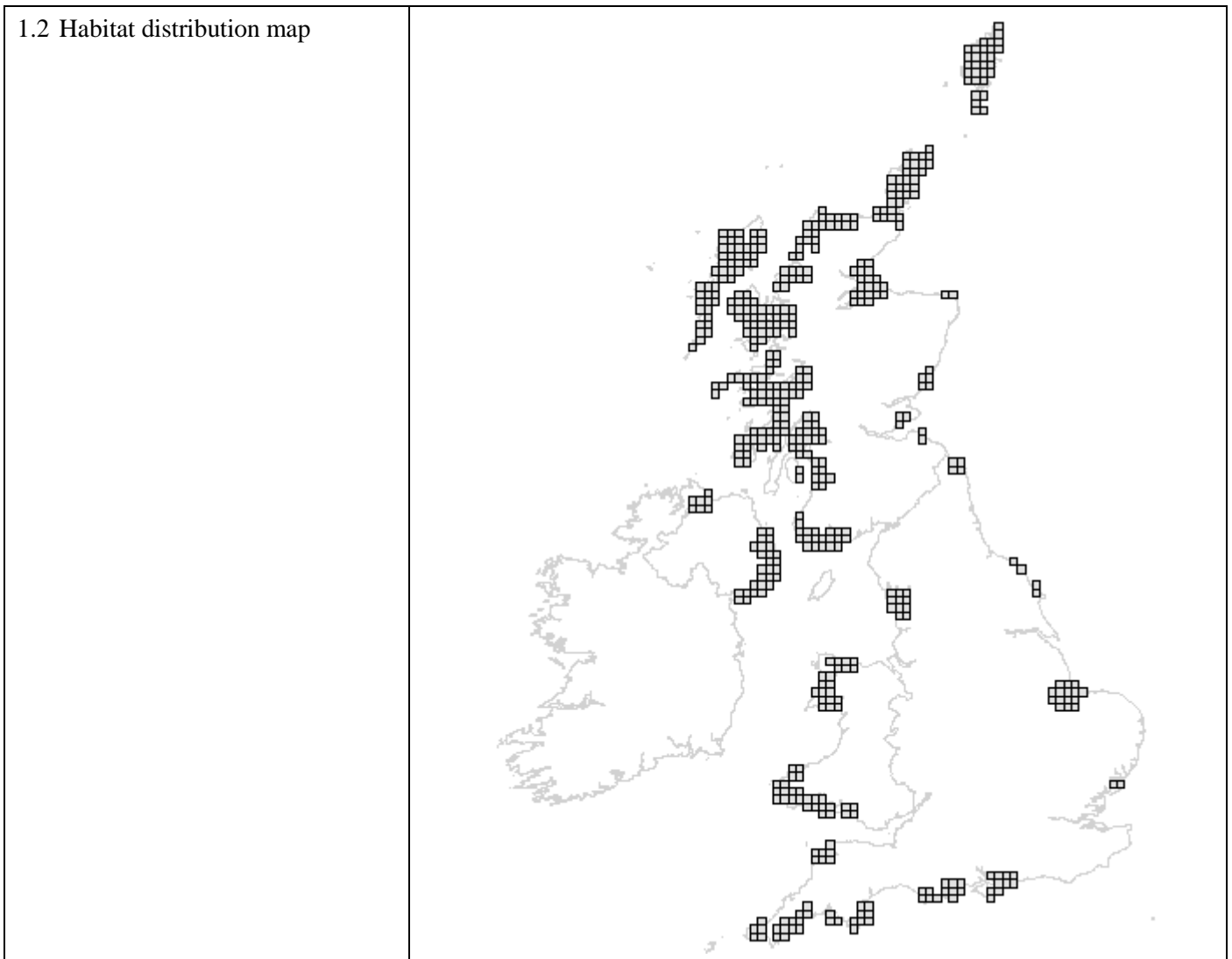
**European Community Directive
on the Conservation of Natural Habitats
and of Wild Fauna and Flora
(92/43/EEC)**

**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:
H1160 - Large shallow inlets and bays**

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



2. Biogeographic level

2.1 Biogeographic region or marine region	ATL
---	-----

2.2 Published sources and/or websites	<p>BOORMAN, L.A.; GOSS-CUSTARD, J.D.; MCGRORTY, S. 1989 Climatic change, rising sea level and the British coast, ITE Research Publication No. 1</p> <p>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.</p> <p>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</p> <p>BUTCHER, R.W. 1933 Report on the present condition of eelgrass on the coasts of England. MAFF Report</p> <p>CARLTON, J.T. 1996 Pattern, process, and prediction in marine invasion ecology. <i>Biological Conservation</i>, 78, 97–106.</p> <p>COHEN, A. N. AND CARLTON, J. T. 1998 Accelerating invasion rate in a highly invaded estuary. <i>Science</i>, 279, 555–557.</p>
---------------------------------------	---

CONNOR, D.W., GOLDING, N, ROBINSON, P., TODD, D., AND VERLING, E. 2006. UKSeaMap: The mapping of marine seabed and water column features of UK seas. Final report. Joint Nature Conservation Committee, Peterborough.

DAVIDSON, N.C. ET AL 1991 Nature conservation and estuaries in Great Britain. Peterborough, Nature Conservancy Council.

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

DEFRA 2005 Physical processes and climate changes and effects, Integrated assessment, in Charting Progress 5: Integrated regional assessment

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

DEPARTMENT FOR THE ENVIRONMENT 1992 PPG 20: Coastal Planning

ENVIRONMENT AGENCY 2006a The Water Framework Directive (WFD)
<http://www.environment-agency.gov.uk/business/444217/444663/955573/>

ENVIRONMENT AGENCY 2006b Generation and combination of risk outputs.
http://www.environment-agency.gov.uk/commondata/acrobat/gen_comb_risk_v2_1008518.pdf

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.

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. (EDS) 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.

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>

PYE, K. AND FRENCH, P.W. 1993. Targets for coastal habitat recreation. English Nature Science 13. English Nature: Peterborough

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. 2000 Invasion of coastal marine communities in North America: apparent patterns, processes, and biases. *Annual Review of Ecology and Systematics*, 31, 481–531.

SCOTTISH EXECUTIVE 1997 NPPG 13: Coastal Planning.

SEWELL, J. & HISCOCK, K. 2005 Effects of fishing within UK European Marine Sites: guidance for nature conservation agencies. Report to the Countryside Council for Wales, English Nature and Scottish Natural Heritage from the Marine Biological Association. Plymouth: Marine Biological Association. CCW Contract FC 73-03-214A. 195 pp.

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.

WELSH ASSEMBLY 1998 TAN 14: Coastal Planning

WHELAN, P.M. AND CULLINANE, J.P. 1987 The occurrence of wasting disease of *Zostera* in Ireland in the 1930s. *Aquatic Botany*, 27, 285-289.

WILLIAMS, J.M 2006 Common Standards Monitoring for Designated Sites: First Six Year Report. Peterborough, JNCC.

UKBAP 2006 2005 Lead Partner Reporting,
<http://www.ukbap.org.uk/GenPageText.aspx?id=105>

2.3 Range of the habitat within the Biogeographic or marine region

2.3.1 Surface area of range in square km	7646
2.3.2 Date of range determination	05/2007
2.3.3 Quality of data concerning range	Good
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)	7645.6
2.4.2 Date of area estimation	05/2007
2.4.3 Method used for area estimation	3 - Ground based survey
2.4.4 Quality of data on area	Good
2.4.5 Area trend	Stable (=)
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; 211 - fixed location fishing; 212 - trawling; 220 - Leisure fishing; 221 - bait digging; 240 - Taking / Removal of fauna, general; 250 - Taking / Removal of flora, general; 300 - Sand and gravel extraction; 302 - removal of beach materials; 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; 600 - Sport and leisure structures; 621 - nautical sports; 700 - Pollution; 701 - water pollution; 800 - Landfill, land reclamation and drying out, general; 801 - polderisation; 802 - reclamation of land from sea, estuary or marsh; 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;
2.4.11 Threats	200 - Fish and Shellfish Aquaculture; 210 - Professional fishing; 211 - fixed location fishing; 212 - trawling; 220 - Leisure fishing; 221 - bait digging; 240 - Taking / Removal of fauna, general; 250 - Taking / Removal of flora, general; 300 - Sand and gravel extraction; 302 - removal of beach materials; 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; 600 - Sport and leisure structures; 621 - nautical sports; 700 - Pollution; 701 - water pollution; 800 - Landfill, land reclamation and drying out, general; 801 - polderisation; 802 - reclamation of land from sea, estuary or marsh; 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;
Complementary information	
2.5.1 Favourable reference range (sq km)	7646
2.5.2 Favourable reference area (sq km)	7645.6
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