

**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:
H8330 - Submerged or partially submerged sea
caves**

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>

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Habitat Name: Submerged or partially submerged sea caves

1. National level

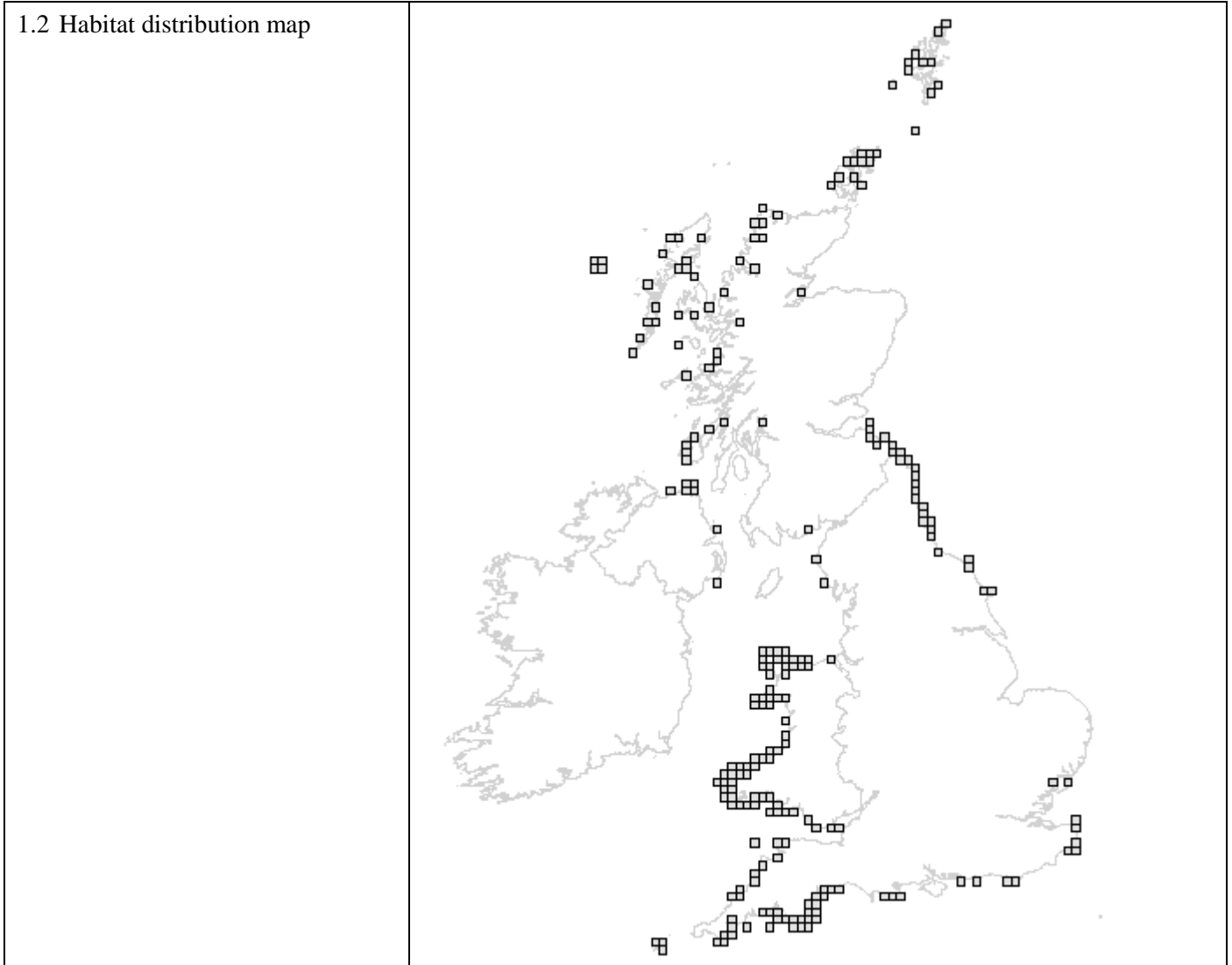
Habitat Code H8330

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

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

BUNKER, F. ST. P. D.; HOLT, R. H. F. 2003 Surveys of sea caves in Welsh Special Areas of Conservation, CCW Marine Monitoring Report No: 6

BURDON, D & S BOYES (unpublished) Intertidal Monitoring of Sea Caves, Pen Llyn a'r Sarnau SAC in 2004, Report to CCW

CCW 2005 Pembrokeshire Marine European Marine Site, Advice Provided by the Countryside Council for Wales in Fulfilment of Regulation 33 of the Conservation (Natural Habitats, &c.) Regulations 1994, Issue 1.0 April 2005

CEFAS 2001 A Review of Existing Consents for the Sea Disposal of Dredged Material, as required under the Conservation (Natural Habitats &c) Regulations, 1994 CEFAS Contract report AA001 cSAC Review Series: Report No. 2 February 2001

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

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

DEPARTMENT OF ENVIRONMENT 1992 Planning Policy Guidance: Coastal Planning
http://www.communities.gov.uk/pub/94/PlanningPolicyGuidance20CoastalplanningPDF88Kb_id1144094.pdf

ENVIRONMENT AND RESOURCE TECHNOLOGY LTD 1997 Survey, assessment and mapping of submerged and partly submerged sea caves in the Berwickshire and Northumberland Coast cSAC, Final Report for Scottish Natural Heritage

EUROPEAN COMMISSION 2003 Interpretation manual of European Union habitats (version EUR25). DG Environment, Brussels.

GEORGE, J. D., TITTLE, I. & WOOD, E. 1995 The chalk coasts of Great Britain: biotopes and conservation assessment. Joint Nature Conservation Committee Report, unpublished

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

HOWSON, C. 2000 Flamborough Head cSAC sea cave survey, English Nature Research Reports

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

JNCC 2004 Common Standards Monitoring Guidance, Version August 2004 Updated from (February 2004) ISSN 1743-8160 (online)

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

SCOTTISH EXECUTIVE 2006 National Planning Policy Guidance 13 - Coastal Planning,
<http://www.scotland.gov.uk/Publications/1997/08/nppg13-coastal>

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.

TITTLE, I.; SPURRIER, C.J.H.; CHIMONIDES, P.J.; GEORGE, J.D.; MOORE, J.A.; EVANS, N.J.; MUIR, A.I. 1998 Survey of chalk cave, cliff, intertidal

	<p>and subtidal reef biotopes in the Thanet Coast cSAC, English Nature Research Reports</p> <p>UKBAP 2006 Habitat Action Plan, Littoral and sublittoral chalk http://www.ukbap.org.uk/UKPlans.aspx?ID=31</p> <p>WELSH ASSEMBLY GOVERNMENT 1998 Technical Advice Note (Wales) 14, March 1998 http://new.wales.gov.uk/docrepos/40371/403823112/40382/40382/403821/403824/TAN_14_Full.doc?lang=en&ts=4</p>
2.3 Range of the habitat within the Biogeographic or marine region	
2.3.1 Surface area of range in square km	22500
2.3.2 Date of range determination	05/2007
2.3.3 Quality of data concerning range	Poor
2.3.4 Range trend	Unknown (X)
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)	Unknown
2.4.2 Date of area estimation	05/2007
2.4.3 Method used for area estimation	
2.4.4 Quality of data on area	Poor
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	<p>290 - Hunting, fishing or collecting activities not referred to above; 300 - Sand and gravel extraction; 300 - Sand and gravel extraction; 400 - Urbanised areas, human habitation; 410 - Industrial or commercial areas; 420 - Discharges; 503 - railway lines, TGV; 504 - port areas; 700 - Pollution; 701 - water pollution; 709 - other forms or mixed forms of pollution; 720 - Trampling, overuse; 800 - Landfill, land reclamation and drying out, general; 860 - Dumping, depositing of dredged deposits; 871 - sea defense or coast protection works; 952 - eutrophication; 954 - invasion by a species; 960 - Interspecific faunal relations; 970 - Interspecific floral relations; 974 - genetic pollution;</p>

2.4.11 Threats	290 - Hunting, fishing or collecting activities not referred to above; 400 - Urbanised areas, human habitation; 410 - Industrial or commercial areas; 420 - Discharges; 503 - railway lines, TGV; 504 - port areas; 700 - Pollution; 701 - water pollution; 709 - other forms or mixed forms of pollution; 720 - Trampling, overuse; 800 - Landfill, land reclamation and drying out, general; 860 - Dumping, depositing of dredged deposits; 900 - Erosion; 930 - Submersion; 943 - collapse of terrain, landslide; 952 - eutrophication; 954 - invasion by a species; 960 - Interspecific faunal relations; 970 - Interspecific floral relations; 974 - genetic pollution;
Complementary information	
2.5.1 Favourable reference range (sq km)	Unknown
2.5.2 Favourable reference area (sq km)	Unknown
2.5.3 Typical species	<i>Apogon imberbis</i> ; <i>Apus pallidus</i> ; <i>Phalacrocorax aristotelis desmarestii</i> ; <i>Ptyonoprogne rupestris</i> ;
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	(XX) - Unknown
(2.5) Specific structures and functions (incl. typical species)	(XX) - Unknown
Future prospects	(XX) - Unknown
Overall assessment	(XX) - Unknown