

**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:
H2190 - Humid dune slacks**

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: Humid dune slacks

1. National level

Habitat Code H2190

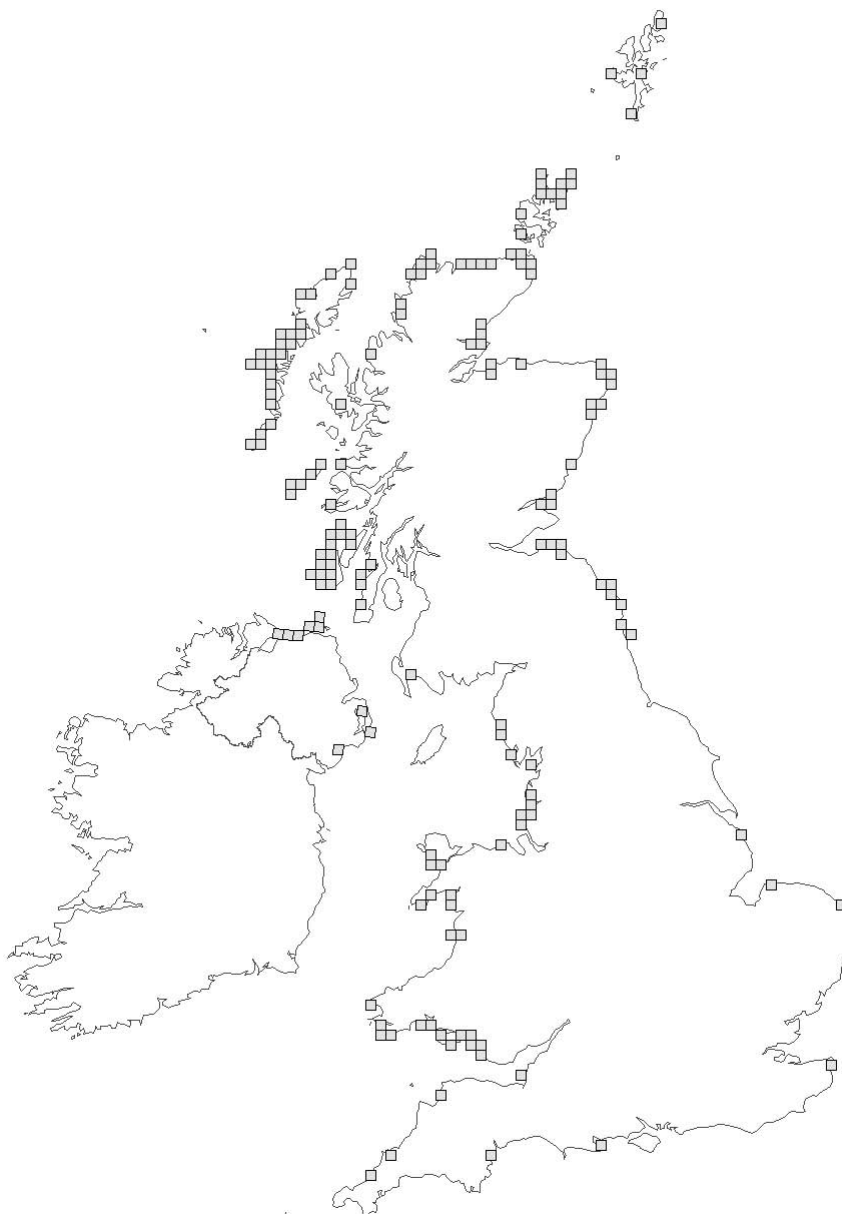
Member State UK

Biogeographic regions concerned within the MS ATL

1.1 Habitat range map



1.2 Habitat distribution map



2. Biogeographic level

2.1 Biogeographic region or marine region

ATL

2.2 Published sources and/or websites

AIR POLLUTION INFORMATION SYSTEM 2004 www.apis.ceh.ac.uk

CLARKE D. (Viewed 23/1/07). Climate change and the Water Balance in coastal aquifers, School of Civil Engineering and the Environment University of Southampton.

<http://www.civil.soton.ac.uk/research/researchcents.asp?ResearchCentreID=3&ResearchGrantID=617>

DARGIE, T. 1993. Sand dune vegetation survey of Great Britain. Part 3 – Wales. Joint Nature Conservation Committee, Peterborough.

DARGIE, T. 1994. Sand dune vegetation survey of Great Britain. Part 2 – Scotland. Joint Nature Conservation Committee, Peterborough

DARGIE, T. 2002. Ecological assessment of *Hippophae rhamnoides*. A report to

English Nature (East Midlands Team). EN contract 12.5.2-2.

DARGIE, T. 2002. Sand dune vegetation survey of Scotland: National report. SNH Research, Survey and Monitoring Report series. Scottish Natural Heritage, Battleby.

DAVY, A.J et al 2006 Development of eco-hydrological guidelines for dune habitats – phase 1 English Nature Research Report 696 Peterborough

Haines-Young, R.H et al. 2000 Accounting for nature: assessing habitats in the UK countryside. DETR, Rotherham.

HOLLINGHAM, M. 2005. Presentation on the Hydrology of the Warren for the Habitats and Species Group Meeting of the Newborough Warren Liaison Partnership.
<http://www.bangor.ac.uk/~azs808/NewbroLPpresent.htm>

HOLLINGHAM M. 2007. Comments on the CEH Preliminary Hydrological Review for the Newborough Liaison Partnership & Hydrological monitoring report for Newborough June-December 2006 m.hollingham@gmail.com

JACKSON, D.L & MCLEOD, C.R (eds.) 2002 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. JNCC Report no. 312. Version 2. www.jncc.gov.uk/page-2447

JOINT NATURE CONSERVATION COMMITTEE 2005 Common Standards Monitoring (CSM). Joint Nature Conservation Committee, Peterborough
www.jncc.gov.uk/page-2217

JONES M.L.M et al 2002. Changing nutrient budget of sand dunes: consequences for the nature conservation interest and dune management CEH, Bangor

JONES M.L.M et al. 2004. Changes in vegetation and soil characteristics in coastal sand dunes along a gradient of atmospheric nitrogen deposition *Plant Biology* 6, 598-605

JONES M.L.M et al. 2005. Determining a nitrogen budget for Merthyr Mawr sand dune system: final report CEH, Bangor

MCLEOD, C.R, YEO, M, BROWN, A.E, BURN, A.J, HOPKINS, J.J, & WAY, S.F (eds.) 2007 The Habitats Directive: selection of Special Areas of Conservation in the UK. 2nd edn. Joint Nature Conservation Committee, Peterborough
www.jncc.gov.uk/SACselection

RADLEY, G.P. 1994. Sand dune vegetation survey of Great Britain. Part 1-England. Joint Nature Conservation Committee, Peterborough.

RANWELL, D.S. 1959. Newborough Warren Anglesey. I. The dune system and dune slack habitat. *Journal of Ecology*, 47, 571-601.

RANWELL, D.S. 1960. Newborough Warren Anglesey. II. Plant associates and succession cycles of the sand dune and dune slack vegetation. *Journal of Ecology*, 48, 117-141.

ROBINS, N. 2007. Conceptual flow model and changes with time at Braunton Burrows coastal dunes [Draft]. Report to Natural England. British Geological Survey, Wallingford.

	<p>RODWELL J.S. (ed.) 2000. British Plant Communities. Volume 5 Maritime communities and vegetation of open habitats. Cambridge University Press.</p> <p>SMITH, P. 1992. The sands of time. National Museums and Galleries on Merseyside in association with Sefton Metropolitan Borough Council.</p> <p>STRATFORD C., HUGHES A., ROBERTS J., ROBINS N. 2006 Review of Hydrological Reports for Newborough Warren NNR, Anglesey. CEH, Wallingford.</p> <p>Map data sources</p> <p>British Plant Communities.1995. Volumes 1-5. Cambridge University Press, Cambridge</p> <p>Coastal vegetation survey of Northern Ireland. 1992. University of Lancaster, Unit of Vegetation Science</p> <p>Inter-agency Coastal Specialist Working Group. 1999</p> <p>JNCC International Designations Database. Joint Nature Conservation Committee</p> <p>Pete Jones (pers. comm.) Countryside Council for Wales</p> <p>Sand Dune Database. 1995. Joint Nature Conservation Committee</p> <p>Sand dune vegetation survey of Scotland. Scottish Natural Heritage</p>
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2.3 Range of the habitat within the Biogeographic or marine region

2.3.1 Surface area of range in square km	1754
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)	18.12
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	Moderate
2.4.5 Area trend	Decreasing (-)
2.4.6 Area trend magnitude in %	Unknown
2.4.7 Area trend period	1994-2006
2.4.8 Reasons for reported trend	3 - Direct human influence; 4 - Indirect anthropo or zoogenic influence; 5 - Natural processes;

2.4.9 Justification of % thresholds for trends (optional)	Not applicable
2.4.10 Main pressures	140 - Grazing; 162 - Artificial planting; 302 - removal of beach materials; 400 - Urbanised areas, human habitation; 410 - Industrial or commercial areas; 421 - disposal of household waste; 422 - disposal of industrial waste; 622 - walking, horseriding and non-motorised vehicles; 623 - motorised vehicles; 702 - air pollution; 853 - management of water levels; 871 - sea defense or coast protection works; 900 - Erosion; 920 - Drying out;
2.4.11 Threats	140 - Grazing; 702 - air pollution; 900 - Erosion; 920 - Drying out; 930 - Submersion; 950 - Biocenotic evolution; 990 - Other natural processes;
Complementary information	
2.5.1 Favourable reference range (sq km)	1754
2.5.2 Favourable reference area (sq km)	20
2.5.3 Typical species	<i>Centaurium pulchellum</i> ; <i>Rubus caesius</i> ; <i>Sagina nodosa</i> ; <i>Senecio erucifolius</i> ; <i>Trifolium fragiferum</i> ;
2.5.4 Typical species assessment	Change in 10km square occupancy over last 25yrs
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	(U1-) - Inadequate and deteriorating
(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