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

Fourth Report by the United Kingdom under Article 17

on the implementation of the Directive from January 2013 to December 2018

Conservation status assessment for the habitat:

H1330 - Atlantic salt meadows (Glauco-Puccinellietalia maritimae)

UNITED KINGDOM

IMPORTANT NOTE - PLEASE READ

- The information in this document represents the UK Report on the conservation status of this habitat, submitted to the European Commission as part of the 2019 UK Reporting under Article 17 of the EU Habitats Directive.
- It is based on supporting information provided by the geographically-relevant Statutory Nature Conservation Bodies, which is documented separately.
- The 2019 Article 17 UK Approach document provides details on how this supporting information contributed to the UK Report and the fields that were completed for each parameter.
- The reporting fields and options used are aligned to those set out in the European Commission guidance.
- Maps showing the distribution and range of the habitat are included (where available).
- Explanatory notes (where provided) are included at the end. These provide additional audit trail information to that included within the UK assessments. Further underpinning explanatory notes are available in the related country-level and/or UK offshorelevel reports.
- Some of the reporting fields have been left blank because either: (i) there was insufficient information to complete the field; and/or (ii) completion of the field was not obligatory.
- The UK-level reporting information for all habitats and species is also available in spreadsheet format.

Visit the JNCC website, https://jncc.gov.uk/article17, for further information on UK Article 17 reporting.

NATIONAL LEVEL

1. General information

1.1 Member State	UK
1.2 Habitat code	1330 - Atlantic salt meadows (Glauco-Puccinellietalia maritimae)

2. Maps

2.1 Year or period	1989-2018
2.3 Distribution map	Yes
2.3 Distribution map Method used	Based mainly on extrapolation from a limited amount of data
2.4 Additional maps	No

BIOGEOGRAPHICAL LEVEL

3. Biogeographical and marine regions

3.1 Biogeographical or marine region where the habitat occurs

3.2 Sources of information

Atlantic (ATL)

England

EA. 2016. SKIPPER: Saltmarsh Key Indicators Processed Precisely and Estimated Robustly (V1.1) provides data on 39 WFD surveillance water bodies in England. Janssen, J.A.M.. Rodwell, J.S Garcia M Criado, S. Gubbay, S. Haynes, T, A. Nieto, A., Sanders, N Landucci, F. Loidi, J Ssymank, A. Tahvanainen, T. Valderrabano, M Acosta, A Aronsson, M. Arts, G Attorre, F. Bergmeier, E Bijlsma, R-J. Bioret, F. Bita-Nicolae, C. Biurrun, I. Calix, M. Capelo, J. Carni, A Chytry, M. Dengler, J. Dimopoulos, P. Essl, F. Gardfjell, H. Gigante, D Giusso del Galdo, G. Hajek, M. Jansen, F. Jansen, J. Kapfer, J. Mickolajczak, A Molina, J A. Molnar, Z. Paternoster, D. Piernik, A. Poulin, B. Renaux, B Schaminee, JHJ. Sumberova, K Toivonen, H. Tonteri, T. Tsiripidis, I. Tzonev R and Valachovic, M. 2016 European Red List of Habitats: Part 2 Terrestrial & Freshwater Habitats. European Commission, DG **Environment**

http://ec.europa.eu/environment/nature/knowledge/pdf/terrestrial_EU_red_list _report.pdf

Natural England. 2015. Coastal management theme plan (IPENS TP019) http://publications.naturalengland.org.uk/publication/6371629661683712?categ ory=5605910663659520

Miles. R and Richardson. N. 2018. Sustainable Shores Technical Report. Royal Society for the Protection of Birds.

Mossman, H, Grant, A, Davy, A. 2013. Implications of climate change for coastal and intertidal habitats in the UK.

http://www.lwec.org.uk/sites/default/files/Coastal habitats.pdf

Brew, D. 2016. Healthy Estuaries 2020: Towards Addressing Coastal Squeeze in Estuaries. Improvement Programme for England's Natura 2000 Sites (IPENS) -Planning for the Future IPENS002

http://publications.naturalengland.org.uk/publication/4734703644966912?categ ory=6337991412809728

Lush, M. J., Haynes T. A. and Lush C. E. 2016. Spartina anglica and its management in estuarine Natura 2000 sites: an update of its status and monitoring future change in England. Improvement Programme for England's Natura 2000 Sites (IPENS) - Planning for the Future IPENS041 http://publications.naturalengland.org.uk/publication/5109184527859712?categ

ory=43007

Abrehart, T. R. and Jackson, R. L. 2013. An NVC of the Alde-Ore Estuary SSSI, Suffolk. An ecological survey including flora and fauna observations undertaken for Natural England by Abrehart Ecology.: Abrehart Ecology

C. Hambidge, N. Phelan 2014. Saltmarsh mapping standardisation for the Water Framework Directive. NMBAQCS. http://www.nmbaqcs.org/qa-standards/Beaumont, N. J., Jones, L., Garbutt, A., Hansom, J. D., and Toberman, M. 2014. The value of carbon sequestration and storage in coastal habitats. Estuarine, Coastal and Shelf Science, 137, 32-40.

Best, M., Massey, A & Prior, A .2007. Developing a saltmarsh classification tool for the European water framework directive, Marine Pollution Bulletin, Volume 55, 205-214

Phelan, N., Shaw, A., Baylis, A. 2011. The extent of saltmarsh in England and Wales: 2006-2009. Environment Agency.

Natural England. 2015. Atmospheric nitrogen theme plan: Developing a strategic approach for England's Natura 2000 sites (IPENSTP013)

http://publications.naturalengland.org.uk/publication/6140185886588928? category = 5605910663659520

Natural England. 2015. Climate change theme plan: Developing a strategic approach to climate change adaptation (IPENSTP014)

http://publications.naturalengland.org.uk/publication/4954594591375360?categ ory=5605910663659520

Natural England. 2015. Diffuse water pollution theme plan: Developing a strategic approach to diffuse water pollution for England's Natura 2000 sites (IPENSTP015)

http://publications.naturalengland.org.uk/publication/5848526737113088?categ ory=5605910663659520

Natural England. 2015. Grazing Theme Plan: Developing a strategic approach for England's Natura 2000 sites. (IPENSTP016)

http://publications.naturalengland.org.uk/publication/4839898496368640? category = 5605910663659520

Natural England. 2015. Hydrological functioning theme plan: Restoring the hydrology of Natura 2000 terrestrial wetlands (IPENSTP018)

http://publications.naturalengland.org.uk/publication/6400975361277952?categ ory=5605910663659520

Natural England. 2015. Invasive species theme plan: Strategic principles for the management of invasive species on Natura 2000 sites (IPENSTP020)

http://publications.naturalengland.org.uk/publication/6130001713823744?categ ory=5605910663659520

Natural England. 2015. Public access and disturbance theme plan: A strategic approach to identifying and addressing significant effects on the features of Natura 2000 sites (IPENSTP022)

http://publications.naturalengland.org.uk/publication/6621454219083776? category=5605910663659520

Natural England. 2015. Improvement Programme for England's Natura 2000 sites (IPENS): Planning for the future Programme Report - a summary of the programme findings. (NE601). Natural England.

http://publications.naturalengland.org.uk/publication/5757712073752576?categ ory=4878851540779008

Jones L, Garbutt A and Angus S. 2013. Impacts of climate change on coastal habitats, MCCIP Science Review, 4

http://www.mccip.org.uk/media/13315/2013arc_backingpapers_18_chab.pdf JNCC. 2013. Third report by the United Kingdom under article 17 on the

implementation of the directive from January 2007 to December 2012 H1330 Atlantic salt meadows (Glauco-Puccinellitalia maritimae)

Harkin, C. 2016. Ecological interactions of an invading insect: the planthopper Prokelisia marginata. Doctoral thesis (PhD), University of Sussex.

http://sro.sussex.ac.uk/65533/

Scotland

Haynes, T.A. 2016. Scottish saltmarsh survey national report. Scottish Natural Heritage. Commissioned Report No. 786.

https://www.environment.gov.scot/our-environment/habitats-and-species/habitat-map-of-scotland/

Janine M Morris, Site Condition Monitoring of Coastal Habitats. (National Contract, Year 2009-2010) and Site Condition Monitoring of Coastal Habitats (National Contract, Year 2010-2011). Contract No: 25639

SNH Site Condition Monitoring results Cycle 3 (from 1 April 2012): see Scotland's environment website. [From the website Detailed tab, select Coastal features by clicking the Feature filter on the left of the screen, then Feature Category= Coast. Data can be exported to spreadsheet by right clicking the table at the bottom of the screen, then Export, then Export Table. Cycle 3 assessments can be seen by filtering the spreadsheet on the 'LatestAssessedSCMcycle' column].

 $http://jncc.defra.gov.uk/pdf/Article17Consult_20131010/H1330_SCOTLAND.pdf\ Wales$

APIS Air Pollution Information System [online]

http://www.apis.ac.uk/overview/pollutants/overview_N_deposition.htm ASERA. Good Practice Guidelines for the Severn Estuary European Marine Site. Association of Severn Estuary Relevant Authorities (ASERA). [online] Available at: http://www.asera.org.uk/files/2017/06/Severn-Estuary-EMS-Good-Practice-Guidelines-Information-Sheet.pdf

Atkins. 2010. SMP 19, Anchor Head to Lavernock Point (Severn Estuary) Shoreline Management Plan (SMP) Review.

Blackstock T. H., Howe E. A., Stevens J. P., Burrows C. R. & Jones P. S. 2010. Habitats of Wales. A comprehensive field survey 1979-1997. University of Wales Press, Cardiff.

Boorman, L. 2003. Saltmarsh Review. An overview of coastal saltmarsh, their dynamic and sensitivity characteristics for conservation and management. Report No. 334. Joint Nature Conservation Committee, Peterborough.

Boorman, L.A. and Hazelden, J. 2012. Impacts of additional aerial inputs of nitrogen to saltmarsh and transitional habitats. CCW Science Report No: 995, Countryside Council for Wales, Bangor, Wales.

Brazier, P., Birch, K., Brunstrom, A., Bunker, A., Jones, M., Lough, N., Salmon, L., & Wyn, G. 2007. When the tide goes out, the biodiversity and conservation of the shores of Wales - results from a 10 year intertidal survey of Wales. The Countryside Council for Wales, Bangor

BRIG. 2007. A preliminary assessment of the implications of climate change for the implementation of the UK BAP targets.

Bunker, A. Habitat Feature condition assessment - attributes and assessment of current condition, Carmarthen Bay and Estuaries Atlantic Salt Meadows. NRW Internal Document.

Burd, F. 1989. The saltmarsh survey of Great Britain. Research and survey in nature conservation. Nature Conservancy Council, Peterborough.

Dargie, T. 1998. NVC survey of saltmarsh habitat in the Severn Estuary. CCW Contract Science Report no. 341.

Evans, F., Clarke, J. 2000. Ty Gwyn Marsh - National Vegetation Classification (NVC) Survey Saltmarsh Survey. NRW Dataset.

Dargie, T. 2000a. Description of the Severn Estuary survey sectors identified in the 1998 NVC survey. CCW Contract Science Report no. 399.

Dargie, T. 2001. NVC survey of the saltmarsh and other habitats in the Dee and Clwyd estuaries 2000. CCW Contract Science Report no. 450.

Environment Agency 2007. Saltmarsh management manual. R&D Technical Report SC030220.

GB Non-native Species Secutariat 2017. Gracilaria vermiculophylla Rapid Risk assessment summary sheet, Updataed April 2017.[online]

www.nonnativespecies.org/downloadDocument.cfm?id=1522

Halcrow Group. 2012. SMP 22 Great Ormes Head to Scotland (North West England and North Wales) Shoreline Management Plan SMP2. Available from: http://www.allerdale.gov.uk/downloads/nw_shoreline_management_plan_2.pdf Halcrow. Group. 2012. SMP 20 Lavernock Point to St Ann's Head (South Wales) Shoreline Management Plan SMP2. Available from:

http://www.npt.gov.uk/ldpexamination/SWW03 Shoreline Management Plan 2 Main Document (2012).pdf.

JNCC. 2000 Common Standards Monitoring Guidance For Saltmarsh Habitats. Version August 2000. JNCC, Peterborough.

http://jncc.defra.gov.uk/pdf/CSM_coastal_saltmarsh.pdf

Jones, M.L.M., Angus S., Cooper A., Doody P., Everard M., Garbutt A., Gilchrist P., Hansom G., Nicholls R., Pye K., Ravenscroft N., Rees S., Rhind P. & Whitehouse A. 2011 Coastal margins [chapter 11]. In: UK National Ecosystem Assessment. Understanding nature's value to society. Technical Report. Cambridge, UNEP-WCMC, 411-457.

Lewis H., Kay, L. 2018 Atlantic salt meadows GIS Mapping Workflow Article 17. Internal NRW Document.

Lewis, H. 2011 Pen Llyn a'r Sarnau SAC Monitoring Report, Atlantic Salt Meadows and Salicornia and other annuals colonising mud and sand. CCW Internal Report. Lough, N., Lloyd, D., Booth, A., Gray, D. Saltmarsh monitoring in Carmarthen Bay and Estuaries, Glannau Mon, Pembrokeshire Marine and Pen Llyn a'r Sarnau SACs 2006: Atlantic Salt meadow and Salicornia and other annuals colonising mud features. CCW Environmental Monitoring Report No: 37.

Mike J. Lush, Thomas A. Haynes and Claire E. Lush Natural England. 2016. Spartina anglica and its management in estuarine Natura 2000 sites: an update of its status and monitoring future change in England. Natural England, Peterborough

MarLIN The Marine Life Information Network. [online] The marine Biological Association. Available from: https://www.marlin.ac.uk/habitats/SNCB-benchmarks

National Trust. 2015 Shifting Shores Report. [on line] National Trust. Available from: https://www.nationaltrust.org.uk/documents/shifting-shores-report-2015.pdf

Natural England and RSPB. 2014. Climate Change Adaption Manual. Part 2. Coastal Saltmarsh. [online] Available from: https://cyfoethnaturiolcymrumy.sharepoint.com/personal/heather_lewis_cyfoethnaturiolcymru_gov_uk/Documents/MCCIP/Climate change adaption manual.pdf

NRW. Pen Llyn a'r Sarnau / Lleyn Peninsula and the Sarnau Special Area of Conservation. Advice provided by Natural Resources Wales in fulfilment of Regulation 35 of the Conservation of Habitats and Species Regulations 2010 (as amended). [Online] Available from:

https://naturalresources.wales/media/682010/pen-llyn-ar-sarnau-reg-35-report.pdf

NRW. 2014. Environmental Pressures on the Milford Haven Waterway Report.

NRW, Bangor.

Natural Resources Wales. 2015. Water Watch Wales maps gallery. Cycle 2 waterbodies and rivers [online]. NRW. Available from:

https://nrw.maps.arcgis.com/apps/webappviewer/index.html?id=2176397a06d6 4731af8b21fd69a143f6

NRW. 2017. Actions Database. Internal NRW Database.

NRW. 2018a. Indicative feature condition assessments for European marine sites (EMS). [Online]. Available from: https://naturalresources.wales/guidance-and-advice/environmental-topics/wildlife-and-biodiversity/find-protected-areas-of-land-and-seas/indicative-feature-condition-assessments-for-european-marine-sites-ems/?lang=en

NRW, 2018b. Dee Estuary / Aber Dyfrdwy Special Area of Conservation: Indicative site level feature condition assessments 2018. NRW Evidence Report Series, Report No: 229, 35pp, NRW, Bangor

NRW, 2018c. Glannau Mon: Cors heli / Anglesey Coast: Saltmarsh Special Area of Conservation: Indicative site level feature condition assessments 2018. NRW Evidence Report Series, Report No: 225, 29pp, NRW, Bangor.

NRW, 2018d. Kenfig / Cynffig Special Area of Conservation: Indicative site level feature condition assessments 2018. NRW Evidence Report Series, Report No: 230, 21pp, NRW, Bangor.

NRW, 2018e. Pen Llyn a'r Sarnau / Lleyn Peninsula and the Sarnau Special Area of Conservation: Indicative site level feature condition assessments 2018. NRW Evidence Report Series, Report No: 234, 58pp, NRW, Bangor.

NRW, 2018f. Pembrokeshire Marine / Sir Benfro Forol Special Area of Conservation: Indicative site level feature condition assessments 2018. NRW Evidence Report Series, Report No: 233, 67pp, NRW, Bangor.

NRW, 2018g. Severn Estuary / Mor Hafren Special Area of Conservation: Indicative site level feature condition assessments 2018. NRW Evidence Report Series, Report No: 235, 41pp, NRW, Bangor.

MarLIN: The Marine Life Information Network [online]

https://www.marlin.ac.uk/habitats/detail/25

Pauls, L. 2017. Carmarthen Bay and Estuaries SAC Atlantic Salt Meadows SAC Monitoring Report. NRW Evidence Report 222.

Prosser, M.V. and Wallace, H.L. 1997. Braint Estuary pSAC, NVC survey 1996. CCW NW Area Report 3.

Prosser, M.V. and Wallace, H.L. 1998. Taf, Tywi and Gwendraeth saltmarsh survey (Burry Inlet cSAC), 1997. CCW Contract Science Report No 293.

Prosser, M.V. and Wallace, H.L. 1999a. Burry Inlet and Loughor Estuary SSSI, NVC Survey 1998. CCW Contract Science Report No 376.

Prosser, M.V. and Wallace, H.L. 1999b. Cefni and Aberffraw estuary pSAC: NVC survey 1998. Countryside Council for Wales, Bangor.

Prosser, M.V. and Wallace, H.L. 2002. National Vegetation Classification Survey: Saltmarshes of the Conwy Estuary. Countryside Council for Wales, Bangor.

Prosser, M.V. and Wallace, H.L. 2003. Milford Haven saltmarsh survey. Report to the Milford Haven Waterway Environmental Surveillance Group.

Prosser, M.V. and Wallace, H.L. 2004. Pen Llyn a'r Sarnau cSAC and adjacent areas saltmarsh review and National Vegetation Classification survey 2003. CCW Contract Science Report No. 642.

Rhind, P. M. 1995. A review of saltmarsh vegetation surveys in Wales.

Countryside Council for Wales, Biological Science Report. Bangor.

Rhind, P. M. & Jones, A. 1994. Brackish saltmarsh communities in the Glaslyn Marsh Trust Reserve. Field Studies, 8: 373-384.

Rodwell, J.S. (ed.) 1991b. British Plant Communities. Volume 2. Mires and heath.

Cambridge University Press

Rodwell, J. S. (ed.) 1992. British Plant Communities. Volume 3. Grassland and montane communities. Cambridge University Press.

Rodwell, J.S. (ed.) 1995. British Plant Communities. Volume 4. Aquatic communities, swamps and tall-herb fens. Cambridge University Press. Rodwell, J.S. (ed.) 2000. British plant communities. Volume 5. Maritime communities and vegetation of open habitats. Cambridge University Press. Royal Haskoning. 2012. SMP 21 St Ann's Head to Great Ormes Head (West of Wales) Shoreline Management Plan 2. Available from:

http://www.westofwalessmp.org/.

Surry, K. 2012. Dee Estuary / Aber Dyfrdwy: Saltmarsh: 1310 Salicornia and other annuals colonising mud and sand, 1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae) Draft SAC monitoring report 2012. Internal CCW document.

Surry, K., Creer J. 2011. Glannau Mon: Cors heli / Anglesey Coast: Saltmarsh: 1310 Salicornia and other annuals colonising mud and sand, 1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae) Draft SAC monitoring report 2011. Internal CCW Report.

Wilkinson K. 2010. Severn Estuary SAC Salt Marsh Condition Mapping 2010. CCW Internal Report.

Wilkinson K. Anstice, S. 2018. Severn Estuary SAC Monitoring Dataset. Internal NRW Dataset.

N.Ireland

JNCC 2004. Common Standards Monitoring Guidance for Saltmarsh Habitats. Cooper, E.A., Crawford, I., Malloch, A.J.C. & Rodwell, J.S. (1992). Coastal vegetation survey of Northern Ireland. Lancaster, Lancaster University Environment and Heritage Service, Belfast. Northern Ireland Habitat Action Plan - Coastal Saltmarsh - March 2005

JNCC (1997). Coasts and seas of the United Kingdom, Region 17 Northern Ireland. Coastal Directories Series

NIEA. Internal Condition Assessment Reports (various sites and years). Rodwell, J.S. (2000). British Plant Communities. Volume 5, Maritime Communities and Vegetation of Open habitats. Cambridge: Cambridge University Press

Rodwell, J.S., Dring, J.C., Averis, A.B.V., Proctor, M.C.F., Malloch, A.J.C., Schaminee, J.H.J & Dargie, T.C.D. 1998. Review of Coverage of the National Vegetation Classification. Lancaster: Unit of Vegetation Science report to the Joint Nature Conservation Committee.

Boorman, L. 2003. Saltmarsh Review. An overview of coastal saltmarsh, their dynamic and sensitivity characteristics for conservation and management. Report No. 334. Joint Nature Conservation Committee, Peterborough. Baxter, J. & Boaden, P. 1990 Coastal resources of the Irish Sea - Northern Ireland. In Irish Sea Study Group, The Irish Sea - an environmental review. Part 1: nature conservation, pp. 83-102. Liverpool University Press, Liverpool

4. Range

4.1 Surface area (in km²)

4.2 Short-term trend Period

4.3 Short-term trend Direction

4.4 Short-term trend Magnitude

4.5 Short-term trend Method used

4.6 Long-term trend Period

54802.12

2007-2018

Stable (0)

a) Minimum

b) Maximum

Based mainly on extrapolation from a limited amount of data

4.7 Long-term trend Direction 4.8 Long-term trend Magnitude 4.9 Long-term trend Method used

4.10 Favourable reference range

a) Minimum b) Maximum

a) Area (km²) 54802.12

b) Operator

c) Unknown Nο

d) Method The FRR is approximately equal to the current range area.

The FRR value has been updated to take account of

improved information on the habitat range. The approach taken to set the FRR is explained in the 2007 and 2013 UK

Article 17 habitat reports (see

http://jncc.defra.gov.uk/page-4064 and http://jncc.defra.gov.uk/page-6563).

4.11 Change and reason for change in surface area of range

Improved knowledge/more accurate data

The change is mainly due to: Improved knowledge/more accurate data

4.12 Additional information

5. Area covered by habitat

5.1 Year or period 1987-2018

> a) Minimum b) Maximum c) Best single 338.94

value

5.3 Type of estimate

5.2 Surface area (in km²)

5.4 Surface area Method used

5.5 Short-term trend Period

5.6 Short-term trend Direction

5.7 Short-term trend Magnitude

Best estimate

Based mainly on extrapolation from a limited amount of data

2007-2018

Decreasing (-)

a) Minimum b) Maximum c) Confidence

interval

5.8 Short-term trend Method used

5.9 Long-term trend Period

5.10 Long-term trend Direction

5.11 Long-term trend Magnitude

a) Minimum

Based mainly on expert opinion with very limited data

c) Confidence

b) Maximum interval

5.12 Long-term trend Method used

5.13 Favourable reference area

a) Area (km²)

b) Operator More than (>)

c) Unknown

d) Method The FRA is not more than 10% above the current area. An FRA

> operator has been used as it is not clear what the exact area of the FRA is. The approach taken to set the FRA is explained in the

2007 and 2013 UK Article 17 habitat reports (see

http://jncc.defra.gov.uk/page-4064 and http://jncc.defra.gov.uk/page-6563).

5.14 Change and reason for change

in surface area of range

Improved knowledge/more accurate data

The change is mainly due to: Improved knowledge/more accurate data

5.15 Additional information

The short term trend direction is considered to be decreasing by 1%/yr or less, based on the rate of decline identified in England.

6. Structure and functions

6.1 Condition of habitat	a) Area in good condition	Minimum 76.121	Maximum 76.521
	(km²) b) Area in not-good condition (km²)	Minimum 120.745	Maximum 120.855
	c) Area where condition is not known (km²)	Minimum 135.01	Maximum 148.5
6.2 Condition of habitat Method used	Based mainly on extrapolation	on from a limited amount	of data
6.3 Short-term trend of habitat area in good condition Period	2005-2018		
6.4 Short-term trend of habitat area in good condition Direction	Decreasing (-)		
6.5 Short-term trend of habitat area	Based mainly on expert opin	ion with very limited data	
in good condition Method used	Has the list of typical species	changed in comparison to	o the previous No
6.6 Typical species	reporting period?	Ora in principle	1 110
6.7 Typical species Method used			
6.8 Additional information			

7. Main pressures and threats

7.1 Characterisation of pressures/threats

Pressure	Ranking
Intensive grazing or overgrazing by livestock (A09)	Н
Agricultural activities generating diffuse pollution to surface or ground waters (A26)	M
Wind, wave and tidal power, including infrastructure (D01)	M
Shipping lanes, ferry lanes and anchorage infrastructure (e.g. canalisation, dredging) (E03)	M
Modification of coastline, estuary and coastal conditions for development, use and protection of residential, commercial, industrial and recreational infrastructure and areas (including sea defences or coastal protection works and infrastructures) (F08)	H
Drainage, land reclamation or conversion of wetlands, marshes, bogs, etc. to industrial/commercial areas (F27)	M
Other invasive alien species (other then species of Union concern) (IO2)	M
Mixed source air pollution, air-borne pollutants (J03)	M
Physical alteration of water bodies (K05)	M
Sea-level and wave exposure changes due to climate change (N04)	M
Threat	Ranking
Intensive grazing or overgrazing by livestock (A09)	M
Agricultural activities generating diffuse pollution to surface or ground waters (A26)	M

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Wind, wave and tidal power, including infrastructure (D01)	Н
Shipping lanes, ferry lanes and anchorage infrastructure (e.g. canalisation, dredging) (E03)	M
Modification of coastline, estuary and coastal conditions for development, use and protection of residential, commercial, industrial and recreational infrastructure and areas (including sea defences or coastal protection works and infrastructures) (F08)	Н
Drainage, land reclamation or conversion of wetlands, marshes, bogs, etc. to industrial/commercial areas (F27)	M
Other invasive alien species (other then species of Union concern) (IO2)	M
Mixed source air pollution, air-borne pollutants (J03)	M
Physical alteration of water bodies (K05)	M
Sea-level and wave exposure changes due to climate change (N04)	Н

7.2 Sources of information

7.3 Additional information

8. Conservation measures

8.1 Status of measures	a) Are measures needed?	Yes
	b) Indicate the status of measures	Measures identified and taken
8.2 Main purpose of the measures taken	Restore the habitat of the species (related to 'Habitat for the species')	
8.3 Location of the measures taken	Both inside and outside Natura 2000)
8.4 Response to the measures	Medium-term results (within the next two reporting periods, 2019-2030)	
8.5 List of main conservation measures		

Maintain existing extensive agricultural practices and agricultural landscape features (CA03)

Adapt mowing, grazing and other equivalent agricultural activities (CA05)

Reduce/eliminate point pollution to surface or ground waters from agricultural activities (CA10)

Other measures related to extraction and energy exploitation activities (CC14)

Reduce impact of outdoor sports, leisure and recreational activities (CF03)

Reduce/eliminate marine pollution from industrial, commercial, residential and recreational areas and activities (CF07)

Manage changes in hydrological and coastal systems and regimes for construction and development (CF10)

Management, control or eradication of other invasive alien species (CIO3)

Restore habitats impacted by multi-purpose hydrological changes (CJ03)

Implement climate change adaptation measures (CN02)

8.6 Additional information

9. Future prospects

9.1 Future prospects of parameters

a) Range Good
b) Area Poor
c) Structure and functions Bad

9.2 Additional information

Future trend of Range is Overall stable; Future trend of Area is Negative - decreasing <=1% (one percent or less) per year on average; and Future trend of Structure and functions is Negative - slight/moderate deterioration

10. Conclusions

10.1. Range

10.2. Area

10.3. Specific structure and functions (incl. typical species)

10.4. Future prospects

10.5 Overall assessment of Conservation Status

10.6 Overall trend in Conservation Status

10.7 Change and reasons for change in conservation status and conservation status trend

Favourable (FV)

Unfavourable - Inadequate (U1)

Unfavourable - Bad (U2)

Unfavourable - Bad (U2)

Unfavourable - Bad (U2)

Deteriorating (-)

a) Overall assessment of conservation status

No change

The change is mainly due to:

b) Overall trend in conservation status

Genuine change

The change is mainly due to: Genuine change

Conclusion on Range reached because: (i) the short-term trend direction in

Range surface area is stable; and (ii) the current Range surface area is

approximately equal to the Favourable Reference Range.

Conclusion on Area covered by habitat reached because: (i) the short-term trend direction in Area is decreasing by 1% per year or less; and (ii) the current Area is not more than 10% below the Favourable Reference Area.

Conclusion on Structure and functions reached because habitat condition data indicates that more than 25% of the habitat is in unfavourable (not good) condition.

Conclusion on Future prospects reached because: (i) the Future prospects for Range are good; (ii) the Future prospects for Area covered by habitat are poor; and (iii) the Future prospects for Structure and functions are bad.

Overall assessment of Conservation Status is Unfavourable-bad because one or more of the conclusions is Unfavourable-bad.

Overall trend in Conservation Status is based on the combination of the short-term trends for Range - stable, Area covered by habitat - decreasing, and Structure and functions - decreasing.

The Overall trend in Conservation Status has changed between 2013 and 2019 because the Structure and functions trend has changed from increasing to decreasing.

10.8 Additional information

11. Natura 2000 (pSCIs, SCIs, SACs) coverage for Annex I habitat types

11.1 Surface area of the habitat type
inside the pSCIs, SCIs and SACs
network (in km² in biogeographical/
marine region)

11.2 Type of estimate

- 11.3 Surface area of the habitat type inside the network Method used
- 11.4 Short-term trend of habitat area in good condition within the network Direction
- 11.5 Short-term trend of habitat area in good condition within network Method used

11.6 Additional information

- a) Minimum
- b) Maximum
- c) Best single value 275.08

Best estimate

Based mainly on extrapolation from a limited amount of data

Decreasing (-)

Based mainly on extrapolation from a limited amount of data

12. Complementary information

12.1 Justification of % thresholds for trends

12.2 Other relevant information

Distribution Map

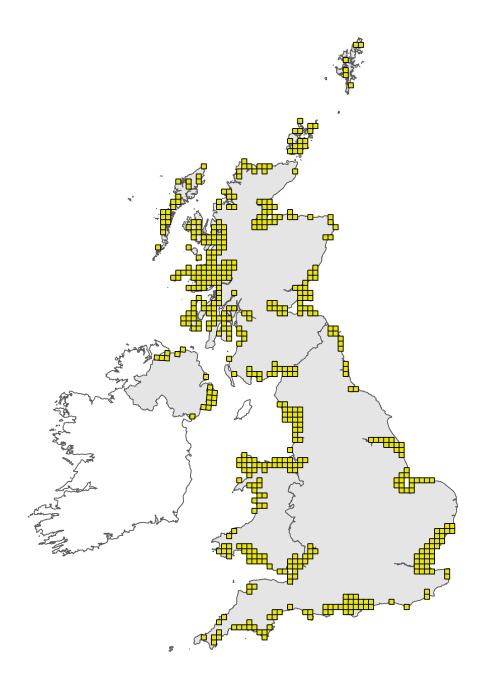


Figure 1: UK distribution map for H1330 - Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*). Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

The 10km grid square distribution map is based on available habitat records which are considered to be representative of the distribution within the current reporting period. For further details see the 2019 Article17 UK Approach document.

Range Map

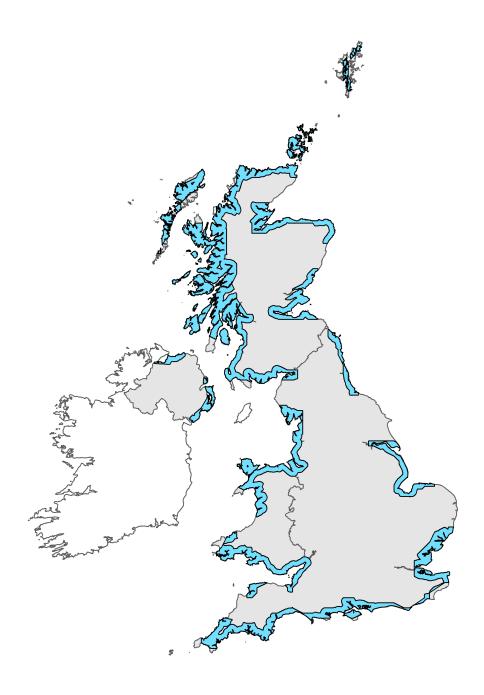


Figure 2: UK range map for H1330 - Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*). Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

The range map has been produced by applying a bespoke range mapping tool for Article 17 reporting (produced by JNCC) to the 10km grid square distribution map presented in Figure 1. The alpha value for this habitat was 25km. For further details see the 2019 Article 17 UK Approach document.