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

Supporting documentation for the
conservation status assessment for the habitat:

H1210 - Annual vegetation of drift lines

SCOTLAND

IMPORTANT NOTE - PLEASE READ

- The information in this document is a country-level contribution to 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.

- The 2019 Article 17 UK Approach document provides details on how this supporting information was used to produce the UK Report.

- The UK Report on the conservation status of this habitat is provided in a separate document.

- The reporting fields and options used are aligned to those set out in the European Commission guidance.

- Explanatory notes (where provided) by the country are included at the end. These provide an audit trail of relevant supporting information.

- Some of the reporting fields have been left blank because either: (i) there was insufficient information to complete the field; (ii) completion of the field was not obligatory; and/or (iii) the field was only relevant at UK-level (sections 10 Future prospects and 11 Conclusions).

- For technical reasons, the country-level future trends for Range, Area covered by habitat and Structure and functions are only available in a separate spreadsheet that contains all the country-level supporting information.

- The country-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.

Report on the main results of the surveillance under Article 17 for Annex I habitat types (Annex D)

<table>
<tr><td colspan="2" align="center">NATIONAL LEVEL</td></tr>
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1. General information

1.1 Member State	**UK (Scotland information only)**
1.2 Habitat code	**1210 - Annual vegetation of drift lines**

2. Maps

2.1 Year or period	2010-2013
2.3 Distribution map	Yes
2.3 Distribution map Method used	Complete survey or a statistically robust estimate
2.4 Additional maps	No

<table>
<tr><td align="center">BIOGEOGRAPHICAL LEVEL</td></tr>
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3. Biogeographical and marine regions

3.1 Biogeographical or marine region where the habitat occurs	**Atlantic (ATL)**
3.2 Sources of information	Murdock, A.P., Hill, C.T., Randall, R., Cox, J., Strachan, I., Gubbins, G., Booth, A, Milne, F., Smith, S.M. and Bealey, C. 2014. Inventory of coastal vegetated shingle in Scotland - field validation. Scottish Natural Heritage Commissioned Report No. 739. 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 https://www.environment.gov.scot/our-environment/habitats-and-species/habitat-map-of-scotland/ Also http://jncc.defra.gov.uk/pdf/Article17Consult_20131010/H1210_SCOTLAND.pdf

4. Range

4.1 Surface area (in km²)	
4.2 Short-term trend Period	
4.3 Short-term trend Direction	Stable (0)
4.4 Short-term trend Magnitude	a) Minimum b) Maximum
4.5 Short-term trend Method used	
4.6 Long-term trend Period	
4.7 Long-term trend Direction	
4.8 Long-term trend Magnitude	a) Minimum b) Maximum
4.9 Long-term trend Method used	
4.10 Favourable reference range	a) Area (km²) b) Operator c) Unknown No d) Method
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	Final data has become available for the Coastal Vegetated Shingle Survey of Scotland (2013) and this data is in the Habitat Map of Scotland and has been validated (see internal document A2453181). In addition there area some small

polygons derived from the recent Saltmarsh Survey of Scotland 2013 which have also been validated and from other NVC surveys included in HabMoS

5. Area covered by habitat

5.1 Year or period	2010-2013			
5.2 Surface area (in km²)	a) Minimum	b) Maximum	c) Best single value	1.78
5.3 Type of estimate	95% confidence interval			
5.4 Surface area Method used	Complete survey or a statistically robust estimate			
5.5 Short-term trend Period	2007-2016			
5.6 Short-term trend Direction	Uncertain (u)			
5.7 Short-term trend Magnitude	a) Minimum	b) Maximum	c) Confidence interval	
5.8 Short-term trend Method used	Insufficient or no data available			
5.9 Long-term trend Period				
5.10 Long-term trend Direction				
5.11 Long-term trend Magnitude	a) Minimum	b) Maximum	c) Confidence interval	
5.12 Long-term trend Method used				
5.13 Favourable reference area	a) Area (km²)			
	b) Operator			
	c) Unknown	No		
	d) Method			
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	Final data has become available for the Coastal Vegetated Shingle Survey of Scotland (2013) and this data is in the Habitat Map of Scotland and has been validated (see internal document A2453181). In addition there are some small polygons derived from the recent Saltmarsh Survey of Scotland 2013 and other NVC sources included in HabMoS which have also been validated.			

6. Structure and functions

6.1 Condition of habitat	a) Area in good condition (km²)	Minimum 0.19	Maximum 0.19	
	b) Area in not-good condition (km²)	Minimum 0.02	Maximum 0.02	
	c) Area where condition is not known (km²)	Minimum 1.57	Maximum 1.57	
6.2 Condition of habitat Method used	Based mainly on extrapolation from a limited amount of data			
6.3 Short-term trend of habitat area in good condition Period	2001-2016			
6.4 Short-term trend of habitat area in good condition Direction	Uncertain (u)			
6.5 Short-term trend of habitat area in good condition Method used	Insufficient or no data available			
6.6 Typical species	Has the list of typical species changed in comparison to the previous reporting period?	No		

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6.8 Additional information

Most of this habitat lies outwith the designated site series.The Coastal Vegetated Shingle Survey of Scotland provided a lot of information about pressures on the habitat such as man-made structures, trampling from visitors, grazing etc. but not detailed assessments to ascertain if the impact outwith designated sites reflects the condition of the habitat found within the SSSI and SAC series.

7. Main pressures and threats

7.1 Characterisation of pressures/threats

Pressure	Ranking
Intensive grazing or overgrazing by livestock (A09)	H
Deposition and treatment of waste/garbage from household/recreational facilities (F09)	M
Other invasive alien species (other then species of Union concern) (I02)	M
Sports, tourism and leisure activities (F07)	M

Threat	Ranking
Intensive grazing or overgrazing by livestock (A09)	H
Deposition and treatment of waste/garbage from household/recreational facilities (F09)	M
Other invasive alien species (other then species of Union concern) (I02)	M
Sea-level and wave exposure changes due to climate change (N04)	M
Sports, tourism and leisure activities (F07)	M

7.2 Sources of information

7.3 Additional information

Dumping of rubble, soil and garden waste
Fallopia japonica, Aster novae-belgii and Lupinus nootkaensis
Sea level rise and erosion (storm events)
Trampling

8. Conservation measures

8.1 Status of measures	a) Are measures needed?	Yes
	b) Indicate the status of measures	Measures identified, but none yet 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

Management, control or eradication of other invasive alien species (CI03)

Habitat restoration of areas impacted by residential, commercial, industrial and recreational infrastructure, operations and activities (CF02)

Management of problematic native species (CI05)

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

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

8.6 Additional information	The range and scope of conservation measures being taken across the habitat resource should be reviewed

9. Future prospects

9.1 Future prospects of parameters	a) Range b) Area c) Structure and functions
9.2 Additional information	The impact of negative pressures such as invasive species, trampling etc should be monitored across the habitat resource. Intensive grazing is known to be affecting this resource

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	a) Overall assessment of conservation status No change The change is mainly due to: b) Overall trend in conservation status No change The change is mainly due to:
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)	a) Minimum b) Maximum c) Best single value 0.06
11.2 Type of estimate	95% confidence interval
11.3 Surface area of the habitat type inside the network Method used	Complete survey or a statistically robust estimate
11.4 Short-term trend of habitat area in good condition within the network Direction	Stable (0)

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11.5 Short-term trend of habitat area in good condition within network Method used	Complete survey or a statistically robust estimate
11.6 Additional information	

12. Complementary information

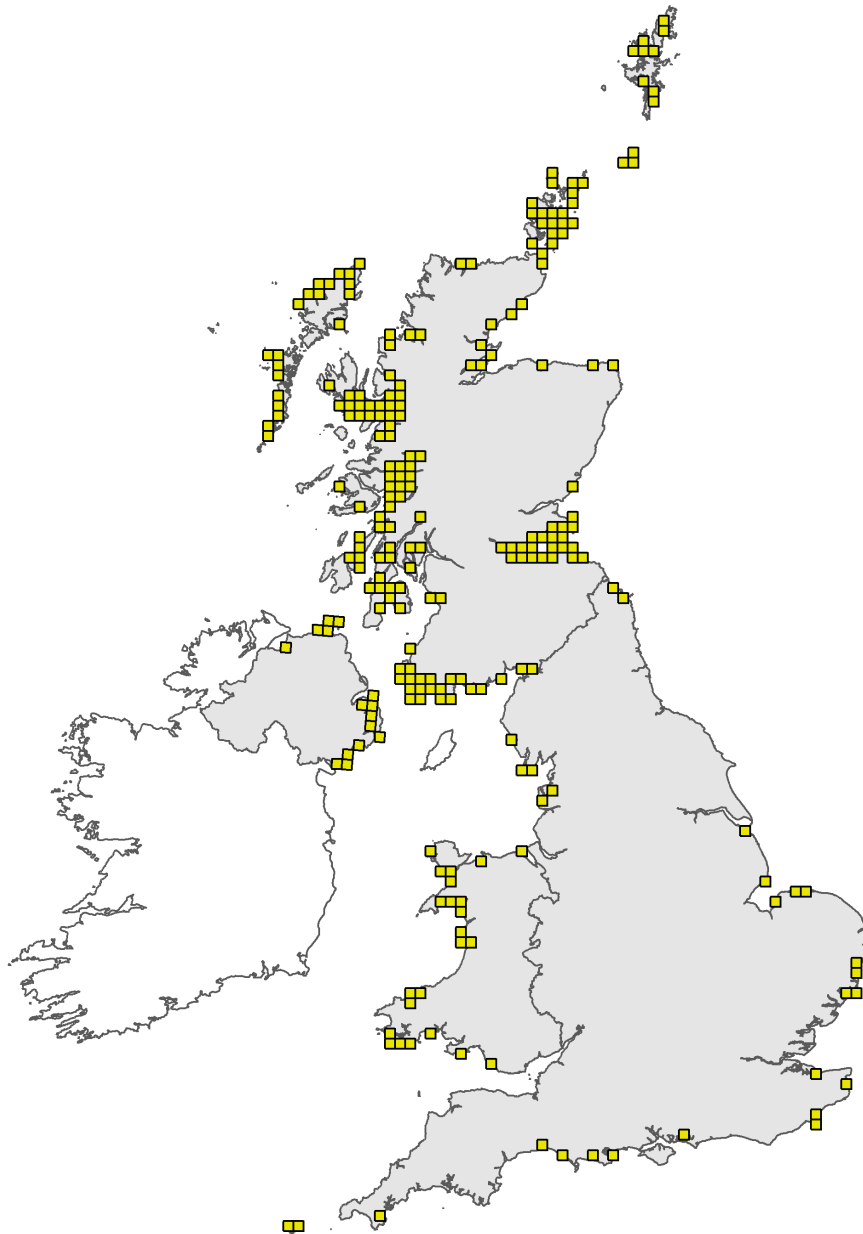| 12.1 Justification of % thresholds for trends	
12.2 Other relevant information	

Distribution Map

Figure 1: UK distribution map for H1210 - Annual vegetation of drift lines. 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.
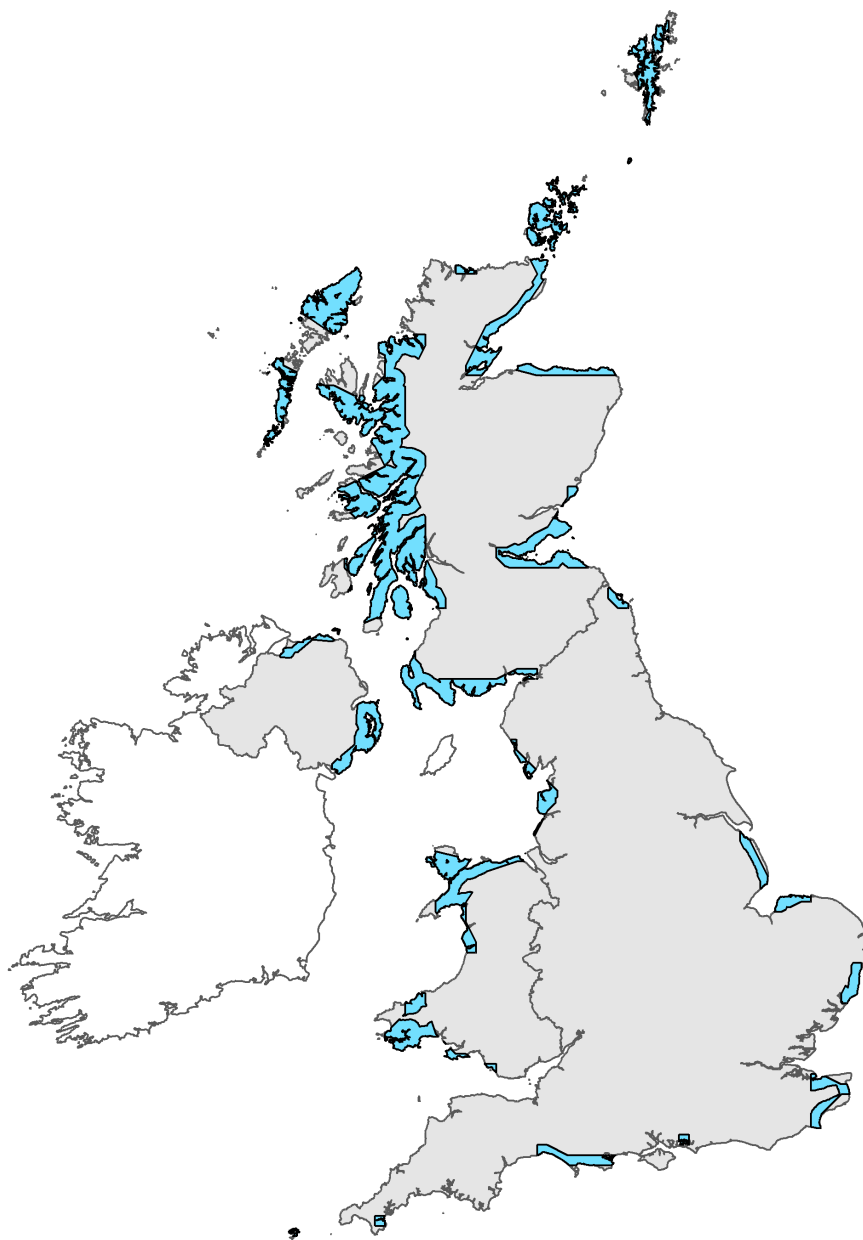
Range Map

Figure 2: UK range map for H1210 - Annual vegetation of drift lines. 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.