

**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:

**H7240 - Alpine pioneer formations of the *Caricion  
bicoloris-atrofuscae***

**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 offshore-level 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.

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

## NATIONAL LEVEL

### 1. General information

1.1 Member State	UK
1.2 Habitat code	7240 - Alpine pioneer formations of <i>Caricion bicoloris-atrofuscae</i>

### 2. Maps

2.1 Year or period	1962-2018
2.3 Distribution map	Yes
2.3 Distribution map Method used	Complete survey or a statistically robust estimate
2.4 Additional maps	No

## BIOGEOGRAPHICAL LEVEL

### 3. Biogeographical and marine regions

3.1 Biogeographical or marine region where the habitat occurs	<b>Atlantic (ATL)</b>
3.2 Sources of information	<p>England</p> <p>REBANE, M. 2010. UK BAP PRIORITY HABITAT ACTION PLAN: Upland flushes, fens and swamps. Natural England. (Produced on behalf of UK BAP Upland Group).</p> <p>HEDLEY, S &amp; McCARTY, C. 2012. Assessment of extent and condition of Alpine pioneer formations of the <i>Caricion bicoloris-atrofuscae</i> on Moorhouse-Cross Fell SSSI and Upper Teesdale SSSI. Unpublished email to M. Rebane on 19.12.2012.</p> <p>Scotland</p> <p>SNH SCM database, extract A2298772, 2017, processed and summarised in A2498680.</p> <p>Alpine flush feature type (JNCC, (2009), Common Standards Monitoring Guidance for Upland Habitats, Version July 2009 and previous versions) <a href="http://jncc.defra.gov.uk/page-2237">http://jncc.defra.gov.uk/page-2237</a></p> <p>Wales</p> <p>Hearn, S. (in prep). Eryri SAC monitoring summary report: 7240 Alpine pioneer formations of <i>Caricion bicoloris-atrofuscae</i>. NRW internal report.</p> <p>Hill, M.O., Preston, C.D., Bosanquet, S.D.S &amp; Roy, D.B. (2007). BRYOATT: Attributes of British and Irish Mosses, Liverworts and Hornworts. NERC</p> <p>Jones, P.S. (2012). Supporting documentation for the Third Report by the United Kingdom under Article 17 on the implementation of the Directive from January 2007 to December 2012. Conservation status assessment for Habitat: H7240 - Alpine pioneer formations of the <i>Caricion bicoloris-atrofuscae</i>. NRW.</p> <p>Jones, P.S., Stevens, J., Bosanquet, S.D.S., Turner, A.J., Birch, K.S. &amp; Reed, D.K. (2012b). Distribution, extent and status of Annex I wetland habitats in Wales: supporting material for the 2013 Article 17 assessment. Countryside Council for Wales, Bangor.</p> <p>Lewis, H. (2003). 7240 Alpine pioneer formations of <i>Caricion bicoloris-atrofuscae</i>. SAC Monitoring report. NRW internal report.</p> <p>Lewis, H. (2012). 7240 Alpine pioneer formations of <i>Caricion bicoloris-atrofuscae</i>. SAC Monitoring report. NRW internal report.</p> <p>NRW, 2013. Supporting documentation for the Third Report by the United Kingdom under Article 17 for Wales; H7240 Alpine pioneer formations of <i>Caricion bicoloris-atrofuscae</i>. JNCC. Available from: <a href="http://jncc.defra.gov.uk/pdf/Article17Consult_20131010/H7240_WALES.pdf">http://jncc.defra.gov.uk/pdf/Article17Consult_20131010/H7240_WALES.pdf</a> [Accessed 4th September 2018]</p>

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

Stevens, J., Turner, A.J. & Jones, P.S. (2012). H7240 Alpine pioneer formations Habitat Inventory for Wales. Countryside Council for Wales, Bangor.

Turner, A.J. (2011). A conspectus of the vegetation of the Welsh uplands, with particular reference to Snowdonia. In: Proceedings of a Memorial Conference for Dr David Paul Stevens 1958-2007: Grassland Ecologist and Conservationist. Eds: Blackstock, T.H., Howe, E.A., Rothwell, J.P., Duigan, C.A & Jones, P.S. pp. 116-134. CCW Staff Science Report 10/03/05, Countryside Council for Wales, Bangor.

## 4. Range

4.1 Surface area (in km <sup>2</sup> )	13964.32
4.2 Short-term trend Period	2007-2018
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	Based mainly on extrapolation from a limited amount of data
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 (km <sup>2</sup> ) 13964.32 b) Operator c) Unknown No d) Method The FRR is approximately equal to the current range area. The approach taken to set the FRR is explained in the 2007 and 2013 UK Article 17 habitat reports (see <a href="http://jncc.defra.gov.uk/page-4064">http://jncc.defra.gov.uk/page-4064</a> and <a href="http://jncc.defra.gov.uk/page-6563">http://jncc.defra.gov.uk/page-6563</a> ).
4.11 Change and reason for change in surface area of range	No change The change is mainly due to:
4.12 Additional information	

## 5. Area covered by habitat

5.1 Year or period	1996-2018
5.2 Surface area (in km <sup>2</sup> )	a) Minimum b) Maximum c) Best single value 0.7867
5.3 Type of estimate	Best estimate
5.4 Surface area Method used	Based mainly on expert opinion with very limited data
5.5 Short-term trend Period	2007-2018
5.6 Short-term trend Direction	Stable (0)
5.7 Short-term trend Magnitude	a) Minimum b) Maximum c) Confidence interval
5.8 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data
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 (km <sup>2</sup> )

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b) Operator	
c) Unknown	No
d) Method	The FRA is unknown. The approach taken to set the FRA is explained in the 2007 and 2013 UK Article 17 habitat reports (see <a href="http://jncc.defra.gov.uk/page-4064">http://jncc.defra.gov.uk/page-4064</a> and <a href="http://jncc.defra.gov.uk/page-6563">http://jncc.defra.gov.uk/page-6563</a> ).

## 5.14 Change and reason for change in surface area of range

No change  
The change is mainly due to:

## 5.15 Additional information

## 6. Structure and functions

### 6.1 Condition of habitat

a) Area in good condition (km <sup>2</sup> )	Minimum	0.10328	Maximum	0.2132
b) Area in not-good condition (km <sup>2</sup> )	Minimum	0.38341	Maximum	0.87349
c) Area where condition is not known (km <sup>2</sup> )	Minimum	0	Maximum	0

### 6.2 Condition of habitat Method used

Complete survey or a statistically robust estimate

### 6.3 Short-term trend of habitat area in good condition Period

2006-2018

### 6.4 Short-term trend of habitat area in good condition Direction

Increasing (+)

### 6.5 Short-term trend of habitat area in good condition Method used

Complete survey or a statistically robust estimate

### 6.6 Typical species

Has the list of typical species changed in comparison to the previous reporting period? No

### 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)	H
Management of fishing stocks and game (G08)	H
Mixed source air pollution, air-borne pollutants (J03)	H
Threat	
	Ranking
Intensive grazing or overgrazing by livestock (A09)	H
Management of fishing stocks and game (G08)	H
Mixed source air pollution, air-borne pollutants (J03)	H
Temperature changes (e.g. rise of temperature & extremes) due to climate change (N01)	H

### 7.2 Sources of information

### 7.3 Additional information

J03: Mixed source air pollution, air-borne pollutants is ranked as a High ranked pressure and threat, due to the nutrient N critical load for the habitat being exceeded across >25% of the habitat area

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## 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	Only inside 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		

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

Management of hunting, recreational fishing and recreational or commercial harvesting or collection of plants (CG02)

8.6 Additional information

## 9. Future prospects

9.1 Future prospects of parameters	a) Range	Good
	b) Area	Unknown
	c) Structure and functions	Bad
9.2 Additional information	<p>Future trend of Range is Overall stable; Future trend of Area is Overall stable; and Future trend of Structure and functions is Very negative - important deterioration.</p> <p>The Future prospects for Structure and functions takes into account that at least 25% of the habitat area is expected to be in unfavourable (not good) condition in c.2030 due to nutrient N critical load exceedance, unless measures are taken to reduce N deposition impacts.</p>	

## 10. Conclusions

10.1. Range	Favourable (FV)
10.2. Area	Unknown (XX)
10.3. Specific structure and functions (incl. typical species)	Unfavourable - Bad (U2)
10.4. Future prospects	Unfavourable - Bad (U2)
10.5 Overall assessment of Conservation Status	Unfavourable - Bad (U2)
10.6 Overall trend in Conservation Status	Improving (+)
10.7 Change and reasons for change in conservation status and conservation status trend	<p>a) Overall assessment of conservation status</p> <p>No change</p> <p>The change is mainly due to:</p> <p>b) Overall trend in conservation status</p> <p>No change</p> <p>The change is mainly due to:</p>

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## 10.8 Additional information

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 stable; and (ii) the Favourable Reference Area is unknown.

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 unknown; 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 - stable, and Structure and functions - increasing. If the very negative future trend in Structure and functions is also taken into account, the Overall trend would be stable.

## 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 km<sup>2</sup> in biogeographical/marine region)

- a) Minimum
- b) Maximum
- c) Best single value 3.3367

11.2 Type of estimate

Best estimate

11.3 Surface area of the habitat type inside the network Method used

Based mainly on extrapolation from a limited amount of data

11.4 Short-term trend of habitat area in good condition within the network Direction

Increasing (+)

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

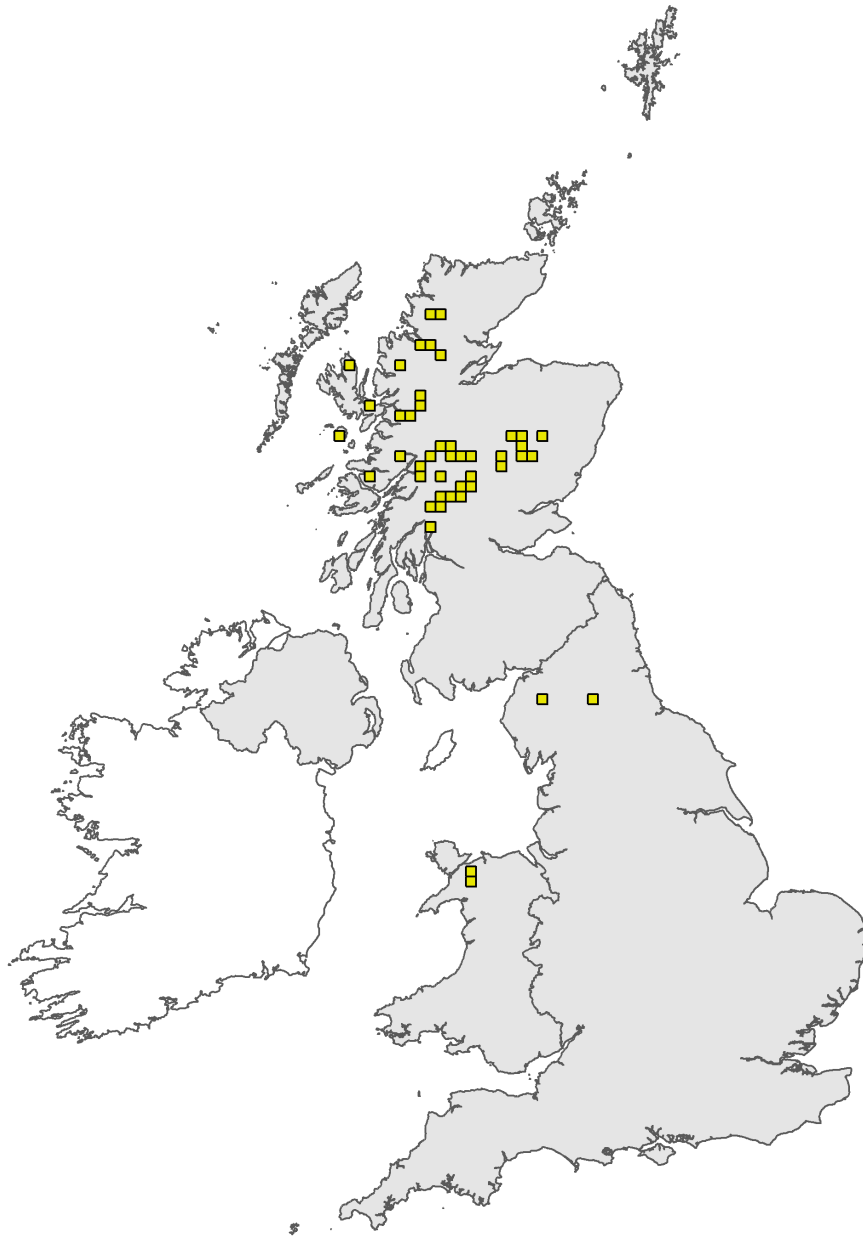


Figure 1: UK distribution map for H7240 - Alpine pioneer formations of the *Caricion bicoloris-atrofuscae*. Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas 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 H7240 - Alpine pioneer formations of the *Caricion bicoloris-atrofuscae*. 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.