

**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:

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

**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)

## NATIONAL LEVEL

### 1. General information

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

### 2. Maps

2.1 Year or period	1962-2006
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	Atlantic (ATL)
3.2 Sources of information	SNH SCM database, extract A2298772, 2017, processed and summarised in A2498680. 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>

### 4. Range

4.1 Surface area (in km <sup>2</sup> )	
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 (km <sup>2</sup> ) b) Operator c) Unknown No d) Method
4.11 Change and reason for change in surface area of range	No change The change is mainly due to:
4.12 Additional information	NB Range entries and comments are made on the basis of Distribution maps and assumptions as to how these will affect previous range maps, without having seen new range maps. 1) Newly collated vegetation map information (HabMoS) has identified occurrences of this habitat which did not appear in previous Article 17 reporting distribution maps. Some of the new occurrences are outwith the currently-mapped range and would increase the surface area of the range around the edges and fill some gaps. However, some of the new records appear to be incorrect. There is sufficient doubt about the conformity of some occurrences with the definition of H7240 that they should not be accepted

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without verification. The new records should not be used until verification has been carried out, and the previous distribution and range mapping should be used. NB only a cursory examination of additional occurrences has been possible, and while some are credible, there are also errors. 2) For the previously-reported occurrences of the habitat, there is no evidence of any actual change in range in Scotland in the period 2006-2017. Within this period, persistence of the habitat has been confirmed in all the upland designated sites where it is a notified feature that have been checked (SCM database, extract A2298772).

## 5. Area covered by habitat

5.1 Year or period	2007-007-		
5.2 Surface area (in km <sup>2</sup> )	a) Minimum 0.4	b) Maximum 1	c) Best single value 0.7
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	2007-2017		
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> ) b) Operator c) Unknown No d) Method		
5.14 Change and reason for change in surface area of range	No change The change is mainly due to:		
5.15 Additional information	Conclusions are based on absence of evidence of change in extent in Scotland in the period. Within this period, no loss of extent has been recorded on sites where H7240 is a notified feature (SCM database, extract A2298772). Newly collated mapping suggests that the extent of the habitat is greater than that previously reported. This is possible, reflecting improved knowledge rather than actual expansion of the habitat, but there is sufficient doubt over some of the records, and over the derived extent figure, that the new figure is not used.		

## 6. Structure and functions

6.1 Condition of habitat	a) Area in good condition (km <sup>2</sup> )	Minimum 0.07328	Maximum 0.1832
	b) Area in not-good condition (km <sup>2</sup> )	Minimum 0.32671	Maximum 0.81679
	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		

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6.3 Short-term trend of habitat area in good condition Period	2006-2016
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	<p>Site Condition Monitoring provides a means of assessing the structure and function of H7240 in Scotland. Assessment is based on the results of assessments carried out between 2004 and 2016. Results are recorded on the SNH SCM database, from which data was extracted to A2298772 on 23/05/2017. Within this period, the proportion of H7240 on SACs considered to be in Favourable condition increased from 5% in 2012 (based on assessments carried out between 2002 and 2010) to 18% in 2016 (based on assessments carried out between 2004 and 2016). Two per cent of H7240 is assessed as recovering and four per cent as declining, compared to two and zero per cent respectively in 2012. A further 0.01% of the extent is now reported to be Unfavourable but recovering due to management. One SSSI feature not overlapping SAC is reported as Unfavourable, but extent data is not available. Overall, 51ha was assessed as declining in condition (Unfavourable declining or Favourable declining), with 236ha recovered or recovering (Favourable recovered, Unfavourable recovering, Unfavourable recovering due to management), compared to 0ha and 22ha respectively for 2012. The proportion in Favourable condition has more than trebled, but from a low base, and the extent reported to be recovering exceeds the extent reported as declining by more than five times, overall the judgement is that condition is improving.</p>

## 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
Temperature changes (e.g. rise of temperature & extremes) due to climate change (N01)	H
Mixed source air pollution, air-borne pollutants (J03)	H

### 7.2 Sources of information

7.3 Additional information	<p>Trampling and grazing by sheep Deer grazing and trampling Arctic-alpine species From N deposition assessment</p>
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## 8. Conservation measures

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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	Conservation measures are generally implemented through designation of protected areas, voluntary and statutory procedures (Deer Act), agri-environment schemes (SRDP). While some results are achievable in the short term, some attributes will recover only over longer timescales.
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## 9. Future prospects

9.1 Future prospects of parameters	a) Range b) Area c) Structure and functions
9.2 Additional information	Range is considered likely to remain stable. Area is considered likely to remain stable. Although still only representing around a fifth of the total extent, the number of features currently Favourable for Structure and function has increased and the vast majority should continue to be Favourable. The extent assessed as Recovering significantly exceeds the extent assessed as Declining. This represents moderate improvement. Despite this evidence of improvement, the Future trend for Structure and Function must be classed as Very negative, as Nitrogen deposition is a High rank threat (for details see the UK Article 17 Approach document). The current assessment found empirical evidence of actual effects of N deposition on the ground in Scotland to be lacking.

## 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

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

- a) Minimum
- b) Maximum
- c) Best single value 3.25

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

Site Condition Monitoring provides a means of assessing the structure and function of H7240 in Scotland. Assessment is based on the results of assessments carried out between 2004 and 2016. Results are recorded on the SNH SCM database, from which data was extracted to A2298772 on 23/05/2017. Within this period, the proportion of H7240 on SACs considered to be in Favourable condition increased from 5% in 2012 (based on assessments carried out between 2002 and 2010) to 18% in 2016 (based on assessments carried out between 2004 and 2016). Two per cent of H7240 is assessed as recovering and four per cent as declining, compared to two and zero per cent respectively in 2012. A further 0.01% of the extent is now reported to be Unfavourable but recovering due to management. Overall, 51ha was assessed as declining in condition (Unfavourable declining or Favourable declining), with 236ha recovered or recovering (Favourable recovered, Unfavourable recovering, Unfavourable recovering due to management), compared to 0ha and 22ha respectively for 2012. The proportion in Favourable condition has more than trebled, but from a low base, and the extent reported to be recovering exceeds the extent reported as declining by more than five times, overall the judgement is that condition is improving.

## 12. Complementary information

12.1 Justification of % thresholds for trends

12.2 Other relevant information

## Distribution Map

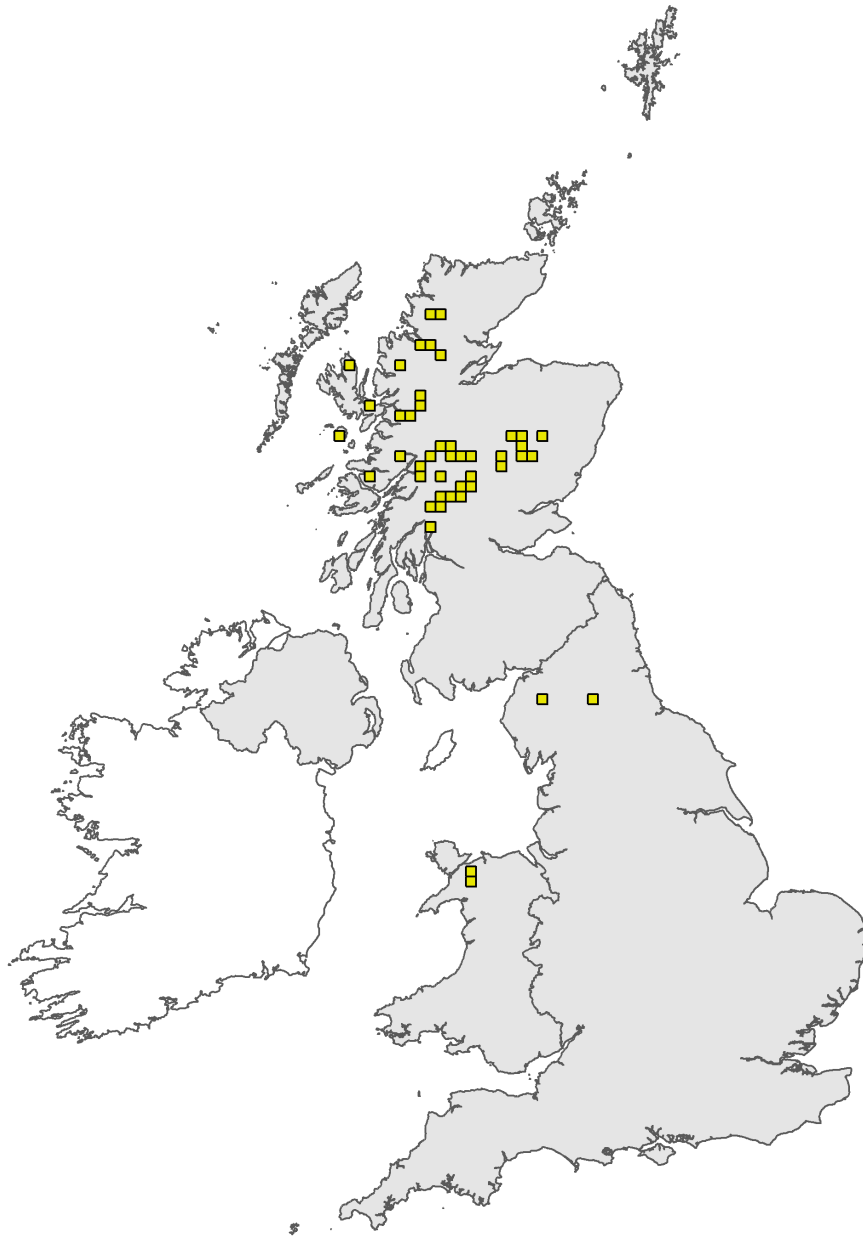


Figure 1: UK distribution map for H7240 - Alpine pioneer formations of the *Caricion bicoloris-atrofuscae*. Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas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