

**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:

**H6170 - Alpine and subalpine calcareous grasslands**

**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	6170 - Alpine and subalpine calcareous grasslands

### 2. Maps

2.1 Year or period	1962-2007
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>Scotland</p> <p>References within - <a href="http://jncc.defra.gov.uk/pdf/Article17Consult_20131010/H6170_SCOTLAND.pdf">http://jncc.defra.gov.uk/pdf/Article17Consult_20131010/H6170_SCOTLAND.pdf</a> SNH SCM database, extract A2298772, 2017, processed and summarised in A2496458. Calcareous grassland (upland) 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>Averis, A., 2002. Vegetation survey of the eastern part of the Carneddau SSSI and cSAC, Conwy, Summer 2001. CCW Science Report 535. Guest, D. 2012. Assessing N deposition as a pressure for Article 17 reporting on habitats. CCW HQ internal document. Harrison, T. 2017. Eryri SAC Monitoring Summary report: 6170 Alpine and subalpine calcareous grasslands. Monitoring Round 2013 to 2018. JNCC. 2004. Common standards monitoring guidance for lowland grasslands. JNCC. <a href="http://jncc.defra.gov.uk/PDF/CSM_lowland_grassland.pdf">http://jncc.defra.gov.uk/PDF/CSM_lowland_grassland.pdf</a> Lewis, H. 2005. Eryri SAC. 6170 Alpine and Sub Alpine Calcareous Grassland. SAC Monitoring report. Mitchell, R.J., Morecroft, M.D., Acreman, M.(14 others). 2007. England Biodiversity Strategy - Towards adaptation to climate change. Final Report to Defra for contract CR0327. Natural England and RSPB, 2014. Climate Change Adaptation Manual. NRW. 2015. Natura 2000 Thematic Action Plan. Air pollution: Nitrogen deposition. LIFE Natura 2000 Programme for Wales. NRW. 2017. Actions Database. NRW internal database. NRW. 2018. Briefing Note. Article 17, 2013-18: Pressures, threats and conservation measures guidance. Internal NRW document. Rodwell, J.S. (ed.). 1992. British plant communities. Volume 3. Grasslands and montane communities. Cambridge University Press, Cambridge Stevens J. &amp; Smith S. 2012. H6170 Alpine and subalpine calcareous grasslands: Wales GIS inventory. CCW HQ dataset. Surry, K. 2012. Eryri / Snowdonia SAC UK0012946. 6170 Alpine and Sub Alpine Calcareous Grassland. SAC Monitoring report 2012. Monitoring cycle 2007 -2012.</p>



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d) Method The FRA is approximately equal to the current area. The FRA value has been updated to take account of improved information on the habitat area. 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

## 6. Structure and functions

6.1 Condition of habitat

a) Area in good condition (km <sup>2</sup> )	Minimum 1.617	Maximum 1.617
b) Area in not-good condition (km <sup>2</sup> )	Minimum 5.2	Maximum 5.2
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

2005-2016

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

Decreasing (-)

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
Extensive grazing or undergrazing by livestock (A10)	M
Management of fishing stocks and game (G08)	H
Other invasive alien species (other than species of Union concern) (I02)	M
Problematic native species (I04)	M
Mixed source air pollution, air-borne pollutants (J03)	H

Threat	Ranking
Intensive grazing or overgrazing by livestock (A09)	H
Extensive grazing or undergrazing by livestock (A10)	M
Management of fishing stocks and game (G08)	H
Other invasive alien species (other than species of Union concern) (I02)	M

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Problematic native species (I04)	M
Mixed source air pollution, air-borne pollutants (J03)	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

## 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)

Management of problematic native species (CI05)

### 8.6 Additional information

## 9. Future prospects

### 9.1 Future prospects of parameters

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

### 9.2 Additional information

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.

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.

## 10. Conclusions

### 10.1. Range

Favourable (FV)

### 10.2. Area

Favourable (FV)

### 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

Deteriorating (-)

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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

Use of different method

The change is mainly due to: Use of different method

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 current Area is approximately equal to 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 good; 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 - decreasing.

The Overall trend in Conservation Status has changed between 2013 and 2019 because of the removal of the Future prospects trend from the 2019 method used to assess Overall trend.

## 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 6.777

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

Decreasing (-)

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

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## Distribution Map

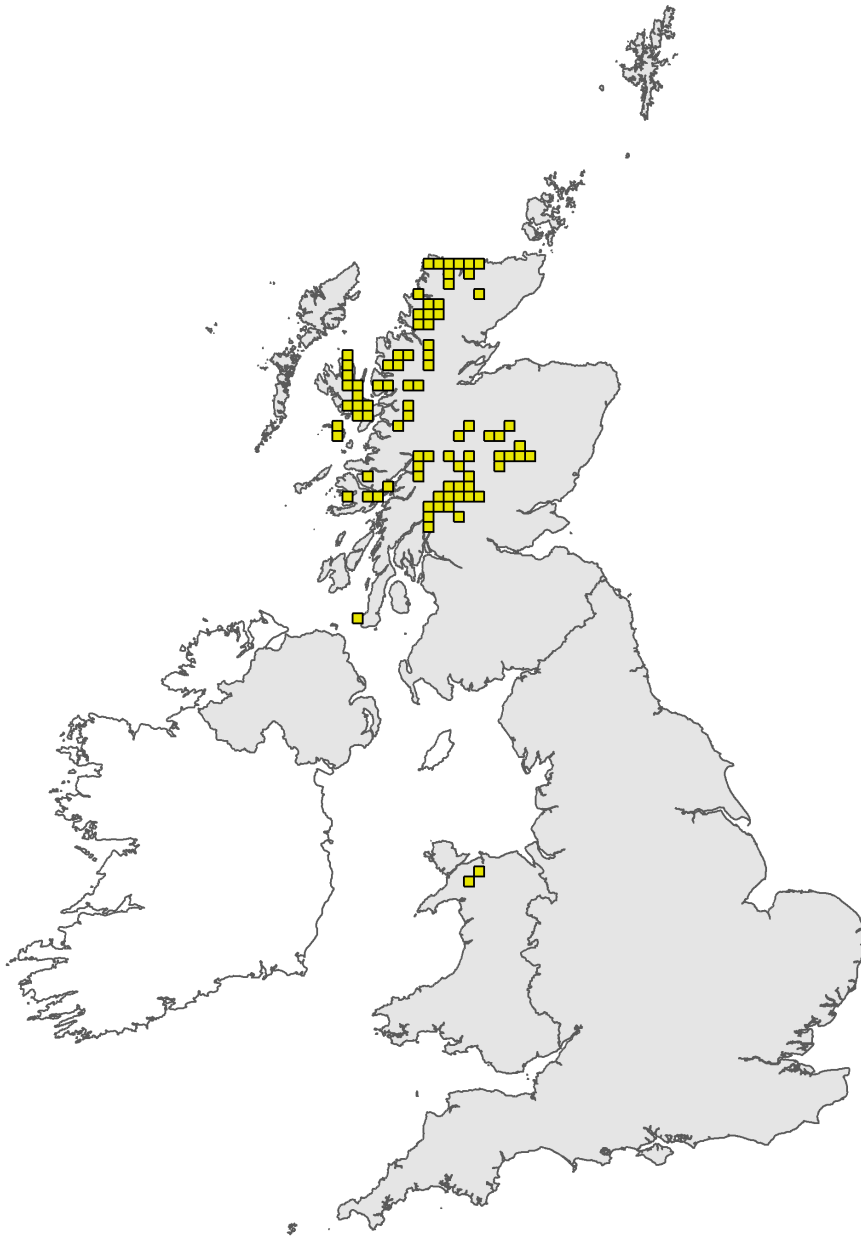


Figure 1: UK distribution map for H6170 - Alpine and subalpine calcareous grasslands. Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

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

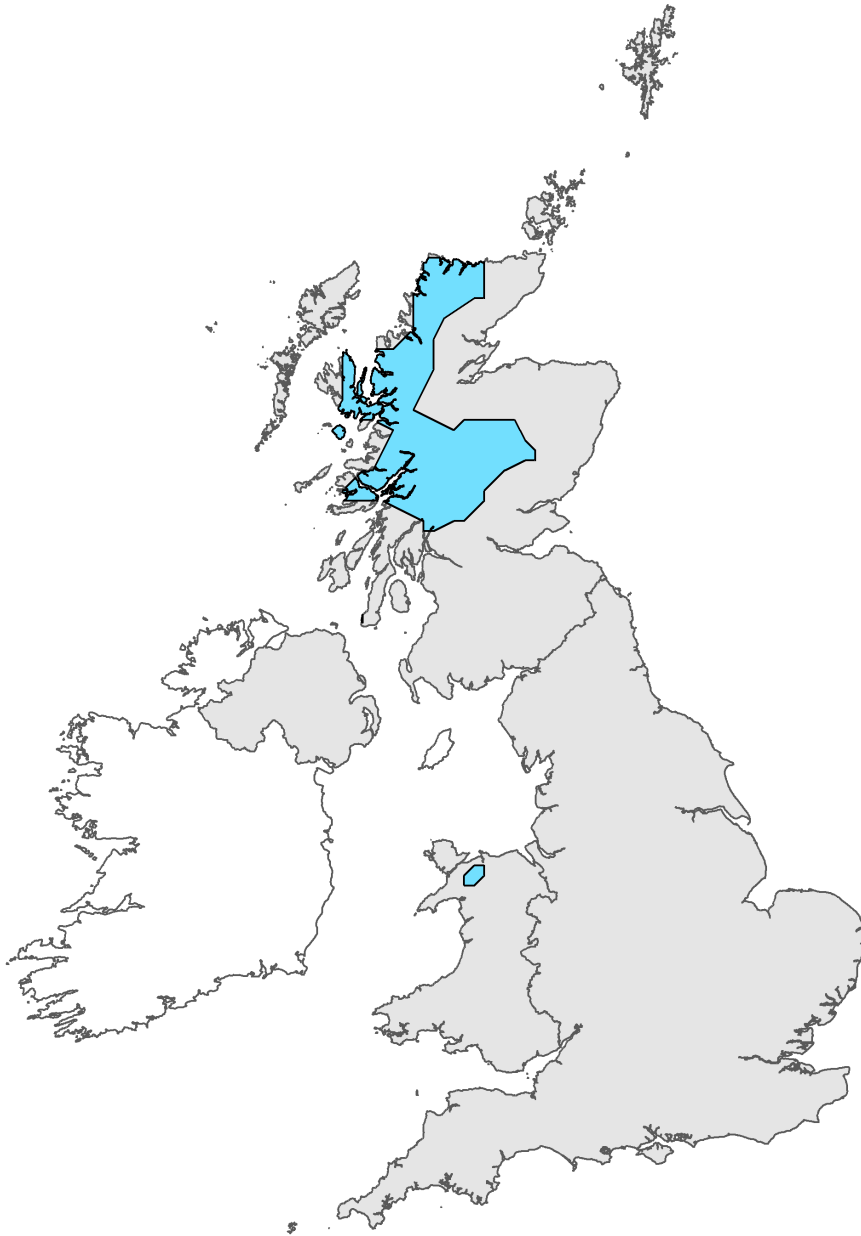


Figure 2: UK range map for H6170 - Alpine and subalpine calcareous grasslands. Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

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.