

**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:

**H7150 - Depressions on peat substrates of the
*Rhynchosporion***

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.

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NATIONAL LEVEL

1. General information

1.1 Member State	UK (Scotland information only)
1.2 Habitat code	7150 - Depressions on peat substrates of the Rhynchosporion

2. Maps

2.1 Year or period	1962-2006
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	Atlantic (ATL)
3.2 Sources of information	References within - http://jncc.defra.gov.uk/pdf/Article17Consult_20131010/H7150_SCOTLAND.pdf SNH SCM database, extract A2298772, 2017, processed and summarised in A2475996. Blanket bog and valley bog (upland) feature type (JNCC, (2009), Common Standards Monitoring Guidance for Upland Habitats, Version July 2009 and previous versions) http://jncc.defra.gov.uk/page-2237

4. Range

4.1 Surface area (in km ²)	
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 ²) 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 both around the edges and by filling in gaps. However, there is sufficient doubt about

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the conformity of many of these occurrences with the definition of H7150, and their location, that they should not be accepted without verification. Several occurrences, particularly in the west, are more credible. 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. 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 ²)	a) Minimum	b) Maximum	c) Best single value 7.81
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 ²) 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 significant change in extent in Scotland in the period. Within this period, a small loss and a likely small but reversible loss of extent have been recorded on two sites where this is a notified feature (SCM database, extract A2298772). Although these losses are not deemed of sufficient magnitude to affect the judgement that extent is stable, they are cause for concern.		

6. Structure and functions

6.1 Condition of habitat	a) Area in good condition (km ²)	Minimum 3.9	Maximum 3.9
	b) Area in not-good condition (km ²)	Minimum 3.9	Maximum 3.9
	c) Area where condition is not known (km ²)	Minimum 0	Maximum 0

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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	2006-2016
6.4 Short-term trend of habitat area in good condition Direction	Stable (0)
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 H7150 in Scotland. Assessment is based on the results of fieldwork carried out between 2004 and 2015. 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 H7150 on SACs considered to be in Favourable condition has remained the same as in 2012 (based on assessments carried out between 2004 and 2010) at 50%. One per cent of H7150 is assessed as recovering and 13% as Declining, the same as in 2012. 1.5% of the extent is now reported to be Unfavourable but recovering due to management, compared with the 2012 figure of 0.1%. There are no SSSI features for this habitat. Overall, 100ha was assessed as declining in condition (Unfavourable declining or Favourable declining), with 13ha recovered or recovering (Favourable recovered, Unfavourable recovering, Unfavourable recovering due to management), compared to 100ha and 77ha respectively for 2012. The proportion in Favourable condition, and the proportions Recovering and Declining, remain the same as in the last reporting round, and approximately eight times as much habitat (100ha) is declining as is Recovering (13ha). Therefore the overall judgement is that condition remains the same, but there is a declining trend for future prospects.</p>

7. Main pressures and threats

7.1 Characterisation of pressures/threats

Pressure	Ranking
Intensive grazing or overgrazing by livestock (A09)	M
Management of fishing stocks and game (G08)	H
Burning for agriculture (A11)	H
Land, water and air transport activities not referred to above (E09)	M
Problematic native species (I04)	M
Other invasive alien species (other than species of Union concern) (I02)	M
Drainage (K02)	M
Mixed source air pollution, air-borne pollutants (J03)	H
Threat	Ranking
Mixed source air pollution, air-borne pollutants (J03)	H
Intensive grazing or overgrazing by livestock (A09)	M

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Management of fishing stocks and game (G08)	H
Burning for agriculture (A11)	H
Land, water and air transport activities not referred to above (E09)	M
Problematic native species (I04)	M
Other invasive alien species (other than species of Union concern) (I02)	M
Drainage (K02)	M

7.2 Sources of information

7.3 Additional information

Trampling and grazing by cattle
 Deer grazing and trampling
 Also burning for game management (deer) but no code for this. The revised Muirburn Code recommends cessation of burning on peatland as a good practice recommendation. If this is followed threat level could be reduced.
 Use of ATVs.
 Increasing Molinia
 Rhododendron, Sitka
 Continuing impact of existing drains rather than new drainage.
 From N deposition assessment

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

Management of problematic native species (CI05)

Manage drainage and irrigation operations and infrastructures in agriculture (CA15)

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 more slowly.

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

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stable. Structure and function has been stable, but the extent reported as declining is eight times greater than that reported as recovering, therefore the overall judgement is that it is deteriorating. Despite this evidence of slight-moderate deterioration, 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

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 7.81

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

Stable (0)

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 H7150 on SACs in Scotland. Assessment is based on the results of fieldwork carried out between 2004 and 2015. 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 H7150 on SACs considered to be in Favourable condition has remained the same as in 2012 (based on assessments

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carried out between 2004 and 2010) at 50%. One per cent of H7150 is assessed as recovering and 13% as Declining, the same as in 2012. 1.5% of the extent is now reported to be Unfavourable but recovering due to management, compared with the 2012 figure of 0.1%. Overall, 100ha was assessed as declining in condition (Unfavourable declining or Favourable declining), with 13ha recovered or recovering (Favourable recovered, Unfavourable recovering, Unfavourable recovering due to management), compared to 100ha and 77ha respectively for 2012. The proportion in Favourable condition, and the proportions Recovering and Declining, remain the same as in the last reporting round, and approximately eight times as much habitat (100ha) is declining as is Recovering (13ha). Therefore the overall judgement is that condition remains the same, but there is a declining trend for future prospects.

12. Complementary information

12.1 Justification of % thresholds for trends

12.2 Other relevant information

Distribution Map

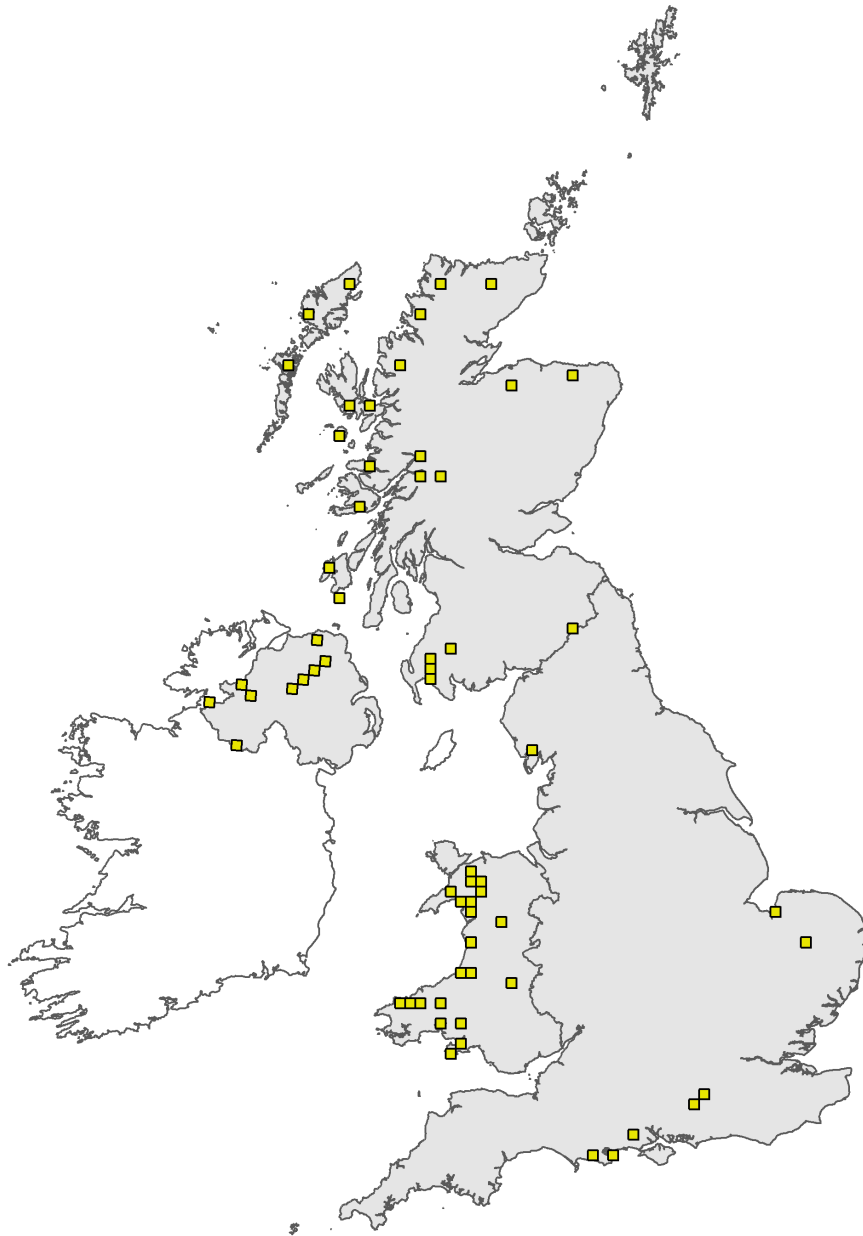


Figure 1: UK distribution map for H7150 - Depressions on peat substrates of the *Rhynchosporion*. Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

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

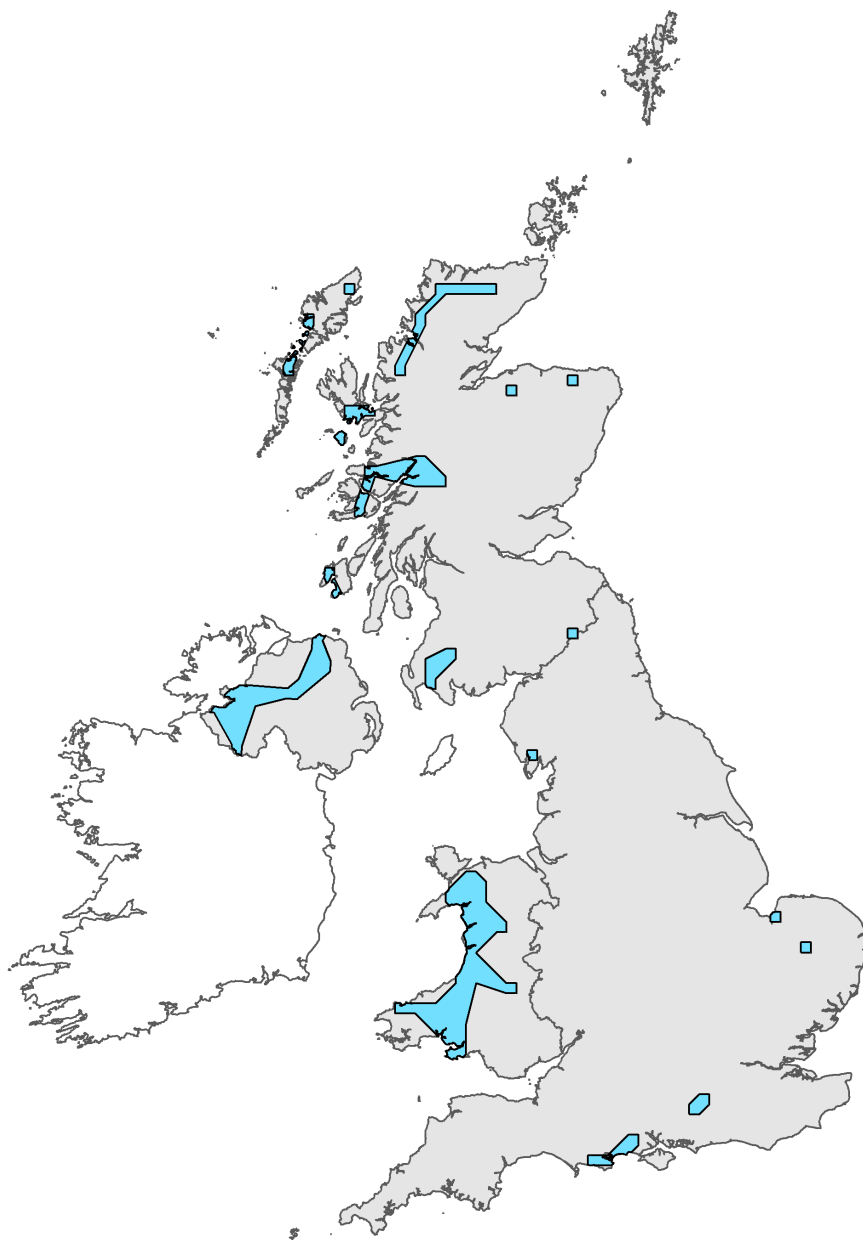


Figure 2: UK range map for H7150 - Depressions on peat substrates of the *Rhynchosporion*. Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

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.