

**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:

**H4020 - Temperate Atlantic wet heaths with *Erica
ciliaris* and *Erica tetralix***

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	4020 - Temperate Atlantic wet heaths with <i>Erica ciliaris</i> and <i>Erica tetralix</i>

2. Maps

2.1 Year or period	2018-2018
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

3.2 Sources of information

Atlantic (ATL)

England

BSBI. Online Atlas of British and Irish Flora.
<https://www.brc.ac.uk/plantatlas/plant/erica-ciliaris> [accessed 07/03/2018]

CHAPMAN, S. B., & ROSE, R. J. (1994). Changes in the distribution of *erica ciliaris* L. and *E. X watsonii* benth. in dorset, 1963-1987. *Watsonia*, 20(2), 89-95.
 Retrieved from www.scopus.com

HOCKING, S. & STEWART, J. 2000. English Nature Research Report 353 - The status of Dorset heath (*Erica ciliaris*) in Cornwall English Nature, Peterborough.TURAL ENGLAND's Designated Sites database. Accessed Feb-mar 2018. Habitat condition, threats and pressures.
<https://designatedsites.naturalengland.org.uk/>

ROSE, R. J., BANNISTER, P., & CHAPMAN, S. B. (1996). *Erica ciliaris* L. *Journal of Ecology*, 84(4), 617-628. Retrieved from www.scopus.com

STROH, P.A., LEACH, S.J., AUGUST, T.A., WALKER, K.J., PEARMAN, D.A., RUMSEY, F.J., HARROWER, C.A., FAY, M.F., MARTIN, J.P., PANKHURST, T., PRESTON, C.D., TAYLOR, I. 2014. A Vascular Plant Red List for England. Botanical Society of Britain and Ireland, Bristol.
 Natural England Priority Habitat Inventory

4. Range

4.1 Surface area (in km ²)	617.07
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	Complete survey or a statistically robust estimate
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) 617.07 b) Operator

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

c) Unknown
d) Method

No

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 <http://jncc.defra.gov.uk/page-4064> and <http://jncc.defra.gov.uk/page-6563>).

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

2018-2018

5.2 Surface area (in km²)

a) Minimum

b) Maximum

c) Best single value 26.61

5.3 Type of estimate

Best estimate

5.4 Surface area Method used

Complete survey or a statistically robust estimate

5.5 Short-term trend Period

2012-2018

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

Complete survey or a statistically robust estimate

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) 29.271

b) Operator

c) Unknown

d) Method

No

The FRA is not more than 10% above 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

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 (km²)

Minimum 19.05

Maximum 19.05

b) Area in not-good condition (km²)

Minimum 7.56

Maximum 7.56

c) Area where condition is not known (km²)

Minimum 0

Maximum 0

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

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	2012-2018
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	Based mainly on extrapolation from a limited amount of data
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
Extensive grazing or undergrazing by livestock (A10)	H
Agricultural activities generating air pollution (A27)	M
Conversion to forest from other land uses, or afforestation (excluding drainage) (B01)	M
Conversion from other land uses to housing, settlement or recreational areas (excluding drainage and modification of coastline, estuary and coastal conditions) (F01)	M
Sports, tourism and leisure activities (F07)	H
Vandalism or arson (H04)	H
Problematic native species (I04)	H
Mixed source air pollution, air-borne pollutants (J03)	H
Abstraction from groundwater, surface water or mixed water (K01)	M
Temperature changes (e.g. rise of temperature & extremes) due to climate change (N01)	M
Threat	Ranking
Extensive grazing or undergrazing by livestock (A10)	H
Agricultural activities generating air pollution (A27)	M
Conversion to forest from other land uses, or afforestation (excluding drainage) (B01)	M
Conversion from other land uses to housing, settlement or recreational areas (excluding drainage and modification of coastline, estuary and coastal conditions) (F01)	M
Sports, tourism and leisure activities (F07)	H
Vandalism or arson (H04)	M
Problematic native species (I04)	M
Mixed source air pollution, air-borne pollutants (J03)	H
Abstraction from groundwater, surface water or mixed water (K01)	H

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

Temperature changes (e.g. rise of temperature & extremes) H
due to climate change (N01)

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

Both inside and outside Natura 2000

8.4 Response to the measures

Short-term results (within the current reporting period, 2013-2018)

8.5 List of main conservation measures

Prevent conversion of natural and semi-natural habitats, and habitats of species into agricultural land (CA01)

Reinstate appropriate agricultural practices to address abandonment, including mowing, grazing, burning or equivalent measures (CA04)

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

Recreate Annex I agricultural habitats (CA07)

Reduce/eliminate air pollution from agricultural activities (CA12)

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

Manage water abstraction for public supply and for industrial and commercial use (CF11)

Management of problematic native species (CI05)

Management of habitats (others than agriculture and forest) to slow, stop or reverse natural processes (CL01)

Implement climate change adaptation measures (CN02)

8.6 Additional information

9. Future prospects

9.1 Future prospects of parameters

- a) Range Good
- b) Area Poor
- 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)

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

10.2. Area	Unfavourable - Inadequate (U1)
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>Genuine change</p> <p>Use of different method</p> <p>The change is mainly due to: Genuine change</p>
10.8 Additional information	<p>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.</p> <p>Conclusion on Area covered by habitat reached because: (i) the short-term trend direction in Area is stable; and (ii) the current Area is not more than 10% below the Favourable Reference Area.</p> <p>Conclusion on Structure and functions reached because habitat condition data indicates that more than 25% of the habitat is in unfavourable (not good) condition.</p> <p>Conclusion on Future prospects reached because: (i) the Future prospects for Range are good; (ii) the Future prospects for Area covered by habitat are poor; and (iii) the Future prospects for Structure and functions are bad.</p> <p>Overall assessment of Conservation Status is Unfavourable-bad because one or more of the conclusions is Unfavourable-bad.</p> <p>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.</p> <p>The Overall trend in Conservation Status has changed between 2013 and 2019 because the Structure and functions trend has changed from decreasing in to increasing, and because of the removal of the Future prospects trend from the 2019 method used to assess Overall trend.</p>

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 ² in biogeographical/marine region)	<p>a) Minimum</p> <p>b) Maximum</p> <p>c) Best single value 26.61</p>
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

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

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 H4020 - Temperate Atlantic wet heaths with *Erica ciliaris* and *Erica tetralix*. 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 H4020 - Temperate Atlantic wet heaths with *Erica ciliaris* and *Erica tetralix*. 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.