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 species:

S1849 - Butcher's broom (Ruscus aculeatus)

ENGLAND

IMPORTANT NOTE - PLEASE READ

- The information in this document is a country-level contribution to the UK Report on the conservation status of this species, 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 species 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; (iii) the field was not relevant to this species (section 12 Natura 2000 coverage for Annex II species) and/or (iv) the field was only relevant at UK-level (sections 9 Future prospects and 10 Conclusions).
- For technical reasons, the country-level future trends for Range, Population and Habitat for the species 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.

| NATIONAL LEVEL | | | | |
|---|-------------------------------|--|--|--|
| 1. General information | | | | |
| 1.1 Member State | UK (England information only) | | | |
| 1.2 Species code | 1849 | | | |
| 1.3 Species scientific name | Ruscus aculeatus | | | |
| 1.4 Alternative species scientific name | | | | |
| 1.5 Common name (in national language) | Butcher's broom | | | |

2. Maps

| 2.1 Sensitive species | No |
|----------------------------------|--|
| 2.2 Year or period | 2013-2018 |
| 2.3 Distribution map | Yes |
| 2.4 Distribution map Method used | Complete survey or a statistically robust estimate |
| 2.5 Additional maps | No |

3. Information related to Annex V Species (Art. 14)

| 3.1 Is the species taken in the wild/exploited? | No | | | |
|---|---|----|--|--|
| 3.2 Which of the measures in Art. 14 have been taken? | a) regulations regarding access to property | | | |
| | b) temporary or local prohibition of the taking of specimens in the wild and exploitation | | | |
| | c) regulation of the periods and/or methods of taking specimens | No | | |
| | d) application of hunting and fishing rules which take account of the conservation of such populations | No | | |
| | e) establishment of a system of licences for taking specimens or of quotas | | | |
| | f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens | No | | |

h) other measures

g) breeding in captivity of animal species as well as

artificial propagation of plant species

No

No

3.3 Hunting bag or quantity taken in the wild for Mammals and Acipenseridae (Fish)

a) Unit

| b) Statistics/ quantity taken | Provide statistics/quantity per hunting season or per year (where season is not used) over the reporting period | | | | | | |
|----------------------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| | Season/ year 1 | Season/ year 2 | Season/ year 3 | Season/ year 4 | Season/ year 5 | Season/ year 6 | |
| Min. (raw, ie. not rounded) | | | | | | | |
| Max. (raw, ie. not rounded) | | | | | | | |
| Unknown | No | No | No | No | No | No | |

3.4. Hunting bag or quantity taken in the wild Method used

3.5. Additional information

BIOGEOGRAPHICAL LEVEL

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

Atlantic (ATL)

4.2 Sources of information

PRESTON, C.D., PEARMAN, D.A. & DINES, T.D. 2002. New Atlas of the British & Irish Flora. Oxford: Oxford University Press.

b) Maximum

b) Maximum

5. Range

5.1 Surface area (km²)

5.2 Short-term trend Period

5.3 Short-term trend Direction

Stable (0) 5.4 Short-term trend Magnitude a) Minimum

5.5 Short-term trend Method used

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

5.9 Long-term trend Method used

5.10 Favourable reference range

a) Minimum

a) Area (km²)

b) Operator

c) Unknown

d) Method

5.11 Change and reason for change in surface area of range

No change

The change is mainly due to:

5.12 Additional information

| | | _ | | | 1 _ | .: | _ | |
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6.1 Year or period 2013-2018 6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1) b) Minimum c) Maximum d) Best single value 1022 6.3 Type of estimate Minimum 6.4 Additional population size (using a) Unit number of map 10x10 km grid cells (grids10x10) population unit other than reporting b) Minimum 336 unit) c) Maximum d) Best single value 6.5 Type of estimate 6.6 Population size Method used Based mainly on extrapolation from a limited amount of data 6.7 Short-term trend Period 2007-2018 6.8 Short-term trend Direction Stable (0) 6.9 Short-term trend Magnitude a) Minimum b) Maximum c) Confidence interval 6.10 Short-term trend Method used Based mainly on extrapolation from a limited amount of data 6.11 Long-term trend Period 6.12 Long-term trend Direction 6.13 Long-term trend Magnitude a) Minimum b) Maximum c) Confidence interval 6.14 Long-term trend Method used 6.15 Favourable reference a) Population size population (using the unit in 6.2 or b) Operator 6.4)c) Unknown d) Method 6.16 Change and reason for change No change in population size The change is mainly due to:

6.17 Additional information

7. Habitat for the species

7.1 Sufficiency of area and quality of occupied habitat

a) Are area and quality of occupied habitat sufficient (to maintain the species at FCS)? Yes

b) Is there a sufficiently large area of occupied AND unoccupied habitat of suitable quality (to maintain the species at FCS)?

7.2 Sufficiency of area and quality of occupied habitat Method used

Based mainly on extrapolation from a limited amount of data

2007-2018

7.4 Short-term trend Direction

Stable (0)

7.5 Short-term trend Method used

Based mainly on expert opinion with very limited data

7.6 Long-term trend Period

7.3 Short-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

8. Main pressures and threats

8.1 Characterisation of pressures/threats

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

No

b) Indicate the status of measures

9.2 Main purpose of the measures taken

9.3 Location of the measures taken

9.4 Response to the measures

9.5 List of main conservation measures

9.6 Additional information

10. Future prospects

10.1 Future prospects of parameters

- a) Range
- b) Population
- c) Habitat of the species

10.2 Additional information

11. Conclusions

11.1. Range

11.2. Population

11.3. Habitat for the species

11.4. Future prospects

11.5 Overall assessment of Conservation Status

11.6 Overall trend in Conservation Status

11.7 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:

11.8 Additional information

12. Natura 2000 (pSCIs, SCIs and SACs) coverage for Annex II species

12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

Distribution Map

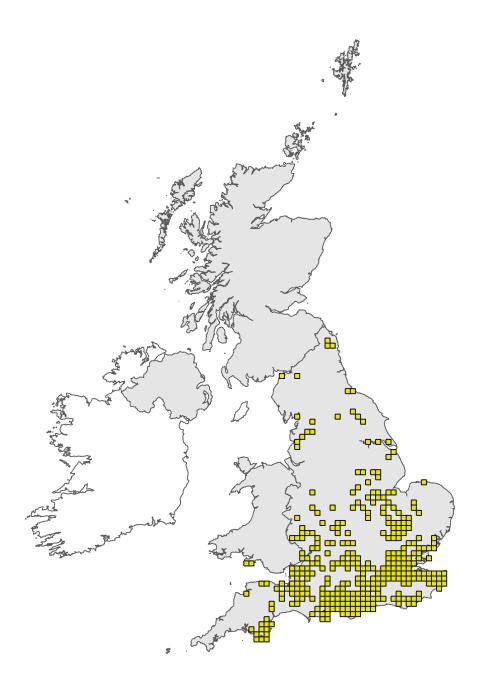


Figure 1: UK distribution map for S1849 - Butcher's broom (*Ruscus aculeatus*). Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

The 10km grid square distribution map is based on available species records within the current reporting period. For further details see the 2019 Article 17 UK Approach document.

Range Map

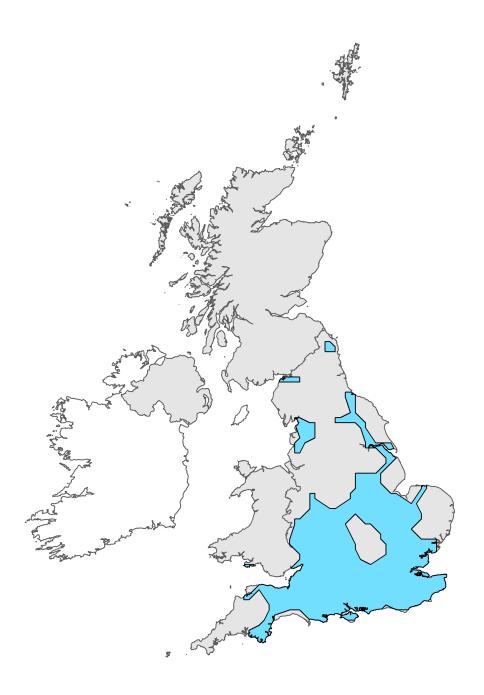


Figure 2: UK range map for S1849 - Butcher's broom (*Ruscus aculeatus*). Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

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 species was 20km. For further details see the 2019 Article 17 UK Approach document.

Explanatory Notes

Species name: Ruscus aculeatus (1849)

Field label

used

2.4 Distribution map; Method No targeted survey for this species so mapping likely to be incomplete but there has been much general botanical survey effort in the reporting period (for the next Atlas due to be completed in 2020) so results are considered at least representative.