

**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 species:

S1224 - Loggerhead turtle (*Caretta caretta*)

UNITED KINGDOM

IMPORTANT NOTE - PLEASE READ

- The information in this document represents 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.
- 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 species 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 reports.
- 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 not relevant to this species (section 12 Natura 2000 coverage for Annex II species).
- 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 11 for Annex II, IV and V species (Annex B)

NATIONAL LEVEL

1. General information

| | |
|---|-------------------|
| 1.1 Member State | UK |
| 1.2 Species code | 1224 |
| 1.3 Species scientific name | Caretta caretta |
| 1.4 Alternative species scientific name | |
| 1.5 Common name (in national language) | Loggerhead turtle |

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 | Insufficient or no data available |
| 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 | No |
| | b) temporary or local prohibition of the taking of specimens in the wild and exploitation | No |
| | 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 | No |
| | f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens | No |
| | g) breeding in captivity of animal species as well as artificial propagation of plant species | No |
| | h) other measures | No |

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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

Marine Atlantic (MATL)

4.2 Sources of information

Bolten, A.B., Bjorndal, K.A., Martins, H.R., Dellinger, T., Bischoito, M.J., Encalada, S.E., Bowen, B.W. 1998. Transatlantic developmental migrations of loggerhead sea turtles demonstrated by mtDNA sequence analysis. *Ecol Appl* 8:1-7
 Carr, A. 1987. New perspectives on the pelagic stage of sea turtle development. *Conserv Biol* 1:103-121

Gomez de Segura, A., Tomas, J., Pedraza, S. N., Crespo, E. A, Raga, J. A. 2006. Abundance and distribution of the endangered loggerhead turtle in Spanish Mediterranean waters and its implications. *Animal Conservation* 9:199-206
 Hays, G.C., Marsh R. 1997. Estimating the age of juvenile loggerhead sea turtles in the North Atlantic. *Canad J Zool* 75:40-46

Lewison, R., Freeman, S.A and Crowder, L. B. 2004. Quantifying the effects of fisheries on threatened species : the impact of pelagic longlines on loggerhead and leatherback sea turtles.

Marco, A., Abella, E., Liria-Loza, A., Martins, S., Lopez, O., Jimenez-Bordon, S., Medina, M., Oujo, C., Gaona, J., Godley, B.J., Lopez-Jurado, L.F. 2012. Abundance and exploitation of loggerhead turtles nesting in Boa Vista island, Cape Verde: the only substantial rookery in the eastern Atlantic. *AnimConserv* 15:351-360

Margaritoulis, D. And Demetropoulos, A. 2001. Proceedigs of the first Mediterranean Conference on marine turtles. Rome, 24-28 October 2001. 61pp.
 Penrose, R. S. and Gander, L. R. 2017. British Isles and Republic of Ireland Marine Turtle Strandings and Sightings: Annual Report 2016. Marine Environmental Monitoring, West Wales, UK. www.strandings.com

Penrose, R. S. and Gander, L. R. 2016. British Isles and Republic of Ireland Marine Turtle Strandings and Sightings: Annual Report 2015. Marine Environmental Monitoring, West Wales, UK. www.strandings.com

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Penrose, R. S. and Gander, L. R. 2015. British Isles and Republic of Ireland Marine Turtle Strandings and Sightings: Annual Report 2014. Marine Environmental Monitoring, West Wales, UK. www.strandings.com

Penrose, R. S. and Gander, L. R. 2014. British Isles and Republic of Ireland Marine Turtle Strandings and Sightings: Annual Report 2013. Marine Environmental Monitoring, West Wales, UK. www.strandings.com

Richards, P.M., Epperly, S. P., Heppell, S. S., King, R. T., Sasso, C. R., Monncada, F., Nodarse, G., Shaver, D. J., Medina, Y and Zurita, J. 2011. Sea turtle population estimates incorporating uncertainty: a new approach applied to western North Atlantic loggerheads *Caretta caretta*. *Endangered Species Research*. 15: 151-158

Schwartz F. 1978. Behavioural and tolerance responses to cold water temperature by three species of sea turtles (Reptilia, Cheloniidae) in North Carolina. *Florida Marine Res Publ* 33:16- 18.

Spotila, J. R. 2004. Seaturtles. A complete guide to their biology, behaviour and conservation. John Hopkins Press and Oakwood Arts. ISBN 0-8018-8007-6. pp227

Witt, M.J., Penrose, R., Godley, B.J. 2007. Spatio-temporal patterns of juvenile marine turtle occurrence in waters of the European continental shelf. *Mar Biol*, 151(3), 873-885

Witt, M. J., Hawkes, L. A. Godfrey, M. H., Godley, B. J. and Broderick, A. C. 2010. Predicting the impacts of climate change on a globally distributed species: the case of the loggerhead turtle. *The Journal of Experimental Biology* 213, 901-911

5. Range

| | | |
|--|--|------------|
| 5.1 Surface area (km ²) | | |
| 5.2 Short-term trend Period | | |
| 5.3 Short-term trend Direction | | |
| 5.4 Short-term trend Magnitude | a) Minimum | b) Maximum |
| 5.5 Short-term trend Method used | Insufficient or no data available | |
| 5.6 Long-term trend Period | | |
| 5.7 Long-term trend Direction | | |
| 5.8 Long-term trend Magnitude | a) Minimum | b) Maximum |
| 5.9 Long-term trend Method used | | |
| 5.10 Favourable reference range | a) Area (km ²) 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 | | |

6. Population

| | | |
|---|-----------------------|---------------------------|
| 6.1 Year or period | | |
| 6.2 Population size (in reporting unit) | a) Unit b) Minimum | number of individuals (i) |

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| | |
|--|--|
| | c) Maximum d) Best single value |
| 6.3 Type of estimate | |
| 6.4 Additional population size (using population unit other than reporting unit) | a) Unit b) Minimum c) Maximum d) Best single value |
| 6.5 Type of estimate | |
| 6.6 Population size Method used | |
| 6.7 Short-term trend Period | |
| 6.8 Short-term trend Direction | Unknown (x) |
| 6.9 Short-term trend Magnitude | a) Minimum b) Maximum c) Confidence interval |
| 6.10 Short-term trend Method used | Insufficient or no data available |
| 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 population (using the unit in 6.2 or 6.4) | a) Population size b) Operator c) Unknown d) Method |
| 6.16 Change and reason for change in population size | No change 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 (for long-term survival)? b) Is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term survival)? | Unknown |
| 7.2 Sufficiency of area and quality of occupied habitat Method used | Insufficient or no data available | |
| 7.3 Short-term trend Period | | |
| 7.4 Short-term trend Direction | Unknown (x) | |
| 7.5 Short-term trend Method used | Insufficient or no data available | |

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7.6 Long-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

| Pressure | Ranking |
|--|---------|
| Threats and pressures from outside the EU territory (Xe) | H |
| Threat | Ranking |
| Threats and pressures from outside the EU territory (Xe) | H |
| Other climate related changes in abiotic conditions (N09) | M |
| Desynchronisation of biological / ecological processes due to climate change (N06) | M |

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 | Unknown |
| b) Population | Unknown |
| c) Habitat of the species | Unknown |

10.2 Additional information

11. Conclusions

11.1. Range

11.2. Population

11.3. Habitat for the species

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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

The change is mainly due to:

b) Overall trend in conservation status

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)

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

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

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

There is limited or insufficient new evidence on which to update this species since the previous reporting round

Distribution Map

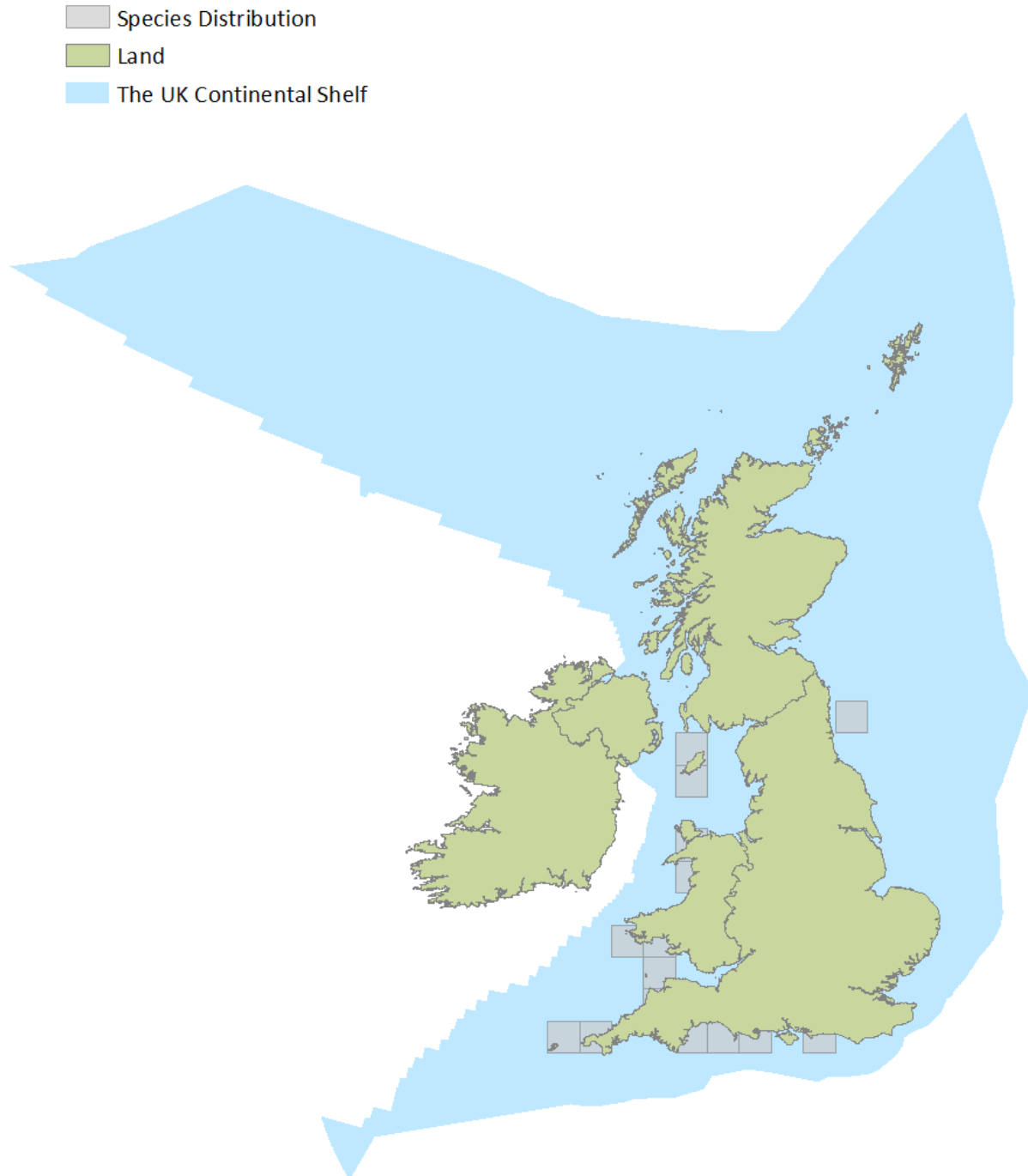


Figure 1: UK distribution map for S1224 - Loggerhead turtle (*Caretta caretta*).

The 50km 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.