

**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:

S2621 - Fin whale (*Balaenoptera physalus*)

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 | 2621 |
| 1.3 Species scientific name | <i>Balaenoptera physalus</i> |
| 1.4 Alternative species scientific name | |
| 1.5 Common name (in national language) | Fin whale |

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? | <table> <tr> <td>a) regulations regarding access to property</td><td>No</td></tr> <tr> <td>b) temporary or local prohibition of the taking of specimens in the wild and exploitation</td><td>No</td></tr> <tr> <td>c) regulation of the periods and/or methods of taking specimens</td><td>No</td></tr> <tr> <td>d) application of hunting and fishing rules which take account of the conservation of such populations</td><td>No</td></tr> <tr> <td>e) establishment of a system of licences for taking specimens or of quotas</td><td>No</td></tr> <tr> <td>f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens</td><td>No</td></tr> <tr> <td>g) breeding in captivity of animal species as well as artificial propagation of plant species</td><td>No</td></tr> <tr> <td>h) other measures</td><td>No</td></tr> </table> | 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 |
| 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

Aniceto, A. S., Carroll, J., Tetley, M. J., Oosterhout, C. V. (2016). Position, swimming direction and group size of fin whales (*Balaenoptera physalus*) in the presence of a fast-ferry in the Bay of Biscay, *Oceanologia*, Volume 58, Issue 3, 2016, Pages 235-240.

Castellote, M., Clark, C. W., & Lammers, M. O. (2012). Acoustic and behavioural changes by fin whales (*Balaenoptera physalus*) in response to shipping and airgun noise. *Biological Conservation*, 147(1), 115-122.
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CODA, 2009. Cetacean Offshore Distribution and Abundance in the European Atlantic (CODA). Final Report, 43pp. http://biology.st-andrews.ac.uk/coda/documents/CODA_Final_Report_11-2-09.pdf

Das, K., Holleville, O., Ryan, C., Berrow, S., Gilles, A., Ody, D and Michel, L. N. (2017). Isotopic niches of fin whales from the Mediterranean Sea and the Celtic Sea (North Atlantic), *Marine Environmental Research*, Volume 127, 2017, Pages 75-83, <https://doi.org/10.1016/j.marenvres.2017.03.009>.

Deaville, R. (2011:2017). Annual reports for the period 1st January to 31st December. UK Cetacean Strandings Investigation Programme (CSIP).
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- Jensen, A.S. and G.K. Silber. (2004). Large Whale Ship Strike Database. U.S. Department of Commerce, NOAA Technical Memorandum. NMFS-OPR-, 37 pp.
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Stone, C. J. (2015). Marine mammal observations during seismic surveys from 1995-2010. Report to JNCC. No 463a. Available here:

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Stone, C. J., Hall, K. Mendes, S and Tasker, M. L. (2017). The effects of seismic operations in UK waters: analysis of Marine Mammal Observer data. J. Cetacean Red. Manage 16:71-85

Vanderlan, A.S.M. & Taggart. C.T. (2007). Vessel collisions with whale: the probability of lethal injury based on vessel speed. Marine Mammal Science. 23(1):144-156

5. Range

| | |
|--|---|
| 5.1 Surface area (km ²) | 823178 |
| 5.2 Short-term trend Period | 1979-2018 |
| 5.3 Short-term trend Direction | Stable (0) |
| 5.4 Short-term trend Magnitude | a) Minimum b) Maximum |
| 5.5 Short-term trend Method used | Based mainly on expert opinion with very limited data |
| 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) 823178 b) Operator c) Unknown d) Method Range estimated for the current period matches the range given in the 2013 reporting round (excluding analytic differences). |
| 5.11 Change and reason for change in surface area of range | Use of different method The change is mainly due to: Use of different method |
| 5.12 Additional information | Range estimated for the current period matches the range given in the 2013 reporting round (excluding analytical differences). This range is considered sufficient and includes all significant ecological variations to ensure survival of the species. Areas within the range are utilised to a lesser or greater extent. |

6. Population

| | |
|--------------------|------|
| 6.1 Year or period | 2016 |
|--------------------|------|

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| | | |
|--|---|---------------------------|
| 6.2 Population size (in reporting unit) | a) Unit | number of individuals (i) |
| | b) Minimum | 1927 |
| | c) Maximum | 5753 |
| | d) Best single value | 3330 |
| 6.3 Type of estimate | 95% confidence interval | |
| 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 | Complete survey or a statistically robust estimate | |
| 6.7 Short-term trend Period | 2007-2018 | |
| 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 | x |
| | d) Method | |
| 6.16 Change and reason for change in population size | No change | |
| | The change is mainly due to: | |
| 6.17 Additional information | The estimate of population size (6.2) is given as a point estimate (6.2d) with the corresponding 95% confidence intervals (6.2b&c). This is the first reliable abundance estimate following a dedicated survey covering UK waters for this species. | |

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)? | Unknown |
| | b) Is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term survival)? | |

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| | |
|---|---|
| 7.2 Sufficiency of area and quality of occupied habitat Method used | Based mainly on expert opinion with very limited data |
| 7.3 Short-term trend Period | 2007-2018 |
| 7.4 Short-term trend Direction | Unknown (x) |
| 7.5 Short-term trend Method used | Insufficient or no data available |
| 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 |
|---|---------|
| Shipping lanes and ferry lanes transport operations (E02) | M |
| Threats and pressures from outside the EU territory (Xe) | M |
| Threat | Ranking |
| Shipping lanes and ferry lanes transport operations (E02) | M |
| Decline or extinction of related species (e.g. food source / prey, predator / parasite, symbiote, etc.) due to climate change (N07) | M |
| Threats and pressures from outside the EU territory (Xe) | 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 | This species is not an Annex II species under the Habitats Directive, therefore conservation measures stipulated in the Directive are not required. This is reflected in the UK response to field 9.1 (with no measures listed under field 9.5). However, the UK has been committed to supporting several international agreements and conventions on the conservation of marine mammals and the marine environment in general. For example: The Convention on Migratory Species; the Convention for the Protection of the Marine Environment of the |
|----------------------------|--|

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North-East Atlantic (OSPAR). The UK Government funds a national strandings scheme, ongoing since 1990, which aims to: collate, analyse and report data for all cetacean strandings around the coast of the UK; determine the causes of death in stranded cetaceans, including bycatch and physical trauma and; undertake surveillance on the incidence of disease in stranded cetaceans in order to identify any substantial new threats to their conservation status. These considerations for this species most closely equate to the following four measures in the EU conservation measures list: Reduce impact of military installations and activities (CH01) Control/eradication of illegal killing, fishing and harvesting (CG04) Adapt/manage exploitation of energy resources (CC02) Adapt/manage fossil energy installation, facilities and operation (CC05).

10. Future prospects

10.1 Future prospects of parameters

| | |
|---------------------------|---------|
| a) Range | Good |
| b) Population | Unknown |
| c) Habitat of the species | Unknown |

10.2 Additional information

These results are based on the current conservation status for each parameter combined with the future trend for each parameter. The future trend is an estimate of how the parameter is likely to progress into the future, using the current trend as a baseline and considering the balance between threats and measures to assess how these are likely to affect that trend over the next two reporting cycles (12 years). For fin whale, the future trend of Range is assessed as Overall Stable. As the current conservation status for Range is Favourable for this species, the future prospects are considered Good. The future trend and consequently the future prospects for the Population and Habitat parameters are assessed as Unknown; this is due to there being insufficient data to establish current trends for these parameters

11. Conclusions

11.1. Range

Favourable (FV)

11.2. Population

Unknown (XX)

11.3. Habitat for the species

Unknown (XX)

11.4. Future prospects

Unknown (XX)

11.5 Overall assessment of Conservation Status

Unknown (XX)

11.6 Overall trend in Conservation Status

Unknown (x)

11.7 Change and reasons for change in conservation status and conservation status trend

a) Overall assessment of conservation status

Use of different method

The change is mainly due to: Use of different method

b) Overall trend in conservation status

No change

The change is mainly due to:

11.8 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

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approximately equal to the Favourable Reference Range.

Conclusion on Population reached because: (i) the FRP is unknown; and (ii) the short-term trend direction in Population size is unknown.

Conclusion on Habitat for the species reached because: (i) the area of habitat is sufficiently large but (ii) the habitat quality is unknown for the long-term survival of the species; and (iii) the short-term trend in area and quality of habitat is unknown.

Conclusion on Future prospects reached because: (i) the Future prospects for Range are good but; (ii) the Future prospects for Population are unknown; and (iii) the Future prospects for Habitat for the species are unknown.

Overall assessment of Conservation Status is Unknown because two or more of the conclusions are Unknown.

Overall trend in Conservation Status is based on the combination of the short-term trends for Range - stable, Population - unknown, and Habitat for the species - unknown.

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

Distribution Map

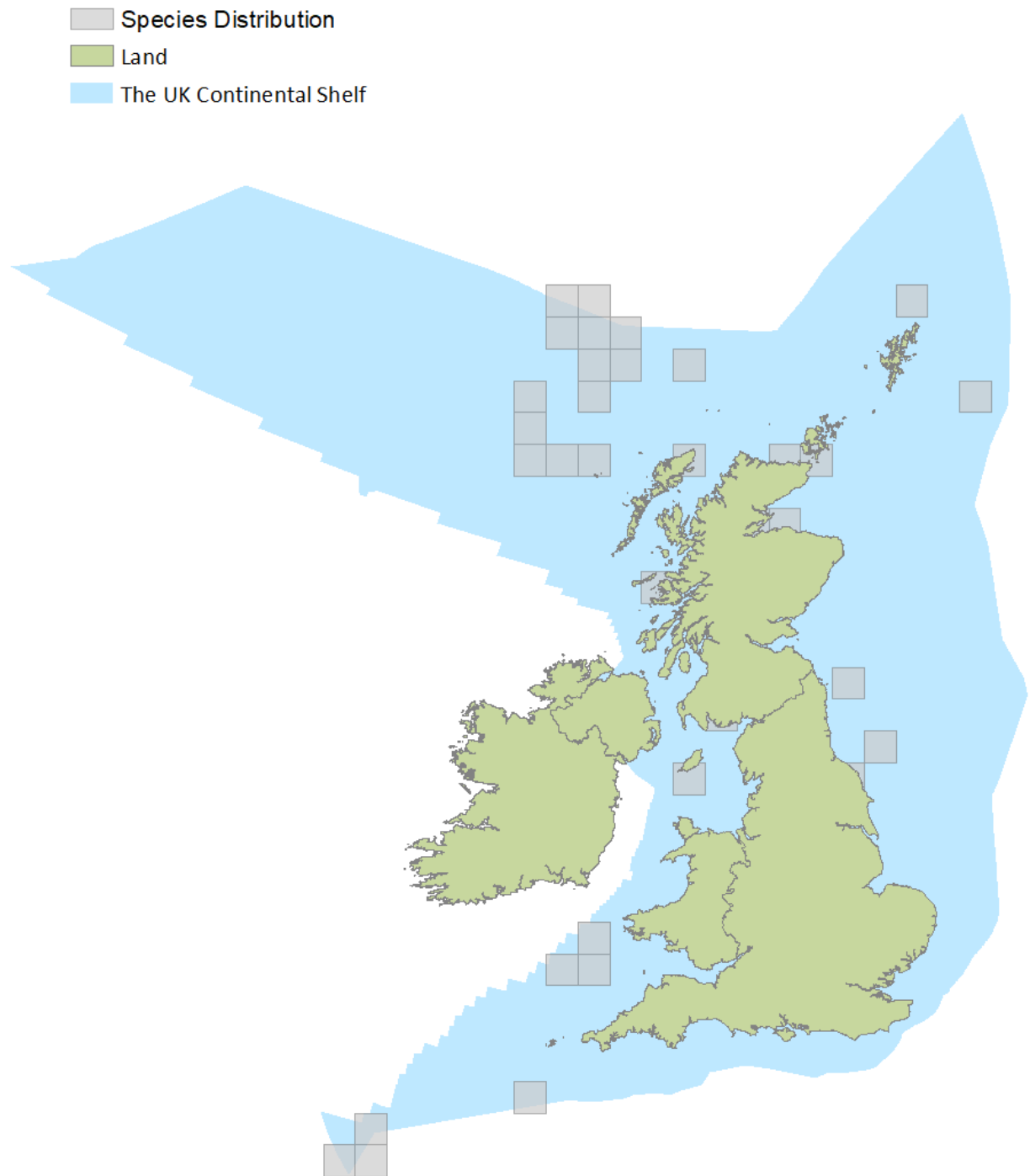


Figure 1: UK distribution map for S2621 - Fin whale (*Balaenoptera physalus*).

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.

Range Map

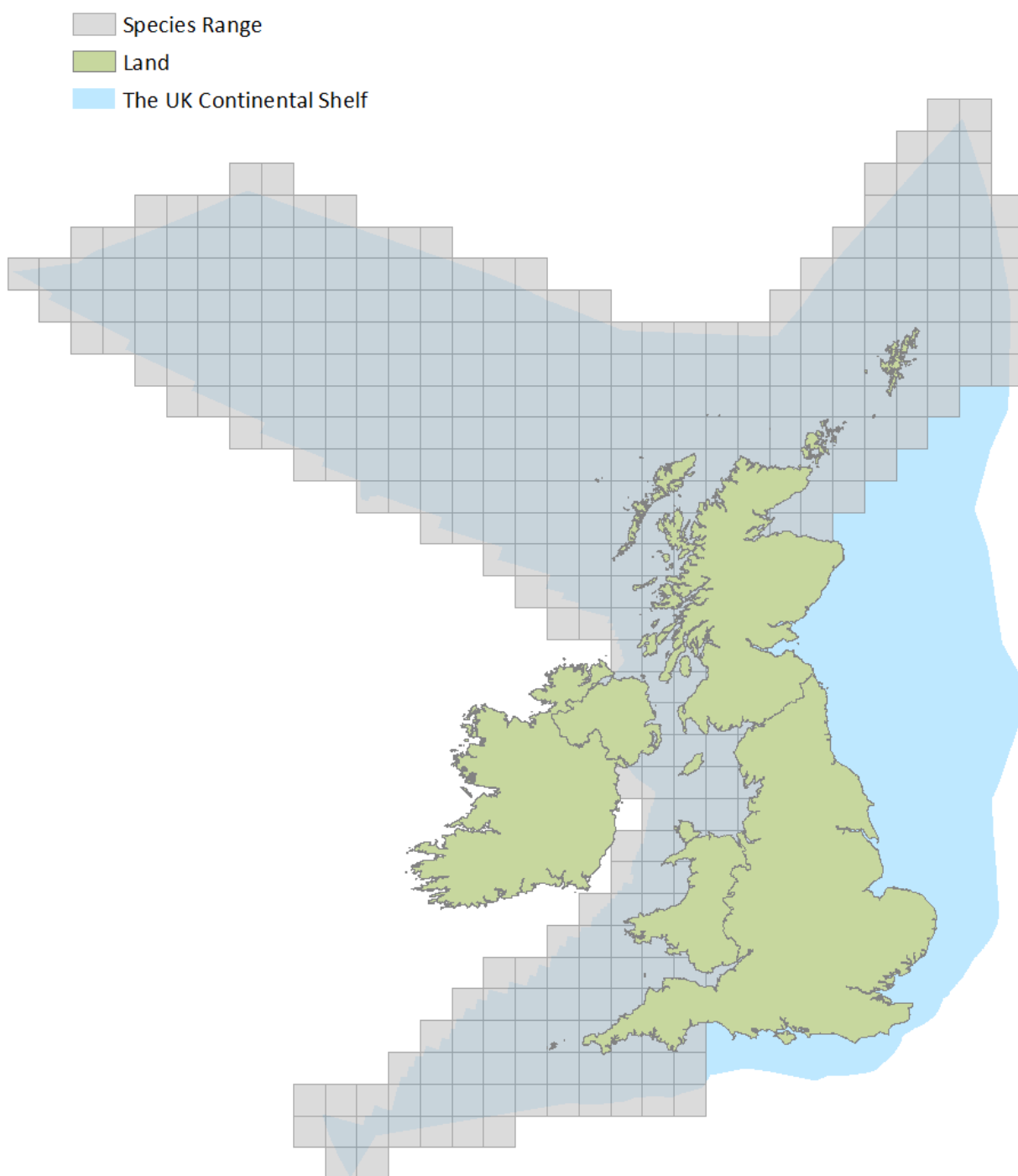


Figure 2: UK range map for S2621 - Fin whale (*Balaenoptera physalus*).

The 2013-2018 range was based on interpolation of distribution data from the 2003 and previous Article 17 reports. The 2013-2018 range estimate also took into account the distribution data shown in Reid et al. (2003) which incorporated sightings data from a range of sources spanning 1979-2001. For the current report, the 2013-2018 range was mapped using a grid of 50x50km resolution and projected to ETRS LAEA 5210.

Explanatory Notes

Species name: *Balaenoptera physalus* (2621)

| Field label | Note |
|-----------------------|---|
| 2.1 Sensitive species | This refers to sensitivities around publishing distribution data. |
| 2.3 Distribution map | The distribution illustrated in Annex C under-represents the distribution of this species. The distribution map is based on actual sightings of fin whales, covering the UK Exclusive Economic Zone (EEZ) and UK Continental Shelf area (hereafter referred to as 'UK waters') between 2013 and 2018. This collates sightings data from the SCANS-III, SeaWatch Foundation, MARINELife, National Biodiversity Network and ORCA datasets and includes both effort related sightings and confirmed opportunistic sightings collected from land, ship and aerial platforms during this period. Survey effort in offshore areas is low and as a result the distribution is inferred from relatively few sightings. Some recorded sightings are considered to be anomalies and not a true part of the species range based on expert knowledge, such as the southern North Sea. |
| 2.5 Additional maps | Predicted core range for fin whales in UK waters (see map Annex B). No evidence of change since 2013 reporting round. Due to insufficient available data, the modelling approach (see Paxton et al., 2016) used for the more common species could not be applied to fin whale. Instead, the 2013 range was based on interpolation of distribution data from the 2003 and previous Article 17 reports. The 2013 range estimate also took into account the distribution data shown in Reid et al., (2003) which incorporated sightings data from a range of sources spanning 1979-2001. |

Species name: *Balaenoptera physalus* (2621) Region code: MATL

| Field label | Note |
|--|---|
| 5.3 Short term trend; Direction | Range for the current report (823,629km ²) is equal to the range presented in the 3rd reporting round (2013) (823,178km ²). |
| 5.5 Short term trend; Method used | Due to insufficient data, the modelling approach (see Paxton et al., 2016) used for the more common species could not be applied to fin whale. Instead, the 2013 reported range was based on interpolation of distribution data from the 2003 and previous Article 17 reports. The 2013 range estimate also considered the distribution data shown in Reid et al (2013) which incorporated sightings data from a range of sources spanning 1979-2001 (see Article 17 2013 report for fin whale for further detail). The distribution data collated for the current report was compared with the range from the 2013 report. Although there have been sightings within the central North Sea, these are not considered representative of the core range for this species. Sightings in the central and southern North Sea and the eastern Channel are uncommon for this species. As there was no discernible difference between the 3rd (2013) and 4th (2019) UK reporting rounds, the range is considered stable. |
| 5.10 Favourable reference range | The favourable reference range is approximately equal to the surface area given in Section 5.1 |
| 5.11 Change and reason for change in surface area of range | Range is considered stable but there is a minor difference in the range value between this report and the 3rd reporting round (2013). The difference is due to the use of a slightly different grid template and does not represent an actual difference in the species range between reporting rounds. |
| 6.1 Year or Period | This is when the SCANS-III survey was conducted (Hammond et al., 2017). |
| 6.2 Population size | SCANS-III block estimates of abundance have been pro-rated across UK waters. Minimum and maximum are the lower and upper 95% confidence intervals respectively. The best single value is the point estimate. |

| | |
|---|--|
| 6.6 Population size; Method used | The SCANS-III survey was designed to provide robust estimates of cetacean abundance. The survey provides coverage of UK EEZ waters. The area west of the EEZ out to the UK Continental Shelf boundary was assumed to have the same density of animals as the adjacent survey block from SCANS-III. The resulting estimates are considered statistically robust. |
| 6.10 Short term trend; Method used | This is the first assessment of fin whale abundance from a single survey with coverage of UK waters (shelf and offshore) (SCANS III: Hammond et al. 2017). The previous reporting round (2013) gave a value for fin whale abundance, but there is little confidence in the estimate. The estimate was derived from the CODA survey in 2007 (CODA, 2009); with regards to UK coverage, this survey only covered offshore waters west of Scotland. However, the lower 95% confidence interval of the density estimates for the offshore area was applied to adjacent areas within the fin whale range (accounting for a large portion of the range), to give a minimum estimate for fin whale abundance in UK shelf waters and combined with the offshore estimate to give a rough overall figure for fin whale abundance in UK waters. This approach is now superseded by the availability of an estimate from the SCANS-III survey (Hammond et al. 2017) which covered both shelf and offshore waters. |
| 6.15 Favourable reference population | This is the first reliable abundance estimate following a dedicated survey covering UK waters for this species. The 3rd UK Article 17 report set an FRV for fin whale abundance. This was based on the population estimate, derived from the CODA (2007) survey. However, this estimate it is not as robust as the estimate derived from the SCANS III survey and the values are not comparable. Given there is only one reliable population estimate and a lack of reliable trend information it is not possible to state whether the current population represents a favourable reference population. The FRP is therefore currently Unknown. |
| 7.1 Sufficiency of area and quality of occupied habitat | As data relating to habitat quality is limited for this species, the assessment of this parameter is based on the conclusions for range and population as a proxy for habitat. Although fin whale range is considered stable, with only one reliable UK abundance estimate it is not possible to explore trends and the conclusion for the population parameter is Unknown. As the population parameter is Unknown, we cannot conclude that the supporting habitat is sufficient. |
| 8.1 Characterisation of pressures/ threats | General information for Fin whale: Pressure ranking is mainly based on expert opinion and data from post mortem of stranded animals, which indicate sources of mortality for this species. A literature search was carried out for any other available evidence to support the assessments. The primary causes of death in fin whales globally are bycatch and collision (Laist, 2001; Jensen and Silber, 2004; Vanderlaan and Taggart, 2007; IJsseldijk et al., 2014). There may also be energetic consequences of behavioural responses to disturbance (Jahoda et al. 2003; Castellote et al., 2012). Between 2000-2017, 44 fin whales were reported as stranded in the UK, of which 10 were examined at post mortem by the UK Cetacean Strandings Investigation Programme (UK CSIP). The main causes of death were physical trauma (vessel strike) (3), starvation (2) and live stranding (2). |
| 8.1 Characterisation of pressures/ threats | Xo Threats and pressures from outside member states. Fin whales have been historically hunted in neighbouring waters. Given the migratory nature of fin whales, individuals taken in a hunt are likely to be from the same population as those occurring in UK waters. Fin whales have not been taken in any great numbers for over a decade, but Iceland began to hunt more frequently from 2009, taking between 125 - 155 animals per year (https://iwc.int/table_objection). |

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| 8.1 Characterisation of pressures/ threats | E02 Shipping lanes and ferry lanes transport operations. Application of pressure: Used to identify risk from disturbance and collision from shipping. Collision with vessels is considered a primary cause of death in fin whales in some regions, for example the Mediterranean (Panigada et al, 2017), US west coast (Rockwood et al., 2017), western Canada (Nichol et al, 2017) and Bay of Biscay (Anuieto et al, 2016). Of the 10 post mortem examinations carried out on stranded fin whales in the UK between 2000 and 2017, 3 animals had the cause of death of physical trauma resulting from probable ship strike (Deaville 2011:2017). Likelihood of animals making landfall following a fatal collision is limited due to distribution, therefore the magnitude of the impact of this pressure is biased low. |
| 8.1 Characterisation of pressures/ threats | N07 Decline or extinction of related species (e.g. food source / prey, predator / parasite, symbiot, etc.) due to climate change. Application of pressure: Used to identify risk of changes in availability of prey as a result of climate change. There is no current evidence for the effects of climate change on fin whales. The effects of climate change on fin whales is likely to be mediated through variation in prey resource. Atlantic fin whales appear to have a more diverse diet than, for example, those found in the Mediterranean which specialise on krill (Das et al., 2017), and have been found to consume herring and sprat as well as krill (Ryan et al., 2014). There is evidence in other parts of the Atlantic for differential resource use amongst rorqual whales, including fin whales, following ecosystem change (Gavrillchuk et al., 2014) which indicates potential to adapt to new food sources, potentially reducing the impact of this threat. |
| 9.5 List of main conservation measures | CG04 Control/eradication of illegal killing, fishing and harvesting: The Habitats Directive is transposed into UK law under the Habitat Regulations (HR) for England and Wales (as amended) and the Offshore Marine Conservation (Natural Habitats, &c.) Regulations 2007 (as amended), which make it an offence to kill, injure, capture or disturb European marine protected species. Similar legislation exists for Scottish and Northern Irish inshore waters. |
| 9.5 List of main conservation measures | CG05 Reduce bycatch and incidental killing of non-target species: The UK is implementing the European Council Regulation EC 812/2004, which lays down measures concerning incidental catches of cetaceans in fisheries, and more generally the bycatch obligations within the Habitats Directive. Since 2004, a dedicated bycatch monitoring programme has been in place with both dedicated and non-dedicated onboard observers collecting data on bycatch numbers. |
| 9.5 List of main conservation measures | CC02 Adapt/manage exploitation of energy resources: Guidance for the protection of marine European Protected Species from deliberate injury, killing and disturbance has been drafted (JNCC 2010a; Marine Scotland, 2014). Marine Industries generate a variety of noise through activities such as geophysical surveys (e.g. seismic surveys (JNCC 2017)), construction (e.g. pile driving (JNCC 2010b)) and decommissioning (e.g. use of explosives (2010c)). As part of the licencing procedures, developers and operators are required to utilise JNCC guidelines to minimise the risk of injury to cetaceans when undertaking such activities (JNCC 2010b, 2010c; JNCC 2017). The guidelines advise on conducting marine mammal observations prior to and during the activity and, where suitable, utilising procedures such as soft start (gradual introduction of the sound) to reduce and avoid direct harm to animals. A review of the marine mammal observer data (e.g. Stone, 2015) demonstrated the effectiveness of soft start approach (Stone et al. 2017). |
| 9.5 List of main conservation measures | CH01 Reduce impact of military installations and activities: The UK Ministry of Defence (MOD) has a Statement of Intent with UK Statutory Nature Conservation Bodies concerning conduct in relation to marine disturbance and has developed a real-time alert procedure for naval training operations. |

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| 10.1 Future prospects of parameters | <p>Range: The overall assessment of this parameter is favourable and there is no evidence that risk is increasing in the next 12 years (two reporting rounds); Population: Insufficient information to assess the status of this parameter. Although the pressures impacting this parameter are not thought to be increasing and there are no threats identified which are likely to impact in the next 12 years, the uncertainty surrounding the current status of this parameter make it impractical to predict future prospects; Habitat of the species: Insufficient information to assess the status of this parameter. Although the pressures impacting this parameter are not thought to be increasing and there are no threats identified which are likely to impact in the next 12 years, the uncertainty surrounding the current status of this parameter make it impractical to predict future prospects.</p> |
| 11.1 Range | There is no evidence to suggest range has changed since the last reporting round (2013) and therefore the range assessment remains Favourable. |
| 11.2 Population | The FRP is unknown. Therefore, the current abundance cannot be compared to the FRP and the conclusion for population is Unknown. |
| 11.3 Habitat for the species | Range is favourable but population is Unknown. Therefore, the quality of habitat for the species cannot be inferred in the absence of population information. |
| 11.4 Future prospects | There are two or more Unknown results (population and habitat) therefore future prospects are Unknown. |
| 11.5 Overall assessment of Conservation Status | There are two or more Unknown results (population, habitat and future prospects) therefore the overall assessment of conservation status is Unknown. |
| 11.7 Change and reasons for change in conservation status and conservation status trend | <p>The assessment has changed from Favourable in the 3rd reporting round (2013) to Unknown due to a revised approach to dealing with limited data and interpretation of the guidance relating to the Favourable Reference Values (FRVs). According to the Art17 reporting guidance (DG Environment, 2017), assessment of the population parameter is based on how the current estimate compares with the Favourable Reference Population (FRP). A population is considered Favourable if the species abundance estimate is not below the FRV set for population. Due to data limitations, cetacean FRPs were set based on the best UK abundance estimates made as close in time as possible to when the Habitats Directive was adopted. This approach was taken in the UK's 3rd reporting round (2013) and was supported by the Article 17 Guidance at the time (Evans and Marvela, 2013). However, the UK's interpretation of the FRP concept has changed between reporting rounds and concludes that information on trends needs to be understood to set an FRP. A minimum of three data points are required to explore trends and considering the large confidence intervals associated with cetacean abundance estimates at such a wide scale, the statistical power to detect anything beyond a dramatic change is likely to be limited from only three estimates. Where less than three data points are available, identification of trends is not possible. The change in the overall conclusion is therefore driven by this change in approach between the reporting rounds.</p> |