

**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:

S1317 - Nathusius' pipistrelle (*Pipistrellus nathusii*)

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	1317
1.3 Species scientific name	Pipistrellus nathusii
1.4 Alternative species scientific name	
1.5 Common name (in national language)	Nathusius' pipistrelle

2. Maps

2.1 Sensitive species	No
2.2 Year or period	1994-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on extrapolation from a limited amount of data
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
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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

Atlantic (ATL)

4.2 Sources of information

England

Barlow, K., D. Hargreaves and F. Mathews (2016). Understanding the ecology, current status and conservation threats for *Nathusius' pipistrelle* in Great Britain - a pilot study. Final Report to the People's Trust for Endangered Species, People's Trust for Endangered Species.

Bat Conservation Trust (2018). The State of the UK's Bats 2017. Bat Conservation Trust, London. Available at (http://www.bats.org.uk/pages/results_and_reports.html)

Dietz, C., Helversen, O. von and Nill, D. (2009). Bats of Britain, Europe & Northwest Africa. A & C Black Publishers Ltd, London.

Hutson, A.M., F. Spitzenberger, J. Juste, S. Aulagnier, J. Palmeirim, A. Karatas and Paunovic (2008) *Pipistrellus nathusii*. In: IUCN 2013. IUCN Red List of Threatened Species. Version 2013. 1.

Hutterer, R. (2005). Bat migrations in Europe; a review of banding data and literature. BfN, Bonn, Naturschutz und Biologische Vielfalt 28.

Ijas, A., A. Kahliainen, V.V. Vasko and T.M. Lilley (2017). Evidence of the Migratory Bat, *Pipistrellus nathusii*, Aggregating to the Coastlines in the Northern Baltic Sea. *Acta Chiropterologica.*, 19, 127-139

Lundy, M., Montgomery, I and Russ, J. (2010). Climate change - linked range expansion of *Nathusius' pipistrelle* bat, *Pipistrellus nathusii* (Keyserling & Blasius, 1839). *Journal of Biogeography*, 37, 2232-2242

Mathews, F., Kubasiewicz, L.M., Gurnell, J., Harrower, C., McDonald, R.A., Shore, R.F (2018). A review of the population and conservation status of British Mammals. A report by the Mammal Society under contract to Natural England, Natural Resources Wales and Scottish Natural Heritage.

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- Moussy, C., D.J. Hosken, F. Mathews, G.C. Smith, J.N. Aegerter and Bearhop (2013). Migration and dispersal patterns of bats and their influence on genetic structure. *Mammal Review*, 43 (3), 183-195
- Scotland
- Barlow, K., D. Hargreaves and F. Mathews (2016). Understanding the ecology, current status and conservation threats for *Nathusius' pipistrelle* in Great Britain - a pilot study. Final Report to the People's Trust for Endangered Species, People's Trust for Endangered Species.
- Bat Conservation Trust (2018). The State of the UK's Bats 2017. Bat Conservation Trust, London. Available at http://www.bats.org.uk/pages/results_and_reports.html
- Dietz, C., Helvesen, O. von and Nill, D. (2009). Bats of Britain, Europe & Northwest Africa. A & C Black Publishers Ltd, London.
- Hutson, A.M., F. Spitzenberger, J. Juste, S. Aulagnier, J. Palmeirim, A. Karatas and Paunovic (2008) *Pipistrellus nathusii*. In: IUCN 2013. IUCN Red List of Threatened Species. Version 2013. 1.
- Hutterer, R. (2005). Bat migrations in Europe; a review of banding data and literature. BfN, Bonn, Naturschutz und Biologische Vielfalt 28.
- Ijas, A., A. Kahliainen, V.V. Vasko and T.M. Lilley (2017). Evidence of the Migratory Bat, *Pipistrellus nathusii*, Aggregating to the Coastlines in the Northern Baltic Sea. *Acta Chiropterologica*, 19, 127-139
- Lundy, M., Montgomery, I and Russ, J. (2010). Climate change - linked range expansion of *Nathusius' pipistrelle* bat, *Pipistrellus nathusii* (Keyserling & Blasius, 1839). *Journal of Biogeography*, 37, 2232-2242
- Mathews, F., Kubasiewicz, L.M., Gurnell, J., Harrower, C., McDonald, R.A., Shore, R.F (2018). A review of the population and conservation status of British Mammals. A report by the Mammal Society under contract to Natural England, Natural Resources Wales and Scottish Natural Heritage.
- Moussy, C., D.J. Hosken, F. Mathews, G.C. Smith, J.N. Aegerter and Bearhop (2013). Migration and dispersal patterns of bats and their influence on genetic structure. *Mammal Review*, 43 (3), 183-195
- Newson, S.E., Evans, H.E., Gillings, S., Jarrett, D. & Wilson, M.W. 2017. A survey of high risk bat species across southern Scotland. Scottish Natural Heritage Commissioned Report No. 1008.
- Wales
- Bat Conservation Trust. 2018. The State of the UK's Bats 2017. Bat Conservation Trust, London. Available at http://www.bats.org.uk/pages/results_and_reports.html
- Bat Conservation Trust. 2018a. The National Bat Monitoring Programme. Annual Report 2017. Bat Conservation Trust, London. Available at www.bats.org.uk/pages/nbmp_annual_report.html
- Battersby J. (Ed.). 2005. UK Mammals: Species Status and Population Trends. JNCC/Tracking Mammals Partnership.
- Barlow K, Hargreaves D, Mathews F. 2016. Understanding the ecology, current status and conservation threats for *Nathusius' pipistrelle* in Great Britain - a pilot study. Final Report to the People's Trust for Endangered Species, People's Trust for Endangered Species.
- Dietz C, Helvesen OV, Nill D. 2009. Bats of Britain, Europe & Northwest Africa. A & C Black Publishers Ltd., London.
- Hutterer R, Ivanova T, Meyer-Cords C, Rodrigues L. 2005. Bat Migrations in Europe: A review of banding data and literature. Federal Agency for Nature Conservation, Bonn.
- Lundy M, Montgomery I, Russ J. 2010. Climate change-linked range expansion of

Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)

- Nathusius' pipistrelle bat, *Pipistrellus nathusii* (Keyserling & Blasius, 1839). J. Biogeogr. 37(12): 2232-2242.
- Mathews F, Kubasiewicz LM, Gurnell J, Harrower C, McDonald RA, Shore RF. 2018. A review of the population and conservation status of British Mammals. A report by The Mammal Society under contract to Natural England, Natural Resources Wales and Scottish Natural Heritage.
- Mitchell-Jones, T.J. 2010. Bats in houses - the conservation challenge. Pp 365-378 in Species Management: challenges and solutions for the 21st century. Baxter, J.M. & Galbraith, C.A. TSO Scotland, Edinburgh.
- Mitchell-Jones, T.M.J & Carlin, C. 2009. TIN051 Bats and onshore wind turbines Interim Guidance. 2nd edition, February 2012.<http://publications.naturalengland.org.uk/file/490077>
- Natural Resources Wales, 2013. Supporting documentation for the Third Report by the United Kingdom under Article 17 on the implementation of the Directive from January 2007 to December 2012. Conservation status assessment for Species: S1317 - Nathusius' pipistrelle bat (*Pipistrellus nathusii*).
- Richardson P. 2000. Distribution atlas of bats in Britain and Ireland 1980-1999. Bat Conservation Trust, London.
- Rodrigues L, Bach L, Dubourg-Savage MJ, Karapandza D, Kovac D, Kervyn T, Dekker J, Kepel A, Bach P, Collins J, Harbusch C, Park K, Micevski B, Minderman J. 2015. Guidelines for consideration of bats in wind farm projects - Revision 2014. EUROBATs Publication Series No. 6. UNEP/EUROBATs Secretariat, Bonn, Germany, 133pp.
- Russ J, Briffa M, Montgomery W. 2003. Seasonal patterns in activity and habitat use by bats (*Pipistrellus* spp. and *Nyctalus leisleri*) in Northern Ireland, determined using a driven transect. Journal of Zoology 259, 289-299.
- Russ JM, Hutson AM, Montgomery WI, Racey PA, Speakman JR. 2001. The status of Nathusius' pipistrelle (*Pipistrellus nathusii* Keyserling & Blasius, 1839) in the British Isles. Journal of Zoology, 254, 91-100.
- Russ JM, Jones G, Racey PA, Hutson AM. 2008. Nathusius' pipistrelle *Pipistrellus nathusii*. Pp 351-355 In: Harris, S & Yalden, D.W. Mammals of the British Isles: Handbook, 4th edition. The Mammal Society, Southampton. 799pp.
- Rydell J, Bach L, Dubourg-Savage MJ, Green M, Rodrigues L, Hedenstrom A. 2010. Bat mortality at wind turbines in northwestern Europe. Acta Chiropterologica 12, 261-274.
- Speakman JR, Racey PA, Catto CMC, Webb PI, Swift SM, Burnett AM. 1991. Minimum summer populations and densities of bats in N.E. Scotland, near the northern borders of their distributions. Journal of Zoology, 225(2), 327-345. N.Ireland
- Lundy, M. & Montgomery, I. (2010) Summer habitat associations of bats between riparian landscapes and within riparian areas, European Journal of Wildlife Research, 56(3): 385-394.
- Lundy, M.G., Aughney, T., Montgomery, W.I., and Roche, N. (2011). Landscape conservation for Irish bats & species: specific roosting characteristics. Bat Conservation Ireland. Unpublished.
- Russ, J.M. & Montgomery, W.I. (2002). Habitat association of bats in Northern Ireland: implications for conservation. Biological Conservation. 108: 49-58.
- Lundy, M.G., Buckley, D.J., Boston, E.S.M., Scott, D.D., Prodohl, P.A., Marnell, F., Teeling, E.C., Montgomery, W.I., (2012). Behavioural context of multi-scale species distribution models assessed by radio-tracking. Basic Appl. Ecol., <http://dx.doi.org/10.1016/j.baae.2011.1012.1003>.
- Hutson, A.M., Mickleburgh, S.P., and Racey, P.A. (comp.). (2001). Microchiropteran bats: global status survey and conservation action plan.

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IUCN/SSC Chiroptera Specialist Group. IUCN, Gland, Switzerland and Cambridge, UK. x + 258 pp.

Hutson, A.M., Mickleburgh, S.P. & Racey, P.A. (comp.). (2001) Global Status Survey and Conservation Action Plan Microchiropteran Bats, The Nature Conservation Bureau Ltd, ISBN: 2-8317-0595-9, <http://www.uni-giessen.de/faculties/f08/departments/tsz/mammalian-ecology-group/downloads/iucn-microchiroptera>

Russ, J.M. (1999). The Microchiroptera of Northern Ireland: community composition, habitat associations and ultrasound. Unpublished Ph.D thesis. The Queen's University of Belfast.

Russ, J.M., Briffa M. & Montgomery, W.I. (2003). Seasonal patterns in activity and habitat use by *Pipistrellus* spp. and *Nyctalus leisleri* in Northern Ireland, determined using a driving transect. *Journal of Zoology*. 259: 289-299.

Lundy, M., Montgomery, I. and Russ, J. (2010). Climate change-linked range expansion of *Nathusius' pipistrelles* bat, *Pipistrellus nathusii* (Keyserling & Blasius, 1839). *Journal of Biogeography*. 37: 2232-2242.

Boston, E. (2016) A report on Article 17 reporting for Northern Ireland on the eight bat species listed in annex IV of the UK Habitats Directive, unpublished report compiled for CEDaR

Mathews, F., Richardson, S., Lintott, P., and Hosken, D. 2016. Understanding the Risk to European Protected Species (bats) at Onshore Wind Turbine Sites to inform Risk Management. University of Exeter. Report to DEFRA.

Roche, N., Langton, S. and Aughney T. (2012) Car-based bat monitoring in Ireland 2003-2011. Irish Wildlife Manuals, No. 60. National Parks and Wildlife Service, Department of the Arts, Heritage and the Gaeltacht, Ireland.

Aughney, T., Roche, N., & Langton, S. (2016) Irish Bat Monitoring Schemes: Annual Report for 2015. www.batconservationireland.org.

5. Range

5.1 Surface area (km ²)	90231
5.2 Short-term trend Period	2013-2018
5.3 Short-term trend Direction	Increasing (+)
5.4 Short-term trend Magnitude	a) Minimum b) Maximum
5.5 Short-term trend Method used	Based mainly on extrapolation from a limited amount of 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) 90231 b) Operator c) Unknown d) Method The FRR has changed since 2013. The new value is considered to be large enough to support a viable population and no lower than the range estimate when the Habitats Directive came into force in the UK. For further information see the 2019 Article 17 UK Approach document.

The 2013 FRR value has been revised and is equal to the

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current range. The current range surface area has been calculated using the method outlined in Mathews et al. (2018) and is based on presence data collected between 1995-2016. Areas that contain very isolated records may not have been included in the area of distribution. The new, more robust method of calculating range has reduced estimated range size for this species since 2013. This does not represent a real reduction in range.

5.11 Change and reason for change in surface area of range

Genuine change
Improved knowledge/more accurate data
Use of different method
The change is mainly due to: Use of different method

5.12 Additional information

Short term trend in range has been assessed by using the 2019 distribution data and the 2013 method for calculating range and comparing the result with range surface area in 2013 and also on expert opinion that the range is increasing in England, where the largest population occurs. For further details please see the 2019 Article 17 UK Approach document and country assessments. The FRR value is considered to be large enough to support a viable population.

6. Population

6.1 Year or period

1995-2018

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 793

6.3 Type of estimate

Minimum

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

Based mainly on extrapolation from a limited amount of data

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

Based mainly on extrapolation from a limited amount of data

6.11 Long-term trend Period

6.12 Long-term trend Direction

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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	x The FRP for this species is unknown because there is insufficient information to set an FRP value. For further information see the 2019 Article 17 UK Approach document.
6.16 Change and reason for change in population size	Genuine change Improved knowledge/more accurate data Use of different method The change is mainly due to: Improved knowledge/more accurate data	
6.17 Additional information	<p>The 1km square count has been calculated from the UK count of 1km squares where the species has been recorded. This is a minimum count because it only includes number of recorded occupied 1km squares.</p> <p>In 2013 this species population was recorded as unknown. Due to increased observer effort, records of Nathusius' pipistrelle have increased to an extent, which would infer a genuine increase. However, it is unclear the extent to which records reflect individual migrants and vagrants rather than larger populations. The population is, therefore, currently still reported as unknown.</p>	

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 Unknown
7.2 Sufficiency of area and quality of occupied habitat Method used	Insufficient or no data available	
7.3 Short-term trend Period	1995-2018	
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	Habitat for the species is unknown because there are insufficient data to make an assessment.	

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8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Conversion from one type of agricultural land use to another (excluding drainage and burning) (A02)	M
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Use of plant protection chemicals in agriculture (A21)	M
Drainage for use as agricultural land (A31)	H
Modification of hydrological flow or physical alteration of water bodies for agriculture (excluding development and operation of dams) (A33)	M
Conversion to other types of forests including monocultures (B02)	M
Logging without replanting or natural regrowth (B05)	M
Clear-cutting, removal of all trees (B09)	M
Wind, wave and tidal power, including infrastructure (D01)	H
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	H

Threat	Ranking
Conversion from one type of agricultural land use to another (excluding drainage and burning) (A02)	M
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Use of plant protection chemicals in agriculture (A21)	M
Drainage for use as agricultural land (A31)	H
Modification of hydrological flow or physical alteration of water bodies for agriculture (excluding development and operation of dams) (A33)	M
Conversion to other types of forests including monocultures (B02)	M
Logging without replanting or natural regrowth (B05)	M
Clear-cutting, removal of all trees (B09)	M
Wind, wave and tidal power, including infrastructure (D01)	H
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	H

8.2 Sources of information

8.3 Additional information

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9. Conservation measures

9.1 Status of measures	a) Are measures needed?	Yes
	b) Indicate the status of measures	Measures identified and taken
9.2 Main purpose of the measures taken	Maintain the current range, population and/or habitat for the species	
9.3 Location of the measures taken	Both inside and outside Natura 2000	
9.4 Response to the measures	Long-term results (after 2030)	
9.5 List of main conservation measures		

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

Restore small landscape features on agricultural land (CA02)

Manage the use of natural fertilisers and chemicals in agricultural (plant and animal) production (CA09)

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

Prevent conversion of (semi-) natural habitats into forests and of (semi-)natural forests into intensive forest plantation (CB01)

Adapt/manage reforestation and forest regeneration (CB04)

Adapt/change forest management and exploitation practices (CB05)

Adapt/manage renewable energy installation, facilities and operation (CC03)

Reduce impact of transport operation and infrastructure (CE01)

9.6 Additional information

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	Future trend in Range is Positive - increasing $\leq 1\%$ (one percent or less) per year on average; Future trend in Population is Unknown; and Future trend in Habitat for the species is Unknown. For further information on how future trends inform the Future Prospects conclusion see the 2019 Article 17 UK Approach document.	

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	

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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

Conclusion on Range reached because: (i) the short-term trend direction in Range surface area is increasing; and (ii) the current Range surface area is approximately equal to the Favourable Reference Range.

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

Conclusion on Habitat for the species reached because: (i) the area of occupied habitat is unknown (ii) the habitat quality is unknown; 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; (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 three of the conclusions are Unknown.

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

Overall assessment of Conservation Status has not changed since 2013.

Overall trend in conservation status was not reported for this species in 2013. However, from the information available the overall trend would have been unknown in 2013 and so there has been no change since the last reporting round.

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

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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

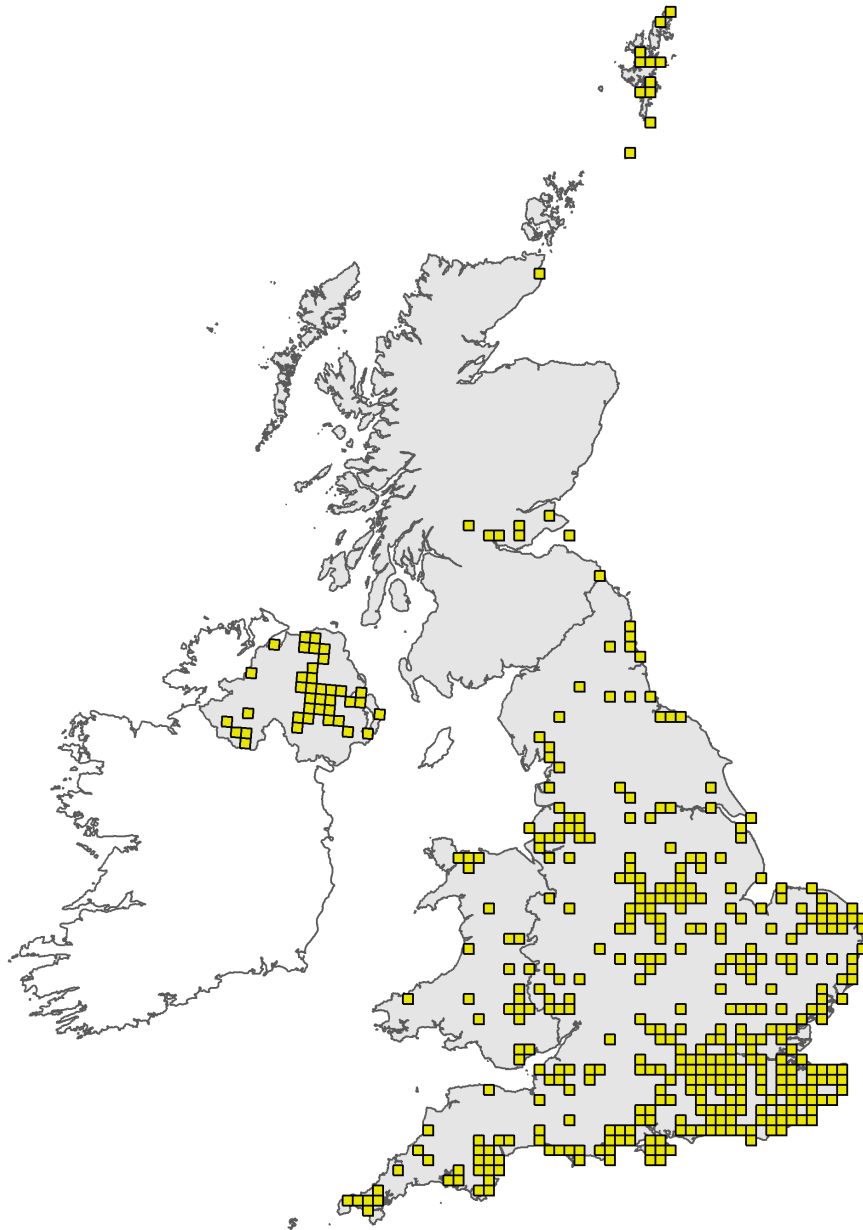


Figure 1: UK distribution map for S1317 - Nathusius' pipistrelle (*Pipistrellus nathusii*). Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

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

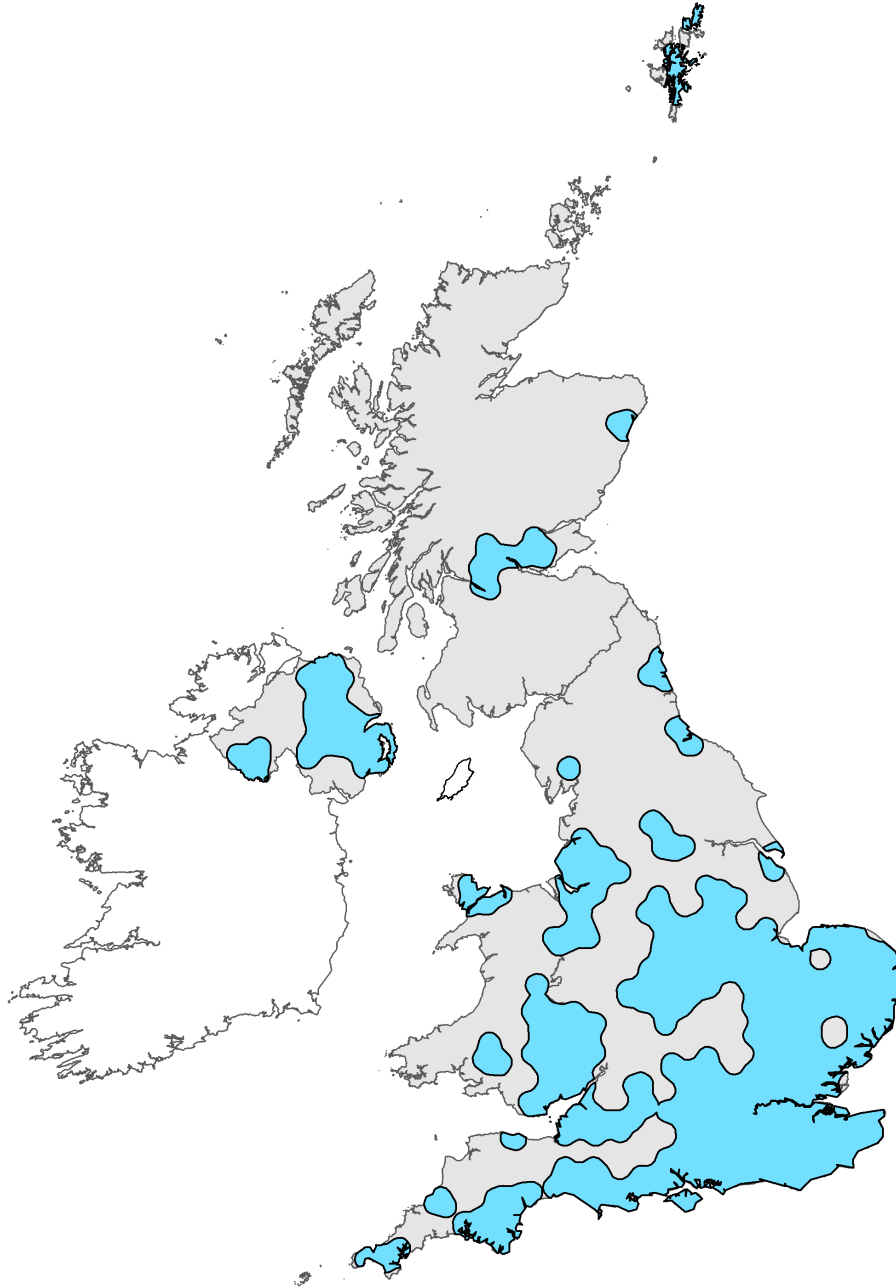


Figure 2: UK range map for S1317 - Nathusius' pipistrelle (*Pipistrellus nathusii*). Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

The range map has been produced by The Mammal Society applying a range mapping tool as outlined in Matthews et al. (2018), 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.