

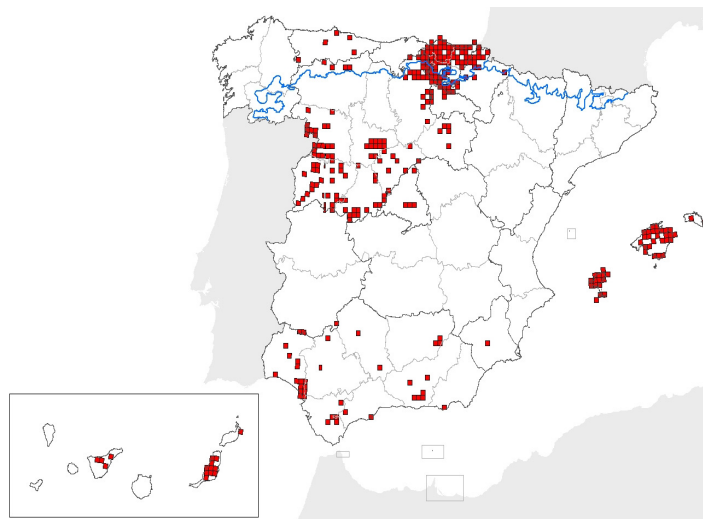
Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

Pipistrellus kuhlii

1. National level

Biogeographical regions and/or marine regions concerned within the Member State: **ALP ATL MAC MED**

map-distribution



2. Biogeographical or marine level

2.1 Biogeographical region or marine region: **ALPINE**

2.2 Published sources and/or websites:

Alcalde, J. T. and M. C. Escala (1999). "Distribución de los quirópteros en Navarra, España." Bol. R. Soc. Esp. Hist. Nat. (Sec. Biol.) 95 (1-2): 157-171.

Palomo, L. J. and J. Gisbert (2002). Atlas de los mamíferos terrestres de España. Madrid, DGCN-SECEM-SECEMU.

2.3 Range of the species type in the biogeographic region or marine region

- 2.3.1 Surface area of species range in km2: 56,02
- 2.3.2 Date of range determination: 2006
- 2.3.3 Quality of data concerning range: Poor e.g. based on very incomplete data or on expert judgement
- 2.3.4 Range trend: Unknown (X)
- 2.3.5 Range trend magnitude in km2 (optional):
- 2.3.6 Range trend period:
- 2.3.7 Reasons for reported trend:
and/or specify

2.4 Population of the species in the biogeographic region or marine region

2.4.1 Population size estimation:

Population size estimation (minimum)	Population size estimation (maximum)	Population units
0,5	0,5	Number of localities

- 2.4.2 Date of population estimation: 2006
- 2.4.3 Methods used for population estimation: Extrapolation from surveys of part of the population or from sampling
- 2.4.4 Quality of data on area: Poor e.g. based on very incomplete data or on expert judgement
- 2.4.5 Population trend: Unknown (X)
- 2.4.6 Population trend magnitude (km2):
- 2.4.7 Population trend period:

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2.4.8 Reasons for reported trend:

and/or specify:

2.4.9 Justification of % thresholds for trends (optional):

2.4.10 Main pressures:

2.4.11 Threats

2,5 Habitat for the species in the biogeographic region or marine region

2.5.1 Habitats for the species:

2.5.2 Area estimation (km2):

2.5.3 Date of estimation:

2.5.4 Quality of the data:

2.5.5 Trend of the habitat:

2.5.6 Trend period:

2.5.7 Reasons for reported trend: NotApplicable

Other (specify):

2.6 Future prospects for the species: Poor prospects - species likely to struggle unless conditions change

2.7 Complementary information

2.7.1 Favourable reference range (km2):

2.7.2 Favourable reference population:

2.7.3 Suitable habitat for the species (km2):

2.7.4 Other relevant information (optional):

Conclusion	Biogeographical or marine level	Conclusions within Natura 2000 sites (optional)
Conclusions: (2.3) Range:	Unknown (XX)	
Conclusions: (2.4) Population:	Unknown (XX)	
Conclusions: (2.5) Habitat for the species:	Unknown (XX)	
Conclusions: (2.6) Future prospects:	Unknown (XX)	
Conclusions: Overall assessment:	Unknown (XX)	

2.1 Biogeographical region or marine region: ATLANTIC

2.2 Published sources and/or websites:

Nores, C. & García-Rovés, P. 2007. Libro Rojo de la Fauna del Principado de Asturias. Consejería de Medio Ambiente, Ordenación del Territorio e Infraestructuras del Principado de Asturias-Obra Social “la Caixa”.

AIHARTZA, J.R. 2001. Quirópteros de Araba, Bizkaia y Gipuzkoa: distribución, ecología y conservación. Universidad del País Vasco.

PALOMO, L.J. y GISBERT, J. 2002. Atlas de los mamíferos terrestres de España. Dirección General de Conservación de la Naturaleza. Ministerio de Medio Ambiente.

ÁLVAREZ, J. et al. 1998. Vertebrados continentales: situación actual en la Comunidad Autónoma del País Vasco. Gobierno Vasco.

Alcalde, J. T. and M. C. Escala (1999). "Distribución de los quirópteros en Navarra, España." Bol. R. Soc. Esp. Host. Nat. (Sec. Biol.) 95 (1-2): 157-171.

Fernández Gutiérrez, J. 2002. Los murciélagos en Castilla y León. Atlas de distribución y tamaño de las poblaciones. Junta de Castilla y León. Consejería de Medio Ambiente. Náyade Producciones, S.L. Valladolid.

Velasco, J.C., Lizana, M., Román, J., Delibes, M. & Fernández, J. 2005. Guía de los peces, anfibios, reptiles y mamíferos de Castilla y León. Náyade Editorial. Medina del Campo (Valladolid).

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2.3 Range of the species type in the biogeographic region or marine region

- 2.3.1 Surface area of species range in km2: 6642,23
- 2.3.2 Date of range determination: 1970-2007
- 2.3.3 Quality of data concerning range:
- 2.3.4 Range trend: Unknown (X)
- 2.3.5 Range trend magnitude in km2 (optional):
- 2.3.6 Range trend period:
- 2.3.7 Reasons for reported trend: Unknown
and/or specify

2.4 Population of the species in the biogeographic region or marine region

- 2.4.1 Population size estimation:

Population size estimation (minimum)	Population size estimation (maximum)	Population units
68	73	Number of localities
- 2.4.2 Date of population estimation:
- 2.4.3 Methods used for population estimation:
- 2.4.4 Quality of data on area:
- 2.4.5 Population trend: Unknown (X)
- 2.4.6 Population trend magnitude (km2):
- 2.4.7 Population trend period:
- 2.4.8 Reasons for reported trend: Unknown
and/or specify:
- 2.4.9 Justification of % thresholds for trends (optional):
- 2.4.10 Main pressures:

110 Use of pesticides
150 Restructuring agricultural land holding
151 - removal of hedges and copses
160 General Forestry management
162 - artificial planting
166 - removal of dead and dying trees
490 Other urbanisation, industrial and similar activities
700 Pollution
740 Vandalism
- 2.4.11 Threats

110 Use of pesticides
150 Restructuring agricultural land holding
151 - removal of hedges and copses
160 General Forestry management
162 - artificial planting
166 - removal of dead and dying trees
490 Other urbanisation, industrial and similar activities
700 Pollution
740 Vandalism

2,5 Habitat for the species in the biogeographic region or marine region

- 2.5.1 Habitats for the species:
- 2.5.2 Area estimation (km2):
- 2.5.3 Date of estimation:

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2.5.4 Quality of the data:

2.5.5 Trend of the habitat:

2.5.6 Trend period:

2.5.7 Reasons for reported trend: NotApplicable

Other (specify):

2.6 Future prospects for the species: Unknown

2.7 Complementary information

2.7.1 Favourable reference range (km2):

2.7.2 Favourable reference population:

2.7.3 Suitable habitat for the species (km2):

2.7.4 Other relevant information (optional):

Conclusion	Biogeographical or marine level	Conclusions within Natura 2000 sites (optional)
Conclusions: (2.3) Range:	Unknown (XX)	
Conclusions: (2.4) Population:	Unknown (XX)	
Conclusions: (2.5) Habitat for the species:	Unknown (XX)	
Conclusions: (2.6) Future prospects:	Unknown (XX)	
Conclusions: Overall assessment:	Unknown (XX)	

2.1 Biogeographical region or marine region: MACARONESIAN

2.2 Published sources and/or websites:

http://www.mma.es/portal/secciones/biodiversidad/inventarios/inb/atlas_mamiferos/pdf/34_Rhino.pdf

FAJARDO, S & J. BENZAL (2002). Datos sobre la distribución de quirópteros en Canarias (Mammalia: Chiroptera). Viera. Vol. 30: 213 - 230.

D. TRUJILLO (1991). Los Murciélagos de Las Islas Canarias. Icona. Col. Técnica. 167 pp.

2.3 Range of the species type in the biogeographic region or marine region

2.3.1 Surface area of species range in km2: 1600

2.3.2 Date of range determination: 2002

2.3.3 Quality of data concerning range:

2.3.4 Range trend: Stable (=)

2.3.5 Range trend magnitude in km2 (optional):

2.3.6 Range trend period: 1980-202

2.3.7 Reasons for reported trend: Natural processes
and/or specify

2.4 Population of the species in the biogeographic region or marine region

2.4.1 Population size estimation:

Population size estimation (minimum) Population size estimation (maximum) Population units

2.4.2 Date of population estimation:

2.4.3 Methods used for population estimation:

2.4.4 Quality of data on area:

2.4.5 Population trend: Stable (=)

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2.4.6 Population trend magnitude (km2):	
2.4.7 Population trend period:	1980-2002
2.4.8 Reasons for reported trend:	Unknown
and/or specify:	
2.4.9 Justification of % thresholds for trends (optional):	
2.4.10 Main pressures:	110 Use of pesticides 400 Urbanised areas, human habitation
2.4.11 Threats	110 Use of pesticides 400 Urbanised areas, human habitation

2,5 Habitat for the species in the biogeographic region or marine region

2.5.1 Habitats for the species:	Paredes rocosas y barrancos
2.5.2 Area estimation (km2):	725
2.5.3 Date of estimation:	2002
2.5.4 Quality of the data:	Moderate e.g. based on partial data with some extrapolation
2.5.5 Trend of the habitat:	Stable (=)
2.5.6 Trend period:	1980-2002
2.5.7 Reasons for reported trend:	Unknown
Other (specify):	

2.6 Future prospects for the species:	Good prospects - species expected to survive and prosper
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2.7 Complementary information

2.7.1 Favourable reference range (km2):	Less than
2.7.2 Favourable reference population:	
2.7.3 Suitable habitat for the species (km2):	500
2.7.4 Other relevant information (optional):	

Conclusion	Biogeographical or marine level	Conclusions within Natura 2000 sites (optional)
Conclusions: (2.3) Range:	Inadequate but improving (U1+)	
Conclusions: (2.4) Population:	Favourable (FV)	
Conclusions: (2.5) Habitat for the species:	Favourable (FV)	
Conclusions: (2.6) Future prospects:	Favourable (FV)	
Conclusions: Overall assessment:	Favourable (FV)	

2.1 Biogeographical region or marine region: **MEDITERRANEAN**

2.2 Published sources and/or websites:

AIHARTZA, J.R. 2001. Quirópteros de Araba, Bizkaia y Gipuzkoa: distribución, ecología y conservación. Universidad del País Vasco.

PALOMO, L.J. y GISBERT, J. 2002. Atlas de los mamíferos terrestres de España. Dirección General de Conservación de la Naturaleza. Ministerio de Medio Ambiente.

ÁLVAREZ, J. et al. 1998. Vertebrados continentales: situación actual en la Comunidad Autónoma del País Vasco. Gobierno Vasco.

Servei de Protecció d'Espècies. 2007. Projecte Bioatles. Conselleria de Medi Ambient. Govern de les Illes Balears

Trujillo, D., García, D. y Quetglas, J. 2005. Estatus, distribución y medidas de conservación de los quirópteros en la isla de Eivissa. 2004. Informe inédito. GEN/GOB-Eivissa y Fundació Sa Nostra.

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Areambiental. 2004i. Control biológico de la procesionaria del pino (*Thaumetopoea pityocampa*) en las Islas Baleares mediante quirópteros. Documento inédito para la Conselleria de Medi Ambient. Direcció General de Caça, Protecció d'Espècies i Educació Ambiental.

Quetglas, J. 1997i. New records of bats (Chiroptera) for Minorca, Balearic Islands, Western Mediterranean Sea. *Mammalia*, 61: 611-614.

Quetglas, J. 1997ii. Acercamiento al conocimiento de las poblaciones de murciélagos (Mammalia: Chiroptera) de Menorca. Documento inédito para el Institut Menorquí d'Estudis (IME).

Trujillo, D. y Barone, R. 2004. Los quirópteros del Parc Natural de ses Salines d'Eivissa i Formentera. Informe inédito para el Parc Natural de ses Salines d'Eivissa i Formentera. Conselleria de Medi Ambient.

Viada, C. 2006. Libro Rojo de los Vertebrados de las Baleares (3ª edición). Conselleria de Medi Ambient (Govern de les Illes Balears)
http://dgcapea.caib.es/pe/documents_pe/public_pe/tecnicos/vermell_vertebrats_actualitzat01.pdf

AGIRRE-MENDI, P.T., ZALDÍVAR, C., 1991. Contribución al Atlas Mastozoológico de la Comunidad Autónoma de La Rioja I. *Revista Zubía* 9: 65-88.

AGIRRE-MENDI, P.T., 2001. Eficacia de una orden administrativa para la protección de Colonias de murciélagos en La Rioja Barbastella, 2.

AGIRRE-MENDI, P.T., 2003. Protección de refugios de quirópteros (Mammalia: Chiroptera) en la Comunidad Autónoma de La Rioja: Resultados de las campañas de 1998, 1999, 2000 y 2001. *Revista Zubía* 21: 63-70.

AGIRRE-MENDI, P.T., 2004. Distribución de *Pipistrellus pipistrellus* (Schreber, 1775) y *Pipistrellus pygmaeus* (Leach, 1925) en la Comunidad Autónoma de La Rioja. *Revista Zubía* 22:101-112

Fernández Gutiérrez, J. 2002. Los murciélagos en Castilla y León. Atlas de distribución y tamaño de las poblaciones. Junta de Castilla y León. Consejería de Medio Ambiente. Náyade Producciones, S.L. Valladolid.

Velasco, J.C., Lizana, M., Román, J., Delibes, M. & Fernández, J. 2005. Guía de los peces, anfibios, reptiles y mamíferos de Castilla y León. Náyade Editorial. Medina del Campo (Valladolid).

Benzal, J. & O. De Paz (eds.). 1991. Los murciélagos de España y Portugal. Colección Técnica. ICONA. Madrid.

De Paz, O. y Benzal, J. 1991. Los refugios importantes y su valoración ecológica para los murciélagos españoles. En: Los murciélagos de España y Portugal. (J. Benzal y O. de Paz eds.), Madrid, 115-140 pág.

Benzal, J. 2002. Bases para el manejo y conservación de los Quirópteros de la Comunidad de Madrid. Comunidad de Madrid- Consejería de Medio ambiente. Madrid, 181 pp.

De Paz, O. y De Lucas, J. 2006. Seguimiento de refugios y valoración del estado de las poblaciones de quirópteros cavernícolas en la Comunidad Autónoma de Madrid (año 2006). Consejería de Medio Ambiente y Ordenación del Territorio- Myotis C.B. Madrid.

Lisón, F. et al. 2005. Primeros datos sobre el murciélago de *Nathusius Pipistrellus nathusii* (Keyserling y Blasius, 1839) en la Región de Murcia. *Galemys*, 17 (1-2): 47-52, 2005. ISSN: 1137-8700

Quirópteros: primeros pasos hacia su conservación. Murcia Enclave Ambiental. Nº 15. 4º Trimestre 2007. Año 5.

2.3 Range of the species type in the biogeographic region or marine region

2.3.1 Surface area of species range in km2:	18518,01
2.3.2 Date of range determination:	1970-2005
2.3.3 Quality of data concerning range:	Good e.g based on extensive surveys
2.3.4 Range trend:	Unknown (X)
2.3.5 Range trend magnitude in km2 (optional):	
2.3.6 Range trend period:	
2.3.7 Reasons for reported trend:	Unknown
and/or specify	

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2.4 Population of the species in the biogeographic region or marine region

2.4.1 Population size estimation:

Population size estimation (minimum)	Population size estimation (maximum)	Population units
187	192	Number of localities

2.4.2 Date of population estimation: 2002-2005

2.4.3 Methods used for population estimation:

2.4.4 Quality of data on area:

2.4.5 Population trend: Unknown (X)

2.4.6 Population trend magnitude (km2):

2.4.7 Population trend period:

2.4.8 Reasons for reported trend: Unknown

and/or specify:

2.4.9 Justification of % thresholds for trends (optional):

2.4.10 Main pressures: 110 Use of pesticides
166 - removal of dead and dying trees
490 Other urbanisation, industrial and similar activities
702 - air pollution

2.4.11 Threats 110 Use of pesticides
166 - removal of dead and dying trees
490 Other urbanisation, industrial and similar activities
702 - air pollution

2,5 Habitat for the species in the biogeographic region or marine region

2.5.1 Habitats for the species: Ocupa una amplia variedad de ambientes distintos, aunque muestra cierta prefer

2.5.2 Area estimation (km2):

2.5.3 Date of estimation:

2.5.4 Quality of the data:

2.5.5 Trend of the habitat:

2.5.6 Trend period:

2.5.7 Reasons for reported trend: NotApplicable

Other (specify):

2.6 Future prospects for the species: Unknown

2.7 Complementary information

2.7.1 Favourable reference range (km2):

2.7.2 Favourable reference population:

2.7.3 Suitable habitat for the species (km2):

2.7.4 Other relevant information (optional):

Conclusion	Biogeographical or marine level	Conclusions within Natura 2000 sites (optional)
Conclusions: (2.3) Range:	Unknown (XX)	
Conclusions: (2.4) Population:	Unknown (XX)	
Conclusions: (2.5) Habitat for the species:	Unknown (XX)	
Conclusions: (2.6) Future prospects:	Unknown (XX)	

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Conclusions: Overall assessment:

Unknown (XX)