

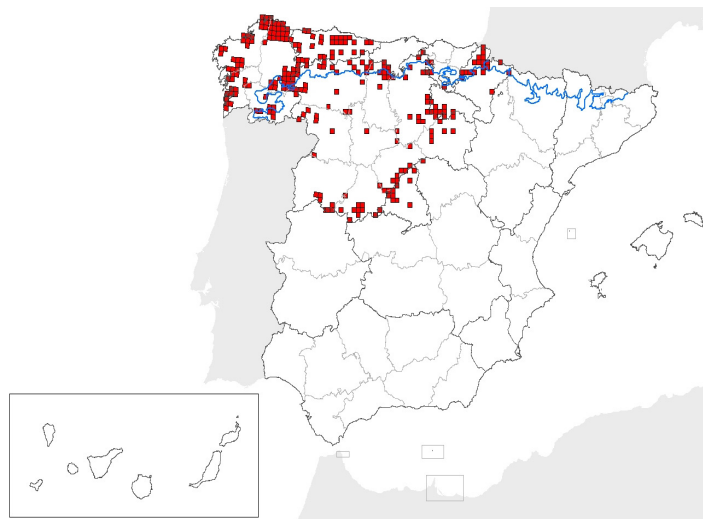
# Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

## Plecotus auritus

### 1. National level

Biogeographical regions and/or marine regions concerned within the Member State: **ALP ATL 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. Host. 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: 192,64

2.3.2 Date of range determination: 2006

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     |
|--------------------------------------|--------------------------------------|----------------------|
| 2                                    | 4                                    | 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: Unknown  
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:

Jiménez, J.; Guitián, J.; Bas, S. & Callejo, A. (1985). Datos sobre quirópteros de las cavidades naturales de Galicia. Distribución y censo. Bol. Est. Cent. Ecol., 28: 3-7

Palomo, L.J. & Gisbert, J. (2002). Atlas de los Mamíferos Terrestres de España. DGCN-SECEM-SECEMU. Madrid, 564

Sánchez-Canals, J.L. & Guitián, J. (1988). Inventario dos Morcegos de Galicia. (Mammalia, Chiroptera). Cadernos da Área de Ciencias Biolóxicas (Inventarios). Seminario de Estudos Galegos, Vol. V. Ed. do Castro. O Castro-Sada, A Coruña. 25

SGHN (1995). Atlas de Vertebrados de Galicia. Consello da Cultura Galega. Ponencia de Patrimonio Natural. Tomos I y II. Santiago.

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”.

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.

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.

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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).

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

|  |                                     |
|--|-------------------------------------|
| 2.3.1 Surface area of species range in km2:    | 12873,51                            |
| 2.3.2 Date of range determination:             | 2002-2007                           |
| 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:              | Not applicable                      |
| 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     |
|  | 131  | 156                                  | Number of localities |
| 2.4.2 Date of population estimation:                       | 2002-2007  |                                      |                      |
| 2.4.3 Methods used for population estimation:              | From comprehensive inventory   |                                      |                      |
| 2.4.4 Quality of data on area:                             | Good e.g based on extensive surveys  |                                      |                      |
| 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<br>150 Restructuring agricultural land holding<br>151 - removal of hedges and copses<br>160 General Forestry management<br>162 - artificial planting<br>166 - removal of dead and dying trees<br>167 - forest exploitation without replanting<br>180 Burning<br>300 Sand and gravel extraction<br>420 Discharges<br>490 Other urbanisation, industrial and similar activities<br>620 Outdoor sports and leisure activities<br>700 Pollution<br>740 Vandalism |                                      |                      |
| 2.4.11 Threats   | 110 Use of pesticides<br>150 Restructuring agricultural land holding<br>151 - removal of hedges and copses<br>160 General Forestry management<br>162 - artificial planting<br>166 - removal of dead and dying trees<br>167 - forest exploitation without replanting  |                                      |                      |

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- 180 Burning
- 300 Sand and gravel extraction
- 420 Discharges
- 490 Other urbanisation, industrial and similar activities
- 620 Outdoor sports and leisure 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: Bosques, cavidades naturales, minas y túneles:
- 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:
- 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: **MEDITERRANEAN**

## 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.

Jiménez, J.; Guitián, J.; Bas, S. & Callejo, A. (1985). Datos sobre quirópteros de las cavidades naturales de Galicia. Distribución y censo. Bol. Est. Cent. Ecol., 28: 3-7

Palomo, L.J. & Gisbert, J. (2002). Atlas de los Mamíferos Terrestres de España. DGCN-SECEM-SECEMU. Madrid, 564

Sánchez-Canals, J.L. & Guitián, J. (1988). Inventario dos Morcegos de Galicia. (Mammalia, Chiroptera). Cadernos da Área de Ciencias Biolóxicas (Inventarios). Seminario de Estudos Galegos, Vol. V. Ed. do Castro. O Castro-Sada, A Coruña. 25

SGHN (1995). Atlas de Vertebrados de Galicia. Consello da Cultura Galega. Ponencia de Patrimonio Natural. Tomos I y II. Santiago.

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.

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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.

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.

López, M., Díaz, M., Carbonell, R., Bonal, R. Libro Rojo de los vertebrados de Castilla- La Mancha. 2006.

De Paz, O., De Lucas, J. 2006. Seguimiento de refugios declarados microrreservas de quirópteros, inventario de nuevos refugios y valoración del estado de sus poblaciones en la Comunidad Autónoma de Castilla - La Mancha.

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

|  |   |
|--|---|
| 2.3.1 Surface area of species range in km2:    | 4068,12   |
| 2.3.2 Date of range determination:             | 2002-2007   |
| 2.3.3 Quality of data concerning range:        | Moderate e.g. based on partial data with some extrapolation |
| 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     |
|  | 43  | 52                                   | Number of localities |
| 2.4.2 Date of population estimation:                       | 2002-2007   |                                      |                      |
| 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:                             |   |                                      |                      |
| 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   |                                      |                      |
|  | 160 General Forestry management                                       |                                      |                      |
|  | 167 - forest exploitation without replanting                          |                                      |                      |

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|                |   |
|----------------|---|
|                | 180 Burning   |
|                | 300 Sand and gravel extraction                            |
|                | 420 Discharges  |
|                | 490 Other urbanisation, industrial and similar activities |
|                | 620 Outdoor sports and leisure activities                 |
|                | 720 Trampling, overuse                                    |
|                | 740 Vandalism   |
| 2.4.11 Threats | 110 Use of pesticides                                     |
|                | 160 General Forestry management                           |
|                | 167 - forest exploitation without replanting              |
|                | 180 Burning   |
|                | 300 Sand and gravel extraction                            |
|                | 420 Discharges  |
|                | 490 Other urbanisation, industrial and similar activities |
|                | 620 Outdoor sports and leisure activities                 |
|                | 720 Trampling, overuse                                    |
|                | 740 Vandalism   |

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

|                                   |   |
|-----------------------------------|---|
| 2.5.1 Habitats for the species:   | Especie eminentemente forestal; encuentra su óptimo en bosques densos por enc |
| 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:       | Unknown (X)   |
| 2.5.6 Trend period:               |   |
| 2.5.7 Reasons for reported trend: | Unknown   |
| 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)                    |   |