

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

0.1 Member State	IT
0.2.1 Species code	1326
0.2.2 Species name	Plecotus auritus
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	N/A

1. National Level

1.1 Maps

1.1.1 Distribution Map	Yes
1.1.1a Sensitive species	No
1.1.2 Method used - map	Estimate based on partial data with some extrapolation and/or modelling (2)
1.1.3 Year or period	1985-2012
1.1.4 Additional map	No
1.1.5 Range map	Yes

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

2.2 Published sources

Mediterranean (MED)

The present species assessment (fields 0.1-2.9) has been compiled by Daniele Paoloni, Cristiano Spilinga (Associazione Teriologica Italiana - ATIt) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (Institute for Environmental Protection and Research - ISPRA). Information, unpublished data and experts' judgments have been provided by Paolo Agnelli, Mara Calvinì, Luca Cistrone, Michele Ferretto, Mauro Mucedda, Danilo Russo, Dino Scaravelli, Martina Spada, Roberto Toffoli, Simone Vergari (Italian Group for bat Research).

Archivio Osservatorio Regionale per Biodiversità. Regione Umbria.

Banca dati dell'Osservatorio Regionale della Biodiversità della Campania.

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Calvinì M., 2006. I Chiroteri della ZPS Beigua-Turchino e del Parco del Beigua; 70 pag. Ente Parco del Beigua, Regione Liguria.

Calvinì M., 2007. Studio preliminare sulla chiroterofauna delle tre foreste demaniali del Parco dell'Aveto (rapporto interno).

Calvinì M., 2007. I Chiroteri delle Alpi Liguri; 24 pag. Provincia di Imperia, Regione Liguria.

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Ente Parco Nazionale del Cilento e Vallo di Diano. Relazione di monitoraggio dei Chiroteri nel Parco Nazionale del Cilento e Vallo di Diano.

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

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Loy A., De Lisio L., Capula M., Ciucci P., Russo D., Sciarretta A., 2012. Rapporto finale - Convenzione stipulata tra la Regione Molise e la Unione Zoologica Italiana per la realizzazione dei piani di gestione dei Siti Natura 2000.n. 1393/2008. Unione Zoologica Italiana, Regione Molise.

Mucedda M., Kiefer A., Pidinchredda E., Veith M., 2002. A new species of long-eared bat (Chiroptera, Vespertilionidae) from Sardinia (Italy). Acta Chiropterologica, 4 (2): 121-135.

Regione Autonoma della Sardegna - Assessorato Difesa Ambiente , 2012 - "Servizio di monitoraggio dello stato di conservazione degli habitat e delle specie di importanza comunitaria presenti nei siti della Rete Natura 2000 in Sardegna – Linea 4. Redazione del Rapporto sullo stato di conservazione di habitat e specie.

Regione Liguria, 2008, Carta della Biodiversità, www.ambienteinliguria.it

Spilinga C., Russo D., Carletti S., Jiménez Grijalva M.P., Sergiacomi U., Ragni B., (in stampa). Chiroteri dell'Umbria. Distribuzione geografica ed ecologica. Regione Umbria. Università degli Studi di Perugia.

2.3 Range

2.3.1 Surface area - Range (km ²)	14600
2.3.2 Method - Range surface area	Estimate based on partial data with some extrapolation and/or modelling (2)
2.3.3 Short-term trend period	2001-2012
2.3.4 Short-term trend direction	stable (0)
2.3.5 Short-term trend magnitude	min max
2.3.6 Long-term trend period	
2.3.7 Long-term trend direction	N/A
2.3.8 Long-term trend magnitude	min max
2.3.9 Favourable reference range	area (km ²) operator approximately equal to (≈) unknown No method Expert judgement
2.3.10 Reason for change	Improved knowledge/more accurate dataUse of different method

2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit N/A min max
2.4.2 Population size (other than individuals)	Unit number of map 10x10 km grid cells (grids10x10) min 47 max 47
2.4.3 Additional information	Definition of locality Conversion method Problems Impossible to convert grids into individuals
2.4.4 Year or period	1985-2012
2.4.5 Method – population size	Estimate based on expert opinion with no or minimal sampling (1)
2.4.6 Short-term trend period	2001-2012

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

2.4.7 Short term trend direction	stable (0)		
2.4.8 Short-term trend magnitude	min	max	confidence interval
2.4.9 Short-term trend method	Estimate based on expert opinion with no or minimal sampling (1)		
2.4.10 Long-term trend period			
2.4.11 Long term trend direction	N/A		
2.4.12 Long-term trend magnitude	min	max	confidence interval
2.4.13 Long-term trend method	N/A		
2.4.14 Favourable reference population	number		
	operator	approximately equal to (≈)	
	unknown	No	
	method	Expert judgement	
2.4.15 Reason for change	Improved knowledge/more accurate data Use of different method		

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km ²)	Absent data (0)
2.5.2 Year or period	
2.5.3 Method used - habitat	
2.5.4 a) Quality of habitat	
2.5.4 b) Quality of habitat - method	Expert based
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	decrease (-)
2.5.7 Long-term trend period	N/A
2.5.8 Long term trend direction	
2.5.9 Area of suitable habitat (km ²)	
2.5.10 Reason for change	

Improved knowledge/more accurate data Use of different method

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
Forest and Plantation management & use (B02)	high importance (H)	N/A
forestry clearance (B02.02)	high importance (H)	N/A
removal of dead and dying trees (B02.04)	high importance (H)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A
agricultural intensification (A02.01)	medium importance (M)	N/A
reconstruction, renovation of buildings (E06.02)	high importance (H)	N/A
demolishment of buildings & human structures (E06.01)	high importance (H)	N/A

2.6.1 Method used – pressures based only on expert judgements (1)

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Forest and Plantation management & use (B02)	high importance (H)	N/A
forestry clearance (B02.02)	high importance (H)	N/A
removal of dead and dying trees (B02.04)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A
agricultural intensification (A02.01)	medium importance (M)	N/A

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

demolishment of buildings & human structures (E06.01)	high importance (H)	N/A
reconstruction, renovation of buildings (E06.02)	high importance (H)	N/A
closures of caves or galleries (G05.08)	high importance (H)	N/A
burning down (J01.01)	medium importance (M)	N/A

2.7.1 Method used – threats expert opinion (1)

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

2.8.3 Trans-boundary assessment

2.9 Conclusions (assessment of conservation status at end of reporting period)

2.9.1 Range assessment Favourable (FV)
qualifiers N/A

2.9.2. Population assessment Favourable (FV)
qualifiers N/A

2.9.3. Habitat assessment Inadequate (U1)
qualifiers N/A

2.9.4. Future prospects assessment Inadequate (U1)
qualifiers N/A

2.9.5 Overall assessment of Conservation Status Inadequate (U1)

2.9.5 Overall trend in Conservation Status declining (-)

3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

3.1.1 Population Size Unit N/A
min max

3.1.2 Method used N/A

3.1.3 Trend of population size within N/A

3.2 Conversation Measures

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

2.2 Published sources

Continental (CON)

The present species assessment (fields 0.1-2.9) has been compiled by Daniele Paoloni, Cristiano Spilinga (Associazione Teriologica Italiana - ATIt) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (Institute for Environmental Protection and Research - ISPRA). Information, unpublished data and experts' judgments have been provided by Paolo Agnelli, Mara Calvini, Luca Cistrone, Michele Ferretto, Danilo Russo, Dino Scaravelli, Martina Spada, Roberto Toffoli, Simone Vergari (Italian Group for bat Research).

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

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Banca Dati Regionale Emilia Romagna (aggiornamento al 2010).

Calvini M., 2006. Monitoraggio dei chiroteri nella piana del Magra e Vallecchia (SP) (rapporto interno).

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Calvini M., 2009. I Chiroteri del SIC IT1110022 Stagno di Oulx e IT1110020 Lago di Viverone. IPLA (rapporto interno).

Calvini M., 2010. Monitoraggio delle colonie di chiroteri riproduttive e svernanti di particolare interesse conservazionistico note in Liguria (rapporto interno).

Database del Repertorio Naturalistico Toscano .

Debernardi P., Patriarca E., 2009. Attività di rilevamento chiroterologico ed esperienze pilota di gestione ambientale finalizzate alla conservazione dei chiroteri presso il Parco Naturale Laghi di Avigliana. Pp. 29. (Rapporto interno).

Debernardi P., Patriarca E., Toffoli R., 2010. Monitoraggio delle colonie di chiroteri riproduttive e svernanti di particolare interesse conservazionistico note in Piemonte e dati preliminari sull'attività di swarming. Stato delle conoscenze al 30 aprile 2010. CRC, Regione Piemonte - Direzione ambiente - Settore pianificazione e gestione aree naturali protette (relazione interna). Pp. 83.

G.I.R.C. Gruppo Italiano Ricerca Chiroteri, 2004. The Italian Bat Roost Project: a preliminary inventory of sites and conservation perspectives. *Hystrix It. J. Mamm.* (n.s.) 15 (2): 55-68.

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Spilinga C., Russo D., Carletti S., Jiménez Grijalva M.P., Sergiacomi U., Ragni B., (in stampa). Chiroteri dell'Umbria. Distribuzione geografica ed ecologica. Regione Umbria. Università degli Studi di Perugia.

Spitzenberger F., Strelkov P.P., Haring, Winkler H., Haring B., 2006. A preliminary revision of the genus *Plecotus* (Chiroptera, Vespertilionidae) based on genetic and morphological results. *Zoologica Scripta, The Norwegian Academy of Science and Letters*, 35, 3 (2006): 187-230

Kryštufek B., Rešek Donev N., 2005. The Atlas of Slovenian Bats (Chiroptera). *Scoplia*, 55 (2005): 1-92

Vigorita V., Cucè L., 2008. La fauna selvatica in Lombardia. Rapporto 2008 su distribuzione, abbondanza e stato di conservazione di uccelli e mammiferi.

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

Regione Lombardia. Pp. 364.

2.3 Range

2.3.1 Surface area - Range (km ²)	19400
2.3.2 Method - Range surface area	Estimate based on partial data with some extrapolation and/or modelling (2)
2.3.3 Short-term trend period	2001-2012
2.3.4 Short-term trend direction	stable (0)
2.3.5 Short-term trend magnitude	min max
2.3.6 Long-term trend period	
2.3.7 Long-term trend direction	N/A
2.3.8 Long-term trend magnitude	min max
2.3.9 Favourable reference range	area (km ²) operator approximately equal to (≈) unknown No method Expert judgement
2.3.10 Reason for change	Improved knowledge/more accurate dataUse of different method

2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit N/A min max
2.4.2 Population size (other than individuals)	Unit number of map 10x10 km grid cells (grids10x10) min 72 max 72
2.4.3 Additional information	Definition of locality Conversion method Problems Impossible to convert grids into individuals
2.4.4 Year or period	1985-2012
2.4.5 Method – population size	Estimate based on expert opinion with no or minimal sampling (1)
2.4.6 Short-term trend period	2001-2012
2.4.7 Short term trend direction	stable (0)
2.4.8 Short-term trend magnitude	min max confidence interval
2.4.9 Short-term trend method	Estimate based on expert opinion with no or minimal sampling (1)
2.4.10 Long-term trend period	
2.4.11 Long term trend direction	N/A
2.4.12 Long-term trend magnitude	min max confidence interval
2.4.13 Long-term trend method	N/A
2.4.14 Favourable reference population	number operator approximately equal to (≈) unknown No method Expert judgement
2.4.15 Reason for change	Improved knowledge/more accurate data Use of different method

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km ²)	
2.5.2 Year or period	
2.5.3 Method used - habitat	Absent data (0)
2.5.4 a) Quality of habitat	Moderate
2.5.4 b) Quality of habitat - method	Expert based

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

2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	decrease (-)
2.5.7 Long-term trend period	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km ²)	
2.5.10 Reason for change	Improved knowledge/more accurate data Use of different method

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
Forest and Plantation management & use (B02)	high importance (H)	N/A
forestry clearance (B02.02)	high importance (H)	N/A
removal of dead and dying trees (B02.04)	high importance (H)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A
agricultural intensification (A02.01)	medium importance (M)	N/A
demolishment of buildings & human structures (E06.01)	high importance (H)	N/A
reconstruction, renovation of buildings (E06.02)	high importance (H)	N/A

2.6.1 Method used – pressures based only on expert judgements (1)

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Forest and Plantation management & use (B02)	high importance (H)	N/A
forestry clearance (B02.02)	high importance (H)	N/A
removal of dead and dying trees (B02.04)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A
agricultural intensification (A02.01)	medium importance (M)	N/A
demolishment of buildings & human structures (E06.01)	high importance (H)	N/A
reconstruction, renovation of buildings (E06.02)	high importance (H)	N/A
closures of caves or galleries (G05.08)	high importance (H)	N/A

2.7.1 Method used – threats expert opinion (1)

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

2.8.3 Trans-boundary assessment

2.9 Conclusions (assessment of conservation status at end of reporting period)

2.9.1 Range assessment Favourable (FV)
qualifiers N/A

2.9.2. Population assessment Favourable (FV)
qualifiers N/A

2.9.3. Habitat assessment Inadequate (U1)
qualifiers N/A

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

2.9.4. Future prospects	assessment Inadequate (U1) qualifiers N/A
2.9.5 Overall assessment of Conservation Status	Inadequate (U1)
2.9.5 Overall trend in Conservation Status	declining (-)

3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

3.1.1 Population Size	Unit	N/A
	min	max
3.1.2 Method used	N/A	
3.1.3 Trend of population size within	N/A	

3.2 Conversation Measures

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

2.2 Published sources

Alpine (ALP)

The present species assessment (fields 0.1-2.9) has been compiled by Daniele Paoloni, Cristiano Spilinga (Associazione Teriologica Italiana - ATIt) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (Institute for Environmental Protection and Research - ISPRA). Information, unpublished data and experts' judgments have been provided by Paolo Agnelli, Mara Calvinì, Luca Cistrone, Michele Ferretto, Danilo Russo, Dino Scaravelli, Martina Spada, Roberto Toffoli, Simone Vergari (Italian Group for bat Research).

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Culasso P., Toffoli R., 2011. I Chiroterri del Parco Naturale Alpe Veglia e Alpe Devero e del SIC/ZPS Alpe Veglia e Devero-Monte Giove. Regione Piemonte-

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

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Debernardi P., Patriarca E., 2009. Attività di rilevamento chiroterrologico ed esperienze pilota di gestione ambientale finalizzate alla conservazione dei chiroterri presso il Parco Naturale Laghi di Avigliana. Pp. 29. (Rapporto interno).

Debernardi P., Dondo A., Patriarca E., Toffoli R., 1999. Indagine sulla presenza di *Lyssavirus* nei Chiroterri nell'Italia nord-occidentale. Atti I Convegno italiano sui Chiroterri, Castell'Azzara (GR) 28-29/03/1998: 257-259.

Debernardi P., Patriarca E., 2007. The bats of the Lake Maggiore Piedmont shore (NW Italy). *Hystrix It. J. Mamm. (n.s.)* 18 (1): 39-55.

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

Naturale Alpi Marittime (rapporto interno).

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Kryštufek B., Rešek Donev N., 2005. The Atlas of Slovenian Bats (Chiroptera). Scopolia, 55 (2005): 1-92

2.3 Range

2.3.1 Surface area - Range (km ²)	29600
2.3.2 Method - Range surface area	Estimate based on partial data with some extrapolation and/or modelling (2)
2.3.3 Short-term trend period	2001-2012
2.3.4 Short-term trend direction	stable (0)
2.3.5 Short-term trend magnitude	min max
2.3.6 Long-term trend period	
2.3.7 Long-term trend direction	N/A
2.3.8 Long-term trend magnitude	min max
2.3.9 Favourable reference range	area (km ²) operator approximately equal to (≈) unknown No method Expert judgement
2.3.10 Reason for change	Improved knowledge/more accurate dataUse of different method

2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit N/A min max
2.4.2 Population size (other than individuals)	Unit number of map 10x10 km grid cells (grids10x10) min 107 max 107
2.4.3 Additional information	Definition of locality Conversion method Problems Impossible to convert grids into individuals
2.4.4 Year or period	1985-2012
2.4.5 Method – population size	Estimate based on expert opinion with no or minimal sampling (1)
2.4.6 Short-term trend period	2001-2012
2.4.7 Short term trend direction	stable (0)
2.4.8 Short-term trend magnitude	min max confidence interval
2.4.9 Short-term trend method	Estimate based on expert opinion with no or minimal sampling (1)
2.4.10 Long-term trend period	
2.4.11 Long term trend direction	N/A
2.4.12 Long-term trend magnitude	min max confidence interval
2.4.13 Long-term trend method	N/A
2.4.14 Favourable reference population	number operator approximately equal to (≈) unknown No method Expert judgement
2.4.15 Reason for change	Improved knowledge/more accurate data Use of different method

2.5 Habitat for the Species

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

2.5.1 Surface area - Habitat (km ²)	
2.5.2 Year or period	
2.5.3 Method used - habitat	Absent data (0)
2.5.4 a) Quality of habitat	Good
2.5.4 b) Quality of habitat - method	Expert based
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	stable (0)
2.5.7 Long-term trend period	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km ²)	
2.5.10 Reason for change	Improved knowledge/more accurate data Use of different method

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
Forest and Plantation management & use (B02)	high importance (H)	N/A
forestry clearance (B02.02)	high importance (H)	N/A
removal of dead and dying trees (B02.04)	high importance (H)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A
agricultural intensification (A02.01)	medium importance (M)	N/A
demolishment of buildings & human structures (E06.01)	high importance (H)	N/A
reconstruction, renovation of buildings (E06.02)	high importance (H)	N/A

2.6.1 Method used – pressures based only on expert judgements (1)

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Forest and Plantation management & use (B02)	high importance (H)	N/A
forestry clearance (B02.02)	high importance (H)	N/A
removal of dead and dying trees (B02.04)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A
agricultural intensification (A02.01)	medium importance (M)	N/A
demolishment of buildings & human structures (E06.01)	high importance (H)	N/A
reconstruction, renovation of buildings (E06.02)	high importance (H)	N/A
closures of caves or galleries (G05.08)	high importance (H)	N/A

2.7.1 Method used – threats expert opinion (1)

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

2.8.3 Trans-boundary assessment

2.9 Conclusions (assessment of conservation status at end of reporting period)

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

2.9.1 Range	assessment Favourable (FV) qualifiers N/A
2.9.2. Population	assessment Favourable (FV) qualifiers N/A
2.9.3. Habitat	assessment Favourable (FV) qualifiers N/A
2.9.4. Future prospects	assessment Favourable (FV) qualifiers N/A
2.9.5 Overall assessment of Conservation Status	Favourable (FV)
2.9.5 Overall trend in Conservation Status	N/A

3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

3.1.1 Population Size	Unit	N/A	
	min		max
3.1.2 Method used	N/A		
3.1.3 Trend of population size within	N/A		

3.2 Conversation Measures