

Report on the main results of the surveillance under article 17 for annex I habitat types (Annex D)

CODE: 9160

NAME: Sub-Atlantic and medio-European oak or oak-hornbeam forests of the Carpinion betuli

1. National Level

1.1 Maps

1.1.1 Distribution Map	Yes
1.1.2 Distribution Method	Estimate based on partial data with some extrapolation and/or modelling (2)
1.1.3 Year or period	2005-2012
1.1.4 Additional map	No
1.1.5 Range Map	Yes

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

2.2 Published

Mediterranean (MED)

The present Habitat assessment (fields 0.1-3.1) has been compiled by Pierangela Angelini (ISPRA). Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Giovanni Spampinato(SBI), Pietro Massimiliano Bianco and Pierangela Angelini (ISPRA, field 2.7.1).

"Biondi E, Blasi C, Burrascano S, Casavecchia S, Copiz R, Del Vico E, Galdenzi D, Gigante D, Lasen C, Spampinato G, Venanzoni R, Zivkovic L (2009a) Italian interpretation Manual of the habitats (92/43/EEC Directive). Ministero dell'Ambiente e della Tutela del Territorio e del Mare.

<http://vnr.unipg.it/habitat/>Blasi et al., 2010. La Vegetazione d'Italia con Carta delle Serie di Vegetazione in scala 1:500000. Palombi ed., ISPRA, 2011. Dati del sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA, Corine land cover 2006 IV livello. Dati della Rete del sistema Informativo Nazionale Ambientale - SINAnet ISPRA, 2005. Dati del sistema informativo di Carta della Natura alla scala 1:50.000. Papini F., Gianguzzi L., Brullo S., Bianco P. M., Angelini P., 2006. Carta degli habitat della Regione "

2.3 Range of the habitat type in the biogeographical region or marine region

2.3.1 Surface area - Range (km ²)	1800
2.3.2 Range method used	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	unknown (x)
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 more than (>) unkown No method
2.3.10 Reason for change	genuine change No improved knowledge Yes different method Yes

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2.4 Area covered by Habitat

2.4.1 Surface area (km ²)	55,63
2.4.2 Year or period	2005-2012
2.4.3 Method used	Estimate based on partial data with some extrapolation and/or modelling (2)
2.4.4 Short-term trend period	2001-2012
2.4.5 Short-term trend direction	unknown (x)
2.4.6 Short-term trend magnitude	min max confidence interval
2.4.7 Short term trend method used	Estimate based on expert opinion with no or minimal sampling (1)
2.4.8 Long-term trend period	
2.4.9 Long-term trend direction	N/A
2.4.10 Long-term trend magnitude	min max confidence interval
2.4.11 Long term trend method used	N/A
2.4.12 Favourable reference area	area (km) operator more than (>) unknown No method
2.4.13 Reason for change	Improved knowledge/more accurate dataUse of different method

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
artificial planting on open ground (non-native trees) (B01.02)	high importance (H)	N/A
burning down (J01.01)	medium importance (M)	N/A
electricity and phone lines (D02.01)	medium importance (M)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A

2.5.1 Method used – pressures	Estimate based on partial data with some extrapolation and/or modelling(2)
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2.6 Main Threats

Threat	ranking	pollution qualifier(s)
artificial planting on open ground (non-native trees) (B01.02)	high importance (H)	N/A
burning down (J01.01)	medium importance (M)	N/A
electricity and phone lines (D02.01)	medium importance (M)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A

2.6.1 Method used – threats	Estimate based on expert opinion with no or minimal sampling(1)
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2.7 Complementary Information

2.7.1 Species

Quercus petraea

Asarum europaeum

Brachypodium sylvaticum

Bromopsis ramosa

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Carex pilosa

Carex umbrosa

Galium sylvaticum

Physospermum cornubiense

Polygonatum verticillatum

Ranunculus ficaria

Potentilla sterilis

Primula acaulis

Ranunculus auricomus

Stellaria holostea

Quercus robur

Carpinus betulus

Acer campestre

2.7.2 Species method used

Selected by ISPRA's expert from bibliographical and field research

2.7.3 Justification of % - thresholds for trends

2.7.4 Structure and functions - methods used

Estimate based on expert opinion with no or minimal sampling(1)

2.7.5 Other relevant information

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

2.8.1 Range

assessment Unknown(XX)
qualifiers N/A

2.8.2 Area

assessment Unknown(XX)
qualifiers N/A

2.8.3 Specific structures and functions (incl Species)

assessment Unknown(XX)
qualifiers N/A

2.8.4 Future prospects

assessment Unknown(XX)
qualifiers N/A

2.8.5 Overall assessment of Conservation Status

Unknown(XX)

2.8.5 Overall trend in Conservation Status

N/A

3. Natura 2000 coverage conservation measures - Annex I habitat types on biogeographical level

3.1 Area covered by habitat

3.1.1 Surface area (km²)

min 9,1012 max 9,1012

3.1.2 Method used

Complete survey/Complete survey or a statistically robust estimate (3)

3.1.3. Trend of surface area

N/A

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3.2 Conversation Measures

2.1 Biogeographical Region

2.2 Published

Continental (CON)

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2.3 Range of the habitat type in the biogeographical region or marine region

2.3.1 Surface area - Range (km²)

21600

2.3.2 Range method used

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

unknown (x)

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 (km²)

operator approximately equal to (≈)

unknown No

method

2.3.10 Reason for change

genuine change No

improved knowledge Yes

different method Yes

2.4 Area covered by Habitat

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2.4.1 Surface area (km ²)	323,8
2.4.2 Year or period	2005-2012
2.4.3 Method used	Estimate based on partial data with some extrapolation and/or modelling (2)
2.4.4 Short-term trend period	2001-2012
2.4.5 Short-term trend direction	unknown (x)
2.4.6 Short-term trend magnitude	min max confidence interval
2.4.7 Short term trend method used	Estimate based on expert opinion with no or minimal sampling (1)
2.4.8 Long-term trend period	
2.4.9 Long-term trend direction	N/A
2.4.10 Long-term trend magnitude	min max confidence interval
2.4.11 Long term trend method used	N/A
2.4.12 Favourable reference area	area (km) operator approximately equal to (≈) unknown No method
2.4.13 Reason for change	Improved knowledge/more accurate dataUse of different method

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
roads, motorways (D01.02)	medium importance (M)	N/A
Forest and Plantation management & use (B02)	high importance (H)	N/A
burning down (J01.01)	medium importance (M)	N/A
removal of forest undergrowth (B02.03)	high importance (H)	N/A
artificial planting on open ground (non-native trees) (B01.02)	high importance (H)	N/A
motorised vehicles (G01.03)	high importance (H)	N/A

2.5.1 Method used – pressures Estimate based on partial data with some extrapolation and/or modelling(2)

2.6 Main Threats

Threat	ranking	pollution qualifier(s)
roads, motorways (D01.02)	medium importance (M)	N/A
Forest and Plantation management & use (B02)	high importance (H)	N/A
burning down (J01.01)	medium importance (M)	N/A
removal of forest undergrowth (B02.03)	high importance (H)	N/A
artificial planting on open ground (non-native trees) (B01.02)	high importance (H)	N/A
motorised vehicles (G01.03)	high importance (H)	N/A

2.6.1 Method used – threats Estimate based on expert opinion with no or minimal sampling(1)

2.7 Complementary Information

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2.7.1 Species

Quercus robur

Carpinus betulus

Acer pseudoplatanus

Carex brizoides

Carex pendula

Carex pilosa

Galium laevigatum

Galium sylvaticum

Poa chaixii

Polygonatum multiflorum

Primula vulgaris

Ranunculus ficaria

Ranunculus nemorosus s.l.

Stellaria holostea

Tilia cordata

Salvia glutinosa

Acer campestre

2.7.2 Species method used

Selected by ISPRA's expert from bibliographical and field research

2.7.3 Justification of % - thresholds for trends

2.7.4 Structure and functions - methods used

Estimate based on expert opinion with no or minimal sampling(1)

2.7.5 Other relevant information

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

2.8.1 Range

assessment Unknown(XX)
qualifiers N/A

2.8.2 Area

assessment Unknown(XX)
qualifiers N/A

2.8.3 Specific structures and functions (incl Species)

assessment Unknown(XX)
qualifiers N/A

2.8.4 Future prospects

assessment Unknown(XX)
qualifiers N/A

2.8.5 Overall assessment of Conservation Status

Unknown(XX)

2.8.5 Overall trend in Conservation Status

N/A

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3. Natura 2000 coverage conservation measures - Annex I habitat types on biogeographical level

3.1 Area covered by habitat

3.1.1 Surface area (km ²)	min	67,0886	max	67,0886
3.1.2 Method used	Complete survey/Complete survey or a statistically robust estimate (3)			
3.1.3. Trend of surface area	N/A			

3.2 Conversation Measures

2.1 Biogeographical Region

2.2 Published

Alpine (ALP)

The present Habitat assessment (fields 0.1-3.1) has been compiled by Pierangela Angelini (ISPRA). Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Cesare Lasen(SBI), Pietro Massimiliano Bianco and Pierangela Angelini (ISPRA, field 2.7.1).

"Brentan D., Burbello A., Avanzi E., Gasparini S., Laureti L., Bianco P.M., 2008. Carta degli habitat della regione Veneto per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Arpa Veneto.
[Http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l'Ambiente/Sistema_Carta_della_Natura](http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l'Ambiente/Sistema_Carta_della_Natura)"Biondi E, Blasi C, Burrascano S, Casavecchia S, Copiz R, Del Vico E, Galdenzi D, Gigante D, Lasen C, Spampinato G, Venanzoni R, Zivkovic L (2009a) Italian interpretation Manual of the habitats (92/43/EEC Directive). Ministero dell'Ambiente e della Tutela del Territorio e del Mare. [Http://vnr.unipg.it/habitat/](http://vnr.unipg.it/habitat/)"Blasi et al., 2010. La Vegetazione d'Italia con Carta delle Serie di Vegetazione in scala 1:500000. Palombi ed., ISPRA, 2011. Dati del sistema informativo di Carta della Natura alla scala 1:50.000."ISPRA, Corine land cover 2006 IV livello. Dati della Rete del sistema Informativo Nazionale Ambientale - SINAnet"

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2.3 Range of the habitat type in the biogeographical region or marine region

2.3.1 Surface area - Range (km ²)	9000	
2.3.2 Range method used	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	decrease (-)	
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	much more than (>>)
	unknown	No
	method	
2.3.10 Reason for change	genuine change	No
	improved knowledge	Yes
	different method	Yes

2.4 Area covered by Habitat

2.4.1 Surface area (km ²)	68,07		
2.4.2 Year or period	2005-2012		
2.4.3 Method used	Estimate based on partial data with some extrapolation and/or modelling (2)		
2.4.4 Short-term trend period	2001-2012		
2.4.5 Short-term trend direction	decrease (-)		
2.4.6 Short-term trend magnitude	min	max	confidence interval
2.4.7 Short term trend method used	Estimate based on expert opinion with no or minimal sampling (1)		
2.4.8 Long-term trend period			
2.4.9 Long-term trend direction	N/A		
2.4.10 Long-term trend magnitude	min	max	confidence interval
2.4.11 Long term trend method used	N/A		
2.4.12 Favourable reference area	area (km)		
	operator	much more than (>>)	
	unknown	No	
	method		
2.4.13 Reason for change	Improved knowledge/more accurate dataUse of different method		

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
roads, motorways (D01.02)	medium importance (M)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	high importance (H)	N/A
Urbanised areas, human habitation (E01)	medium importance (M)	N/A
burning down (J01.01)	medium importance (M)	N/A
human induced changes in hydraulic conditions (J02)	medium importance (M)	N/A
Drying out (K01.03)	low importance (L)	N/A

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Other ecosystem modifications (J03)	medium importance (M)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	medium importance (M)	N/A
Forest and Plantation management & use (B02)	high importance (H)	N/A
Forestry activities not referred to above (B07)	medium importance (M)	N/A

2.5.1 Method used – pressures Estimate based on partial data with some extrapolation and/or modelling(2)

2.6 Main Threats

Threat	ranking	pollution qualifier(s)
roads, motorways (D01.02)	medium importance (M)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	high importance (H)	N/A
Urbanised areas, human habitation (E01)	medium importance (M)	N/A
burning down (J01.01)	medium importance (M)	N/A
human induced changes in hydraulic conditions (J02)	medium importance (M)	N/A
Drying out (K01.03)	low importance (L)	N/A
Other ecosystem modifications (J03)	medium importance (M)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	medium importance (M)	N/A
Forest and Plantation management & use (B02)	high importance (H)	N/A
Forestry activities not referred to above (B07)	medium importance (M)	N/A

2.6.1 Method used – threats Estimate based on expert opinion with no or minimal sampling(1)

2.7 Complementary Information

2.7.1 Species

Fraxinus excelsior
Asparagus tenuifolius
Carex brizoides
Carex pendula
Carex pilosa
Dactylis polygama
Galium sylvaticum
Poa chaixii
Stellaria holostea
Polygonatum multiflorum
Potentilla sterilis
Physospermum cornubiense
Ranunculus auricomus s.l.
Ranunculus nemorosus
Quercus robur
Carpinus betulus

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Tilia cordata

2.7.2 Species method used	Selected by ISPRA's expert from bibliographical and field research
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2.7.3 Justification of % - thresholds for trends	
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2.7.4 Structure and functions - methods used	Estimate based on expert opinion with no or minimal sampling(1)
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2.7.5 Other relevant information	
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2.8 Conclusions (assessment of conservation status at end of reporting period)

2.8.1 Range	assessment Bad(U2) qualifiers N/A
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2.8.2 Area	assessment Bad(U2) qualifiers N/A
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2.8.3 Specific structures and functions (incl Species)	assessment Bad(U2) qualifiers N/A
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2.8.4 Future prospects	assessment Bad(U2) qualifiers N/A
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2.8.5 Overall assessment of Conservation Status	Bad(U2)
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2.8.5 Overall trend in Conservation Status	declining(-)
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3. Natura 2000 coverage conservation measures - Annex I habitat types on biogeographical level

3.1 Area covered by habitat

3.1.1 Surface area (km²)	min	7,9996	max	7,9996
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3.1.2 Method used	Complete survey/Complete survey or a statistically robust estimate (3)
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3.1.3. Trend of surface area	N/A
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3.2 Conversation Measures