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

CODE: 9340

NAME: Quercus ilex and Quercus rotundifolia forests

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

Mediterranean (MED)

2.2 Published

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 Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Giovanni Spampinato(SBI), Pietro Massimiliano Bianco and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).

"Angelini P., Augello R., Bianco P.M., Gennaio R., La Ghezza V., Lavarra P., Marrese M., Papallo O., Perrino V. M., Sani R., M. Stelluti. 2012. Carta degli habitat della Regione Puglia per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Arpa Puglia Bianco P.M., Laureti L., Papallo O. , Perfetti D. 2012 Carta degli habitat della Regione Umbria per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA 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., Camarda I., Carta L., Brunu A., Brundu G. , Laureti L. , Angelini P., Bagnaia R., 2011. Carta degli habitat della Regione Sardegna per il sistema informativo di Carta della Natura alla scala 1:50.000. Dipartimento di Scienze Botaniche Ecologiche e Geologiche dell'Università degli Studi di Sassari - ISPRA - Regione Sardegna Casella L., Agrillo E., Bianco P.M., Cardillo A., Carbone M., Cattena C., Laureti L., Lugari A., Spada F., 2008. Carta degli habitat della Regione Lazio per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Università degli Studi di Roma "La Sapienza" - Regione Lazio 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 Sicilia per il sistema informativo di Carta della Natura alla scala 1:50.000. Dipartimento di Scienze Botaniche dell'Università degli Studi di Palermo - Dipartimento di Botanica dell'Università degli Studi di Catania -Regione Sicilia – ISPRA Brullo S., Gianguzi L., La Mantia A.,Siracusa G., 2008 - La classe Quercetea ilicis in Sicilia. Boll. Acc. Gioenia Sci Nat. 41(369):1-124. Prisco I., Acosta A.T.R., Ercole S., 2012. An overview of the Italian coastal dune EU habitats. Ann. Bot. 2:

39-48.?"

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

2.3.1 Surface area - Range (km²)	133700	
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 (km²)	
	operator	approximately equal to (≈)
	unkown	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 (km²)	6998,57		
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	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)
burning down (J01.01)	medium importance (M)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
Erosion (K01.01)	medium importance (M)	N/A
motorised vehicles (G01.03)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A

removal of forest undergrowth (B02.03)	medium importance (M)	N/A
Sand and gravel extraction (C01.01)	medium importance (M)	N/A
collapse of terrain, landslide (L05)	medium importance (M)	N/A
Roads, paths and railroads (D01)	medium importance (M)	N/A
forestry clearance (B02.02)	medium importance (M)	N/A
grazing (A04)	high importance (H)	N/A
forest exploitation without replanting or natural regrowth (B03)	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)
burning down (J01.01)	medium importance (M)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
Erosion (K01.01)	medium importance (M)	N/A
motorised vehicles (G01.03)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
removal of forest undergrowth (B02.03)	medium importance (M)	N/A
Sand and gravel extraction (C01.01)	medium importance (M)	N/A
collapse of terrain, landslide (L05)	medium importance (M)	N/A
Roads, paths and railroads (D01)	medium importance (M)	N/A
forestry clearance (B02.02)	medium importance (M)	N/A
grazing (A04)	high importance (H)	N/A
forest exploitation without replanting or natural regrowth (B03)	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

Quercus ilex ssp. Ilex
Laurus nobilis
Arbutus unedo
Phillyrea latifolia
Rhamnus alaternus
Viburnum tinus
Erica arborea
Rubia peregrina
Smilax aspera
Lonicera implexa

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Cyclamen repandum

Asparagus acutifolius

Carex halleriana

Carex distachya

Clematis cirrhosa

Clematis flammula

Daphne gnidium

Viola alba subsp. Dehnhardtii

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	Inadequate(U1)
	qualifiers	N/A
2.8.2 Area	assessment	Inadequate(U1)
	qualifiers	N/A
2.8.3 Specific structures and functions (incl Species)	assessment	Inadequate(U1)
	qualifiers	N/A
2.8.4 Future prospects	assessment	Inadequate(U1)
	qualifiers	N/A
2.8.5 Overall assessment of Conservation Status	Inadequate(U1)	
2.8.5 Overall trend in Conservation Status	declining(-)	

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	1764,29469	max	1764,29469
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

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

2.1 Biogeographical Region
2.2 Published

Continental (CON)

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 and Liliana Zivkovic(SBI), Pietro Massimiliano Bianco and Pierangela Angelini (ISPRA, field 2.7.1).
"Bianco P.M., Laureti L., Papallo O. , Perfetti D. 2012 Carta degli habitat della Regione Umbria per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA 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., 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%27Ambiente/Sistema_Carta_della_Natura Casella L., Agrillo E., Bianco P.M., Cardillo A., Carbone M., Cattena C., Laureti L., Lugari A., Spada F., 2008. Carta degli habitat della Regione Lazio per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Università degli Studi di Roma "La Sapienza" - Regione Lazio 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 Oriolo G., Dragan M., Fernetti M., Francescato C., Tomasella M., Giorgi R. 2007. Carta degli habitat della regione Friuli Venezia Giulia per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA-Regione Friuli Venezia Giulia. Http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura Pesaresi S, Biondi E, Casavecchia S, Catorci A, Foglia M., 2007. Il Geodatabase del Sistema Informativo Vegetazionale delle Marche. Fitosociol 44 (2) suppl. 1: 95-101 http://www.ortobotanico.univpm.it/cartography Prisco I., Acosta A.T.R., Ercole S., 2012. An overview of the Italian coastal dune EU habitats. Ann. Bot. 2: 39-48. PIANO DI GESTIONE del SIC-zps IT4070002 "BARDELLO". Rapporto tecnico non pubblicato. "

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

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

2.3.1 Surface area - Range (km²)	18200	
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	increase (+)	
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 (≈)
	unkown	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 (km²)	109,82		
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	increase (+)		
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
Erosion (K01.01)	medium importance (M)	N/A
Forest and Plantation management & use (B02)	medium importance (M)	N/A
Mining and quarrying (C01)	high importance (H)	N/A
Discharges (E03)	low importance (L)	N/A
burning down (J01.01)	high importance (H)	N/A

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

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
Erosion (K01.01)	medium importance (M)	N/A
Forest and Plantation management & use (B02)	medium importance (M)	N/A
Mining and quarrying (C01)	high importance (H)	N/A
Discharges (E03)	low importance (L)	N/A
burning down (J01.01)	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

2.7.1 Species
Quercus ilex
Fraxinus ornus
Ostrya carpinifolia
Laurus nobilis
Phillyrea latifolia
Phillyrea angustifolia
Rhamnus alaternus
Pistacia terebinthus
Viburnum tinus
Erica arborea
Rubia peregrina
Smilax aspera
Lonicera implexa
Cyclamen hederifolium
Cyclamen repandum
Asparagus acutifolius
Carex distachya
Carex olbiensis
Rosa sempervirens
Ruscus aculeatus

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	Favourable(FV)
	qualifiers	N/A
2.8.2 Area	assessment	Favourable(FV)
	qualifiers	N/A
2.8.3 Specific structures and functions (incl Species)	assessment	Favourable(FV)
	qualifiers	N/A
2.8.4 Future prospects	assessment	Favourable(FV)
	qualifiers	N/A
2.8.5 Overall assessment of Conservation Status	Favourable(FV)	
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	60,0239	max	60,0239
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	**Alpine (ALP)**
2.2 Published	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). "Blasi C., Filesi L., Pirone G., Canini L., Carranza M.L., Fiorini S., Michetti L., Paolanti M., Rivieccio R., Tartaglini N., 1999 - Realizzazione degli studi preliminari e dell'elaborato tecnico del Piano del Parco e del Regolamento. Ente Parco Nazionale della Majella. 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%27Ambiente/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/ Blasi et al., 2010. La Vegetazione d'Italia con Carta delle Serie di Vegetazione in scala 1:500000. Palombi ed., Casella L., Agrillo E., Bianco P.M., Cardillo A., Carbone M., Cattena C., Laureti L., Lugari A., Spada F., 2008. Carta degli habitat della Regione Lazio per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Università degli Studi di Roma "La Sapienza" - Regione Lazio 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 Oriolo G., Dragan M., Fernetti M., Francescato C., Tomasella M., Giorgi R. 2007. Carta degli habitat della regione Friuli Venezia Giulia per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA-Regione Friuli Venezia Giulia. http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura Prisco I., Acosta A.T.R., Ercole S., 2012. An overview of the Italian coastal dune EU habitats. Ann. Bot. 2: 39-48. "

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

2.3.1 Surface area - Range (km²)	5000	
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	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 (km²)	
	operator	approximately equal to (≈)
	unkown	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 (km²)	44,51		
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	stable (0)		
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)		

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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
burning down (J01.01)	medium importance (M)	N/A
Erosion (K01.01)	low importance (L)	N/A
paths, tracks, cycling tracks (D01.01)	low importance (L)	N/A
Forest and Plantation management & use (B02)	medium importance (M)	N/A
Forestry activities not referred to above (B07)	medium importance (M)	N/A
Biocenotic evolution, succession (K02)	low importance (L)	N/A
Other human intrusions and disturbances (G05)	medium importance (M)	N/A
Utility and service lines (D02)	low importance (L)	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
burning down (J01.01)	medium importance (M)	N/A
Erosion (K01.01)	low importance (L)	N/A
paths, tracks, cycling tracks (D01.01)	low importance (L)	N/A
Forest and Plantation management & use (B02)	medium importance (M)	N/A
Forestry activities not referred to above (B07)	medium importance (M)	N/A
Biocenotic evolution, succession (K02)	low importance (L)	N/A
Other human intrusions and disturbances (G05)	medium importance (M)	N/A
Utility and service lines (D02)	low importance (L)	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 ilex ssp. Ilex
Ostrya carpinifolia
Cyclamen hederifolium
Argyrolobium zanonii
Asplenium onopteris
Carex hallerana
Centranthus ruber
Rhamnus alaternus
Phillyrea latifolia
Pistacia terebinthus
Polypodium cambricum

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	Favourable(FV)
	qualifiers	N/A
2.8.2 Area	assessment	Favourable(FV)
	qualifiers	N/A
2.8.3 Specific structures and functions (incl Species)	assessment	Inadequate(U1)
	qualifiers	N/A
2.8.4 Future prospects	assessment	Inadequate(U1)
	qualifiers	N/A
2.8.5 Overall assessment of Conservation Status	Inadequate(U1)	
2.8.5 Overall trend in Conservation Status	declining(-)	

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	16,9643	max	16,9643
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

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