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

CODE: 91F0

NAME: Riparian mixed forests of Quercus robur, Ulmus laevis and Ulmus minor, Fraxinus excelsior or Fraxinus angustifolia,

1. National Level

1.1 Maps

1.1.1 Distribution Map	Yes
1.1.2 Distribution Method	Estimate based on expert opinion with no or minimal sampling (1)
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 Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Giovanni Spampinato(SBI), Pietro Massimiliano Bianco and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 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 ISPRA, 2005. Dati del sistema informativo di Carta della Natura alla scala 1:50.000. Pedrotti F., Gafta D., 1996. Ecologia delle foreste ripariali e paludose dell'Italia. L'uomo e l'ambiente, 23 Taffetani F., 2011. Il Bosco Fantine. Un'area umida retrodunale di elevato valore naturalistico e ambientale nel Comune di Campomarino (CB). I Quaderni della Selva. Vol. IV "

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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)	14100	
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	much more than (>>)
	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)	41,34		
2.4.2 Year or period	2005-2012		
2.4.3 Method used	Estimate based on expert opinion with no or minimal sampling (1)		
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
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
burning down (J01.01)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
discontinuous urbanisation (E01.02)	medium importance (M)	N/A
Fertilisation (A08)	medium importance (M)	N/A

Discharges (E03)	low importance (L)	N/A
Irrigation (A09)	medium importance (M)	N/A
forest exploitation without replanting or natural regrowth (B03)	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)

2.6 Main Threats

Threat	ranking	pollution qualifier(s)
roads, motorways (D01.02)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
burning down (J01.01)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
discontinuous urbanisation (E01.02)	medium importance (M)	N/A
Fertilisation (A08)	medium importance (M)	N/A
Discharges (E03)	low importance (L)	N/A
Irrigation (A09)	medium importance (M)	N/A
forest exploitation without replanting or natural regrowth (B03)	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)

2.7 Complementary Information

2.7.1 Species

Quercus robur subsp. Robur
Quercus robur subsp. Brutia
Ulmus minor
Fraxinus angustifolia subsp. Oxycarpa
Fraxinus excelsior
Populus nigra
Populus canescens
Alnus cordata
Alnus glutinosa
Salix cinerea
Aristolochia spp.
Carex remota
Circaea lutetiana
Equisetum spp.
Humulus lupulus

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Leucojum aestivum

Periploca graeca

Polygonatum multiflorum

Veronica scutellata

Vitis vinifera ssp. Sylvestris

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	Bad(U2)
	qualifiers	N/A
2.8.2 Area	assessment	Bad(U2)
	qualifiers	N/A
2.8.3 Specific structures and functions (incl Species)	assessment	Bad(U2)
	qualifiers	N/A
2.8.4 Future prospects	assessment	Bad(U2)
	qualifiers	N/A
2.8.5 Overall assessment of Conservation Status	Bad(U2)	
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	33,6468	max	33,6468
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	**Continental (CON)**
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 and Liliana Zivkovic(SBI), Pietro Massimiliano Bianco and Pierangela Angelini (ISPRA, field 2.7.1). "Pirone G., Ciaschetti G., Frattaroli A,R., Corbetta F., 2003 - La vegetazione della Riserva Naturale Regionale “Lago di Serranella” (Abruzzo – Italia). Fitosociologia, 40 (2): 55-71. Conti F., Pirone G., 1992. Le cenosi di Fraxinus oxycarpa Bieb e di Carpinus betulus L. del bosco di Vallaspra nel bacino del fume Sangro (Abruzzo, Italia). Doc. Phytosoc., 14: 167-175. Allegrezza M., Mentoni M. & Tesei G., 2010. Geomorfologia e paesaggio vegetale: l'esempio della grande frana di Pescacci (Comune di Serra San Quirico-Appennino centrale). Fitosociologia 47(2): 57-97.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 LazioISPRA, 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 - SINAnetOriolo 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_NaturaPedrotti F., 1980. Foreste ripariali lungo la costa adriatica dell'Italia. Coll. phtosoc. IX: 143-154.Pedrotti F., Gafta D., 1996. Ecologia delle foreste ripariali e paludose dell’Italia. L’uomo e l’ambiente, 23Pesaresi 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"

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

2.3.1 Surface area - Range (km²)	35300	
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	much more than (>>)
	unkown	No
	method	
2.3.10 Reason for change	genuine change	No
	improved knowledge	Yes
	different method	Yes

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

2.4 Area covered by Habitat

2.4.1 Surface area (km²)	101,18		
2.4.2 Year or period	2005-2012		
2.4.3 Method used	Estimate based on expert opinion with no or minimal sampling (1)		
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)		
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)
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
Fertilisation (A08)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
Urbanised areas, human habitation (E01)	medium importance (M)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
Modification of hydrographic functioning, general (J02.05)	high importance (H)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
burning down (J01.01)	high importance (H)	N/A
removal of forest undergrowth (B02.03)	medium importance (M)	N/A
forest exploitation without replanting or natural regrowth (B03)	medium importance (M)	N/A
forestry clearance (B02.02)	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)
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
Fertilisation (A08)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
Urbanised areas, human habitation (E01)	medium importance (M)	N/A

roads, motorways (D01.02)	medium importance (M)	N/A
Modification of hydrographic functioning, general (J02.05)	high importance (H)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
burning down (J01.01)	high importance (H)	N/A
removal of forest undergrowth (B02.03)	medium importance (M)	N/A
forest exploitation without replanting or natural regrowth (B03)	medium importance (M)	N/A
forestry clearance (B02.02)	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 robur
Ulmus minor
Fraxinus angustifolia
Fraxinus excelsior
Populus nigra
Populus canescens
Populus tremula
Alnus glutinosa
Prunus padus
Aristolochia clematitis
Aristolochia pallida
Humulus lupulus
Leucojum aestivum
Vitis vinifera ssp. Sylvestris
Ulmus laevis
Clematis viticella
Circaea lutetiana
Polygonatum multiflorum
Corydalis cava
Gagea lutea

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	

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

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

2.8.1 Range	assessment	Bad(U2)
	qualifiers	N/A
2.8.2 Area	assessment	Bad(U2)
	qualifiers	N/A
2.8.3 Specific structures and functions (incl Species)	assessment	Bad(U2)
	qualifiers	N/A
2.8.4 Future prospects	assessment	Bad(U2)
	qualifiers	N/A
2.8.5 Overall assessment of Conservation Status	Bad(U2)	
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	56,44142	max	56,44142
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). "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 LazioISPRA, 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 - SINAnetOriolo 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 Pedrotti F., 1980. Foreste ripariali lungo la costa adriatica dell'Italia. Coll. Phtosoc. IX: 143-154. Pedrotti F., Gafta D., 1996. Ecologia delle foreste ripariali e paludose dell'Italia. L'uomo e l'ambiente, 23"

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

2.3.1 Surface area - Range (km²)	6800	
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	more than (>)
	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)	31,33		
2.4.2 Year or period	2005-2012		
2.4.3 Method used	Estimate based on expert opinion with no or minimal sampling (1)		
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

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

Pressure	ranking	pollution qualifier(s)
Forest and Plantation management & use (B02)	high importance (H)	N/A
Forestry activities not referred to above (B07)	medium importance (M)	N/A
Roads, paths and railroads (D01)	high importance (H)	N/A
Improved access to site (D05)	medium importance (M)	N/A
Discharges (E03)	low importance (L)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	low importance (L)	N/A
Sport and leisure structures (G02)	low importance (L)	N/A
Other human intrusions and disturbances (G05)	medium importance (M)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	medium importance (M)	N/A
invasive non-native species (I01)	high importance (H)	N/A
human induced changes in hydraulic conditions (J02)	high importance (H)	N/A
Other ecosystem modifications (J03)	medium importance (M)	N/A
Biocenotic evolution, succession (K02)	medium importance (M)	N/A
inundation (natural processes) (L08)	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)
Forest and Plantation management & use (B02)	high importance (H)	N/A
Forestry activities not referred to above (B07)	medium importance (M)	N/A
Roads, paths and railroads (D01)	high importance (H)	N/A
Improved access to site (D05)	medium importance (M)	N/A
Discharges (E03)	low importance (L)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	low importance (L)	N/A
Sport and leisure structures (G02)	low importance (L)	N/A
Other human intrusions and disturbances (G05)	medium importance (M)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	medium importance (M)	N/A
invasive non-native species (I01)	high importance (H)	N/A
human induced changes in hydraulic conditions (J02)	high importance (H)	N/A
Other ecosystem modifications (J03)	medium importance (M)	N/A
Biocenotic evolution, succession (K02)	medium importance (M)	N/A
inundation (natural processes) (L08)	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

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

2.7.1 Species
Quercus robur
Ulmus laevis
Ulmus minor
Ulmus glabra
Aristolochia pallida
Aristolochia clematitis
Fraxinus excelsior
Fraxinus angustifolia
Populus tremula
Alnus glutinosa
Prunus padus
Humulus lupulus
Vitis vinifera ssp. Sylvestris
Corydalis cava
Corydalis solida
Gagea lutea
Ribes rubrum

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	Bad(U2)
	qualifiers	N/A
2.8.3 Specific structures and functions (incl Species)	assessment	Bad(U2)
	qualifiers	N/A
2.8.4 Future prospects	assessment	Bad(U2)
	qualifiers	N/A
2.8.5 Overall assessment of Conservation Status	Bad(U2)	
2.8.5 Overall trend in Conservation Status	declining(-)	

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

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	3,3427	max	3,3427
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