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 partial data with some extrapolation and/or modelling (2)
1.1.3 Year or period	2006-2012
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

Dimopoulos P., Xystrakis F. and Tsiripidis I. 2014. Deliverable A1. Final Catalogue of Habitat Types – 1st edition. Ministry of Environment, Energy and Climate Change, OIKOM Ltd - E. Alexandropoulou - A. Glavas, Athens, pages 54.

Dimopoulos P., Fotiadis G., Tsiripidis I., Panitsa M. and Karadimou E. 2014. Deliverable A2. Report and Literature Database on Habitat Types of Greece – 1st edition. Ministry of Environment, Energy and Climate Change, OIKOM Ltd - E. Alexandropoulou - A. Glavas, Athens, pages 210.

Tsiripidis I., Xystrakis F., Kasampalis D., Mastrogianni A., Strid A. and Dimopoulos P., 2014. Deliverable A4. Potential Distribution Maps of Habitat Types – 1st edition. Ministry of Environment, Energy and Climate Change, OIKOM Ltd - E. Alexandropoulou - A. Glavas, Athens, Athens, pages 176.

Dimopoulos P., Tsiripidis I., Xystrakis F., Panitsa M., Fotiadis G., Kallimanis A.S. and Kazoglou I. 2014. Deliverable A6. Explanatory Implementation Manual for the Conservation Degree Assessment of Habitat Types – 1st edition. Ministry of Environment, Energy and Climate Change, OIKOM Ltd - E. Alexandropoulou - A. Glavas, Athens, pages 35. (with Annexes: I. Habitat types protocols, pages 600; II. Explanatory notes on the habitat types protocols selection, pages 4; III. Correspondence of Habitat types protocols with the clusters of vegetation relevés (excel file).

Dimopoulos P., Tsiripidis I., Xystrakis F., Kallimanis A.S and Panitsa M. 2014. Deliverable A7. Preliminary Analysis of the Field Data for the Habitat Types – 1st edition. Ministry of Environment, Energy and Climate Change, OIKOM Ltd - E. Alexandropoulou - A. Glavas, Athens, pages 16.

Αθανασιάδης Ν., Θεοδωρόπουλος Κ., Ελευθεριάδου Ε. & Δρόσος Ε. 1996. Δασικές φυτοκοινωνίες του δέλτα του Θεσσαλικού Πηνειού. Επιστ. Επετ. Τμημ. Δασολογίας και Φυσικού Περιβάλλοντος 39(2): 879-902.

Αθανασιάδης Ν.Η. & Δρόσος Ε.Γ. 1989. Leucujo-Fraxinetum parvifoliae Glavac 59 και Pruno-Fraxinetum Oberd. 53 του Δέλτα του Θεσσαλικού Πηνειού. Επιστ. Επετ. Τμημ. Δασολογίας και Φυσικού Περιβάλλοντος ΛΒ(1): 543-558.

Παναγιωτίδης Σ. & Φωτιάδης Γ. 2001. Μονάδες βλάστησης κατάλοιπων παρόχθιων δασών της κεντρικής Μακεδονίας. Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος ΜΔ: 477-488.

Raus Th. 1980. Die vegetation Osthessaliens (Griechenland), III. Querco-Fagetea und azonale Gehölzgesellschaften. Bot. Jahrb. Syst. 101(3): 313-361.

Sarika M., Dimopoulos P. & Yannitsaros A. 2005. Contribution to the knowledge of the wetland flora and vegetation of Amvrakikos Gulf. W Greece. Willdenowia 35: 69-85.

Στάμου Α., Θεοδωρόπουλος Κ. & Ελευθεριάδου Ε. 2003. Φυτοκοινωνική έρευνα

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αζωνικών εμφανίσεων πλατάνου (Platanus orientalis L.) και μικτών φράξου-πτελ έας (Fraxinus angustifolia Vahl ssp. Oxycarpa (Bieb. Ex Willd.) Franco & Rocha Afonso – Ulmus minor Miller) στο ποτάμιο σύστημα Κηρέα – Νηλέα – Βούδωρου (Β. Εύβοια, Ελλάδα). Γεωτεχνικά Επιστημονικά Θέματα 14 (2): 54-68.
Vasilopoulos G., Tsiripidis I. & Karagiannakidou V. 2007. Do abandoned tree plantations resemble natural riparian forests? A case study from northeast Greece. Bot. Helv. 117: 125-142.

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

2.3.1 Surface area - Range (km²)	567	
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	Improved knowledge/more accurate data Use of different method	

2.4 Area covered by Habitat

2.4.1 Surface area (km²)	96,4	
2.4.2 Year or period	2000-2012	
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
2.4.7 Short term trend method used	Estimate based on partial data with some extrapolation and/or modelling (2)	
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
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 data Use of different method	

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
Interspecific faunal relations (K03)	low importance (L)	N/A
Cultivation (A01)	high importance (H)	N/A
modification of cultivation practices (A02)	low importance (L)	N/A
grazing (A04)	medium importance (M)	N/A
Irrigation (A09)	medium importance (M)	N/A

Improved access to site (D05)	low importance (L)	N/A
human induced changes in hydraulic conditions (J02)	high importance (H)	N/A
Changes in abiotic conditions (M01)	low importance (L)	N/A

2.5.1 Method used – pressures: mainly based on expert judgement and other data (2)

2.6 Main Threats

Threat	ranking	pollution qualifier(s)
Interspecific faunal relations (K03)	low importance (L)	N/A
Cultivation (A01)	high importance (H)	N/A
modification of cultivation practices (A02)	low importance (L)	N/A
grazing (A04)	medium importance (M)	N/A
Irrigation (A09)	medium importance (M)	N/A
Improved access to site (D05)	low importance (L)	N/A
human induced changes in hydraulic conditions (J02)	medium importance (M)	N/A

2.6.1 Method used – threats: expert opinion (1)

2.7 Complementary Information

2.7.1 Species

Alisma plantago-aquatica
Alnus glutinosa
Arctium lappa
Aristolochia clematitis
Ballota nigra
Brachypodium sylvaticum
Clematis vitalba
Cornus sanguinea
Equisetum telmateia
Eupatorium cannabinum
Fraxinus angustifolia
Hedera helix
Holcus lanatus
Humulus lupulus
Iris pseudacorus
Juglans regia
Leucojum aestivum
Lycopus europaeus
Lythrum salicaria
Mentha aquatica
Oenanthe fistulosa
Periploca graeca
Populus alba

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Quercus robur
Ranunculus repens
Rumex sanguineus
Silene baccifera
Silene gigantea
Dioscorea communis (syn:Tamus communis)
Ulmus minor
Ulmus procera
Urtica dioica

2.7.2 Species method used	Typical species were determined on the basis of a vegetation database, comprised of about 22000 sampling plots. First, a list of possible typical species was determined per habitat type, selecting the ones presenting a high fidelity value to the habitat types according the algorithm of Tsiripidis et al. (2009) and the phi coefficient value (Chytrý et al. 2002). Then typical species per habitat type were selected from the above-mentioned lists by expert judgment and using as criteria species niche breadth, their ability to comprise indicators of habitat types' conservation status and their function as keystone species. The nomenclature of the typical species follows Dimopoulos et al. (2013). References Chytrý , M., Tichý , L., Holt, J. & Botta-Duká t, J. 2002. Determination of diagnostic species with statistical fidelity measures. Journal of Vegetation Science 13: 79–90. Dimopoulos, P., Raus, Th., Bergmeier, E., Constantinidis, Th., Iatrou, G., Kokkini, S., Strid, A. & Tzanoudakis, D. 2013: Vascular plants of Greece: an annotated checklist. – Berlin: Botanischer Garten und Botanisches Museum Berlin-Dahlem, Freie Universität Berlin; Athens: Hellenic Botanical Society. Englera 31: 1-367. Tsiripidis, I., Bergmeier, E., Fotiadis, G. & Dimopoulos, P. 2009. A new algorithm for the determination of differential taxa. Journal of Vegetation Science 20: 233-240.
2.7.3 Justification of % - thresholds for trends	
2.7.4 Structure and functions - methods used	Complete survey/Complete survey or a statistically robust estimate (3)
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	Inadequate (U1)
	qualifiers	stable (=)

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2.8.3 Specific structures and functions (incl Species)	assessment	Inadequate (U1)
	qualifiers	stable (=)
2.8.4 Future prospects	assessment	Inadequate (U1)
	qualifiers	stable (=)
2.8.5 Overall assessment of Conservation Status		Inadequate (U1)
2.8.5 Overall trend in Conservation Status		stable (=)

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	5,2	max	5,2
3.1.2 Method used	Complete survey/Complete survey or a statistically robust estimate (3)			
3.1.3. Trend of surface area	stable (0)			

3.2 Conversation Measures

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Establish protected areas/sites (6.1)	Legal Administrative One-off	low importance (L)	Inside	Enhance Long term