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

CODE: 9280

NAME: Quercus frainetto woods

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.

Bergmeier E. & Dimopoulos P. 1999. Classification of Greek Fagus woodlands: a preliminary survey. Annali di Botanica (Roma), 57: 91-104.

Bergmeier E. & Dimopoulos P. 2001. Fagus sylvatica forest vegetation in Greece: Syntaxonomy and gradient analysis. Journal of Vegetation Science 12: 109-126.

Βραχνάκης Μ., Φωτιάδης Γ. & Καζόγλου Ι. 2011. Τύποι Οικοτόπων Εθνικού Πάρκ ου Πρεσπών – Αναγνώριση-Καταγραφή 2011. Εταιρία Προστασίας Πρεσπών, σελ . 101.

Δαμιανίδης Χ., Γερασιμίδης Α. & Θεοδωρόπουλος Κ. 2009. Οι φυτοκοινωνίες των δασών οξιάς του όρους Λαϊλιά των Σερρών. Πρακτικά 14ου Πανελλήνιου Δασολ ογικού Συνεδρίου, Πάτρα, 1-4 Νοεμβρίου 2009: 295-306.

Δημόπουλος Π. & Bergmeier E. 1998. Χωρολογία και συνχωρολογία των δασών ο ξυάς στην Ελλάδα. Πρακτικά 7ου Πανελλήνιου Επιστημονικού Συνεδρίου της Ελλ ηνικής Βοτανικής Εταιρίας, Αλεξανδρούπολη, 1-4 Οκτωβρίου 1998: 96-101.

Dimopoulos P. & Bergmeier E. 1997. The Beech forests of Greece: Diversity, Syntaxonomy and relationships with the Palaearctic Habitat Classification. 6th

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International Workshop, "European Vegetation Survey", Rome, Italy, 13 -16 March 1997.
Ελευθεριάδου Ε., Τσιριπίδης Ι., Θεοδωρόπουλος Κ. & Ξυστράκης Φ. 2007. Τύποι οικοτόπων της περιοχής "Ροδόπη (Σημύδα)" του Δικτύου "Φύση 2000". Πρακτικά 13ου Πανελλήνιου Δασολογικού Συνεδρίου της Ελληνικής Δασολογικής Εταιρείας, Χλόη Καστοριάς, 7-10 Οκτωβρίου 2007 (τόμος Ι): 91-99.
Gamisans J. & Hebrard J.-P. 1980. A propos de la vegetation des forets en Grece du Nord-est (Macedoine orientale et Thrace occidentale). Documents phytosociologiques 5:243-276.
Θεοδωρόπουλος Κ. 2001. Ζώνες βλάστησης και τύποι οικοτόπων του νομού Θεσσαλονίκης. Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος ΜΔ: 353-381.
Καραγιαννακίδου–Ιατροπούλου Β. 1983. Σταθμολογική έρευνα στην Querco – Fagetea κλάση του ορεινού συγκροτήματος του Χορτιάτη. Διδακτορική Διατριβή. ΑΠΘ. Επιστ. Επετ. Σχολής Θετικών Επιστημών, 22 (25) σελ. 161.
Karagiannakidou V. 1993. Site research in beech forests of the Chortiatis Mountain Range, NE Greece. Bot. Helv. 103: 23-37.
Πουλής Γ. 2011. Οι φυτοκοινωνίες των δασών οξιάς του όρους Οξυά (Κ. Ελλάδα). Μεταπτυχιακή Διατριβή. Τμήμα Δασολογίας & Φυσικού Περιβάλλοντος, ΑΠΘ, σελ. 50.
Raus Th. 1980. Die vegetation Osthessaliens (Griechenland), III. Querco-Fagetea und azonale Gehölzgesellschaften. Bot. Jahrb. Syst. 101(3): 313-361.
Schreiber H.J. 1998. Waldgrenznahe Buchenwälder und Grasländer des Falakron und Pangäon in Nordostgriechenland. Syntaxonomie, Struktur und Dynamik. Arb. Inst. Landscaftsökol. Westf. Wilhelms-Univ. Münster 4: 1-171.
Τσιριπίδης Ι. 2001. Οι φυτοκοινωνίες δασών οξιάς της Ροδόπης και εκτίμηση περιβαλλόντων τους για αναδάσωση. Διδακτορική Διατριβή. ΑΠΘ, σελ. 359 + Παραρτήματα.
Tsiripidis I., Fotiadis G., Karagiannakidou V. & Babalonas D. 2005. Classification problems of forest vegetation in Greece: Transition from beech to deciduous oak zone. Bot. Chron. 18(1): 253-268.
Tsiripidis I., Bergmeier E. & Dimopoulos P. 2007. Geographical and ecological differentiation in Greek Fagus forest vegetation. Journal of Vegetation Science 18: 743-750.
Tsiripidis I., Karagiannakidou V. & Athanasiadis N. 2005. Ecological and phytogeographical differentiation of beech forests in Greek Rodopi (Northeast Greece). Biologia 60: 57-67.
Tsiripidis I., Karagiannakidou V., Alifragis D. & Athanasiadis N. 2007. Classification and gradient analysis of the beech forest vegetation of the southern Rodopi (Northeast Greece). Folia Geobotanica 42: 249–270.
Φωτιάδης Γ. 2004. Καθορισμός των δασικών φυτοκοινωνιολογικών μονάδων του Ελληνικού τμήματος του όρους Μπέλες και της οροσειράς των Κρουσίων. Διδακτορική Διατριβή, ΑΠΘ, σελ. 273 + Παράρτημα.
Φωτιάδης Γ., Παναγιωτίδης Σ. & Γερασιμίδης Α. 2005. Φυτοκοινωνιολογικές μονάδες των δασών οξιάς του τόξου Βέρνο-Άσκιο (ΒΔ Ελλάδα). Πρακτικά 10ου Πανελλήνιου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρίας, Ιωάννινα, 5-8 Μαΐου 2005, σελ. 9 (σε CD).
Χοχλίουρος Π.Σ. 2005. Χλωριδική και Φυτοκοινωνιολογική Έρευνα του Όρους Βερμίου - Οικολογική προσέγγιση. Διδακτορική Διατριβή. Πανεπιστήμιο Πατρών, σελ. 352 + 3 Παραρτήματα.

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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)	3225	
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)	996	
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	stable (0)	
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)
grazing (A04)	low importance (L)	N/A
forest planting on open ground (B01)	low importance (L)	N/A
Forest and Plantation management & use (B02)	low importance (L)	N/A
Forestry activities not referred to above (B07)	low importance (L)	N/A
Biocenotic evolution, succession (K02)	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)
Forest and Plantation management & use (B02)	low importance (L)	N/A
Biocenotic evolution, succession (K02)	low importance (L)	N/A
fire (natural) (L09)	low importance (L)	N/A

2.6.1 Method used – threats	expert opinion (1)

2.7 Complementary Information

2.7.1 Species

Campanula persicifolia
Carpinus betulus
Corylus avellana
Deschampsia flexuosa
Doronicum orientale
Epilobium lanceolatum
Euphorbia amygdaloides
Fagus sylvatica
Fraxinus ornus
Galium rotundifolium
Hieracium bracteolatum
Hieracium murorum
Hieracium olympicum
Hieracium racemosum
Lathyrus alpestris
Lathyrus laxiflorus
Lathyrus niger
Luzula forsteri
Melica uniflora
Melittis melissophyllum
Physospermum cornubiense
Poa nemoralis
Polystichum setiferum
Potentilla micrantha
Primula acaulis
Pteridium aquilinum
Quercus frainetto
Quercus petraea
Rosa arvensis
Rubus canescens
Silene atropurpurea
Silene italica

Silene multicaulis

Silene viridiflora

Sorbus torminalis

Viola alba

Viola odorata

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	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

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3.1.1 Surface area (km²)	min	180,5	max	180,5
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	medium importance (M)	Inside	Maintain Long term