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	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., Γερασιμίδης Α., Ελευθεριάδου Ε., Τσιριπίδης Γ. & Κοράκης Γ. 1998. Μονάδες βλάστησης της ζώνης των αειφύλλων πλατυφύλλων του Αγίου Όρους. Ειδική έκδοση στα πλαίσια του προγράμματος «Έκθεση Αγίου Όρους, Φύση και Περιβάλλον – Θεσσαλονίκη Πολιτιστική Πρωτεύουσα της Ευρώπης 1997», σελ. 87 + Πίνακες.

Barbero M. & Quézel P. 1976. Les groupements forestiers de Grece Centro-Meridionale. Ecologia Mediterranea 2: 1-86.

Bauer E.-M. & Bergmeier E. 2011. The mountain woodlands of western Crete – plant communities, land use and conservation. Phytocoenologia 41(2): 73-105.

Bergmeier E. 1990. Walder und Gebusche des Niederen Olymp (Kato Olimbos, NO-Thessalien). Phytocoenologia 18(2/3): 161-342.

Βλάχος Α. 2006. Χλωρίδα Βλάστηση και Οικολογία του ορεινού συγκροτήματος των Βαρδουσίων. Διδακτορική Διατριβή. Πανεπιστήμιο Πατρών, σελ. 396.

Γεωργιάδης Θ., Δημόπουλος Π., Πανίτσα Μ. & Δημητρέλλος Γ. 1996. Τα φυσικά οικοσυστήματα της Πελοποννήσου με βάση την ποικιλότητα σε τύπους οικοτόπω

ν και τα σημαντικά τους είδη. Πρακτικά 6ου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρίας και της Βιολογικής Εταιρείας Κύπρου, Παραλίμνι Κύπρου, 6-11 Απριλίου 1996: 68-73.

Δαμιανίδης Χ. 2011. Φυτοκοινωνιολογική έρευνα των ερεικώνων και των αειφύλλων πλατύφυλλων της βόρειας πλευράς του Χολομώντα. Μεταπτυχιακή Διατριβή. ΑΠΘ, σελ. 63 + 1 Παράρτημα + 1 Χάρτης + 1 Πίνακας.

Θεοδωρόπουλος Κ. 2001. Ζώνες βλάστησης και τύποι οικοτόπων του νομού Θεσσαλονίκης. Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος ΜΔ: 353-381.

Θεοδωρόπουλος Κ., Ξυστράκης Φ., Ελευθεριάδου Ε. & Σαμαράς Δ. 2011. Ζώνες βλάστησης και τύποι οικοτόπων της περιοχής του Φορέα Διαχείρισης Εθνικού Δρυμού Ολύμπου. Επιστ. Επετ. Σχολής Δασολογίας και Φυσικού Περιβάλλοντος, ΑΠΘ 2002, ΜΕ, σελ. 18 (σε CD).

Καρέτσος Γ. 2002. Μελέτη της Οικολογίας και της Βλάστησης του Όρους Οίτη. Διδακτορική Διατριβή. Πανεπιστήμιο Πατρών, σελ. 325.

Κοκμοτός Ε. 2008. Χλωριδική και φυτοκοινωνιολογική μελέτη των ορεινών όγκων της Βοιωτίας (Ελικώνας-Ξεροβούνι-Νεραϊδολάκκωμα). Διδακτορική Διατριβή. Πανεπιστήμιο Πατρών, σελ. 509 + 3 Παραρτήματα.

Lavrentiades G.J. 1969. Studies on the flora and vegetation of the Ormos Archangelou in Rhodos islands. Vegetatio XIX: 308-329.

Μαρούλης Γ. 2003. Χλωρίδα και βλάστηση των οικοσυστημάτων του όρους Ερύμανθος (ΒΔ Πελοπόννησος). Διδακτορική Διατριβή. Πανεπιστήμιο Πατρών, σελ. 450 + 1 Παράρτημα + 1 Χάρτης.

Papanikolaou G.D. & Sarlis G.P. 1991. Phytosociological studies in the Tatoi district (Attica, Greece). Vegetatio 93: 81-90.

Pavlides G., Vardavakis E. & Lavrentiades G. 1988. Notes on the vegetation and soil profiles near Polygyros (Chalkidiki peninsula, northern Greece). Israel Journal of Botany 37: 19-47.

Πλατής Π., Παπαχρήστου Θ., Μελιάδης Ι. & Μαντζανάς Κ. 2007. Ποικιλότητα τύπων οικοτόπων της περιοχής Ακαρνανικών ορέων του Δικτύου "Φύση 2000". Πρακτικά 13ου Πανελλήνιου Δασολογικού Συνεδρίου της Ελληνικής Δασολογικής Εταιρείας, Χλόη Καστοριάς, 7-10 Οκτωβρίου 2007 (τόμος Ι): 116-124.

Raus Th. 1979. Die vegetation Osthessaliens (Griechenland), II. Quercetea ilicis und Cisto-Micromerietea. Bot. Jahrb. Syst. 101(1): 17-82.

Verroios G. & Georgiadis T. 2011. Aleppo pine forests of northern and western Peloponnisos (southern Greece): Plant communities and diversity. Plant Biosystems 145 (3): 606–619.

Zoller H., Geissler P. & Athanasiadis N. 1977. Beiträge zur Kenntnis der Wälder, Moos- und Flechtenassoziationen in den Gebirgen Nordgriechenlands. Bauhinia 6/1: 215-255.

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)	12211	
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)	1837	
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)
Cultivation (A01)	low importance (L)	N/A
grazing (A04)	low importance (L)	N/A
annual and perennial non-timber crops (A06)	low importance (L)	N/A
Forest and Plantation management & use (B02)	low importance (L)	N/A
forest exploitation without replanting or natural regrowth (B03)	low importance (L)	N/A
grazing in forests/ woodland (B06)	low importance (L)	N/A
Forestry activities not referred to above (B07)	low importance (L)	N/A
Roads, paths and railroads (D01)	low importance (L)	N/A
Utility and service lines (D02)	low importance (L)	N/A
Discharges (E03)	low importance (L)	N/A

Hunting and collection of wild animals (terrestrial) (F03)	low importance (L)	N/A
fire and fire suppression (J01)	low importance (L)	N/A
Other ecosystem modifications (J03)	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)
Cultivation (A01)	low importance (L)	N/A
grazing (A04)	low importance (L)	N/A
Forest and Plantation management & use (B02)	low importance (L)	N/A
forest exploitation without replanting or natural regrowth (B03)	low importance (L)	N/A
Forestry activities not referred to above (B07)	low importance (L)	N/A
Roads, paths and railroads (D01)	low importance (L)	N/A
Utility and service lines (D02)	low importance (L)	N/A
Discharges (E03)	low importance (L)	N/A
invasive non-native species (I01)	low importance (L)	N/A
fire and fire suppression (J01)	low importance (L)	N/A

2.6.1 Method used – threats: expert opinion (1)

2.7 Complementary Information

2.7.1 Species

Arbutus andrachne
Arbutus unedo
Asparagus acutifolius
Asplenium onopteris
Brachypodium retusum
Brachypodium sylvaticum
Carex flacca
Cercis siliquastrum
Cistus creticus
Cotinus coggygria
Erica arborea
Fraxinus ornus
Hypericum empetrifolium
Juniperus oxycedrus
Laurus nobilis
Lonicera implexa
Phillyrea latifolia
Pistacia terebinthus
Quercus coccifera
Quercus ilex

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

Quercus pubescens

Rubia peregrina

Ruscus aculeatus

Smilax aspera

Stipa bromoides

Styrax officinalis

Tamus communis

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	

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	592	max	592
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
Restoring/improving forest habitats (3.1)	One-off	medium importance (M)	Inside	Maintain Long term
Establish protected areas/sites (6.1)	Legal Administrative One-off	medium importance (M)	Inside	Maintain Long term