

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

NATIONAL LEVEL

1. General information

1.1 Member State	GR
1.2 Habitat code	9260 - <i>Castanea sativa</i> woods

2. Maps

2.1 Year or period	2015
2.3 Distribution map	Yes
2.3 Distribution map Method used	Based mainly on extrapolation from a limited amount of data
2.4 Additional maps	Yes

BIOGEOGRAPHICAL LEVEL

3. Biogeographical and marine regions

3.1 Biogeographical or marine region where the habitat occurs	Mediterranean (MED)
3.2 Sources of information	<p>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.</p> <p>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.</p> <p>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.</p> <p>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).</p> <p>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.</p> <p>Barbero M. & Quézel P. 1976. Les groupements forestiers de Grece Centro-Meridionale. <i>Ecologia Mediterranea</i> 2: 1-86. Bergmeier E. 1990. Walder und Gebusche des Niederen Olymp (Kato Olimbos, NO-Thessalien). <i>Phytocoenologia</i> 18(2/3): 161-342.</p> <p>Δημητρέλλος Ν.Γ. 2005. Γεωβοτανική Έρευνα του Όρους Τυμφρηστού (ΒΔ</p>

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

Στερεά Ελλάδα) Χλωρίδα - Βλάστηση - Αξιολόγηση - Διαχείριση. Διδακτορική Διατριβή. Πανεπιστήμιο Πατρών, σελ. 296

Dimopoulos P., Bergmeier E., Theodoropoulos K. & Eleftheriadou E. 2005. Thermophilous deciduous forests in Greece – a preliminary survey. *Bot. Chron.* 18(1): 83-100.

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

Gamisans J. & Hebrard J.-P. 1979. A propos de la vegetation des forets d'Epire et de Macedoine Grecque occidentale. *Documents phytosociologiques* IV: 290-327.

Grandstein S.R. & Smittenberg J.H. 1977. The hydrophilus vegetation of western Crete. *Vegetatio* 34(2): 65-86. 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 Quercus – Fagetea κλάση του ορεινού συγκροτήματος του Χορτιάτη. Διδακτορική Διατριβή. Α.Π.Θ. *Επιστ. Επετ. Σχολής Θετικών Επιστημών* 22(25), σελ. 161.

Konstantinidis P., Tsiourlis G., Xofis P. & Buckley G.P. 2008. Taxonomy and ecology of *Castanea sativa* Mill. *Forests in Greece. Plant Ecol.* 195: 235-256

Κοράκης Γ.Χ. 2003. Οι μονάδες βλάστησης του όρους Πάικου και η αξιολόγησή τους από αναδασωτική σκοπιά. Διδακτορική Διατριβή. ΑΠΘ, σελ. 264 + Παράρτημα.

Κοράκης Γ. & Αθανασιάδης Ν. 2003. Οι φυτοκοινωνίες των δασών της *Castanea sativa* Miller στο όρος Πάικο. Πρακτικά 11ου Πανελληνίου Δασολογικού Συνεδρίου της Ελληνικής Δασολογικής Εταιρείας, Αρχαία Ολυμπία, 30/9-3/10 2003: 615-624.

Κωνσταντινίδης Π. & Τσιουρλής Γ. 2001. Οι βλαστητικές μονάδες (τύποι οικοτόπων) της Επαρχίας Λαγκαδά (Λεκάνη Μυγδονίας): Μέρος Ι: Περιγραφή, ανάλυση και χαρτογράφηση. *Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος ΜΔ*: 627-654.

Κωνσταντινίδης Π. & Τσιουρλής Γ. 2001. Οι τύποι οικοτόπων της Επαρχίας Λαγκαδά (Λεκάνης Μυγδονίας): Μέρος ΙΙ. Οικολογική κατάσταση και δυναμική. *Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος ΜΔ*: 655-680.

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

Μπαζός Ι. & Γιαννίτσaros Α. 2005. Χλωρίδα και βλάστηση της Λέσβου: γενική επισκόπηση. Πρακτικά 10ου Πανελληνίου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρείας, Ιωάννινα, 5-8 Μαΐου 2005, σελ. 8 (σε CD).

Ντάφης Σ. 1966. Σταθμολογικά και δασοαποδοτικά έρευναι εις πρεμνοφυή δρυοδάση και καστανωτά της βορειοανατολικής Χαλκιδικής. *Θεσσαλονίκη*, σελ. 113.

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

	b) Operator	Approximately equal to (\approx)
	c) Unknown	Yes
	d) Method	
5.14 Change and reason for change in surface area of range	No change	
	The change is mainly due to:	

5.15 Additional information

6. Structure and functions

6.1 Condition of habitat	a) Area in good condition (km ²)	Minimum 435,78	Maximum 435,78
	b) Area in not-good condition (km ²)	Minimum 0	Maximum 0
	c) Area where condition is not known (km ²)	Minimum 48,42	Maximum 48,42

6.2 Condition of habitat Method used Complete survey or a statistically robust estimate

6.3 Short-term trend of habitat area in good condition Period 20072018

6.4 Short-term trend of habitat area in good condition Direction Stable (0)

6.5 Short-term trend of habitat area in good condition Method used Complete survey or a statistically robust estimate

6.6 Typical species Has the list of typical species changed in comparison to the previous reporting period? No

6.7 Typical 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-Dukát, 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.

6.8 Additional information Assumption: 90% of habitat area is estimated to be in good condition.

7. Main pressures and threats

7.1 Characterisation of pressures/threats

Pressure	Ranking
Clear-cutting, removal of all trees (B09)	M
Sports, tourism and leisure activities (F07)	M

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

Harvesting or collecting of other wild plants and animals (excluding hunting and leisure fishing) (G09)	H
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	M
Threat	Ranking
Clear-cutting, removal of all trees (B09)	M
Fire (natural) (M09)	M
Logging without replanting or natural regrowth (B05)	M
Other forestry activities, excluding those relating to agro-forestry (B29)	M
Harvesting or collecting of other wild plants and animals (excluding hunting and leisure fishing) (G09)	H
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	H

7.2 Sources of information

PRESSURES: Based mainly on expert judgement and other data.
THREATS: Based on expert opinion.

7.3 Additional information

8. Conservation measures

8.1 Status of measures

a) Are measures needed? **No**

b) Indicate the status of measures

8.2 Main purpose of the measures taken

8.3 Location of the measures taken

8.4 Response to the measures

8.5 List of main conservation measures

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8.6 Additional information

9. Future prospects

9.1 Future prospects of parameters

a) Range **Good**

b) Area **Good**

c) Structure and functions **Good**

9.2 Additional information

10. Conclusions

10.1. Range

Favourable (FV)

10.2. Area

Favourable (FV)

10.3. Specific structure and functions (incl. typical species)

Favourable (FV)

10.4. Future prospects

Favourable (FV)

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

10.5 Overall assessment of Conservation Status	Favourable (FV)
10.6 Overall trend in Conservation Status	Stable (=)
10.7 Change and reasons for change in conservation status and conservation status trend	a) Overall assessment of conservation status No change The change is mainly due to: b) Overall trend in conservation status No change The change is mainly due to:

10.8 Additional information

11. Natura 2000 (pSCIs, SCIs, SACs) coverage for Annex I habitat types

11.1 Surface area of the habitat type inside the pSCIs, SCIs and SACs network (in km ² in biogeographical/marine region)	a) Minimum b) Maximum c) Best single value 198,11
11.2 Type of estimate	Minimum
11.3 Surface area of the habitat type inside the network Method used	Complete survey or a statistically robust estimate
11.4 Short-term trend of habitat area in good condition within the network Direction	Stable (0)
11.5 Short-term trend of habitat area in good condition within network Method used	Complete survey or a statistically robust estimate
11.6 Additional information	The change in 11.1 (in comparison to the previous report) is due to the updated mapping datasets on terrestrial habitat types within the Natura 2000 network (pSCIs, SCIs and SACs), based on the most recent national project (results became available in 2018). As this project did not include the extended areas of the Natura 2000 sites, nor the newly proposed SCIs, the surface area reported is the minimum.

12. Complementary information

12.1 Justification of % thresholds for trends
12.2 Other relevant information