

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	91E0 - Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> (Alno-Padio)

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>Αθανασιάδης Ν.Η., Θεοδωρόπουλος Κ.Γ. & Ελευθεριάδου Ε.Ν. 1992. <i>Alnetum incanae</i> Aich et Siegr. 30 (<i>Alnetum incanae tyricum</i> WE.-Z. 52) στο δυτικό Ελληνικό τμήμα της οροσειράς της Ροδόπης. Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος ΛΕ(1): 151-178.</p> <p>Αθανασιάδης Ν., Θεοδωρόπουλος Κ., Ελευθεριάδου Ε. & Δρόσος Ε. 1996. Δασικές φυτοκοινωνίες του δέλτα του Θεσσαλικού Πηνειού. Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος 39(2): 879-902.</p> <p>Βραχνάκης Μ., Φωτιάδης Γ. & Καζόγλου Ι. 2011. Τύποι Οικοτόπων Εθνικού Πάρκου Πρεσπών – Αναγνώριση-Καταγραφή 2011. Εταιρία Προστασίας Πρεσπών, σελ. 101. Ελευθεριάδου Ε., Τσιριπίδης Ι., Θεοδωρόπουλος Κ. & Ξυστράκης Φ. 2007. Τύποι οικοτόπων της περιοχής "Ροδόπη (Σημάδα)" του Δικτύου "Φύση 2000". Πρακτικά 13ου Πανελληνίου Δασολογικού Συνεδρίου της</p>

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Ελληνικής Δασολογικής Εταιρείας, Χλόη Καστοριάς, 7-10 Οκτωβρίου 2007 (τόμος Ι): 91-99. Fotiadis G., Panajiotidis S. & Gerasimidis A. 2005. Phytosociological approach on the forest vegetation of Mt Verno (W Macedonia, Greece). Bot. Chron. 18(1): 101-116.

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

Petermann J. 1999. Winterkahle Eichenwalder im Westen der griechischen Rhodopen. Vegetation, Struktur und Dynamik. Münster, pg. 152.

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

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

4. Range

4.1 Surface area	694
4.2 Short-term trend Period	2007-2018
4.3 Short-term trend Direction	Stable (0)
4.4 Short-term trend Magnitude	a) Minimum b) Maximum
4.5 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data
4.6 Long-term trend Period	
4.7 Long-term trend Direction	
4.8 Long-term trend Magnitude	a) Minimum b) Maximum
4.9 Long-term trend Method used	Based mainly on extrapolation from a limited amount of data
4.10 Favourable reference range	a) Area (km ²) b) Operator Approximately equal to (≈) c) Unknown Yes d) Method
4.11 Change and reason for change in surface area of range	No change The change is mainly due to:

4.12 Additional information

5. Area covered by habitat

5.1 Year or period	2015-015-
5.2 Surface area (in km ²)	a) Minimum b) Maximum c) Best single value 84,9
5.3 Type of estimate	Best estimate
5.4 Surface area Method used	Based mainly on extrapolation from a limited amount of data
5.5 Short-term trend Period	2007-2018
5.6 Short-term trend Direction	Stable (0)
5.7 Short-term trend Magnitude	a) Minimum b) Maximum c) Confidence interval
5.8 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data
5.9 Long-term trend Period	

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5.10 Long-term trend Direction			
5.11 Long-term trend Magnitude	a) Minimum	b) Maximum	c) Confidence interval
5.12 Long-term trend Method used			
5.13 Favourable reference area	a) Area (km ²)	Approximately equal to (≈)	
	b) Operator	Yes	
	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 76,41	Maximum 76,41
	b) Area in not-good condition (km ²)	Minimum 0	Maximum 0
	c) Area where condition is not known (km ²)	Minimum 8,49	Maximum 8,49
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	<p>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. <i>Journal of Vegetation Science</i> 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. <i>Journal of Vegetation Science</i> 20: 233-240.</p>		
6.8 Additional information	Assumption: 90% of habitat area is estimated to be in good condition.		

7. Main pressures and threats

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7.1 Characterisation of pressures/threats

Pressure	Ranking
Conversion into agricultural land (excluding drainage and burning) (A01)	H
Intensive grazing or overgrazing by livestock (A09)	M
Clear-cutting, removal of all trees (B09)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Discharge of urban waste water (excluding storm overflows and/or urban run-offs) generating pollution to surface or ground water (F12)	M
Mixed source soil pollution and solid waste (excluding discharges) (J04)	M
Abstraction from groundwater, surface water or mixed water (K01)	H
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	H
Irrigation of agricultural land (A18)	M
Threat	Ranking
Conversion into agricultural land (excluding drainage and burning) (A01)	H
Intensive grazing or overgrazing by livestock (A09)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Abstraction from groundwater, surface water or mixed water (K01)	M
Irrigation of agricultural land (A18)	M
Clear-cutting, removal of all trees (B09)	M
Mixed source soil pollution and solid waste (excluding discharges) (J04)	M
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? Yes
- b) Indicate the status of measures Measures identified, but none yet taken

8.2 Main purpose of the measures taken

8.3 Location of the measures taken

8.4 Response to the measures

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8.5 List of main conservation measures

Prevent conversion of natural and semi-natural habitats, and habitats of species into agricultural land (CA01)

Manage drainage and irrigation operations and infrastructures in agriculture (CA15)

Restoration of Annex I forest habitats (CB08)

Adapt mowing, grazing and other equivalent agricultural activities (CA05)

Adapt/change forest management and exploitation practices (CB05)

Reduce impact of transport operation and infrastructure (CE01)

Habitat restoration of areas impacted by transport (CE06)

Reduce/eliminate point source pollution to surface or ground waters from industrial, commercial, residential and recreational areas and activities (CF04)

Reduce impact of mixed source pollution (CJ01)

Reduce impact of multi-purpose hydrological changes (CJ02)

8.6 Additional information

9. Future prospects

9.1 Future prospects of parameters

a) Range	Good
b) Area	Good
c) Structure and functions	Poor

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

Unfavourable - Inadequate (U1)

10.5 Overall assessment of Conservation Status

Unfavourable - Inadequate (U1)

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

Improved knowledge/more accurate data
Use of different method

The change is mainly due to: Improved knowledge/more accurate data

b) Overall trend in conservation status

Improved knowledge/more accurate data
Use of different method

The change is mainly due to: Use of different method

10.8 Additional information

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

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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 8,71
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