

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

CODE: 5330

NAME: Thermo-Mediterranean and pre-desert scrub

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

2.2 Published

Mediterranean (MED)

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.

Βαλλιανάτου Ε. 2005. Γεωβοτανική Έρευνα της Σαλαμίνας, Αίγινας και μερικών άλλων Νησιών του Σαρωνικού Κόλπου. Διδακτορική Διατριβή. Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών, σελ. 558.

Barbero M. & Quézel P. 1989. Contribution a l'etude phytosociologique des matorrals de Mediterranee orientale. *Lazaroa* 11: 37-111.

Δημόπουλος Δ. Π. 1993. Χλωριδική και Φυτοκοινωνιολογική έρευνα του όρους Κυλλήνη - Οικολογική Προσέγγιση -. Διδακτορική Διατριβή. Πανεπιστήμιο Πατρών, σελ. 370.

Gehu J.M., Apostolides N., Gehu-Franck J. & Arnold K. 1989. Premieres donees sur la vegetation littorale des iles de Rhodos et de Karpathos (Grece). *Colloques phytosociologiques XIX*: 545-582

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

Μαρούλης Γ. 2003. Χλωρίδα και βλάστηση των οικοσυστημάτων του όρους Ερύμ

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

ανθος (ΒΔ Πελοπόννησος). Διδακτορική Διατριβή. Πανεπιστήμιο Πατρών, σελ. 450 + 1 Παράρτημα + 1 Χάρτης.

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

Στάμου Α. 2004. Φυτοκοινωνίες του Τελέθριου-Λιχάδας-Γιάλτρας, Εύβοιας. Μετ απτυχιακή Διατριβή. Τμήμα Δασοπονίας & Δυσικού Περιβάλλοντος, ΑΠΘ.

Theocharopoulos M., Dimitrellos G., Assimakopoulos I. & Georgiadis Th. 1998. Recherche phytosociologique des communautés a Juniperus phoenicea et Euphorbia dendroides en Grece: zone littorale et sub-littorale au nord du golfe de Corinthe (Sterea Hellas-Grece Centrale) Colloques Phytosociologiques XXVIII: 1197-1213.

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

2.3.1 Surface area - Range (km ²)	3206
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	increase (+)
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 (km ²) operator approximately equal to (≈) unknown 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 (km ²)	301,04
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	increase (+)
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

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

Pressure	ranking	pollution qualifier(s)
grazing (A04)	low importance (L)	N/A
Roads, paths and railroads (D01)	low importance (L)	N/A
Urbanised areas, human habitation (E01)	low importance (L)	N/A
Hunting and collection of wild animals (terrestrial) (F03)	low importance (L)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	low importance (L)	N/A
invasive non-native species (I01)	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)
grazing (A04)	low importance (L)	N/A
Roads, paths and railroads (D01)	low importance (L)	N/A
Urbanised areas, human habitation (E01)	low importance (L)	N/A
Structures, buildings in the landscape (E04)	low importance (L)	N/A
Hunting and collection of wild animals (terrestrial) (F03)	low importance (L)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	low importance (L)	N/A
invasive non-native species (I01)	low importance (L)	N/A

2.6.1 Method used – threats expert opinion (1)

2.7 Complementary Information

2.7.1 Species

Allium gomphrenoides

Anagallis arvensis

Arisarum vulgare

Asphodelus ramosus

Avena barbata

Brachypodium distachyon

Brachypodium retusum

Calicotome villosa

Cistus creticus

Thymbra capitata (syn: Coridothymus capitatus)

Dactylis glomerata

Daphne gnidioides

Euphorbia acanthothamnos

Euphorbia dendroides

Galium capitatum

Genista acanthoclada

Genista fasselata

Helichrysum stoechas subsp. barrelieri (syn: Helichrysum conglobatum)

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

Helichrysum orientale

Hypochaeris achyrophorus

Lagoecia cuminoides

Leontodon tuberosus

Linum strictum

Lotus ornithopodioides

Medicago coronata

Ononis reclinata

Origanum onites

Phagnalon rupestre subsp. *graecum* (syn: *Phagnalon graecum*)

Phlomis fruticosa

Piptatherum coerulescens

Pistacia lentiscus

Prasium majus

Sarcopoterium spinosum

Trifolium campestre

Trifolium scabrum

Drimia maritima (syn: *Urginea maritima*)

Urospermum picroides

Valantia hispida

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).ReferencesChytrý, M., Tichý, L., Holt, J. & Botta-Dukat, 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

2.7.5 Other relevant information

Complete survey/Complete survey or a statistically robust estimate (3)

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

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

3.1.1 Surface area (km ²)	min 63	max 63
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