

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

CODE: 8140

NAME: Eastern Mediterranean screens

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.

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

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

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

Δημητρέλλος Ν.Γ. 2005. Γεωβοτανική Έρευνα του Όρους Τυμφρηστού (ΒΔ Στερεά Ελλάδα) Χλωρίδα - Βλάστηση - Αξιολόγηση - Διαχείριση. Διδακτορική Διατριβή. Πανεπιστήμιο Πατρών, σελ. 296

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

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

Πατρών, σελ. 370.

Dimopoulos P., Sýkora K.V., Mucina L. & Georgiadis T. 1997. The high-rank syntaxa of the rock-cliff and scree vegetation of the mainland Greece and Crete. *Folia Geobotanica* 32 (3): 313-334.

Georgiadis Th. & Dimopoulos P. 1993. Etude de la vegetation supraforestiere du Mont Kyllini (Peloponnese-Grece). *Bot. Helv.* 103: 149-175.

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).*

Κοράκης Γ. & Αραβίδης Η. 2004. Καταγραφή, ταξινόμηση και αξιολόγηση των φυσικών ενδιαιτημάτων του Λακωνικού Ταυγέτου σύμφωνα με την οδηγία 92/43/ΕΟΚ. Πρακτικά 1ου Πανελληνίου Περιβαλλοντικού Συνεδρίου, Νέα Ορεστιάδα, 7-9 Μαΐου 2004: 891-900.

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

Marulis G. & Georgiadis T. 2005. The vegetation of supra-forest meadows and rock crevices of Mount Erimanthos (NW Peloponnisis, Greece). *Fitosociologia* 42(1): 33-56.

Πυρινή ΧΒ. Χ. 2011. Το οικοσύστημα των λιμνών Βεγορίτιδας και Πετρών: χλωρίδα, βλάστηση και φυτογεωγραφία. Διδακτορική Διατριβή. ΑΠΘ, σελ. 332 + Παράρτημα.

Quézel P. 1967a. La vegetation des hauts sommets du Pinde et de l'Olympe de Thessale. *Vegetatio* XIV (1/4): 127-229.

Quézel P. 1964. Vegetation des hautes montanges de la Grece meridionale. *Vegetatio* XII (5/6): 289-385 + 33 Tables.

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

| | |
|---|---|
| 2.3.1 Surface area - Range (km ²) | 126,13 |
| 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 (km ²) 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 (km ²) | 126,13 |
| 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 |

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

| | | |
|------------------------------------|---|----------------------------|
| 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 |
| Roads, paths and railroads (D01) | 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) |
|--|--------------------|------------------------|
| grazing (A04) | low importance (L) | N/A |
| Roads, paths and railroads (D01) | low importance (L) | N/A |
| Biocenotic evolution, succession (K02) | low importance (L) | N/A |

2.6.1 Method used – threats expert opinion (1)

2.7 Complementary Information

2.7.1 Species

Achillea abrotanoides

Aethionema saxatile

Arenaria conferta

Asperula muscosa

Campanula hawkinsiana

Cardamine carnosa

Cardamine glauca

Carum heldreichii

Centranthus longiflorus ssp. Junceus

Daphne oleoides

Drypis spinosa

Euphorbia herniariifolia

Festuca species

Galium incanum

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

Geranium aristatum

Lactuca intricata

Malcolmia graeca

Minuartia juniperina

Poa thessala

Poa cenisia

Polystichum lonchitis

Ptilostemon afer

Ranunculus brevifolius

Rumex scutatus

Scrophularia myriophylla

Senecio fruticosus

Senecio thapsoides

Sesleria vaginalis

Silene caesia

Silene fabarioides

Silene haussknechtii

Thamnosciadium junceum

Valantia aprica

Viola albanica

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-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

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 116,8 max 116,8 |
| 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 | high importance (H) | Inside | Maintain Long term |