

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

CODE: 6430

NAME: Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels

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.

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

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

Κοράκης Γ. & Γερασιμίδης Α. 2006. Καταγραφή, ταξινόμηση και χλωριδική σύνθεση των υγροτοπικών ενδιαιτημάτων των ψευδαλπικών λιβαδιών του όρους Γράμμος. Πρακτικά 4ου Πανελληνίου Λιβαδοπονικού Συνεδρίου της Ελληνικής Λιβαδοπονικής Εταιρείας, Βόλος, 10-12 Νοεμβρίου 2004: 199-205.

Παναγιωτίδης Σ., Ιώβη Α., Φωτιάδης Γ. & Γερασιμίδης Α. 2008. Βλάστηση των ψε

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υδαλικών λιβαδιών των Πιερίων ορέων και απεικόνισή της στα ετήσια κατακρημνίσματα γύρης. Πρακτικά 6ου Πανελληνίου Λιβαδοπονικού Συνεδρίου «Λιβαδοπονία και Προστατευόμενες Περιοχές» (Μαντζανάς Κ. & Παπαναστάσης Π.Β. Εκδ.), 2-4 Οκτωβρίου 2008, Λεωνίδιο Αρκαδίας: 51-56.

Quézel P. 1969. La végétation du massif du Bela-Voda (Macédoine nord-occidentale). Biol. Gallo-Hellen. 2(2): 93-112.

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

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

Φωτιάδης Γ., Ιώβη Κ., Αθανασιάδης Ν. & Παπαναστάσης Β. 2006. Συμβολή στη φυτοκοινωνιολογική γνώση των ψευδαλπικών λιβαδιών: οι περιπτώσεις των Πιερίων ορέων και του όρους Μπέλες. Πρακτικά 4ου Πανελληνίου Λιβαδοπονικού Συνεδρίου της Ελληνικής Λιβαδοπονικής Εταιρείας, Βόλος, 10-12 Νοεμβρίου 2004: 245-252.

Χοχλίουρος Π.Σ. 2005. Χλωριδική και Φυτοκοινωνιολογική Έρευνα του Όρους Βερμίου - Οικολογική προσέγγιση. Διδακτορική Διατριβή. Πανεπιστήμιο Πατρών. 352 σελ. + 3 Παραρτήματα.

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

2.3.1 Surface area - Range (km ²)	1594
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 (≈) 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)	8,32
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

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2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
Cultivation (A01)	low importance (L)	N/A
use of biocides, hormones and chemicals (A07)	low importance (L)	N/A
human induced changes in hydraulic conditions (J02)	medium importance (M)	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)
human induced changes in hydraulic conditions (J02)	low importance (L)	N/A

2.6.1 Method used – threats expert opinion (1)

2.7 Complementary Information

2.7.1 Species

Cirsium vulgare

Danthonia decumbens

Deschampsia caespitosa

Epilobium angustifolium

Epilobium palustre

Eriophorum latifolium

Filipendula ulmaria

Galega officinalis

Galium palustre

Geum coccineum

Juncus effusus

Juncus thomasi

Lysimachia punctata

Mentha aquatica

Persicaria bistorta

Poa palustris

Ranunculus acris

Ranunculus repens

Rumex arifolius

Scirpus sylvaticus

Scutellaria galericulata

Viscaria asterias (syn: Silene asterias)

Trifolium resupinatum

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Trifolium spadiceum

Veratrum album

Agrostis canina

Agrostis capillaris

Alchemilla acutiloba

Alchemilla indivisa

Alchemilla monticola

Alchemilla species

Bellis perennis

Caltha palustris

Carex canescens

Carex castroviejoi (syn: Carex lepidocarpa)

Carex leporina (syn: Carex ovalis)

Carex rostrata

Cirsium appendiculatum

Cirsium arvense

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-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.

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

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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 1,7	max 1,7
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