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

CODE: 7140

NAME: Transition mires and quaking bogs

1. National Level

1.1 Maps

1.1.1 Distribution Map	Yes
1.1.2 Distribution Method	Complete survey/Complete survey or a statistically robust estimate (3)
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

Mediterranean (MED)

2.2 Published

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.

Αθανασιάδης Ν. 1977. Sphagnum contortum Schultz, Sph. subsecundum Nees, Sph. palustre L. και Sph. squarrosum Pers. (Cr.) τέσσερα νέα είδη της Ελληνικής χλωρίδας. Επιστ. Επετ. Γεωπονικής και Δασολογικής Σχολής, ΑΠΘ, τόμος 20: 263-282.

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Αθανασιάδης Ν., Γερασιμίδης Α. 1986. Μεταπαγετώδης εξέλιξη της βλάστησης στο Βόρα Αλμωπίας. Επιστ. Επετ. Τμήματος Δασολογίας και Φυσικού Περιβάλλοντος, ΑΠΘ, τόμος ΚΘ/4: 211-249.

Αθανασιάδης Ν., Γερασιμίδης Α., Ελευθεριάδου Ε., Θεοδωρόπουλος Κ. 1991: Μεταπαγετώδης εξέλιξη της βλάστησης στη Ροδόπη (Ελατιά Δράμας). Επιστ. Επετ. Τμήματος Δασολογίας και Φυσικού Περιβάλλοντος, ΑΠΘ, τόμος ΛΔ/1: 209-245.

Athanasiadis N., Gerasimidis A., Eleftheriadou E., Theodoropoulos K. 1993: Zur postglazialen Vegetationsentwicklung des Rhodopi - Gebirges (Elatia Dramas-

Griechenland). Dissertationes Botanicae 196: 427-437. Berlin - Stuttgart.
Ελευθεριάδου Ε.Ν., Θεοδωρόπουλος Κ.Γ., Αθανασιάδης Ν.Ηρ. 1994: Νέοι σταθμοί ανεύρεσης και γεωγραφική εξάπλωση σπάνιων ειδών της ελληνικής χλωρίδας . - Πρακτικά του 5ου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρείας, Δελφοί, 21-23 Οκτωβρίου 1994: 225-230.
Θεοδωρόπουλος Κ., Ελευθεριάδου Ε. 2009. Drosera rotundifolia L. - Κινδυνεύον (EN). Σελ. 379-381, στο: Φοίτος Δ., Κωνσταντινίδης Θ. & Καμάρη Γ. (eds.). 2009. Βιβλίο Ερυθρών Δεδομένων των Σπάνιων και Απειλούμενων Φυτών της Ελλάδας, τόμος 1(A-D). Ελληνική Βοτανική Εταιρεία, Πάτρα.
Θεοδωρόπουλος Κ., Ελευθεριάδου Ε., Αθανασιάδης† Ν. 2010. Ο τύπος οικοτόπου προτεραιότητας «Όξινοι τυρφώνες με Sphagnum (7130)» στο Εθνικό Πάρκο Οροσειράς Ροδόπης. - Πρακτικά 7ου Πανελλήνιου Λιβαδοπονικού Συνεδρίου, Ξάνθη, 14-16 Οκτωβρίου 2010: 77-83.
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Papazisimou S., Bouzinos A., Christanis K., Tzedakis P.C. and Kalaitzidis S. 2002. The upland Holocene transitional mires of Elatia forest, Northern Greece. Wetlands 22: 355-365.
Theodoropoulos K., Eleftheriadou E. 2012. Drosera rotundifolia L. (Droseraceae). A rare and endangered species for the flora of Greece. Journal of Environmental Protection and Ecology 13 (3): 1405-1411.

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

2.3.1 Surface area - Range (km²)	0,8	
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 (km²)	
	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 (km²)	0,8	
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

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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)
Roads, paths and railroads (D01)	high importance (H)	N/A
human induced changes in hydraulic conditions (J02)	high importance (H)	N/A
grazing (A04)	medium importance (M)	N/A
annual and perennial non-timber crops (A06)	medium importance (M)	N/A
Forestry activities not referred to above (B07)	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)
Roads, paths and railroads (D01)	high importance (H)	N/A
human induced changes in hydraulic conditions (J02)	high importance (H)	N/A
grazing (A04)	low importance (L)	N/A
annual and perennial non-timber crops (A06)	low importance (L)	N/A
Forestry activities not referred to above (B07)	low importance (L)	N/A

2.6.1 Method used – threats: expert opinion (1)

2.7 Complementary Information

2.7.1 Species
Carex echinata
Carex flava
Carex limosa
Carex nigra
Carex leporina (syn: Carex ovalis)
Carex rostrata
Deschampsia cespitosa
Drosera anglica
Drosera rotundifolia
Eleocharis quinqueflora
Epilobium palustre

Equisetum palustre
Eriophorum angustifolium
Eriophorum latifolium
Eriophorum vaginatum
Filipendula ulmaria
Galium palustre
Geum coccineum
Juncus articulatus
Juncus effusus
Molinia caerulea
Myosotis nemorosa
Parnassia palustris
Potentilla erecta
Scirpus sylvaticus
Sphagnum contortum
Sphagnum spp.
Sphagnum subsecundum

2.7.2 Species method used	Analysis of phytosociological relevés
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
2.8.3 Specific structures and functions (incl Species)	assessment	Inadequate (U1)
	qualifiers	stable (=)
2.8.4 Future prospects	assessment	Inadequate (U1)
	qualifiers	stable (=)
2.8.5 Overall assessment of Conservation Status	Inadequate (U1)	
2.8.5 Overall trend in Conservation Status	stable (=)	

3. Natura 2000 coverage _conservation measures - Annex I habitat types on biogeographical level

3.1 Area covered by habitat

3.1.1 Surface area (km²)	min	0,8	max	0,8

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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	Enhance Long term