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

CODE: 7210

NAME: Calcareous fens with Cladium mariscus and species of the Caricion davallianae

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.

Dimopoulos P., Sýkora K.V., Gilissen C., Wiecherink D. & Georgiadis T. 2005. Vegetation ecology of Kalodiki fen (NW Greece). Biologia/Bratislava 60 (1): 69-82.

Grandstein S.R. & Smittenberg J.H. 1977. The hydrophilus vegetation of western Crete. Vegetatio 34(2): 65-86.

Grigoriadis N., Donth S., Theodoropoulos K., Eleftheriadou E. 2005. Establishment of a habitat monitoring system in Agra wetland (Pella, Greece). Annali di Botanica (nuova serie) 5: 21-36.

Θεοχαρόπουλος Μ., Δημητρέλλος Γ., Χοχλιούρος Σ. & Γεωργιάδης Θ. 2000. Γεωγραφική εξάπλωση και συνοικολογία του Cladium mariscus L. στην Ελλάδα. Πρακτικά 8ου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρίας, Πάτρα, 5-8 Οκτωβρίου 2000: 161-167.

Φωτιάδης Γ., Καζόγλου Ι. & Μπούσμπουρας Δ. 2008. Τύποι βλάστησης της λίμνης Χειμαδίτιδας πριν από την τεχνητή άνοδο της στάθμης της. Πρακτικά 6ου Πανελλήνιου Λιβαδοπονικού Συνεδρίου, Λεωνίδιο Αρκαδίας, 2-4 Οκτωβρίου 2008: 101-106.

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

Theocharopoulos M. Georgiadis T. Dimitrellos G. Chochliouros S. & Tiniakou A. 2006. Vegetation types with Cladium mariscus (Cyperaceae) in Greece. Willdenowia 36: 247-256.

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

2.3.1 Surface area - Range (km²)	574	
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)	0,07	
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	

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
Cultivation (A01)	low importance (L)	N/A
mowing / cutting of grassland (A03)	low importance (L)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	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)
Cultivation (A01)	low importance (L)	N/A
mowing / cutting of grassland (A03)	low importance (L)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	low importance (L)	N/A

2.6.1 Method used – threats	expert opinion (1)

2.7 Complementary Information

2.7.1 Species

Agrostis stolonifera
Calystegia sepium
Carex acuta
Carex distans
Carex riparia
Cirsium creticum
Cirsium vulgare
Cladium mariscus
Cyperus longus
Dittrichia viscosa
Dorycnium rectum
Eupatorium cannabinum
Galium debile
Juncus maritimus
Lythrum junceum
Mentha aquatica
Orchis laxiflora
Phragmites australis
Rumex conglomeratus
Tripidium ravennae (syn: Saccharum ravennae)
Schoenoplectus lacustris
Schoenus nigricans
Typha angustifolia
Utricularia australis

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	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	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 (km²)	min	0,07	max	0,07
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
Legal protection of habitats and species (6.3)	Legal	high importance (H)	Both	Maintain Long term