

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

## NATIONAL LEVEL

### 1. General information

1.1 Member State	GR
1.2 Habitat code	7210 - Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion dav</i>

### 2. Maps

2.1 Year or period	2015
2.3 Distribution map	Yes
2.3 Distribution map Method used	Complete survey or a statistically robust estimate
2.4 Additional maps	Yes

## BIOGEOGRAPHICAL LEVEL

### 3. Biogeographical and marine regions

3.1 Biogeographical or marine region where the habitat occurs	<b>Mediterranean (MED)</b>
3.2 Sources of information	<p>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.</p> <p>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.</p> <p>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.</p> <p>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).</p> <p>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.</p> <p>Dimopoulos P., Sýkora K.V., Gilissen C., Wiecherink D. &amp; Georgiadis T. 2005. Vegetation ecology of Kalodiki fen (NW Greece). <i>Biologia/Bratislava</i> 60 (1): 69-82.</p> <p>Grandstein S.R. &amp; Smittenberg J.H. 1977. The hydrophilus vegetation of western Crete. <i>Vegetatio</i> 34(2): 65-86.</p> <p>Grigoriadis N., Donth S., Theodoropoulos K., Eleftheriadou E. 2005. Establishment of a habitat monitoring system in Agra wetland (Pella, Greece). <i>Annali di Botanica (nuova serie)</i> 5: 21-36.</p> <p>Θεοχαρόπουλος Μ., Δημητράλλος Γ., Χοχλιούρος Σ. &amp; Γεωργιάδης Θ. 2000. Γεωγραφική εξάπλωση και συνοικολογία του <i>Cladium mariscus</i> L. στην Ελλάδα. Πρακτικά 8ου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρίας, Πάτρα, 5-8 Οκτωβρίου 2000: 161-167.</p>



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## 5.14 Change and reason for change in surface area of range

No change  
The change is mainly due to:

## 5.15 Additional information

The surface area of the habitat (5.2) is equal to the area of the habitat within the Natura 2000 network (pSCIs, SCIs and SACs) (11.1), as reported for the previous reporting period (2007-2013).

## 6. Structure and functions

### 6.1 Condition of habitat

a) Area in good condition (km <sup>2</sup> )	Minimum 2,19	Maximum 2,19
b) Area in not-good condition (km <sup>2</sup> )	Minimum 0	Maximum 0
c) Area where condition is not known (km <sup>2</sup> )	Minimum 0,24	Maximum 0,24

### 6.2 Condition of habitat Method used

Complete survey or a statistically robust estimate

### 6.3 Short-term trend of habitat area in good condition Period

20072018

### 6.4 Short-term trend of habitat area in good condition Direction

Stable (0)

### 6.5 Short-term trend of habitat area in good condition Method used

Complete survey or a statistically robust estimate

### 6.6 Typical species

Has the list of typical species changed in comparison to the previous reporting period? No

### 6.7 Typical 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.

### 6.8 Additional information

Assumption: 90% of habitat area is estimated to be in good condition.

## 7. Main pressures and threats

### 7.1 Characterisation of pressures/threats

Pressure	Ranking
Extensive grazing or undergrazing by livestock (A10)	H
Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	H

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Intensive grazing or overgrazing by livestock (A09)	H
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Other invasive alien species (other than species of Union concern) (I02)	M
Abstraction from groundwater, surface water or mixed water (K01)	M
<b>Threat</b>	<b>Ranking</b>
Extensive grazing or undergrazing by livestock (A10)	H
Intensive grazing or overgrazing by livestock (A09)	H
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Other invasive alien species (other than species of Union concern) (I02)	M
Abstraction from groundwater, surface water or mixed water (K01)	M

## 7.2 Sources of information

PRESSURES: Based mainly on expert judgement and other data.  
THREATS: Based on expert opinion.

## 7.3 Additional information

# 8. Conservation measures

## 8.1 Status of measures

- a) Are measures needed? **Yes**
- b) Indicate the status of measures **Measures identified, but none yet taken**

## 8.2 Main purpose of the measures taken

## 8.3 Location of the measures taken

## 8.4 Response to the measures

## 8.5 List of main conservation measures

Adapt mowing, grazing and other equivalent agricultural activities (CA05)

Maintain existing extensive agricultural practices and agricultural landscape features (CA03)

Reinstate appropriate agricultural practices to address abandonment, including mowing, grazing, burning or equivalent measures (CA04)

Reduce impact of transport operation and infrastructure (CE01)

Habitat restoration of areas impacted by transport (CE06)

Management, control or eradication of other invasive alien species (CI03)

Reduce impact of multi-purpose hydrological changes (CJ02)

## 8.6 Additional information

# 9. Future prospects

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9.1 Future prospects of parameters	a) Range	Good
	b) Area	Good
	c) Structure and functions	Poor

## 9.2 Additional information

## 10. Conclusions

10.1. Range	Favourable (FV)
10.2. Area	Favourable (FV)
10.3. Specific structure and functions (incl. typical species)	Favourable (FV)
10.4. Future prospects	Unfavourable - Inadequate (U1)
10.5 Overall assessment of Conservation Status	Unfavourable - Inadequate (U1)
10.6 Overall trend in Conservation Status	Stable (=)
10.7 Change and reasons for change in conservation status and conservation status trend	<p>a) Overall assessment of conservation status</p> <p>Improved knowledge/more accurate data Use of different method</p> <p>The change is mainly due to: Improved knowledge/more accurate data</p> <p>b) Overall trend in conservation status</p> <p>Improved knowledge/more accurate data Use of different method</p> <p>The change is mainly due to: Use of different method</p>
10.8 Additional information	

## 11. Natura 2000 (pSCIs, SCIs, SACs) coverage for Annex I habitat types

11.1 Surface area of the habitat type inside the pSCIs, SCIs and SACs network (in km <sup>2</sup> in biogeographical/marine region)	<p>a) Minimum</p> <p>b) Maximum</p> <p>c) Best single value 2,43</p>
11.2 Type of estimate	Minimum
11.3 Surface area of the habitat type inside the network Method used	Complete survey or a statistically robust estimate
11.4 Short-term trend of habitat area in good condition within the network Direction	Stable (0)
11.5 Short-term trend of habitat area in good condition within network Method used	Complete survey or a statistically robust estimate
11.6 Additional information	The change in 11.1 (in comparison to the previous report) is due to the updated mapping datasets on terrestrial habitat types within the Natura 2000 network (pSCIs, SCIs and SACs), based on the most recent national project (results became available in 2018). As this project did not include the extended areas of the Natura 2000 sites, nor the newly proposed SCIs, the surface area reported is the minimum.

## 12. Complementary information

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12.1 Justification of % thresholds for trends

12.2 Other relevant information