

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

CODE: 7230

NAME: Alkaline fens

## 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.

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.

Sarika-Hatzinikolaou, M., Yannitsaros, A. & Babalonas D. 2003. The macrophytic vegetation of seven aquatic ecosystems of Epirus (NW Greece). *Phytocoenologia* 33(1): 93-151.

Σαρίκα-Χατζηνικολάου Μ. 1999. Χλωριδική και φυτοκοινωνιολογική έρευνα υδάτινων οικοσυστημάτων της Ηπείρου. Διδακτορική Διατριβή. Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών, σελ. 495 + 1 Πίνακας.

Σαρίκα-Χατζηνικολάου Μ., Μπαμπαλώνας Δ. & Γιαννίτσαρος Α. 1998. Φυτοκοινωνιολογική μελέτη της ελοφυτικής βλάστησης υδάτινων οικοσυστημάτων της Ηπείρου. Πρακτικά 7ου Πανελληνίου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρείας, Αλεξανδρούπολη, 1-4 Οκτωβρίου 1998: 134-141.

Theocharopoulos M. Georgiadis T. Dimitrellos G. Chochliouros S. & Tiniakou A.

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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 (km <sup>2</sup> ) | 203  |
| 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 <sup>2</sup> )<br>operator approximately equal to (≈)<br>unknown No<br>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 <sup>2</sup> ) | 1,52  |
| 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)<br>operator approximately equal to (≈)<br>unknown No<br>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) |
|---|-----------------------|------------------------|
| Irrigation (A09)                                    | 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

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| Threat                                 | ranking            | pollution qualifier(s) |
|--|--------------------|------------------------|
| abiotic (slow) natural processes (K01) | low importance (L) | N/A                    |

2.6.1 Method used – threats expert opinion (1)

## 2.7 Complementary Information

### 2.7.1 Species

Phragmites australis

Pinguicula balcanica

Potentilla erecta

Rumex sanguineus

Solanum dulcamara

Sparganium species

Blasmus compressus

Carex echinata

Carex elata

Carex flava

Carex hispida

Carex nigra

Carex paniculata

Carex pendula

Carex pseudocyperus

Carex riparia

Cirsium creticum

Cladium mariscus

Deschampsia cespitosa

Dorycnium rectum

Epilobium hirsutum

Equisetum fluviatile

Equisetum ramosissimum

Equisetum telmateia

Eriophorum latifolium

Eriophorum vaginatum

Galium palustre

Geum coccineum

Juncus conglomeratus

Lythrum salicaria

Molinia caerulea

Myosotis nemorosa

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Myosotis palustris agg.

Parnassia palustris

Persicaria lapathifolia

## 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).  
References Chytrý, 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

### 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<sup>2</sup>)

min 1,52 max 1,52

#### 3.1.2 Method used

Complete survey/Complete survey or a statistically robust estimate (3)

#### 3.1.3. Trend of surface area

stable (0)

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## 3.2 Conservation 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<br>Administrative<br>One-off | high importance<br>(H) | Inside         | Maintain<br>Long term  |