

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

CODE: 3170

NAME: Mediterranean temporary ponds

## 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.

Bergmeier E. & Raus T. 1999. Verbreitung und Einnischung von Arten der Isoëto-Nanojuncetea in Griechenland. – Mitt. Bad. Landesver. Naturkunde u. Naturschutz, N.F. 17(2): 463-479

Bergmeier E. 2001. Seasonal pools in the vegetation of Gavdos (Greece) - in situ conservation required. *Boccone* 13: 511-516.

Δεληπέτρου Π., Οικονομίδου Ε. & Τσιουρλής Γ. 1996. Η βιοποικιλότητα των νησιών του Αιγαίου όπως εκφράζεται από τους οικοτόπους και τα είδη της χλωρίδας που προστατεύονται από την οδηγία 92/43/ΕΟΚ στις προτεινόμενες περιοχές του δικτύου "Φύση 2000". Πρακτικά 6ου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρείας και της Βιολογικής Εταιρείας Κύπρου, Παραλίμνι Κύπρου, 6-11 Απριλίου 1996: 74-78.

Καραγιάννη Π. 2009. Οικολογία των τύπων οικοτόπων της αποξηραμένης Λίμνης Μουριάς. Μελέτη της χλωρίδας και βλάστησης και οικολογική διερεύνηση περιβαλλοντικών παραμέτρων στα πλαίσια προγράμματος πιλοτικού επαναπλημμυρισμού. Διδακτορική Διατριβή. Πανεπιστήμιο Πατρών, σελ. 234 + Παράρτημα.

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Sarika M., Dimopoulos P. & Yannitsaros A. 2005. Contribution to the knowledge of the wetland flora and vegetation of Amvrakikos Gulf. W Greece. Willdenowia 35: 69-85.

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

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., Μπαμπαλώνας Δ., & Γιαννίτσaros Α. 1998. Φυτοκοινωνιολογική μελέτη της ελοφυτικής βλάστησης υδάτινων οικοσυστημάτων της Ηπείρου. Πρακτικά του 7ου Πανελληνίου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρίας, Αλεξανδρούπολη, 1-4 Οκτωβρίου 1998: 134-141.

Stroh H.G. 2002. Untersuchungen zur Therophytenvegetation naturnaher und anthropogener Habitate in West-Thrakien/Griechenland mit Bemerkungen zu deren standrtlicher und ethnographischer Differenzierung. Forschungsbericht. Göttingen, pg. 35 + Annex + Tables.

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

2.3.1 Surface area - Range (km <sup>2</sup> )	335
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> ) 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 (km <sup>2</sup> )	1,93
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)
grazing (A04)	high importance (H)	N/A
Roads, paths and railroads (D01)	low importance (L)	N/A
Discharges (E03)	low importance (L)	N/A
Other human intrusions and disturbances (G05)	low importance (L)	N/A
human induced changes in hydraulic conditions (J02)	low importance (L)	N/A
abiotic (slow) natural processes (K01)	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)
grazing (A04)	high importance (H)	N/A
Roads, paths and railroads (D01)	low importance (L)	N/A
Discharges (E03)	low importance (L)	N/A
Other human intrusions and disturbances (G05)	low importance (L)	N/A
human induced changes in hydraulic conditions (J02)	low importance (L)	N/A
abiotic (slow) natural processes (K01)	low importance (L)	N/A
Changes in abiotic conditions (M01)	low importance (L)	N/A

### 2.6.1 Method used – threats

expert opinion (1)

## 2.7 Complementary Information

### 2.7.1 Species

Antinoria insularis

Asteriscus aquaticus

Callitriche brutia

Callitriche pulchra

Centaurium pulchellum

Cicendia filiformis

Corrigiola litoralis

Crepis pusilla

Elatine alsinastrum

Elatine macropoda

Erophila praecox

Fimbristylis bisumbellata

Gypsophila muralis

Isoetes histrix

Isolepis cernua

Juncus bufonius

Juncus hybridus

Juncus pygmaeus

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Lepidium spinosum

Lythrum borysthenticum

Lythrum hyssopifolia

Lythrum tribracteatum

Montia arvensis

Myosurus minimus

Myosurus heldreichii (syn: Myosurus sessilis)

Ophioglossum lusitanicum

Plantago weldenii

Poa infirma

Polypogon maritimus

Pycnus flavescens

Ranunculus lateriflorus

Ranunculus marginatus

Spergularia bocconeii

Crassula tillaea (syn: Tillaea muscosa)

Crassula vaillantii (syn: Tillaea vaillantii)

Trifolium suffocatum

Zannichellia palustris

## 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

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## 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 (km <sup>2</sup> )	min 1 max 1
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
Other wetland-related measures (4.0)	One-off	low importance (L)	Inside	Enhance
Establish protected areas/sites (6.1)	Legal Administrative One-off	medium importance (M)	Inside	Enhance Long term
Legal protection of habitats and species (6.3)	Legal	high importance (H)	Both	Enhance Long term