

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

CODE: 92D0

NAME: Southern riparian galleries and thickets (Nerio-Tamaricetea and Securinegion tinctoriae)

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.

Βασιλείου Α., Μπαμπαλώνας Δ. & Greuter W. 2000. Ανάλυση της βλάστησης και των εδαφικών συνθηκών στη λιμνοθάλασσα της Επανομής. Πρακτικά 8ου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρείας, Πάτρα, 5-8 Οκτωβρίου 2000: 89-95.

Γεωργιάδης Θ., Δημόπουλος Π., Πανίτσα Μ. & Δημητρέλλος Γ. 1996. Τα φυσικά οικοσυστήματα της Πελοποννήσου με βάση την ποικιλότητα σε τύπους οικοτόπων και τα σημαντικά τους είδη. Πρακτικά 6ου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρείας και της Βιολογικής Εταιρείας Κύπρου, Παραλίμνι Κύπρου, 6-11 Απριλίου 1996: 68-73.

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.

Gehu J.M., Apostolides N., Gehu-Franck J. & Arnold K. 1989. Premieres donees sur la vegetation littorale des iles de Rhodos et de Karpathos (Grece). *Colloques phytosociologiques* XIX: 545-582.

Georgiadis Th., Dimopoulos P. & Dimitrellos G. 1997. The flora and vegetation of

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

the Acheron Delta (W Greece) aiming at nature conservation. Phytos 37: 31-60.
 Θεοδωρόπουλος Κ. 2001. Ζώνες βλάστησης και τύποι οικοτόπων του νομού Θεσσαλονίκης. Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος ΜΔ: 353-381.
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 Καραγιάννη Π., Τηνιακού Α. & Γεωργιάδης Θ. 2005. Συμβολή στην παρόχθια βλάστηση των ποταμών της Δυτικής Ελλάδος. Πρακτικά 10ου Πανελληνίου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρείας, Ιωάννινα, 5-8 Μαΐου 2005, σελ. 10 (σε CD).
 Καρέτσος, Γ. 2002. Μελέτη της Οικολογίας και της Βλάστησης του Όρους Οίτη. Διδακτορική Διατριβή. Πάτρα, σελ. 325.
 Korakis G. & Gerasimidis A. 2006. Coastal and halophytic habitats and their flora in Evrotas Delta (SE Peloponnisos, Greece). J. Biol. Res. 6: 155-166.
 Vasiliou A. 2000. Die psammophile und halophile Vegetation des Lagunenkomplexes Epanomi (Makedonien, Nordgriechenland). Pflanzensoziologische und floristische Untersuchungen. Diplomarbeit, Freie Universität Berlin, pg. 125.

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

2.3.1 Surface area - Range (km ²)	2255
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 ²) operator approximately equal to (≈) unknown 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 ²)	137,6
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

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

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)
grazing (A04)	low importance (L)	N/A
Forest and Plantation management & use (B02)	low importance (L)	N/A
Roads, paths and railroads (D01)	low importance (L)	N/A
Urbanised areas, human habitation (E01)	low importance (L)	N/A
Discharges (E03)	low importance (L)	N/A
Hunting and collection of wild animals (terrestrial) (F03)	low importance (L)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	low importance (L)	N/A
Sport and leisure structures (G02)	low importance (L)	N/A
Other human intrusions and disturbances (G05)	low importance (L)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	low importance (L)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	low importance (L)	N/A
human induced changes in hydraulic conditions (J02)	low importance (L)	N/A
Other ecosystem modifications (J03)	low importance (L)	N/A
Biocenotic evolution, succession (K02)	low importance (L)	N/A
Structures, buildings in the landscape (E04)	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
modification of cultivation practices (A02)	low importance (L)	N/A
mowing / cutting of grassland (A03)	low importance (L)	N/A
grazing (A04)	low importance (L)	N/A
Forest and Plantation management & use (B02)	low importance (L)	N/A
Roads, paths and railroads (D01)	low importance (L)	N/A
Urbanised areas, human habitation (E01)	low importance (L)	N/A
Discharges (E03)	low importance (L)	N/A
Hunting and collection of wild animals (terrestrial) (F03)	low importance (L)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	low importance (L)	N/A
Sport and leisure structures (G02)	low importance (L)	N/A
Other human intrusions and disturbances (G05)	low importance (L)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	low importance (L)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	low importance (L)	N/A

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

fire and fire suppression (J01)	low importance (L)	N/A
human induced changes in hydraulic conditions (J02)	low importance (L)	N/A
Other ecosystem modifications (J03)	low importance (L)	N/A
abiotic (slow) natural processes (K01)	low importance (L)	N/A
Biocenotic evolution, succession (K02)	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

Cheilanthes sp.

Juncus acutus

Limonium vulgare agg.

Nerium oleander

Poa trivialis

Rhododendron luteum

Tripidium ravennae (syn: Saccharum ravennae)

Tamarix hampeana

Tamarix parviflora

Tamarix smyrnensis

Tamarix tetrandra

Vitex agnus-castus

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.

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

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 111,5 max 111,5

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