

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	3150 - Natural eutrophic lakes with Magnopotamion or Hydrocharition - type

2. Maps

2.1 Year or period	2015
2.3 Distribution map	Yes
2.3 Distribution map Method used	Based mainly on extrapolation from a limited amount of data
2.4 Additional maps	Yes

BIOGEOGRAPHICAL LEVEL

3. Biogeographical and marine regions

3.1 Biogeographical or marine region where the habitat occurs	Mediterranean (MED)
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). 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. Βραχνάκης Μ., Φωτιάδης Γ. & Καζόγλου Ι. 2011. Τύποι Οικοτόπων Εθνικού Πάρκου Πρεσπών – Αναγνώριση-Καταγραφή 2011. Εταιρία Προστασίας Πρεσπών, σελ. 101.</p> <p>Dimopoulos P., Sýkora K.V., Gilissen C., Wiecherink D. & Georgiadis T. 2005. Vegetation ecology of Kalodiki fen (NW Greece). <i>Biologia/Bratislava</i> 60 (1): 69-82.</p> <p>Ζώτος Α. & Δημόπουλος Π. 2005. Οικολογική έρευνα της βλάστησης των καλαμιώνων και των υγρών λιβαδιών στις λίμνες Λυσιμαχεία και Τριχωνίδα (Δ. Ελλάδα). Πρακτικά 10ου Πανελληνίου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρίας, Ιωάννινα, 5-8 Μαΐου 2005, σελ. 10 (σε CD).</p> <p>Georgiadis Th., Dimopoulos P. & Dimitrellos G. 1997. The flora and vegetation of the Acheron Delta (W Greece) aiming at nature conservation. <i>Phyton</i> 37: 31-60.</p> <p>Θεοδωρόπουλος Κ. 2001. Ζώνες βλάστησης και τύποι οικοτόπων του νομού</p>

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Θεσσαλονίκης. Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος ΜΔ: 353-381. Παπαστεργιάδου Σ.Ε. 1990. Φυτοκοινωνιολογική και Οικολογική μελέτη των υδρόβιων μακρόφυτων (υδρόφυτων), στη Βόρεια Ελλάδα. Διδακτορική Διατριβή. Επιστ. Επετ. Τμημ. Βιολογίας της Σχολής Θετικών Επιστημών, ΑΠΘ, Παράρτημα Αρ. 24, σελ. 266 + Παράρτημα σελ. 69.

Παπαστεργιάδου Ε., Θεοχαρόπουλος Μ., Δημητρέλλος Γ., Παπαστεργιάδης Ε., Δημητριάδης Η. & Γεωργιάδης Θ. 2003. Τεχνική έκθεση για το έργο: Οικολογική έρευνα της υδρόβιας μακροφυτικής βλάστησης των υγροτόπων Χειμαδίτιδα-Ζάζαρη (LIFE00NAT/GR/7242). Πανεπιστήμιο Πατρών, Σχολή Θετικών Επιστημών, Τμήμα Βιολογίας, Τομέας Βιολογίας Φυτών, σελ. 39 + Χάρτης.

Παπαστεργιάδου Ε., Λαζαρίδου Ε. & Μπαμπαλώνας Δ. 2002. Διαχείριση και αποκατάσταση της υδρόβιας βλάστησης στη λίμνη Χειμαδίτιδα, Β. Ελλάδα. Πρακτικά 9ου Πανελληνίου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρείας, Αργοστόλι Κεφαλονιάς, 9-12 Μαΐου 2002: 254-259.

Πυρινή ΧΒ. Χ. 2011. Το οικοσύστημα των λιμνών Βεγορίτιδας και Πετρών: χλωρίδα, βλάστηση και φυτογεωγραφία. Διδακτορική Διατριβή. ΑΠΘ, σελ. 332 + Παράρτημα. Sarika M. 2012. Flora and vegetation of some coastal ecosystems of Sterea Ellas and eastern continental Greece. *Lazaroa* 33: 65-99.

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 7ου Πανελληνίου Επιστημονικού Συνεδρίου της Ελληνικής Βοτανικής Εταιρείας, Αλεξανδρούπολη, 1-4 Οκτωβρίου 1998: 134-141.

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

4. Range

4.1 Surface area	3529
4.2 Short-term trend Period	2007-2018
4.3 Short-term trend Direction	Stable (0)
4.4 Short-term trend Magnitude	a) Minimum b) Maximum
4.5 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data
4.6 Long-term trend Period	
4.7 Long-term trend Direction	
4.8 Long-term trend Magnitude	a) Minimum b) Maximum
4.9 Long-term trend Method used	Based mainly on extrapolation from a limited amount of data
4.10 Favourable reference range	a) Area (km ²) b) Operator Approximately equal to (≈) c) Unknown Yes d) Method
4.11 Change and reason for change in surface area of range	No change The change is mainly due to:

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4.12 Additional information

5. Area covered by habitat

5.1 Year or period	2015-015-		
5.2 Surface area (in km ²)	a) Minimum	b) Maximum	c) Best single value 93,35
5.3 Type of estimate	Minimum		
5.4 Surface area Method used	Based mainly on extrapolation from a limited amount of data		
5.5 Short-term trend Period	2007-2018		
5.6 Short-term trend Direction	Stable (0)		
5.7 Short-term trend Magnitude	a) Minimum	b) Maximum	c) Confidence interval
5.8 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data		
5.9 Long-term trend Period			
5.10 Long-term trend Direction			
5.11 Long-term trend Magnitude	a) Minimum	b) Maximum	c) Confidence interval
5.12 Long-term trend Method used			
5.13 Favourable reference area	a) Area (km ²)	Approximately equal to (≈)	
	b) Operator	Yes	
	c) Unknown	Yes	
	d) Method		
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 reported as equal to the area of the habitat within the Natura 2000 network (pSCIs, SCIs and SACs) (11.1), because no recent data are available regarding its distribution outside the network.		

6. Structure and functions

6.1 Condition of habitat	a) Area in good condition (km ²)	Minimum 84,02	Maximum 84,02
	b) Area in not-good condition (km ²)	Minimum 0	Maximum 0
	c) Area where condition is not known (km ²)	Minimum 9,33	Maximum 9,33
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		

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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.

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
Conversion from one type of agricultural land use to another (excluding drainage and burning) (A02)	H
Sports, tourism and leisure activities (F07)	M
Mixed source soil pollution and solid waste (excluding discharges) (J04)	M
Invasive alien species of Union concern (I01)	H
Drainage (K02)	H
Other human intrusions and disturbance not mentioned above (H08)	M
Active abstractions from groundwater, surface water or mixed water for agriculture (A30)	M
Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01)	M

Threat	Ranking
Sports, tourism and leisure activities (F07)	M
Mixed source soil pollution and solid waste (excluding discharges) (J04)	M
Invasive alien species of Union concern (I01)	H
Drainage (K02)	H
Other human intrusions and disturbance not mentioned above (H08)	M
Abiotic natural processes (e.g. erosion, silting up, drying out, submersion, salinization) (L01)	H
Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01)	M

7.2 Sources of information

PRESSURES: Based mainly on expert judgement and other data.

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7.3 Additional information

THREATS: Based on expert opinion.

IAS union concern : *Ludwigia grandiflora* (Michx.) Greuter & Burdet; *Ludwigia peploides* (Kunth) P.H. Raven; *Threskiornis aethiopicus* Latham, 1790; *Trachemys scripta* Schoepff, 1792; *Vespa velutina nigrithorax* de Buysson, 1905;

8. Conservation measures

8.1 Status of measures

a) Are measures needed? No

b) Indicate the status of measures

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

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8.6 Additional information

9. Future prospects

9.1 Future prospects of parameters

a) Range Good

b) Area Good

c) Structure and functions Good

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

Favourable (FV)

10.5 Overall assessment of Conservation Status

Favourable (FV)

10.6 Overall trend in Conservation Status

Stable (=)

10.7 Change and reasons for change in conservation status and conservation status trend

a) Overall assessment of conservation status

No change

The change is mainly due to:

b) Overall trend in conservation status

No change

The change is mainly due to:

10.8 Additional information

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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 km² in biogeographical/marine region)

- a) Minimum
- b) Maximum
- c) Best single value 93,35

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

Habitat type for which either new Natura sites have been designated or former ones have been expanded to cover a bigger part of their surface area. 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

12.1 Justification of % thresholds for trends

12.2 Other relevant information