

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	1310 - Salicornia and other annuals colonizing mud and sand

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. 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>Αθανασιάδης Ν.Η. & Γερασιμίδης Α.Μ. 1985. Δασικό Οικοσύστημα Στροφιλιά ΒΔ. Πελοποννήσου και Φυτοκοινωνιολογικές του μονάδες. Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος ΚΗ: 247-263</p> <p>Babalonas D. 1980. Vegetationseinheiten und Vegetationskartierung in dem Mündungsgebiet des Flusses Evros. Feddes Repert. 9 (9/10): 615 – 627.</p> <p>Babalonas D., Sýkora K.V. & Papastergiadou E. 1995. Review of plant communities from Greek dunes and salt marshes. A preliminary summarizing list. Ann. Bot. (Roma) 53: 107-117.</p> <p>Βαλλιανάτου Ε. 2005. Γεωβοτανική Έρευνα της Σαλαμίνας, Αίγινας και μερικών άλλων Νησιών του Σαρωνικού Κόλπου. Διδακτορική Διατριβή. Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών, σελ. 558.</p> <p>Βασιλείου Α., Μπαμπαλώνας Δ. & Greuter W. 2000. Ανάλυση της</p>

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

- 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.
- Δρόσος Ε., Αθανασιάδης Ν., Θεοδωρόπουλος Κ. & Ελευθεριάδου Ε. 1996. Αμμόφιλες, Αλόφιλες και υδρόφιλες φυτοκοινωνίες του Δέλτα του Θεσσαλικού Πηνειού ποταμού. Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος 39(1): 327-365.
- Economidou E. 1975. La vegetation halophytique de l'Attique et sa protection. Colloques phytosociologiques IV: 35-41
- 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.
- Gehu J.M., Costa M., Biondi E., Franck J. & Arnold N. 1987. Donnees sur la vegetation littorale de la Crete (Grece). Ecologia Mediterranea XIII (1/2): 93-105.
- Georgiadis Th., Dimopoulos P. & Dimitrellos G. 1997. The flora and vegetation of the Acheron Delta (W Greece) aiming at nature conservation. Phytosociologia 37: 31-60.
- Θεοδωρόπουλος Κ. 2001. Ζώνες βλάστησης και τύποι οικοτόπων του νομού Θεσσαλονίκης. Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος ΜΔ: 353-381.
- Κωνσταντινίδης Π. & Τσιουρλής Γ. 2001. Οι βλαστητικές μονάδες (τύποι οικοτόπων) της Επαρχίας Λαγκαδά (Λεκάνη Μυγδονίας): Μέρος Ι: Περιγραφή, ανάλυση και χαρτογράφηση. Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος ΜΔ: 627-654.
- Κωνσταντινίδης Π. & Τσιουρλής Γ. 2001. Οι τύποι οικοτόπων της Επαρχίας Λαγκαδά (Λεκάνης Μυγδονίας): Μέρος ΙΙ. Οικολογική κατάσταση και δυναμική. Επιστ. Επετ. Τμημ. Δασολογίας & Φυσικού Περιβάλλοντος ΜΔ: 655-680.
- Μπαμπαλώνας Δ.Γ. 1979. Φυτοκοινωνιολογική Μελέτη επί της Βλαστήσεως του Δέλτα του Ποταμού Έβρου (Αινήσιον Δέλτα). Διδακτορική Διατριβή. ΑΠΘ, σελ. 158 + Παράρτημα με 2 πίνακες.
- Μπαμπαλώνας Δ. 1979. Οι φυτοκοινωνιολογικές τάξεις *Ammophiletalia arundinaceae* (Br.-Bl. 1933) R. Tx. Et Oberd. 1958 και *Elymetalia gigantei* Vich. 1971 στην οριακή θέση της Θράκης. Πρακτικά 1ης επιστημονικής ημερίδας Ελληνικής Εταιρείας Βιολογικών Επιστημών. Θεσσαλονίκη.
- Oberdorfer E. 1952. Beitrag zur Kenntnis der Nordägäischen Küstenvegetation. Vegetatio 3: 329-349.
- Sarika M. 2012. Flora and vegetation of some coastal ecosystems of Sterea Ellas and eastern continental Greece. Lazaroa 33: 65-99.
- 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.
- Σύκωρα Κ.Β., Βαβαλονάς Δ. & Παπαστεργιάδου Ε. 1998. An overview of the coastal vegetation of Greece based on multivariate analysis: Dunes. Proceedings of the 1st Balkan Botanical Congress (Progress in Botanical Research), Thessaloniki 1998. Kluwer Academic Publishers, 149-152.
- Σύκωρα Κ.Β., Βαβαλονάς Δ. & Παπαστεργιάδου Ε. 2003. Strandline and sand-dune vegetation of coasts of Greece and some other Aegean countries. Phytocoenologia 33(2-3): 409-446.
- Vasiliou A. 2000. Die psammophile und halophile Vegetation des Lagunenkomplexes Epanomi (Makedonien, Nordgriechenland). Pflanzensoziologische und floristische Untersuchungen. Diplomarbeit, Freie Universität Berlin, pg. 125.
- Walther K. 1969. Halmfrucht-gesellschaften in

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

6. Structure and functions

6.1 Condition of habitat	a) Area in good condition (km ²)	Minimum 62,42	Maximum 62,42
	b) Area in not-good condition (km ²)	Minimum 0	Maximum 0
	c) Area where condition is not known (km ²)	Minimum 6,94	Maximum 6,94
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	<p>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. <i>Journal of Vegetation Science</i> 13: 79–90. Dimopoulos, P., Raus, Th., Bergmeier, E., Constantinidis, Th., Iatrou, G., Kokkini, S., Strid, A. & Tzanoudakis, D. 2013: <i>Vascular plants of Greece: an annotated checklist</i>. – 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. <i>Journal of Vegetation Science</i> 20: 233-240.</p>		
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
Intensive grazing or overgrazing by livestock (A09)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Sports, tourism and leisure activities (F07)	H
Mixed source soil pollution and solid waste (excluding discharges) (J04)	M
Drainage (K02)	H
Natural processes of eutrophication or acidification (L04)	M

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

Other human intrusions and disturbance not mentioned above (H08)	M
Other invasive alien species (other than species of Union concern) (I02)	H
Other natural catastrophes (M10)	H
Threat	Ranking
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Sports, tourism and leisure activities (F07)	H
Mixed source soil pollution and solid waste (excluding discharges) (J04)	M
Drainage (K02)	H
Natural processes of eutrophication or acidification (L04)	M
Other human intrusions and disturbance not mentioned above (H08)	M
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	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)

Reduce impact of transport operation and infrastructure (CE01)

Habitat restoration of areas impacted by transport (CE06)

Reduce impact of outdoor sports, leisure and recreational activities (CF03)

Reduce impact of mixed source pollution (CJ01)

Reduce impact of multi-purpose hydrological changes (CJ02)

Restore habitats impacted by multi-purpose hydrological changes (CJ03)

Management of habitats (others than agriculture and forest) to slow, stop or reverse natural processes (CL01)

Reduce impact of other specific human actions (CH03)

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

8.6 Additional information

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

9. Future prospects

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

9.2 Additional information

10. Conclusions

10.1. Range	Favourable (FV)
10.2. Area	Unfavourable - Inadequate (U1)
10.3. Specific structure and functions (incl. typical species)	Favourable (FV)
10.4. Future prospects	Favourable (FV)
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	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	

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 ² in biogeographical/marine region)	a) Minimum b) Maximum c) Best single value 37,44
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.

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

12. Complementary information

12.1 Justification of % thresholds for trends

12.2 Other relevant information