

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

CODE: 1140

NAME: Mudflats and sandflats not covered by seawater at low tide

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	2007-2012
1.1.4 Additional map	No
1.1.5 Range Map	Yes

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

2.2 Published

Marine Mediterranean (MMED)

- Bortels, L., Chan, J. C. W., Merken, R., & Koedam, N. (2011). Long-term monitoring of wetlands along the Western-Greek Bird Migration Route using Landsat and ASTER satellite images: Amvrakikos Gulf (Greece). *Journal for Nature Conservation*, 19(4), 215-223.
- Drakou, E. G., Kallimanis, A. S., Mazaris, A. D., Apostolopoulou, E., & Pantis, J. D. (2011). Habitat type richness associations with environmental variables: a case study in the Greek Natura 2000 aquatic ecosystems. *Biodiversity and Conservation*, 20(5), 929-943.
- HCMR Technical Reports (2007-2014)
- HCMR, 2014. Monitoring of coastal and transitional waters in Greece under the article 8 of the Water Framework Directive (WFD 2000/60/EC), Simboura N & P Panagiotidis (eds). HCMR Annual Report 2013, 145pp (in greek)
- HCMR, 2013. Monitoring of coastal and transitional waters in Greece under the article 8 of the Water Framework Directive (WFD 2000/60/EC), Simboura N & P Panagiotidis (eds). HCMR Annual Report 2012, 123pp (in greek)
- WWF Ελλάς, Ελληνική Ορνιθολογική Εταιρία & ΕΛΛΗΝΙΚΗ ΕΤΑΙΡΕΙΑ Περιβάλλοντος και Πολιτισμού, 2009. Ελληνικοί Υγρότοποι Ραμσάρ: Αξιολόγηση Προστασίας και Διαχείρισης. Αθήνα. Φεβρουάριος 2009.

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

2.3.1 Surface area - Range (km ²)	495,48
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 method	No
	Sandflats and mudflats are largely infrequent Habitat Types of highly variable nature and extent across Greece, mostly contained within Estuarine and Lagoonal systems. The value estimated here corresponds to the habitat type's range within the Greek NATURA 2000 Network. The large-scale extent of this Habitat Type is not expected to have significantly changed since, and thus current range and FRR

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are considered approximately equal to the range of the habitat type at the time of the Directive's adoption.

2.3.10 Reason for change

Improved knowledge/more accurate data

2.4 Area covered by Habitat

2.4.1 Surface area (km ²)	6
2.4.2 Year or period	2001-
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	decrease (-)
2.4.6 Short-term trend magnitude	min max
2.4.7 Short term trend method used	Estimate based on expert opinion with no or minimal sampling (1)
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	<p>area (km)</p> <p>operator N/A</p> <p>unknown No</p> <p>method The surface area estimated here corresponds to the area of the habitat type within the Greek NATURA 2000 Network. Due to the Habitat's high natural variability (both in structure and extent) an accurate estimation of FRA is not feasible.</p>
2.4.13 Reason for change	Improved knowledge/more accurate data

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
human induced changes in hydraulic conditions (J02)	high importance (H)	N/A
Changes in abiotic conditions (M01)	high importance (H)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	Mixed pollutants (X)
bait digging / collection (F02.03.01)	medium importance (M)	N/A
motorised vehicles (G01.03)	medium importance (M)	N/A
Sand and gravel extraction (C01.01)	high importance (H)	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)
human induced changes in hydraulic conditions (J02)	high importance (H)	N/A
Changes in abiotic conditions (M01)	high importance (H)	N/A
Urbanised areas, human habitation (E01)	high importance (H)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	Mixed pollutants (X)
bait digging / collection (F02.03.01)	medium importance (M)	N/A
motorised vehicles (G01.03)	medium importance (M)	N/A

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Sand and gravel extraction (C01.01) high importance (H) N/A

2.6.1 Method used – threats expert opinion (1)

2.7 Complementary Information

2.7.1 Species

Zostera noltii Hornem

2.7.2 Species method used general surveys, published data, expert judgment

2.7.3 Justification of % - thresholds for trends

2.7.4 Structure and functions - methods used Estimate based on expert opinion with no or minimal sampling (1)

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 Unknown (XX)
qualifiers N/A

2.8.3 Specific structures and functions (incl Species) assessment Inadequate (U1)
qualifiers declining (-)

2.8.4 Future prospects assessment Inadequate (U1)
qualifiers declining (-)

2.8.5 Overall assessment of Conservation Status Inadequate (U1)

2.8.5 Overall trend in Conservation Status declining (-)

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 4 max 6

3.1.2 Method used Estimate based on partial data with some extrapolation and/or modelling (2)

3.1.3. Trend of surface area N/A

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)	Legal	high importance (H)	Inside	Unknown
Establish protected areas/sites (6.1)	Legal One-off	high importance (H)	Inside	Enhance Long term