

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	1130 - Estuaries

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	Marine Mediterranean (MMED)
3.2 Sources of information	<ul style="list-style-type: none"> • Dafis, S., E. Papastergiadou, E. Lazaridou and M. Tsiafouli. 2001. Technical guide for the identification description and mapping of habitat types in Greece. Greek Biotope/Wetland Centre (EKBY). 393 p. (in Greek). • 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). • HCMR Technical Reports (2007-2014). • HCMR unpublished data (2007-2014). • Christia, C., Tziortzis, I., Fyttis, G., Kashta, L. & Papastergiadou, E. (2011). A survey of the benthic aquatic flora in transitional water systems of Greece and Cyprus (Mediterranean Sea). <i>Botanica marina</i> 54(2): 169-178. • Simboura, N. & A. Zenetos, 2002. Benthic indicators to use in ecological quality classification of Mediterranean soft bottom marine ecosystems, including a new Biotic index. <i>Mediterranean Marine Science</i>, 3/2:77-111. • Simboura, N. & S. Reizopoulou, 2008. An intercalibration of classification metrics of benthic macroinvertebrates in coastal and transitional ecosystems of the Eastern Mediterranean ecoregion (Greece). <i>Marine Pollution Bulletin</i> 56:116.

4. Range

4.1 Surface area	4054,22
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 (≈)

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c) Unknown
d) Method

Yes

Range calculation for Habitat Type 1130 was based on a modelling approach that takes into account all major river systems in Greece upon which buffer marine zones of either 5 km (where deltas present) or 1 km (other lesser systems) were applied. This Range value is considered approximately equal to FRR.

4.11 Change and reason for change in surface area of range

Improved knowledge/more accurate data

The change is mainly due to: Improved knowledge/more accurate data

4.12 Additional information

5. Area covered by habitat

5.1 Year or period

2015-015-

5.2 Surface area (in km²)

a) Minimum

b) Maximum

c) Best single value 755,44

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 expert opinion with very limited 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 (km²)

b) Operator

Approximately equal to (≈)

c) Unknown

Yes

d) Method

Surface area calculation for Habitat Type 1130 was based on a modelling approach that takes into account all major river systems in Greece upon which buffer marine zones of either 5km (where deltas present) or 1km (other lesser systems) were applied. This Surface area value is considered approximately equal to FRA.

5.14 Change and reason for change in surface area of range

Improved knowledge/more accurate data

The change is mainly due to: Improved knowledge/more accurate data

5.15 Additional information

6. Structure and functions

6.1 Condition of habitat

a) Area in good condition (km²)

Minimum 0

Maximum 0

b) Area in not-good condition (km²)

Minimum 151,09

Maximum 151,09

c) Area where condition is not known (km²)

Minimum 604,35

Maximum 604,35

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6.2 Condition of habitat Method used	Based mainly on extrapolation from a limited amount of data
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	Unknown (x)
6.5 Short-term trend of habitat area in good condition Method used	Insufficient or no data available
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	The list of typical species presented here follows the phytosociological criteria set by Dafis et al. 2001. To assess the ecological status of sedimentary bottom types however, multi-specific approaches have been applied based on various biotic indices which take into account the composition and relative abundance of the invertebrate (infaunal) communities of benthic sediments (Simboura & Zenetos, 2001; Simboura & Reizopoulou, 2008).
6.8 Additional information	Assumption: 20% of habitat area is estimated to be in not-good condition.

7. Main pressures and threats

7.1 Characterisation of pressures/threats

Pressure	Ranking
Mixed source marine water pollution (marine and coastal) (J02)	H
Physical alteration of water bodies (K05)	H
Change of habitat location, size, and / or quality due to climate change (N05)	M
Extraction of minerals (e.g. rock, metal ores, gravel, sand, shell) (C01)	M
Threats and pressures from outside the EU territory (Xe)	M
Marine fish and shellfish harvesting (professional, recreational) activities causing physical loss and disturbance of seafloor habitats (G03)	H

Threat	Ranking
Sea-level and wave exposure changes due to climate change (N04)	M
Mixed source marine water pollution (marine and coastal) (J02)	H
Physical alteration of water bodies (K05)	H
Change of habitat location, size, and / or quality due to climate change (N05)	M
Threats and pressures from outside the EU territory (Xe)	M
Marine fish and shellfish harvesting (professional, recreational) activities causing physical loss and disturbance of seafloor habitats (G03)	H

7.2 Sources of information	<p>PRESSURES: Based exclusively or to a larger extent on real data from sites/occurrences or other data sources.</p> <p>THREATS: Expert opinion.</p>
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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

Management of professional/commercial fishing (including shellfish and seaweed harvesting) (CG01)

Adopt climate change mitigation measures (CN01)

Reduce impact of multi-purpose hydrological changes (CJ02)

Reduce impact of mixed source pollution (CJ01)

Reduce impact of other specific human actions (CH03)

8.6 Additional information

9. Future prospects

9.1 Future prospects of parameters

- a) Range Good
- b) Area Good
- c) Structure and functions Poor

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)

Unfavourable - Inadequate (U1)

10.4. Future prospects

Unfavourable - Inadequate (U1)

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

Use of different method

The change is mainly due to: Use of different method

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 0,6

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

Unknown (x)

11.5 Short-term trend of habitat area in good condition within network Method used

Insufficient or no data available

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.

12. Complementary information

12.1 Justification of % thresholds for trends

12.2 Other relevant information

Most of the collected data regarding habitat type 1130 status across Greece result from the HCMR Monitoring activities under the article 8 of the Water Framework Directive.