Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

0.1 Member State	**GR**
0.2.1 Species code	**1220**
0.2.2 Species name	**Emys orbicularis**
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	Valtochelona

1. National Level

1.1 Maps

1.1.1 Distribution Map	Yes
1.1.1a Sensitive species	No
1.1.2 Method used - map	Estimate based on partial data with some extrapolation and/or modelling (2)
1.1.3 Year or period	2012
1.1.4 Additional map	No
1.1.5 Range map	Yes

2. Biogeographical Or Marine Level

2.1 Biogeographical Region	**Mediterranean (MED)**
2.2 Published sources	Broggi, M.F. and Grillitsch, H. 2012. The European Pond Terrapin Emys orbicularis hellenica (Valenciennes, 1832) in the Aegean: Distribution and threats, Herpetozoa 25(1/2). Φουφόπουλος, Γ. 2008. Emys orbicularis. Αξιολόγηση είδους για το Κόκκινο Βιβλίο των απειλούμενων ειδών ζώων της Ελλάδας. Ελληνική Ζωολογική Εταιρεια, Αθήνα. Valakos, E.D., P. Pafilis, K. Sotiropoulos, P. Lymberakis, P. Marangou & J. Foufopoulos. 2007. Reptiles and Amphibians of Greece, Chimaira Publications, Frankfurt am Mainz, 463 pp. Wilson Matt The European reptilian and amphibian blog. http://mwilsonherps.wordpress.com/

2.3 Range

2.3.1 Surface area - Range (km²)	35402,18	
2.3.2 Method - Range surface area	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 (km²)	
	operator	approximately equal to (≈)
	unkown	No
	method	A wide ranging species. None of the known populations became extinct since 1994. FRV is the total of the range which excludes the unfavorable altitude areas.
2.3.10 Reason for change	Improved knowledge/more accurate dataUse of different method	

2.4 Population

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2.4.1 Population size (individuals or agreed exception)	Unit	N/A		
	min		max	
2.4.2 Population size (other than individuals)	Unit	number of map 1x1 km grid cells (grids1x1)		
	min	1022	max	1401
2.4.3 Additional information	Definition of locality			
	Conversion method	The least common between the two freshwater terrapins of Greece. There are indications that the populations have decreased as a consequence of hydraulic and irrigation works and degradation of smaller wetlands.		
	Problems	There are no adequate references or measurements regarding the population size or population densities. Based on the available data an estimation of the population using as unit the number of individuals doesn't seem feasible at this stage.		

2.4.4 Year or period	2012		
2.4.5 Method – population size	Estimate based on partial data with some extrapolation and/or modelling (2)		
2.4.6 Short-term trend period	2001-2012		
2.4.7 Short term trend direction	stable (0)		
2.4.8 Short-term trend magnitude	min	max	confidence interval
2.4.9 Short-term trend method	Estimate based on expert opinion with no or minimal sampling (1)		
2.4.10 Long-term trend period			
2.4.11 Long term trend direction	N/A		
2.4.12 Long-term trend magnitude	min	max	confidence interval
2.4.13 Long-term trend method	N/A		
2.4.14 Favourable reference population	number		
	operator	N/A	
	unknown	Yes	
	method	There were no previous estimations of population. The existing island populations of Emys are all very small and isolated from each other. There are indications of population decline there but not documented reports.	
2.4.15 Reason for change	Improved knowledge/more accurate data Use of different method		

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km²)	1401
2.5.2 Year or period	2012
2.5.3 Method used - habitat	Estimate based on partial data with some extrapolation and/or modelling (2)
2.5.4 a) Quality of habitat	Moderate
2.5.4 b) Quality of habitat - method	A widely distributed species with a preferance to still or slow moving permanent waters. In the Aegean islands are scattered, small and subject to degradation/shrinking due to a plethora of reasons including climate change. Random surveys have been conducted in the distribution areas.
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	decrease (-)
2.5.7 Long-term trend period	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km²)	2521

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2.5.10 Reason for change	Genuine Improved knowledge/more accurate data Use of different method

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
agricultural intensification (A02.01)	medium importance (M)	N/A
Fertilisation (A08)	low importance (L)	N/A
Irrigation (A09)	low importance (L)	N/A
diffuse pollution to surface waters due to agricultural and forestry activities (H01.05)	medium importance (M)	N/A
garbage and solid waste (H05.01)	low importance (L)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
Canalisation & water deviation (J02.03)	medium importance (M)	N/A
Flooding modifications (J02.04)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	high importance (H)	N/A
disposal of household / recreational facility waste (E03.01)	low importance (L)	N/A
disposal of inert materials (E03.03)	medium importance (M)	N/A

2.6.1 Method used – pressures	mainly based on expert judgement and other data (2)

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
agricultural intensification (A02.01)	medium importance (M)	N/A
Fertilisation (A08)	low importance (L)	N/A
Irrigation (A09)	low importance (L)	N/A
disposal of household / recreational facility waste (E03.01)	low importance (L)	N/A
disposal of inert materials (E03.03)	medium importance (M)	N/A
diffuse pollution to surface waters due to agricultural and forestry activities (H01.05)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
Canalisation & water deviation (J02.03)	medium importance (M)	N/A
Flooding modifications (J02.04)	medium importance (M)	N/A
Modification of hydrographic functioning, general (J02.05)	high importance (H)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
Changes in abiotic conditions (M01)	medium importance (M)	N/A

2.7.1 Method used – threats	expert opinion (1)

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends	
2.8.2 Other relevant Information	The range estimations do not include unfavorable altitude areas. The data used for the distribution and range of the species are based on extensive fieldwork and reliable published sources that does not confirm the presence of the species in GR1250004 and GR1320001. Possible discrepancies with the SDF will be corrected in the next submission of revised SDF forms

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2.8.3 Trans-boundary assessment	

2.9 Conclusions (assessment of conservation status at end of reporting period)

2.9.1 Range	assessment	Favourable (FV)
	qualifiers	N/A
2.9.2. Population	assessment	Favourable (FV)
	qualifiers	N/A
2.9.3. Habitat	assessment	Inadequate (U1)
	qualifiers	N/A
2.9.4. Future prospects	assessment	Unknown (XX)
	qualifiers	N/A
2.9.5 Overall assessment of Conservation Status	Inadequate (U1)	
2.9.5 Overall trend in Conservation Status	declining (-)	

3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

3.1.1 Population Size	Unit	number of map 1x1 km grid cells (grids1x1)		
	min	710	max	980
3.1.2 Method used	Estimate based on partial data with some extrapolation and/or modelling (2)			
3.1.3 Trend of population size within	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
Measures needed, but not implemented (1.2)	Contractual Recurrent	medium importance (M)	Both	
Establish protected areas/sites (6.1)	Legal One-off	medium importance (M)	Inside	Unknown
Legal protection of habitats and species (6.3)	Legal Administrative	high importance (H)	Both	Long term