

# 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	5307
0.2.2 Species name	Cobitis stephanidisi
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	Ferovelonitsa

## 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	2007-2012
1.1.4 Additional map	Yes
1.1.5 Range map	Yes

## 2. Biogeographical Or Marine Level

### 2.1 Biogeographical Region

#### Mediterranean (MED)

### 2.2 Published sources

Kottelat M. & Freyhof J. (2007). Handbook of European freshwater fishes. Publications Kottelat, Cornol, Switzerland.

Economidis, P.S. & Chrysopolitou V. (2009). Cobitis stephanidisi. In Red Data Book of threatened Animals of Greece. Legakis A. & Maragou P. (eds). pg. 102. Hellenic Zoological Society, Athens.

### 2.3 Range

2.3.1 Surface area - Range (km <sup>2</sup> )	350
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	decrease (-)
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 <sup>2</sup> ) 875 operator N/A unkown No method Basic assumption: Favourable Reference Range = Historic Range = value extracted from Additional Reference Range Map

### 2.3.10 Reason for change

### 2.4 Population

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 5x5 km grid cells (grids5x5) min 14 max 14
2.4.3 Additional information	Definition of locality

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	Conversion method		
	Problems	No samples. Data came only from existing literature, combined with expert judgment.	
2.4.4 Year or period	2006-2012		
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	decrease (-)		
2.4.8 Short-term trend magnitude	min	max	confidence interval
2.4.9 Short-term trend method	Estimate based on partial data with some extrapolation and/or modelling (2)		
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	35	
	operator	N/A	
	unknown	No	
	method	Basic assumption: Favourable Reference Population = value extracted from Additional Reference Range Map	
2.4.15 Reason for change			

## 2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km <sup>2</sup> )	350
2.5.2 Year or period	2006-2012
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	Bad
2.5.4 b) Quality of habitat - method	Based on expert judgement
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 (km <sup>2</sup> )	0
2.5.10 Reason for change	

## 2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
reduction in migration/ migration barriers (J03.02.01)	high importance (H)	N/A
dykes and flooding defence in inland water systems (J02.12.02)	high importance (H)	N/A
large scale water deviation (J02.03.01)	high importance (H)	N/A
surface water abstractions for agriculture (J02.06.01)	high importance (H)	N/A
management of aquatic and bank vegetation for drainage purposes (J02.10)	medium importance (M)	N/A
small hydropower projects, weirs (J02.05.05)	medium importance (M)	N/A
reduction in genetic exchange (J03.02.03)	medium importance (M)	N/A

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

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## 2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
reduction in migration/ migration barriers (J03.02.01)	medium importance (M)	N/A
dykes and flooding defence in inland water systems (J02.12.02)	medium importance (M)	N/A
large scale water deviation (J02.03.01)	high importance (H)	N/A
surface water abstractions for agriculture (J02.06.01)	high importance (H)	N/A
management of aquatic and bank vegetation for drainage purposes (J02.10)	high importance (H)	N/A
small hydropower projects, weirs (J02.05.05)	high importance (H)	N/A
reduction in genetic exchange (J03.02.03)	high importance (H)	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 % threshold could not be used for the assessment since: a) a different method for assessing range was employed, compared to the 2nd Reporting 1. Originally, the species was discovered in the Kefalovriso springs in Velestino (Lake Karla catchment, Thessaly). In 1998, the springs dried out and the species became extirpated from this area, its Type Locality. In 2001, it was rediscovered in Chasambali spring (Karla catchment) (Economidis & Chrysopolitou 2009). Unfortunately, during recent surveys (2011, 2014) this spring was found desiccated and only *Cobitis vardarensis* was collected in adjacent artificial pools and canals (HCMR data). There is a serious problem with the taxonomy and identification may not be straightforward, so the range distributional data available is not used for assessment. The species' requires wetlands, springs and canals with silty substrate and aquatic vegetation and many of these are easily desiccated during the flooding-drying for irrigation management. This *Cobitis* species is therefore one of Greece's most enigmatic range-restricted fishes, apparently close to extinction.

2. Basic Assumptions:

i) "Surface Area Range" (field 2.3.1) = value extracted from "Range Map" (field 1.1.5).

ii) "Favourable Reference Range" (field 2.3.9a) = a) "Surface Area Range" (field 2.3.1) OR b) value extracted from "Additional Reference Range Map" (provided). Depends on whether the Favourable range is equal or larger than actual species range.

iii) "Population Size" (field 2.4.2) = value extracted from "Distribution Map" (field 1.1.1) or "Additional Distribution Map" (field 1.1.4) (when provided).

iv) "Favourable Reference Population" (field 2.4.14) = a) "Population Size" (field 2.4.2) OR b) value extracted from "Additional Reference Range Map" (provided). Depends on whether the Favourable population is equal or larger than actual species population.

v) Habitat "Area Estimation" (field 2.5.1) = "Distribution Map" (field 1.1.1) or "Additional Distribution Map" (field 1.1.4) (when provided).

2.8.3 Trans-boundary assessment

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

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2.9.1 Range	assessment Bad (U2) qualifiers declining (-)
2.9.2. Population	assessment Bad (U2) qualifiers declining (-)
2.9.3. Habitat	assessment Bad (U2) qualifiers declining (-)
2.9.4. Future prospects	assessment Bad (U2) qualifiers declining (-)
2.9.5 Overall assessment of Conservation Status	Bad (U2)
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 5x5 km grid cells (grids5x5)
	min	7
	max	7
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	unknown (x)	

### 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)	Legal	high importance (H)	Outside	