

# 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	5309
0.2.2 Species name	<b>Cobitis vardarensis</b>
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	Makedoniki Velonitsa

## 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	No
1.1.5 Range map	Yes

## 2. Biogeographical Or Marine Level

### 2.1 Biogeographical Region

### 2.2 Published sources

#### Mediterranean (MED)

Economidis, P.S., Vogiatzis, V.P. & Bobori, D. (1996). Freshwater fishes. In: NATURA 2000, pp. 604-635. Directive 92/43/EEC "The Greek Habitat Project NATURA 2000: An overview". The Goulandris Natural History Museum - Greek Biotope Wetland Center. 917 p. Thessaloniki 1996.

Economidis, P.S. & Nalbant, T.T. (1996). A study of the loaches of the genera *Cobitis* and *Sabanejewia* (Pisces, Cobitidae) of Greece, with description of six new taxa. *Trav. Mus. Natl. Hist. nat. "Grigore Antipa"*, 36, 295-347.

Bobori, DC., Economidis, PS. & Maurakis, EG. (2001). Freshwater Fish Habitat Science and Management in Greece. *Aquatic Ecosystem Health & Management*, 4 (4) : 381-391.

Gretes, W.C. (2001). Longitudinal distributions of fishes in river drainages of Greece, with comments on assessing fish biodiversity in the southern Balkan Peninsula. *BIOS (Macedonia, Greece)*, 6: 91-108.

Bobori, D.C. & Economidis, P.S. (2003). Fish biodiversity in the main Greek rivers and lakes. In review.

Kottelat, M. and J. Freyhof, 2007. Handbook of European freshwater fishes. Publications Kottelat, Cornol, Switzerland. 646 p.

Οδηγία Πλαίσιο περί Υδάτων 2000/60/ΕΕ - Ανάπτυξη δικτύων και παρακολούθηση ποιότητας των επιφανειακών, εσωτερικών, μεταβατικών και των παράκτιων υδάτων της χώρας – Αξιολόγηση/Ταξινόμηση της οικολογικής τους κατάστασης. Πρόγραμμα της Κεντρικής Υπηρεσία Υδάτων του ΥΠ.Ε.ΧΩ.Δ.Ε.. Ανάδοχος Κοινοπραξία ΕΛΚΕΘΕ - ΕΚΒΥ. ΥΠΕΧΩΔΕ 2008-2010

Βούρκα, Θεοφανούδη & Κουγιουμτζίδου, 2010. Εκτίμηση της οικολογικής κατάστασης των επιφανειακών υδάτων της λεκάνης απορροής του ποταμού Σοφαδίτη (Ν. Καρδίτσας) σύμφωνα με την Οδηγία για τα Νερά 2000/60/ΕΚ» Μελέτη Ειδική

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ς Περίπτωσης.

## 2.3 Range

2.3.1 Surface area - Range (km <sup>2</sup> )	13800
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 (km <sup>2</sup> ) operator approximately equal to (≈) unknown No method Basic assumption: Favourable Reference Range = Surface Area Range (current range)

### 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 10x10 km grid cells (grids10x10) min 138 max 138
2.4.3 Additional information	Definition of locality Conversion method Problems Most data are described as semi-quantitative or qualitative. Few quantitative data. Too much variability between existing samples, especially between different river basins, making it difficult to extrapolate a number or a class for reporting population unit.
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	stable (0)
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 operator approximately equal to (≈) unknown No method Basic assumption. Favourable Reference Population = value extracted from Range Map

### 2.4.15 Reason for change

## 2.5 Habitat for the Species

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2.5.1 Surface area - Habitat (km <sup>2</sup> )	13800
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	Good
2.5.4 b) Quality of habitat - method	Based on partial data with some extrapolation and expert judgment
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	stable (0)
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)	low importance (L)	N/A
large scale water deviation (J02.03.01)	low importance (L)	N/A
intensive mixed animal grazing (A04.01.05)	low importance (L)	N/A
surface water abstractions for agriculture (J02.06.01)	high importance (H)	N/A
Urbanised areas, human habitation (E01)	low importance (L)	N/A
sand and gravel quarries (C01.01.01)	low importance (L)	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)
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	low importance (L)	N/A
large scale water deviation (J02.03.01)	medium importance (M)	N/A
intensive mixed animal grazing (A04.01.05)	low importance (L)	N/A
surface water abstractions for agriculture (J02.06.01)	high importance (H)	N/A
Urbanised areas, human habitation (E01)	low importance (L)	N/A
sand and gravel quarries (C01.01.01)	low importance (L)	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. A widespread loach found in Thessalian Pinios, Mavroneri, Aliakmon, Axios, Loudias and Gallikos river basins (Greece and FYROM). It inhabits still or slow flowing waters with muddy or silty substrates.
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.

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- 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)

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 Favourable (FV) qualifiers N/A
2.9.4. Future prospects	assessment Unknown (XX) qualifiers N/A
2.9.5 Overall assessment of Conservation Status	Favourable (FV)
2.9.5 Overall trend in Conservation Status	N/A

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

### 3.1 Population

3.1.1 Population Size	Unit	number of map 10x10 km grid cells (grids10x10)
	min	58
	max	58
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
Establish protected areas/sites (6.1)	Legal Administrative One-off	low importance (L)	Inside	Enhance Long term