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	**5299**
0.2.2 Species name	**Cobitis strumicae**
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	Thrakovelonitsa

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

Mediterranean (MED)

2.2 Published sources

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.

Κοκκινάκης, Α., Κουτράκης, Ε., Ελευθεριάδης, Ε., Μπόμπορη, Δ. & Οικονομίδης Π .Σ. (1999). Ιχθυοπανίδα των εσωτερικών υδάτων της παράκτιας ζώνης του Στρυμ ονικού κόλπου και του κόλπου της Ιερισσού. Τελική Έκθεση: Περιγραφή της παρ άκτιας ζώνης των κόλπων Στρυμονικού και Ιερισσού. «Συντονισμένες Δράσεις γι α τη Διαχείριση της Παράκτιας Ζώνης του Στρυμονικού Κόλπου», ΕΘΙΕΓΕ, ΕΚΒΥ, σ ελ. 295-305 + Παράρτημα.

Μπόμπορη, Δ.Χ. & Οικονομίδης, Π.Σ. (2000). Αλιευτική διαχείρηση της Βόλβης. Θ εωρητικές και πρακτικές προσεγγίσεις. Πρακτικά 9ου Πανελλήνιου Συνέδριου Ιχ θυολόγων, Μεσολόγγι, 20-23 Ιανουαρίου, σελ. 157-160.

Bobori, DC., Economidis, PS. & Maurakis, EG. (2001). Freshwater Fish Habitat Science and Management in Greece. Aquatic Ecosystem Health & Management, 4 (4) : 381-391.- 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 παρακολούθη ση ποιότητας των επιφανειακών, εσωτερικών, μεταβατικών και των παράκτιων υ δάτων της χώρας – Αξιολόγηση/Ταξινόμηση της οικολογικής τους κατάστασης. Π ρόγραμμα της Κεντρικής Υπηρεσία Υδάτων του ΥΠ.Ε.ΧΩ.Δ.Ε.. Ανάδοχος Κοινοπρα

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

ξία ΕΛΚΕΘΕ - ΕΚΒΥ. ΥΠΕΧΩΔΕ 2008-2010

ΠΕΤΡΙΚΗ, Ο. 2009. Παρακολούθηση της ιχθυοπανίδας της τεχνητής λίμνης Κερκίν ης σύμφωνα με την Οδηγία 2000/60/ΕΚ

ΓΟΥΣΙΑ, Ε. 2009. Παρακολούθηση της ιχθυοπανίδας του ποταμού Στρυμόνα σύμ φωνα με την Οδηγία 2000/60/ΕΚ

Αυτζή Χ.2010. Εφαρμογή της προτεινόμενης από την Οδηγία 2000/60/ΕΚ μεθοδο λογίας CEN για την εκτίμηση της ιχθυοκοινότητας στη λίμνη Βόλβη (Υδατικό Δια μέρισμα Κεντρικής Μακεδονίας)

Εμφιετζής 2010. Παρακολούθηση της ιχθυοπανίδας και των υδρομορφολογικών παραμέτρων του ποταμού Ρήχιου σύμφωνα με την Οδηγία 2000/60/ΕΚ

Petriki, O., E. Gousia, D.C. Bobori. (2011). Weight–length relationships of 36 fish species from the River Strymon system (northern Greece). Journal of Applied Ichthyology 27: 939-941.

Triantafyllidis, A., D.C. Bobori, C. Koliamitra, E. Gbandi, M. Bandi, O. Petriki, N. Karaiskou. (2011). DNA barcoding analysis of fish species diversity in four North Greek lakes. Mitochondrial DNA 21(S2): 1-6.

Ζαμπούρ, Κατικαρίδης, Νικολοπούλου, 2009. Οικολογική ποιότητα υδάτων σε ε πίπεδο λεκάνης απορροής Ειδική περίπτωση μελέτης της λεκάνης απορροής της λίμνης Βόλβη

Βαβαλίδης & Κεσόγλου, 2011. Οικολογική ποιότητα υδάτων σε επίπεδο λεκάνης απορροής Περίπτωση μελέτης της λεκάνης του ρέματος της Απολλωνίας

Μπασδέκη, Ντισλίδου, Παπαχαραλάμπου 2011. Οικολογική ποιότητα υδάτων σ ε επίπεδο λεκάνης απορροής Περίπτωση λεκάνης στον ποταμό Κοσυνθο

Βαβαλίδης 2011. Εκτίμηση της οικολογικής ποιότητας των ρεμάτων Νέας Απολλ ωνίας και Μελισσουργού με βάση τα βενθικά μακροασπόνδυλα και τα ψάρια

Μπρόντερζεν, Οικονομίδης, Σιμελιάδου 2011. Οικολογική ποιότητα υδάτων σε ε πίπεδο λεκάνης απορροής Περίπτωση λεκάνης ποταμού Κομψάτου

Κωστινάκη, Ναυροζίδου 2011. Ειδική περίπτωση μελέτης του ποταμού Τράβου κ αι του παρόχθιου νοτιοδυτικού τμήματος της λίμνης Βιστωνίδας.

2.3 Range

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

2.3.1 Surface area - Range (km²)	17300
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: 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: 173 max: 173
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

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

2.5.1 Surface area - Habitat (km²)	17300
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 (km²)	0
2.5.10 Reason for change	

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
canalisation (J02.03.02)	low importance (L)	N/A
Discharges (E03)	low importance (L)	N/A
invasive non-native species (I01)	low importance (L)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	low importance (L)	N/A
sand and gravel quarries (C01.01.01)	low importance (L)	N/A
small hydropower projects, weirs (J02.05.05)	medium importance (M)	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

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

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
canalisation (J02.03.02)	low importance (L)	N/A
Discharges (E03)	low importance (L)	N/A
invasive non-native species (I01)	low importance (L)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	low importance (L)	N/A
sand and gravel quarries (C01.01.01)	medium importance (M)	N/A
small hydropower projects, weirs (J02.05.05)	medium importance (M)	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
reduction in migration/ migration barriers (J03.02.01)	low importance (L)	N/A
reduction in genetic exchange (J03.02.03)	low importance (L)	N/A
reduction or loss of specific habitat features (J03.01)	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	The % threshold could not be used for the assessment since: a) a different method for assessing range was employed, compared to the 2nd Reporting
2.8.2 Other relevant Information	1. A rather widespread loach, ranging from Strymon to Evros river basins,

	including Lakes Volvi. A common species, inhabiting various wetlands, lakes, springs and rivers with sandy or silty substrate. 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)

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	123	max	123
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	medium importance (M)	Inside	Enhance Long term