

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

NATIONAL LEVEL

1. General information

1.1 Member State	GR
1.2 Species code	5093
1.3 Species scientific name	<i>Barbus macedonicus</i>
1.4 Alternative species scientific name	
1.5 Common name (in national language)	Makedoniki Briana

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2015
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on extrapolation from a limited amount of data
2.5 Additional maps	Yes

3. Information related to Annex V Species (Art. 14)

3.1 Is the species taken in the wild/exploited?	No	
3.2 Which of the measures in Art. 14 have been taken?	a) regulations regarding access to property	No
	b) temporary or local prohibition of the taking of specimens in the wild and exploitation	No
	c) regulation of the periods and/or methods of taking specimens	No
	d) application of hunting and fishing rules which take account of the conservation of such populations	No
	e) establishment of a system of licences for taking specimens or of quotas	No
	f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens	No
	g) breeding in captivity of animal species as well as artificial propagation of plant species	No
	h) other measures	No

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3.3 Hunting bag or quantity taken in the wild for Mammals and Acipenseridae (Fish)

a) Unit

b) Statistics/ quantity taken	Provide statistics/quantity per hunting season or per year (where season is not used) over the reporting period					
	Season/ year 1	Season/ year 2	Season/ year 3	Season/ year 4	Season/ year 5	Season/ year 6
Min. (raw, ie. not rounded)						
Max. (raw, ie. not rounded)						
Unknown	No	No	No	No	No	No

3.4. Hunting bag or quantity taken in the wild Method used

3.5. Additional information

BIOGEOGRAPHICAL LEVEL

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

Mediterranean (MED)

4.2 Sources of information

Στεφανίδης, Α. (1934). Συμβολή εις την μελέτην των ιχθύων των γλυκών υδάτων της Ελλάδος. Πρακτικά της Ακαδημίας Αθηνών. Συνεδρία της 10ης Ιουνίου 1943, σελ. 200-210.

Οικονομίδης, Π.Σ. (1973). Κατάλογος των ιχθύων της Ελλάδος. "Ελληνική Ωκεανολογία και Λιμνολογία", Πρακτικά του Ινστιτούτου Ωκεαν. και Αλιευτ. Ερευνών, 11, σελ. 421-598.

Imaca, C. (1981). La collection de Barbus d'Europe du Museum national d'Histoire naturelle (Cyprinidae, Pisces). Bull. Mus. natn. Hist. nat., Paris, 4e ser., 3, section A, no1: 277-307.

Bianco, P.G. (1998). Diversity of Barbinae fishes in southern Europe with description of a new genus and a new species (Cyprinidae). Ital. J. Zool., Suppl. 65: 125-136.

Tsigenopoulos, C.S., Karakousis, Y. & Berrebi, P. (1999). The North Mediterranean Barbus lineage: phylogenetic hypotheses and taxonomic implications based on allozyme data. J. Fish Biol., 54: 267-286.

Zardoya, R. & Doadrio, I. (1999). Molecular evidence on the evolutionary and biogeographical patterns of European Cyprinids. J. Mol. Evol. 49: 227-237.

Tsigenopoulos, C.S. & Berrebi, P. (2000). Molecular phylogeny of north Mediterranean freshwater barbs (Genus Barbus: Cyprinidae) inferred from

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5.7 Long-term trend Direction		
5.8 Long-term trend Magnitude	a) Minimum	b) Maximum
5.9 Long-term trend Method used		
5.10 Favourable reference range	a) Area (km ²) b) Operator c) Unknown d) Method	Approximately equal to (≈) Basic assumption: Favourable Reference Range = Surface Area Range (current range)
5.11 Change and reason for change in surface area of range	No change The change is mainly due to:	
5.12 Additional information		

6. Population

6.1 Year or period	2015
6.2 Population size (in reporting unit)	a) Unit number of map 5x5 km grid cells (grids5x5) b) Minimum c) Maximum d) Best single value 178
6.3 Type of estimate	Best estimate
6.4 Additional population size (using population unit other than reporting unit)	a) Unit b) Minimum c) Maximum d) Best single value
6.5 Type of estimate	
6.6 Population size Method used	Based mainly on extrapolation from a limited amount of data
6.7 Short-term trend Period	2007-2018
6.8 Short-term trend Direction	Stable (0)
6.9 Short-term trend Magnitude	a) Minimum b) Maximum c) Confidence interval
6.10 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data
6.11 Long-term trend Period	
6.12 Long-term trend Direction	
6.13 Long-term trend Magnitude	a) Minimum b) Maximum c) Confidence interval
6.14 Long-term trend Method used	

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6.15 Favourable reference population (using the unit in 6.2 or 6.4)	a) Population size b) Operator Approximately equal to (≈) c) Unknown d) Method Basic assumption: Favourable Reference Population = value extracted from Additional Range Map
6.16 Change and reason for change in population size	No change The change is mainly due to:
6.17 Additional information	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.

7. Habitat for the species

7.1 Sufficiency of area and quality of occupied habitat	a) Are area and quality of occupied habitat sufficient (for long-term survival)? No b) Is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term survival)? Unknown
7.2 Sufficiency of area and quality of occupied habitat Method used	Based mainly on extrapolation from a limited amount of data
7.3 Short-term trend Period	2007-2018
7.4 Short-term trend Direction	Unknown (x)
7.5 Short-term trend Method used	Insufficient or no data available
7.6 Long-term trend Period	
7.7 Long-term trend Direction	
7.8 Long-term trend Method used	
7.9 Additional information	The surface area of the habitat is estimated at 4450 km ² and its quality is moderate.

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Hydropower (dams, weirs, run-off-the-river), including infrastructure (D02)	M
Active abstractions from groundwater, surface water or mixed water for agriculture (A30)	M
Modification of hydrological flow (K04)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	H
Physical alteration of water bodies (K05)	M
Threat	Ranking
Hydropower (dams, weirs, run-off-the-river), including	H

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infrastructure (D02)

Active abstractions from groundwater, surface water or mixed water for agriculture (A30) H

Modification of hydrological flow (K04) M

Physical alteration of water bodies (K05) M

Other human intrusions and disturbance not mentioned above (H08) M

Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (L05) M

8.2 Sources of information

PRESSURES: Mainly based on expert judgement and other data.
THREATS: Based on expert opinion.

8.3 Additional information

9. Conservation measures

9.1 Status of measures

- a) Are measures needed? No
- b) Indicate the status of measures

9.2 Main purpose of the measures taken

9.3 Location of the measures taken

9.4 Response to the measures

9.5 List of main conservation measures

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9.6 Additional information

10. Future prospects

10.1 Future prospects of parameters

- a) Range Good
- b) Population Good
- c) Habitat of the species Poor

10.2 Additional information

11. Conclusions

11.1. Range

Favourable (FV)

11.2. Population

Favourable (FV)

11.3. Habitat for the species

Unfavourable - Inadequate (U1)

11.4. Future prospects

Unfavourable - Inadequate (U1)

11.5 Overall assessment of Conservation Status

Unfavourable - Inadequate (U1)

11.6 Overall trend in Conservation Status

Unknown (x)

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11.7 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

No change

The change is mainly due to:

11.8 Additional information

12. Natura 2000 (pSCIs, SCIs and SACs) coverage for Annex II species

12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

12.2 Type of estimate

12.3 Population size inside the network Method used

12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

13.1 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 Period or b) no data were reported in the 2nd Reporting Period

13.2 Trans-boundary assessment

13.3 Other relevant Information

1. A rheophilic species found in Thessalian Pinios, Aliakmon, Loudias and Axios river basins. It inhabits deeper river sections and certain reservoirs (e.g. Polyphytos dam lake). Migrates during spawning and may therefore be impacted by any barriers to fish movement (dams, wiers, etc).
2. Basic Assumptions:
 - i) "Surface Area Range" (field 5.1) = value extracted from "Range Map" (field 2.5).
 - ii) "Favourable Reference Range" (field 5.10a) = a) "Surface Area Range" (field 5.1) 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 6.2 or 6.4) = value extracted from "Distribution Map" (field 2.3) or "Additional Distribution Map" (field 2.5) (when provided).
 - iv) "Favourable Reference Population" (field 6.15a) = a) "Population Size" (field

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6.2 or 6.4) 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 7.9) = "Distribution Map" (field 2.3) or "Additional Distribution Map" (field 2.5) (when provided).