

# 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                        | 2483                           |
| 1.3 Species scientific name             | <i>Eudontomyzon hellenicus</i> |
| 1.4 Alternative species scientific name |                                |
| 1.5 Common name (in national language)  | Gkavochelo                     |

### 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 expert opinion with very limited 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/<br>quantity taken | Provide statistics/quantity per hunting season or per year (where season is not used) over the reporting period |                   |                   |                   |                   |                   |
|----------------------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                  | Season/<br>year 1   | Season/<br>year 2 | Season/<br>year 3 | Season/<br>year 4 | Season/<br>year 5 | Season/<br>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

Vladykov, V.D., Renaud, C.B., Kott, E. & Economidis, P. (1982). A new nonparasitic species of Holarctic lamprey, genus *Eudontomyzon* Regan 1911 (*Petromyzontidae*) from Greece. *Can. J. Zool.*, 60: 2897-2915.

Economidis, P.S. (1995). Endangered freshwater fishes of Greece. In: *Endemic Freshwater Fishes of N. Mediterranean region*. *Biol. Conserv.*, 72 (2) : 201-211. O

ικονόμου, Α., Μπαρμπιέρι, Ρ., Νταουλός, Χ., Ψαρράς, Θ., Στουμπούδη, Μ., Μπερταχάς, Η., Γιακουμή, Σ. & Πατσιάς, Α. (1999). Απειλούμενα ενδημικά είδη ψαριών του γλυκού νερού της Δυτικής Ελλάδας και Πελοποννήσου - κατανομή, αφθονία, κίνδυνοι και μέτρα προστασίας. ΕΚΘΕ (πρόγραμμα ΠΕΝΕΔ), σελ. 341 και 4 Παραρτήματα.

### 5. Range

5.1 Surface area

114

5.2 Short-term trend Period

2007-2018

5.3 Short-term trend Direction

Stable (0)

5.4 Short-term trend Magnitude

a) Minimum

b) Maximum

5.5 Short-term trend Method used

Based mainly on expert opinion with very limited data

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

a) Minimum

b) Maximum

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## 5.9 Long-term trend Method used

### 5.10 Favourable reference range

- a) Area (km<sup>2</sup>)
- b) Operator Approximately equal to (≈)
- c) Unknown
- d) Method Basic assumption: Favourable Reference Range = Surface Area Range (current range)

### 5.11 Change and reason for change in surface area of range

- Improved knowledge/more accurate data
- Use of different method
- The change is mainly due to: Improved knowledge/more accurate data

## 5.12 Additional information

## 6. Population

### 6.1 Year or period

2015

### 6.2 Population size (in reporting unit)

- a) Unit number of map 1x1 km grid cells (grids1x1)
- b) Minimum
- c) Maximum
- d) Best single value 114

### 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 expert opinion with very limited data

### 6.7 Short-term trend Period

2007-2018

### 6.8 Short-term trend Direction

Unknown (x)

### 6.9 Short-term trend Magnitude

- a) Minimum
- b) Maximum
- c) Confidence interval

### 6.10 Short-term trend Method used

Insufficient or no data available

### 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

### 6.15 Favourable reference population (using the unit in 6.2 or 6.4)

- a) Population size
- b) Operator Approximately equal to (≈)
- c) Unknown

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## d) Method

Basic assumption: Favourable Reference Population = value extracted from Additional Range Map

### 6.16 Change and reason for change in population size

Improved knowledge/more accurate data  
Use of different method  
The change is mainly due to:

### 6.17 Additional information

Few samples, 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 expert opinion with very limited 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 114 km<sup>2</sup> and its quality is bad.

## 8. Main pressures and threats

### 8.1 Characterisation of pressures/threats

| Pressure   | Ranking |
|--|---------|
| Deposition and treatment of waste/garbage from household/recreational facilities (F09)     | M       |
| Deposition and treatment of waste/garbage from commercial and industrial facilities (F10)  | M       |
| Physical alteration of water bodies (K05)  | H       |
| Other human intrusions and disturbance not mentioned above (H08)                           | H       |
| Extraction of minerals (e.g. rock, metal ores, gravel, sand, shell) (C01)                  | H       |
| Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01)         | H       |
| Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01) | M       |
| Drainage for use as agricultural land (A31)  | H       |

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| Threat   | Ranking |
|--|---------|
| Deposition and treatment of waste/garbage from household/recreational facilities (F09)     | M       |
| Deposition and treatment of waste/garbage from commercial and industrial facilities (F10)  | M       |
| Physical alteration of water bodies (K05)  | H       |
| Other human intrusions and disturbance not mentioned above (H08)                           | H       |
| Extraction of minerals (e.g. rock, metal ores, gravel, sand, shell) (C01)                  | H       |
| Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01)         | H       |
| Drainage for use as agricultural land (A31)  | M       |
| Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01) | H       |

## 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? Yes
- b) Indicate the status of measures Measures identified, but none yet taken

## 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

Restore habitats impacted by multi-purpose hydrological changes (CJ03)

Reduce impact of multi-purpose hydrological changes (CJ02)

Reduce impact of other specific human actions (CH03)

Adapt/manage extraction of non-energy resources (CC01)

Habitat restoration/creation from resources, exploitation areas or areas damaged due to installation of renewable energy infrastructure (CC07)

Reduce impact of mixed source pollution (CJ01)

Habitat restoration of areas impacted by transport (CE06)

Manage drainage and irrigation operations and infrastructures in agriculture (CA15)

## 9.6 Additional information

# 10. Future prospects

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|                                     |                           |         |
|-------------------------------------|---------------------------|---------|
| 10.1 Future prospects of parameters | a) Range                  | Good    |
|                                     | b) Population             | Unknown |
|                                     | c) Habitat of the species | Bad     |

10.2 Additional information

## 11. Conclusions

|   |   |
|---|---|
| 11.1. Range   | Favourable (FV)   |
| 11.2. Population  | Unknown (XX)  |
| 11.3. Habitat for the species   | Unfavourable - Bad (U2)   |
| 11.4. Future prospects  | Unfavourable - Bad (U2)   |
| 11.5 Overall assessment of Conservation Status  | Unfavourable - Bad (U2)   |
| 11.6 Overall trend in Conservation Status   | Unknown (x)   |
| 11.7 Change and reasons for change in conservation status and conservation status trend | a) Overall assessment of conservation status<br>No change<br>The change is mainly due to:<br><br>b) Overall trend in conservation status<br>No change<br>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   | number of map 1x1 km grid cells (grids1x1) |
|   | b) Minimum  |  |
|   | c) Maximum  |  |
|   | d) Best single value  | 84   |
| 12.2 Type of estimate   | Best estimate   |  |
| 12.3 Population size inside the network Method used   | Based mainly on extrapolation from a limited amount of data   |  |
| 12.4 Short-term trend of population size within the network Direction   | Unknown (x)   |  |
| 12.5 Short-term trend of population size within the network Method used   | Insufficient or no data available   |  |
| 12.6 Additional information   | Species for which either new Natura sites have been designated or former ones have been expanded to cover a bigger part of their populations. The change in 12.1 (in comparison to the previous report) is mainly due to the recent update of the Greek Natura 2000 Database (extended areas of current Natura 2000 sites and newly proposed SCIs) and also (in cases of absent data or |  |

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mandatory population unit 1x1 grid) to a different approach/method used for the calculation of the population size in GIS.

## 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. Although specimen were found in several spots, the species was not found in streams and dikes, where it was known to be present in the past. However, these streams and dikes have been heavily modified since then.

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 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).

3. Population assessment took into account, besides Favourable Reference Population (grid), population structure and reproduction trends. In several samplings, in habitat areas favoring the species, only very few specimens (ammocoetes) were sampled.