# 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 | **1150** |
| 0.2.2 Species name | **Silurus aristotelis** |
| 0.2.3 Alternative species scientific name | N/A |
| 0.2.4 Common name | Glanidi |

## 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


Iliadou, K. & Rackham, B.D. (1990). The chromosomes of a catfish Parasilurus aristotelis from Greece. Japanese Journal of Ichthyology, 37 (2): 144-148. Systematics and Ecology 27 (5): 487-498.

Triantafyllidis, A., Abatzopoulos, TJ., Leonardos, J. & Guyomard, R. (2002). Microsatellite analysis of the genetic population structure of native and translocated Aristotle's catfish (Silurus aristotelis). Aquat. Living Resour. 15: 351-359.

Ηλιάδου, Κ. & Όντριας, Ι. (1986). Βιολογία και μορφολογία του ιχθύος Parasilurus aristotelis (Agassiz 1856) (Pisces, Cypriniformes, Siluridae) των λιμνών Λυσιμαχίας και Τριχωνίδας της Δυτ. Στερεάς Ελλάδας. Biologia Gallo-Hellenica, 11 (2): 207-238.

Ηλιάδου, Κ. (1986). Υπολογισμός του σωματικού μεγέθους των ιχθυοθηραμάτων του Parasilurus aristotelis (Agassiz 1856) (Pisces, Cypriniformes, Siluridae) των λιμνών Λυσιμαχίας και Τριχωνίδας της Δυτ. Στερεάς Ελλάδας. Biologia Gallo-Hellenica, 11 (2): 193-206.

Οικονόμου, Α.Ν., Νταουλάς, Χ., Μπαρμπιέρι-Τσελίκη, Ρ. & Ψαρράς, Θ. (1993). Πρώτα στάδια ζωής του Silurus aristotelis (Agassiz, 1856) στη λίμνη Τριχωνίδα. Πρακτικά 4ου Πανελλήνιου Συμποσίου Ωκεανογραφίας και Αλιείας, Ρόδος, 26-29 Απριλίου, σελ. 291-294.

Leonardos, I., Kagalou, I. & Triantafyllidis, A. (2007). Threatened fishes of the world: Silurus aristotelis (Agassiz, 1856)(Siluridae) .Environmental Biology of Fishes, 78: 285-286.


### 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) | 1025 | | |
| 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 | Improved knowledge/more accurate dataUse of different method | | |

## 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 | 41 | max 41 |
| 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 Additional Range Map | |
| 2.4.15 Reason for change | Improved knowledge/more accurate data Use of different method | | |

## 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) | 1025 |
| 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 | Unknown |
| 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 | unknown (x) |
| 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 | Improved knowledge/more accurate data Use of different method |

## 2.6 Main Pressures

| Pressure | ranking | pollution qualifier(s) |
|---|---|---|
| invasive non-native species (I01) | high importance (H) | N/A |
| large scale water deviation (J02.03.01) | medium importance (M) | N/A |
| modifying structures of inland water courses (J02.05.02) | medium importance (M) | N/A |
| surface water abstractions for agriculture (J02.06.01) | low importance (L) | N/A |
| Discharges (E03) | low importance (L) | N/A |
| canalisation (J02.03.02) | low importance (L) | N/A |

| | |
|---|---|
| 2.6.1 Method used – pressures | based only on expert judgements (1) |

## 2.7 Main Threats

| Threat | ranking | pollution qualifier(s) |
|---|---|---|
| large scale water deviation (J02.03.01) | medium importance (M) | N/A |
| modifying structures of inland water courses (J02.05.02) | medium importance (M) | N/A |
| surface water abstractions for agriculture (J02.06.01) | low importance (L) | N/A |
| canalisation (J02.03.02) | 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. Basic Assumptions:<br>i) "Surface Area Range" (field 2.3.1) = value extracted from "Range Map" (field 1.1.5).<br>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.<br>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).<br>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.<br>V) Habitat "Area Estimation" (field 2.5.1) = "Distribution Map" (field |

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

| | |
|---|---|
| | 1.1.1) or "Additional Distribution Map" (field 1.1.4) (when provided).<br>2. Silurus aristotelis is known to be confined to the lower Acheloos river basin, including the main river channel, adjacent lakes, canals and wetlands; its presence in the Kastraki reservoir as well as further upstream (GR2110006) has not been confirmed in recent samplings. It is best to promote a precautionary approach and not include the species distribution in this reservoir, without further sampling. Therefore,the species range and distribution do not include the particular site. |
| 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 | Unknown (XX) |
| | qualifiers | N/A |
| 2.9.4. Future prospects | assessment | Favourable (FV) |
| | 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 5x5 km grid cells (grids5x5) | | |
| | min | 34 | max | 34 |
| 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 |
|---|---|---|---|---|
| Legal protection of habitats and species (6.3) | Legal | high importance (H) | Both | Maintain |
| Establish protected areas/sites (6.1) | Legal<br>Administrative<br>One-off | low importance (L) | Inside | Maintain<br>Long term |