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	**1150**
1.3 Species scientific name	**Silurus aristotelis**
1.4 Alternative species scientific name	
1.5 Common name (in national language)	Glanidi

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

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.

5. Range

5.1 Surface area	1025	
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 extrapolation from a limited amount of data	
5.6 Long-term trend Period		
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 (km²)	
	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	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	41
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)	

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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		
6.15 Favourable reference population (using the unit in 6.2 or 6.4)	a) Population size b) Operator c) Unknown d) Method	 Approximately equal to (≈) 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)? 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	Insufficient or no data available	
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 1025 km2 and its quality is unknown.	

8. Main pressures and threats

8.1 Characterisation of pressures/threats

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Pressure	Ranking
Other invasive alien species (other then species of Union concern) (I02)	H
Physical alteration of water bodies (K05)	M
Modification of hydrological flow (K04)	M
Freshwater fish and shellfish harvesting (professional) (G05)	M
Hydropower (dams, weirs, run-off-the-river), including infrastructure (D02)	M

Threat	Ranking
Physical alteration of water bodies (K05)	M
Modification of hydrological flow (K04)	M
Freshwater fish and shellfish harvesting (professional) (G05)	M
Hydropower (dams, weirs, run-off-the-river), including infrastructure (D02)	M

8.2 Sources of information

PRESSURES: Based only on expert judgements.
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 Unknown

10.2 Additional information

11. Conclusions

11.1. Range Favourable (FV)

11.2. Population Favourable (FV)

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11.3. Habitat for the species	Unknown (XX)
11.4. Future prospects	Favourable (FV)
11.5 Overall assessment of Conservation Status	Favourable (FV)
11.6 Overall trend in Conservation Status	Stable (=)
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 Use of different method The change is mainly due to: Use of different method
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 5x5 km grid cells (grids5x5)
	b) Minimum	
	c) Maximum	
	d) Best single value	35
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	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 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. 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).
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.