

# 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	1117
0.2.2 Species name	Ladigesocypris ghigii
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	Gkizani

## 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

Stoumboudi, M.Th., Barbieri, R., Mamuris, Z., Corsini-Foka, M. J. & Economou, A. N. (2002). Threatened fishes of the world: *Ladigesocypris ghigii* (Gianferrari, 1927) (Cyprinidae). *Environmental Biology of Fishes* 65, p. 340.

Stoumboudi M.Th. & Cowx I.G. (2003). Action Plan for the endangered fish gizani (*Ladigesocypris ghigii*), endemic to the Island of Rhodes. National Centre for Marine Research publ., 50 p.

Stoumboudi M.Th., Corsini Foka M. & R. Barbieri (2004). "Gizani" (*Ladigesocypris ghigii*), the endangered endemic freshwater fish of Rhodes Island and its conservation through a Life-Nature project. In Masseti M. (ed.) "Island of Deer. Natural history of the fallow deer of Rhodes and the vertebrates of the Dodecanese (Greece)". City of Rhodes, Environment Organization. Chapter 6: 59-62 pp.

Mamuris Z., Stoumboudi M. Th., Stamatis C., Barbieri R. & Moutou K. A. (2005). Genetic variation in populations of the endangered fish *Ladigesocypris ghigii* and its implications for conservation. *Freshwater Biology* 50, 1441-1453.

Kottelat M. & Freyhof J. (2007). Handbook of European freshwater fishes. Publications Kottelat, Cornol, Switzerland.

Economidis, P.S. & Chrysopolitou V. (2009). *Ladigesocypris ghigii*. In Red Data Book of threatened Animals of Greece. Legakis A. & Maragou P. (eds). Hellenic Zoological Society, Athens.

### 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 (km <sup>2</sup> )	925
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 (km <sup>2</sup> ) operator approximately equal to (≈) unknown No method Basic assumption: Favourable Reference Range = Surface Area Range (current range)
2.3.10 Reason for change	Improved knowledge/more accurate data Use 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 37 max 37
2.4.3 Additional information	Definition of locality Conversion method Problems Few samples, making it difficult to extrapolate individuals or classes 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

2.5.1 Surface area - Habitat (km <sup>2</sup> )	925
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	Moderate
2.5.4 b) Quality of habitat - method	Based on partial data with some extrapolation and expert judgment.

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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 (km <sup>2</sup> )	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)
sand and gravel quarries (C01.01.01)	medium importance (M)	N/A
Discharges (E03)	low importance (L)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
large scale water deviation (J02.03.01)	high importance (H)	N/A
small hydropower projects, weirs (J02.05.05)	high importance (H)	N/A
surface water abstractions for agriculture (J02.06.01)	high importance (H)	N/A
reduction in migration/ migration barriers (J03.02.01)	high importance (H)	N/A
modifying structures of inland water courses (J02.05.02)	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)
sand and gravel quarries (C01.01.01)	medium importance (M)	N/A
Discharges (E03)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
large scale water deviation (J02.03.01)	high importance (H)	N/A
small hydropower projects, weirs (J02.05.05)	high importance (H)	N/A
surface water abstractions for agriculture (J02.06.01)	high importance (H)	N/A
reduction in migration/ migration barriers (J03.02.01)	high importance (H)	N/A
modifying structures of inland water courses (J02.05.02)	medium importance (M)	N/A

2.7.1 Method used – threats expert opinion (1)

## 2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

The % threshold could not be used for the assessment since: a) a different method for assessing range was employed, compared to the 2nd Reporting

- This species survives in the highly unstable environment of the island's small streams, which may flood during winter, but dry up for most of their length during the dry season. It particularly inhabits slow-flowing river stretches and spring areas. Populations are very fragmented and vulnerable despite recent discoveries of formerly unknown populations.
- Basic Assumptions:
  - "Surface Area Range" (field 2.3.1) = value extracted from "Range Map" (field 1.1.5).
  - "Favourable Reference Range" (field 2.3.9a) = a) "Surface Area Range" (field 2.3.1) OR b) value extracted from "Additional Reference

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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 Inadequate (U1) qualifiers stable (=)
2.9.4. Future prospects	assessment Inadequate (U1) qualifiers stable (=)
2.9.5 Overall assessment of Conservation Status	Inadequate (U1)
2.9.5 Overall trend in Conservation Status	stable (=)

## 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	22
	max	22
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	stable (0)	

### 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	Enhance