

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	1355
1.3 Species scientific name	Lutra lutra
1.4 Alternative species scientific name	
1.5 Common name (in national language)	Vidra

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2015
2.3 Distribution map	Yes
2.4 Distribution map Method used	Complete survey or a statistically robust estimate
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

1)Bousbouras D. & B. Hallmann 1999. The presence of the otter (*Lutra lutra*) in the former lake Karla (Thessalia, Greece). Newsletter Hellenic Zoological Society, Vol. 31, pp 9 -10.

2)Bousbouras D. (Project Leader) 1999. Special Environmental Study for Grammos & NW Voio. LIFE-NATURE «ARCTOS - second phase» ARCTUROS. Thessaloniki Vol A 324 p.

3)Bousbouras D. 1996b. Otter. In: Tsiouris S. (Project Leader) 1996. Specific management Plan for the site Limnes Cheimaditida – Zazari (GR1340005). EKBY Thermi. 212 p.

4)Bousbouras D. 1996α. Otter. In: Koutrakis M. (Project Leader) 1996. Specific management Plan for the site Stena Nestou (GR1120004). EKBY Thermi. 229p.

5)Bousbouras D. 2001. Otter range and food habits at the lakes Himaditida, Zazari, Petron, Vegoritida and Kastoria. EVS EU, Arcturos.

6)Conroy, J.W.H. & Chanin P.R.F., 2000. The status of the Eurasian otter (*Lutra lutra*) in Europe—a review. Proceedings of the First Otter Toxicology Conference Edited by J. W.H. Conroy, P. Yoxon. 1:7-28.

7)de Smet, K. and Lymberakis, P. 2003. Eurasian Otters (*Lutra lutra*) in Crete?!. IUCN Otter Spec. Group Bull. 20(1): 72.

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- 8) Delaki, E.-E., Kotzageorgis, G., Vassiliki, I. and Stamopoulos, A., 1988. A Study of Otters in Lake Mikri Prespa, Greece IUCN Otter Spec. Group Bull.
- 9) Douma-Petridou, E., 1984. Dental inclinations and skull deformations on specimens of the family Mustelidae from Greece. *Biologia Gallo-Hellenica*, 11(1):129-132.
- 10) Foster-Turley, P., Macdonald, S. & Mason C. (Eds.). 1990. Otters: An action plan for their conservation. Otter Specialist Group/ IUCN
- 11) Gaethlich, M., 1988. Otters in Western Greece and Corfu. IUCN Otter Spec. Group Bull. 3: 17–23
- 12) Gourvelou E. 1993. Winter diet of the Otter *Lutra lutra* and its population status in the lake Kerkini. 63 pp. MAICH.
- 13) Gourvelou, E., Papageorgiou, N., Neophytou, C., 2000. Diet of the otter *Lutra lutra* in lake Kerkini and stream Milli-Aggistro, Greece. *Acta Theriologica*, 45(1): 35-44.
- 14) IUCN 2008. *Lutra lutra*. In: IUCN 2013. IUCN Red List of Threatened Species. Version 2013.2. <www.iucnredlist.org> (<http://maps.iucnredlist.org/map.html?id=12419>).
- 15) Macdonald S. M. & C.F. Mason 1984. The otter. *Φύσις* 27 : 28 – 33.
- 16) Macdonald, S.M. & Mason, C.F. 1994. Status and conservation needs of the otter (*Lutra lutra*) in the Western Palearctic. Council of Europe, Strasbourg.
- 17) Macdonald, S.M. & Mason, C.F., 1982. Otters in Greece (*Lutra lutra*). *Oryx*, 16(3): 240-244.
- 18) Macdonald, S.M. & Mason, C.F., 1985. Otters, their Habitat and Conservation in Northeast Greece. *Biological Conservation*, 31(3): 191-210.
- 19) Mitchell-Jones, A.J., Amori, G., Bogdanowicz, W., Krystufek, B., Reijnders, P.J.H., Spitzenberger, F., Stubbe, M., Thissen, J.B.M., Vohralik, V., Zima, J., 1999. *The Atlas of European Mammals*. Academic Press, London, UK.
- 20) Ruiz-Olmo, J., 2006. The Otter (*Lutra lutra* L.) on Corfu Island (Greece): Situation in 2006 IUCN Otter Spec. Group Bull. 23(1): 17-25.
- 21) Urban, P. 1998. Eurasian otter (*Lutra lutra* L.) in the North – Western Greece – contribution to distribution, limiting factors and conservation measures. *Vydra*, 8: 44-47
- 22) Λεγάκις Α. & Μαραγκού Π. (επιμ.), 2009. Το Κόκκινο Βιβλίο των Απειλούμενων Ζώων της Ελλάδας. Ελληνική Ζωολογική Εταιρεία.
- 23) Μπουρδάκης Σ., Γιαννάτος Γ. & Μπούσμπουρας Δ. 2008. Παρακολούθηση της πανίδας της προστατευόμενης περιοχής Οικολογικού Πάρκου Πάρνωνα – Υγρότοπου Μουστού. Φορέας Διαχείρισης Οικολογικού Πάρκου Πάρνωνα - Υγρότοπου Μουστού. Επιχειρησιακό Πρόγραμμα «Περιβάλλον». Σελ. 164.

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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 expert opinion with very limited 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	1500 with unit number of map 5x5 km grid cells (grids5x5)
	b) Operator	
	c) Unknown	
	d) Method	Expert judgement.
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: Improved knowledge/more accurate data	
6.17 Additional information	To estimate the population a range of values is given, approximating the number of cells deriving from selection of 5X5 grid cells overlapping with water bodies inside the current distribution of the species. The population size in 6.2.d has been calculated in GIS using spatial information from the distribution data (10x10 km or smaller grids if additional data were available). Following the conversion of the available data in 1x1 km grid unit, marine or terrestrial grid cells have been deleted and thus excluded from the calculation, depending on the biogeographical region where the species occurs (MED or MMED, respectively).	

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)?	Yes
	b) Is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term survival)?	
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	Increasing (+)	
7.5 Short-term trend Method used	Based mainly on expert opinion with very limited data	

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7.6 Long-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

The quality of the surface area of the habitat is good.

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	M
Abstraction of water, flow diversion, dams and other modifications of hydrological conditions for freshwater aquaculture (G20)	M
Conversion from other land uses to housing, settlement or recreational areas (excluding drainage and modification of coastline, estuary and coastal conditions) (F01)	M
Poisoning of animals (excluding lead poisoning) (G13)	M
Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01)	M
Threat	Ranking
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal harvesting, collecting and taking (G11)	M
Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01)	M
Abstraction of water, flow diversion, dams and other modifications of hydrological conditions for freshwater aquaculture (G20)	M
Poisoning of animals (excluding lead poisoning) (G13)	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

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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	Good

10.2 Additional information

11. Conclusions

11.1. Range Favourable (FV)

11.2. Population Favourable (FV)

11.3. Habitat for the species Favourable (FV)

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
No change
The change is mainly due to:

11.8 Additional information

Improving trend in range and habitat area is due to improving / expanding research (field sampling) which leads to inventory of new occurrences of the species. In fact the habitat of the species is considered to be stable (water intake and gaps created on the river bed by dams can reduce the habitat area).

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	14887

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

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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

13.2 Trans-boundary assessment

13.3 Other relevant Information