

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

0.1 Member State	IT
0.2.1 Species code	1184
0.2.2 Species name	Hydromantes imperialis
0.2.3 Alternative species scientific name	Speleomantes imperialis
0.2.4 Common name	Geotritone imperiale

1. National Level

1.1 Maps

1.1.1 Distribution Map	Yes
1.1.1a Sensitive species	No
1.1.2 Method used - map	Complete survey/Complete survey or a statistically robust estimate (3)
1.1.3 Year or period	2000-2012
1.1.4 Additional map	No
1.1.5 Range map	Yes

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

2.2 Published sources

Mediterranean (MED)

The present species assessment (fields 0.1-2.9) has been compiled by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco (Societas Herpetologica Italica). Information, unpublished data and experts' judgments have been provided by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco.

Carranza, S., Romano, A., Arnold, N., Sotgiu, G. 2008: Biogeography and evolution of European cave salamanders, *Hydromantes* (Urodela: Plethodontidae) inferred from mtDNA sequences. *J. Biogeogr.* 35: 724-738.

Chiari Y, van der Meijden A, Mucedda M, Lourenc,o JM, Hochkirch A, et al. 2012. Phylogeography of Sardinian Cave Salamanders (Genus *Hydromantes*) is mainly determined by geomorphology. *PLoS ONE* 7(3): e32332.

De Pous P., Speybroeck J., Bogaerts S., Pasmans F., Beukema W. 2012. A contribution to the atlas of the terrestrial herpetofauna of Sardinia. *Herpetology Notes*, volume 5: 391-405

Lanza B., Leo P., Forti G., Cimmaruta R., Caputo V., Nascetti, G. 2001. Descrizione preliminare dello *Speleomantes imperialis sarabusensis* subsp. n. (Amphibia: Caudata: Plethodontidae) (pp. 83-84). [In: Barbieri F., Bernini F. & Fasola M. (eds); *Atti 3° Congresso Nazionale Societas Herpetologica Italica* (Pavia, 14-16 settembre 2000)]. Pianura, Cremona 13: 360 pp.

Lanza, B., Pastorelli, C., Laghi, P., Cimmaruta, R., 2007. Famiglia Plethodontidae Gray, 1859, In *Fauna d'Italia*, Vol. XLII: Amphibia. eds B. Lanza, F. Andreone, M.A. Bologna, C. Corti, E. Razzetti, pp. 141-174. Calderini, Bologna.

Regione Autonoma della Sardegna - Assessorato Difesa Ambiente - 2008-2009. "Realizzazione del sistema di monitoraggio dello stato di conservazione degli habitat e delle specie di interesse comunitario della Regione Autonoma della Sardegna".

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Regione Autonoma della Sardegna - Assessorato Difesa Ambiente , 2012 -
"Servizio di monitoraggio dello stato di conservazione degli habitat e delle specie di importanza comunitaria presenti nei siti della Rete Natura 2000 in Sardegna –
Linea 4. Redazione del Rapporto sullo stato di conservazione degli habitat e delle specie ".

Rondinini, C., Battistoni, A., Peronace, V., Teofili, C. (compilatori). 2013. Lista Rossa IUCN dei Vertebrati Italiani. Comitato Italiano IUCN e Ministero dell'Ambiente, del Territorio e del Mare, Roma.

2.3 Range

2.3.1 Surface area - Range (km ²)	3700
2.3.2 Method - Range surface area	Complete survey/Complete survey or a statistically robust estimate (3)
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 ²) operator approximately equal to (≈) unknown No method Expert judgement
2.3.10 Reason for change	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 10x10 km grid cells (grids10x10) min 18 max 18
2.4.3 Additional information	Definition of locality Conversion method Problems
2.4.4 Year or period	2000-2012
2.4.5 Method – population size	Complete survey/Complete survey or a statistically robust estimate (3)
2.4.6 Short-term trend period	2001-2012
2.4.7 Short term trend direction	unknown (x)
2.4.8 Short-term trend magnitude	min max confidence interval
2.4.9 Short-term trend method	Absent data (0)
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 N/A unknown Yes method Expert judgement
2.4.15 Reason for change	Improved knowledge/more accurate data

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2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km ²)	
2.5.2 Year or period	2000-2012
2.5.3 Method used - habitat	Absent data (0)
2.5.4 a) Quality of habitat	Good
2.5.4 b) Quality of habitat - method	the interstitial habitats where it live are present through the species range
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 ²)	
2.5.10 Reason for change	Improved knowledge/more accurate data

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
collection of animals (insects, reptiles, amphibians.....) (F03.02.01)	medium importance (M)	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)
collection of animals (insects, reptiles, amphibians.....) (F03.02.01)	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	Following recent genetic studies, the populations in the south-eastern part of Sardinia (Sette Fratelli) are now considered to belong to a separated species: <i>Speleomantes sarrabusensis</i> (Carranza et al., 2008; Lanza et al., 2001). Previously these were regarded as belonging to <i>Speleomantes imperialis</i> .
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 Unknown (XX) qualifiers N/A
2.9.3. Habitat	assessment Favourable (FV) 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

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3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

3.1.1 Population Size	Unit	N/A
	min	max

3.1.2 Method used	Absent data (0)
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3.1.3 Trend of population size within	N/A
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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 Administrative	high importance (H)	Both	Maintain Not evaluated