

Speleomantes supramontis

Taxonomic Authority: (Lanza, Nascetti and Bullini, 1986)

Synonyms:

Region: 10

Common Names:

geotritone del Supramonte Italian
Supramonte Cave Salamander English

Order: Caudata

Family: Plethodontidae

Notes on taxonomy:

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

The species is reported by Gasc, et al. (1997) to be "endemic to the Central-Eastern Sardinia around the Gulf of Orosei, occurring roughly between the valley of the Cedrino River and 40°N (province of Nuoro)". It is found at altitudes between 100 and 1,360m asl.

Habitat and Ecology Information:

The species is found in humid rocky outcrops, limestone caves, crevices, and forested areas with a good growth of moss in the vicinity of streams. It reproduces through the direct development of a few terrestrial eggs.

Conservation Measures:

The species is listed on Appendix II of the Berne Convention, and it is also listed on Annexes II and IV of the EU Natural Habitats Directive. The species has been recorded from the Parco Nazionale Gennargentu e Golfo di Orosei.

Threats:

It is generally threatened by localised habitat loss through agriculture and wood extraction. Further research into the threats leading to the recent decline in this species is needed.

Species population information:

Although the species has often been considered to be common within suitable habitat, it recently appears to have become more rare and more difficult to observe in its limited range (R. Lecis pers. comm.)

Country Distribution

Italy

FAO Marine Habitats

Native - Presence Confirmed Native - Presence Possible Extinct Reintroduced Introduced

Major Lakes

Major Rivers

Upper Level Habitat Preferences

	Score
1.4 Forest - Temperate	1
6 Rocky areas (eg. inland cliffs, mountain peaks)	1
7.1 Caves and Subterranean Habitats (non-aquatic) - Caves	1
7.2 Caves and Subterranean Habitats (non-aquatic) - Other Subterranean Habitats	1

Lower Level Habitat Preferences

	Score
Forest and Field	9
Mediterranean Scrub	9
Mixed Forest	1

Major threats

Code	Description of threat	Past	Present	Future
1	Habitat Loss/Degradation (human induced)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1	Agriculture	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1.1	Crops	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1.1.2	Small-holder farming	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1.1.3	Agro-industry farming	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3	Extraction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3.3	Wood	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3.3.2	Selective logging	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3.3.3	Clear-cutting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4	Infrastructure development	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4.2	Human settlement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4.3	Tourism/recreation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	Intrinsic factors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9.2	Poor recruitment/reproduction/regeneration	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Conservation Measures

Code	Conservation measures	In place	Needed
1	Policy-based actions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2	Legislation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.1	Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.1.1	International level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.2	Implementation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.2.1	International level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Research actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.2	Population numbers and range	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.4	Habitat status	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.5	Threats	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.8	Conservation measures	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.9	Trends/Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Habitat and site-based actions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4.1	Maintenance/Conservation	<input type="checkbox"/>	<input checked="" type="checkbox"/>

9.9	Restricted range	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4.4	Protected areas	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					4.4.1	Identification of new protected areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					4.4.2	Establishment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					4.4.3	Management	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Utilisation of Species

Purpose/Type of Use	Subsistence	National	International	Other purpose:
Primary forms removed from the wild	100%	>75%	51-75%	26-50% <25% <i>Other forms removed from the wild:</i>
Source of specimens in commercial trade	100%	>75%	51-75%	26-50% <25% <i>Other source of specimens:</i>
Trend in wild offtake/harvest in relation to total wild population numbers over last five years:				
Trend in offtake/harvest produced through domestication/cultivation over last five years:				
CITES: Not listed				

Red Listing

Red List Assessment: Endangered (EN) Possibly Extinct

Red List Criteria: B1ab(iii,v)

Rationale for the Red List Assessment: Listed as Endangered because its Extent of Occurrence is less than 5,000 km², it is known from fewer than five locations, and there is observed continuing decline in the extent and quality of its habitat and the number of mature individuals.

Current Population Trend: Decreasing **Date of Assessment:** 12/17/2004

Assessor(s): Franco Andreone, Roberta Lecis, Paul Edgar, Claudia Corti

Notes on Red listing:

Bibliography

- Arnold, E.N., 2003, , , Reptiles and amphibians of Europe, , , 288, Princeton University Press,
- Nascetti, G., Cimmaruta, R., Lanza, B. and Bullini, L., 1996, Molecular taxonomy of European Plethodontid Salamanders (Genus Hydromantes), Journal of Herpetology, , , 30(2), 161-183, ,
- Nardi, I., 1991, Cytogenetics of the European plethodontid salamanders, genus Hydromantes, , Amphibian cytogenetics and evolution, Green, D.M. and Sessions, S.K., , 131-156, Academic Press, San Diego
- Thorn, R., 1968, Les Salamandres d'Europe, d'Asia, et d'Afrique du Nord, , , , 376 pp, Éditions Paul Lechevalier, Paris
- Lanza, B. and Corti, C., 1993, Erpetofauna Italiana 'Aquisizioni' ed estinzioni nel corso del Novecento, Suppl. Ric. Biol. Selvaggina, , , 21, 5-49, ,
- Lanza, B., Nascetti, G. and Bullini, L., 1986, A new species of Hydromantes from eastern Sardinia and its genetic relationships with the other Sardinian plethodontids (Amphibia: Urodela), Bollettino del Museo Regionale di Scienze Naturali - Torino, , , 4, 261-269, ,
- , 1997, , , Atlas of Amphibians and Reptiles in Europe, Gasc, J.-P., , 494, Societas Europea Herpetologica & Museum National d'Histoire Naturelle, Paris
- Lanza, B. and Vanni, S., 1981, On the biogeography of plethodontid salamanders (Amphibia, Caudata), with a description of a new genus, Monitore Zoologico Italiano N.S., , , 15, 117-121, ,
- Lanza, B., 1986, I Rettili e gli Anfibi, , L'ambiente naturale in Sardegna (Elementi di base per la conoscenza e la gestione del territorio), Camarda, I., Falchi, S. and Nudda, G., , 557 pp, Carlo Delfino, Sassari
- Anon., 1997, Opinion 1866. Hydromantes Gistel, 1848 (Amphibia, Caudata): Spelerpes platycephalus Camp, 1916 designated as the type species, Bulletin of Zoological Nomenclature, , , 54, 72-74, ,
- Griffiths, R.A., 1996, , , Newts and Salamanders of Europe, , , 188 pp, Poyser Natural History, London
- Böhme, W, Grossenbacher, K. and Thiesmeier, B., 1999, , Handbuch der Reptilien und Amphibien Europas, band 4/I:Schwanzlurche (Urodela), , , , , Aula-Verlag, Wiesbaden, Germany.