

Iberolacerta monticola

Taxonomic Authority: (Boulenger, 1905)

Synonyms:

Region: 1

Common Names:

Iberian Rock Lizard	English
Iberische Gebirgseidechse	German
Lagartija Serrana	Spanish
Lagartixa de montanha	Portuguese

Order: Sauria

Family: Lacertidae

Notes on taxonomy: Iberolacerta cyreni and Iberolacerta martinezricai are now separated as distinct species from Iberolacerta monticola (Mayer and Arribas 1996) and mitochondrial DNA (Mayer and Arribas 2003; Carranza et al. 2004a; Crochet et al. 2004). This species was formerly included in the genus Lacerta, but is now included in Iberolacerta, following Carranza et al. (2004), and based on evidence from Arribas (1998, 1999), Carranza et al. (2004), Harris et al. (1998) and Mayer and Arribas (2003).

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

This species is present in the Cantabrian Mountains and in Galicia in northwestern Spain, and in the Serra da Estrela in central Portugal. Its populations are severely fragmented. It ranges from sea-level in Galicia to 2,000m asl.

Habitat and Ecology Information:

In most places, this is a mountainous species often found close to the tree-line in damp habitats, where it can be found in areas of scrub and boulders. In Galicia it also occurs in lowland forest close to the sea, sometimes close to streams. The females lay three to ten eggs in a clutch and may have one to three clutches annually.

Conservation Measures:

This species is listed on Annex II of the Bern Convention, and it occurs in a number of protected areas in the Cantabrian Mountains. It occurs in the Serra da Estrela Natural Park in Portugal. The development of an action plan has begun in Portugal.

Threats:

The populations of this species are highly fragmented and threatened by habitat loss due to agriculture, silviculture and tourism. Populations in Galicia have been declining through the habitat loss to fire, and the loss of suitable rocky areas.

Species population information:

It can occur at high densities where the habitat is suitable, but it is very localised. Some populations are in decline.

Country Distribution

	Native - Presence Confirmed	Native - Presence Possible	Extinct	Reintroduced	Introduced	Vagrant
Portugal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spain	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FAO Marine Habitats

	Native - Presence Confirmed	Native - Presence Possible	Extinct	Reintroduced	Introduced
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Major Lakes

Major Rivers

Upper Level Habitat Preferences

	Score	Lower Level Habitat Preferences	Score
1.5 Forest - Subtropical/Tropical Dry	1		
3.4 Shrubland - Temperate	1		
5.1 Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls)	2		
6 Rocky areas (eg. inland cliffs, mountain peaks)	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"/>
1.1.1.3	Agro-industry farming	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1.3	Non-timber plantations	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1.3.2	Large-scale	<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"/>

Conservation Measures

Code	Conservation measures	In place	Needed
1	Policy-based actions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1	Management plans	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1.1	Development	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1.2	Implementation	<input type="checkbox"/>	<input checked="" 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"/>

1.4.3	Tourism/recreation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2.2	Implementation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.7	Fires	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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"/>
					3.1	Taxonomy	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					3.2	Population numbers and range	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					3.3	Biology and Ecology	<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 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 checked="" 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:

Red Listing

Red List Assessment: Vulnerable (VU) Possibly Extinct

Red List Criteria: B1ab(iii)

Rationale for the Red List Assessment: Listed as Vulnerable because its Extent of Occurrence is less than 20,000 km², its distribution is severely fragmented, and there is continuing decline in the extent and quality of its habitat.

Current Population Trend: Decreasing

Date of Assessment: 12/17/2004

Assessor(s): Valentin Pérez-Mellado, Paulo Sá-Sousa, Rafael Marquez

Notes on Red listing:

Bibliography

- Arnold, E.N., 2003, , Reptiles and amphibians of Europe., , 288 pp., Princeton University Press., Princeton and Oxford.
- Pleguezuelos, J.M., Márquez, R. and Lizana, M., 2002, , Atlas y Libro Rojo de los Anfibios y Reptiles de España., , pp. 584, Dirección General de la Conservación de la naturaleza-Asociación Herpetológica Española., Madrid.
- Arribas, O.J., 1996, Taxonomic revision of the Iberian 'Archaeolacertae' I: A new interpretation of the geographical variation of 'Lacerta' monticola Boulenger 1905 and 'Lacerta' cyreni Müller & Hellmich 1937 (Squamata: Sauria: Lacertidae), Herpetozoa, , , 9:, 31-56, ,
- Arribas, O.J., 1999, Phylogeny and relationships of the mountain lizards of Europe and Near East (Archaeolacerta Mertens, 1921, sensu lato) and their relationships among the eurasian lacertid radiation., Russ. J. Herpetol., , , 6(1), 1-22, ,
- Arribas, O.J., 1999, New data on the Peña de Francia Mountain Lizard 'Lacerta' cyreni martinezrici Arribas, 1996 (Squamata: Lacertidae), Herpetozoa, , , 12 (3/4):, 119-128, ,
- Crochet, P.-A., Chaline, O., Surget-Groba, Y., Debain, C. and Cheylan, M., 2004, Speciation in mountains: phylogeography and phylogeny of the rock lizards genus Iberolacerta (Reptilia: Lacertidae), Molecular Phylogenetics and Evolution, , , 30(3):, 860-866, ,
- Malkmus, R., 1982, Beitrag zur Verbreitung der Amphibien und Reptilien in Portugal., Salamandra, , , 18(3-4):, 218-299, ,
- Malkmus, R., 1985, Herpetologische Streifzüge durch die Serra da Estrela., Herpetofauna, , , 7(39), 25-30, ,
- Mayer, W. and Arribas, O.J., 1996, Allozyme differentiation and relationship among the Iberian-Pyrenean Mountain Lizards (Squamata: Sauria: Lacertidae), Herpetozoa, , , 9(1/2):, 57-61, ,
- Regalado, P.G., 1991, Notas sobre la reproducción de Lacerta monticola (Sauria, Lacertidae) en las zonas costeras de Galicia (noroeste de España), Revista Española de Herpetología, , , 5:, 109-123, ,
- Salvador, A., 1984, Lacerta monticola - Iberische Gebirgseidechse., , Handbuch der Reptilien und Amphibien Europas, Band 2/I., Echsen II (Lacerta), Böhme, W., , pp. 276-289, Aula-Verlag., Wiesbaden
- Arribas, O.J. and Carranza, S., 2004, Morphological and genetic evidence of the full specific status of Iberolacerta cyreni martinezrici., Zootaxa, , , 634, 1-14., ,
- Carranza, S., Arnold, E.N. and Amat, F., 2004, DNA phylogeny of Lacerta (Iberolacerta) and other lacertine lizards (Reptilia: Lacertidae): did competition cause long-term mountain restriction?, Systematics and Biodiversity, , , 2:, 57-77, ,
- Malkmus, R., 2004, , Amphibians and reptiles of Portugal, Madeira and the Azores-archipelago., , , A.R.G. Gantner Verlag K.G., Ruggell (Germany)
- Arribas, O.J., 1998, Osteology of the Pyrenean mountain lizards and comparison with other species of the collective genus Archaeolacerta Mertens, 1921 s.l. from Europe and Asia Minor., Herpetozoa, , , 11, 155-180., ,

Harris, D.J., Arnold, E.N. and Thomas, R.H., 1998, Relationships of lacertid lizards (Reptilia: Lacertidae) estimated from mitochondrial DNA sequences and morphology., *Proc. Roy. Soc. London Ser. B*, , 265, 1939-1948, ,

Mayer, W. and Arribas, O.J., 2003, Phylogenetic relationships of the European lacertid genera *Archaeolacerta* and *Iberolacerta* and their relationships to some other 'Archaeolacertae' (sensu lato) from Near East, derived from mitochondrial DNA sequences., *Journal of zoological Systematics and evolutionary Research*, , 41:, 157-161, ,

Pérez-Mellado, V., Barbadillo, L. J., Barahona, F., Brown, R.P., Corti, C., Guerrero, F. and Lanza, B., 1993, A systematic survey of the Iberian rock lizard *Lacerta monticola* Boulenger, 1905., , Lacertids of the Mediterranean region., Valakos, E. D., Böhme, W., Pérez-Mellado, V. and Maragou, P., , 85-105, Hellenic Zoological Society, Athens

Andreu, A., Bea, A., Braña, F., Galán, P., López-Jurado, L.F., Pérez-Mellado, V., Pleguezuelos, J.M. and Salvador, A., 1998, Reptiles., *Fauna Ibérica*, , 10, 1-705, Museo Nacional de Ciencias Naturales. CSIC., Madrid