

Leiostyla irrigua

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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Lauriidae

Taxon Name: *Leiostyla irrigua* (Lowe, 1852)

Assessment Information

Red List Category & Criteria: Least Concern [ver 3.1](#)

Year Published: 2013

Date Assessed: September 30, 2010

Justification:

Seddon (2008) noted that this species is close to meeting the criteria for Near Threatened (version 3.1), as it occurs at over 15 sites with known area of occupancy exceeding 60 km². However, there is no evidence of declining quality of habitat over the last 15 years, and the laurisilva forest in the centre of the island is protected. The region may be subject to changing micro-climate as the result of increased movement of water through use of levada water for generation of electricity. Given the lack of current threats, the species is assessed as Least Concern.

Geographic Range

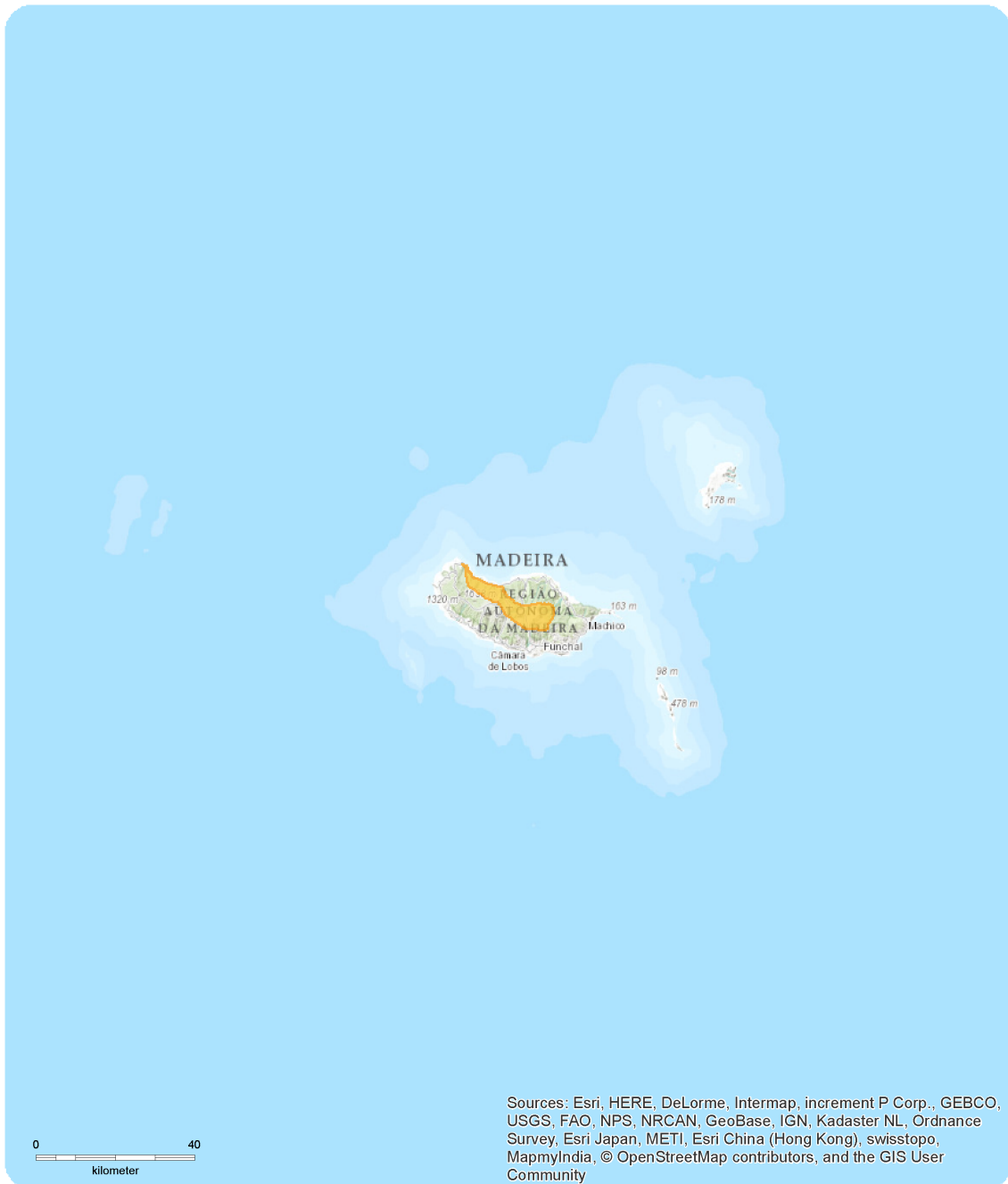
Range Description:

This species is endemic to Madeira, where it is found mainly in the central laurisilva forests and on the north coast between São Vicente and Porto Moniz (Seddon 2008).

Country Occurrence:

Native: Portugal (Madeira)

Distribution Map

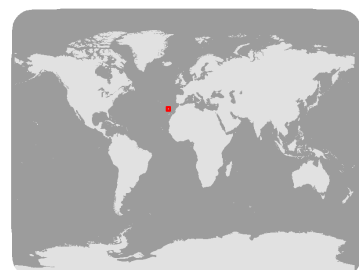


Leiostryla irrigua

Range

■ Extant (resident)

Compiled by:
IUCN



The boundaries and names shown and the designations used on this map do not imply any official endorsement, acceptance or opinion by IUCN.



Population

There are no recent data to establish population trends, but it is believed to be stable.

Current Population Trend: Stable

Habitat and Ecology (see Appendix for additional information)

It is often found on wet rock faces and crags resting on *Marchantia* and dripping grasses in laurisilva forests, usually in the spray zone near waterfalls.

Systems: Terrestrial

Use and Trade

The species is not known to be traded.

Threats (see Appendix for additional information)

The species is found on rock ledges on large crags and on rocky slopes and hence habitat degradation (blasting crags during road enlargement schemes) and changes to the damp habitats (fire, extraction of water) are two of the major threats to these species.

Conservation Actions (see Appendix for additional information)

No conservation areas have yet been designated for *Leiostyla irrigua*. Further research is needed to establish whether there is a clinal range with other similar species, and studies are ongoing (Cameron and Pokrysko, pers. comm., 2010). The range of the species lies partly in the Special Protected Area (Laurisilva de Madeira).

Credits

Assessor(s): Seddon, M.B.

Reviewer(s): Cameron, R., Groh, K., Cuttelod, A. & Neubert, E.

Bibliography

Cameron, R.A.D. and Cook, L.M. 1998. Forest and scrub snail faunas from northern Madeira. *Malacologia* 39: 29-38.

IUCN. 2011. IUCN Red List of Threatened Species (ver. 2011.1). Available at: <http://www.iucnredlist.org>. (Accessed: 16 June 2011).

Seddon, M.B. 2008. An illustrated compendium of the landsnails and slugs of the Madeiran archipelago. Studies in Biodiversity and Systematics of Terrestrial Organisms from the National Museum of Wales. Biotir Reports.

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External Resources

For [Images and External Links to Additional Information](#), please see the Red List website.

Appendix

Habitats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Habitat	Season	Suitability	Major Importance?
1. Forest -> 1.4. Forest - Temperate	-	Suitable	Yes
0. Root -> 6. Rocky areas (eg. inland cliffs, mountain peaks)	-	Suitable	Yes

Threats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Threat	Timing	Scope	Severity	Impact Score
4. Transportation & service corridors -> 4.1. Roads & railroads	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality		
7. Natural system modifications -> 7.1. Fire & fire suppression -> 7.1.1. Increase in fire frequency/intensity	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality		
7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.4. Abstraction of surface water (unknown use)	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation		

Conservation Actions in Place

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Conservation Actions in Place
In-Place Land/Water Protection and Management
Occur in at least one PA: Yes

Research Needed

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Research Needed
1. Research -> 1.2. Population size, distribution & trends

Additional Data Fields

Distribution
Estimated extent of occurrence (EOO) (km ²): 736
Number of Locations: 14-20
Population
Population severely fragmented: No

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