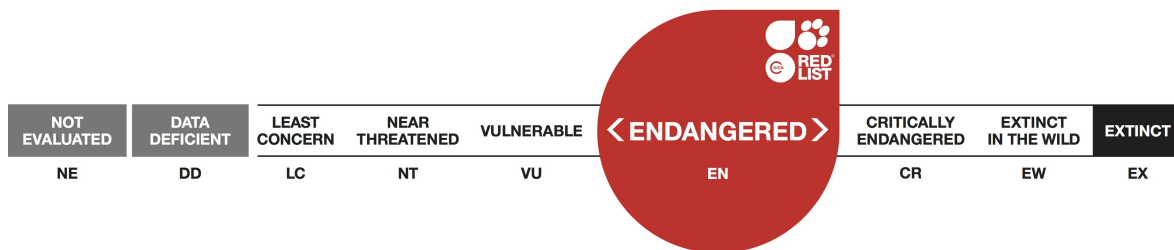


Leiostyla falknerorum

Assessment by: Seddon, M.B.



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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Lauriidae

Taxon Name: *Leiostyla falknerorum* Bank, Groh & Ripken, 2002

Synonym(s):

- *Leiostyla laevigata*

Taxonomic Notes:

This species was previously assessed under the name *Leiostyla laevigata*. Bank *et al.* (2002) proposed *Leiostyla falknerorum* nom. nov. as a new name for *Pupa laevigata* Lowe, 1852 as they considered it to be preoccupied by *Pupa laevigata* von Gallenstein, 1848. This name was known to Pilsbry (1922-26) and Waldén (1983) who both considered it a forgotten name.

Assessment Information

Red List Category & Criteria: Endangered B2ab(iii) [ver 3.1](#)

Year Published: 2013

Date Assessed: September 30, 2010

Justification:

Seddon (2008) proposed that the species should be assessed as Endangered (EN) B2ab(iii) (version 3.1), as it is very rare and localised, and was thought to be extinct until survey work in the 1990's found new sites (Seddon and Oliver, 1996). The area of habitat is at present very small and as such vulnerable to events that destroy habitat such as storms, grazing and forest fires, such as the events in 2010. Urgent surveys are required to establish if this species was impacted by the fires.

The species was previously assessed under the name *Leiostyla laevigata*, and given the status as Vulnerable D2, based on limited range, but as it lay within the protected area, it was not given a higher status. The revised status as Endangered B2ab(iii) reflects recent changes in habitat, which may have impacted the species.

Geographic Range

Range Description:

This species is endemic to the Madeiran islands, it is only found on the summit areas of central Madeira at the extreme end of Ribeira do Santa Lucia and Pico Arreiro (Seddon 2008). This species was relocated after surveys in these valleys in 1994 (Seddon 2008) and has a restricted range of less than 10 km².

Country Occurrence:

Native: Portugal (Madeira)

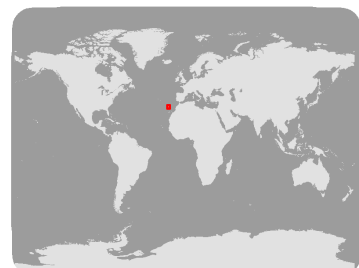
Distribution Map



Leiostyla falknerorum

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 is no recent data to establish trends, although habitats were stable until recent fires in summit regions in August 2010.

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)

This species occurs in remnant patches of laurisilva forest, with some rocky outcrops. The species was found within leaf-litter on crags and at base of trees.

Systems: Terrestrial

Use and Trade

This species is not known to be traded or used.

Threats (see Appendix for additional information)

The area of habitat is at present very small and as such vulnerable to events that destroy habitat such as storms, grazing and forest fires. Over 8500 ha of habitat were lost in the fire in August 2010, and the impact on this species is unknown. Reseeding has commenced in January 2011, however this species, which requires plant cover for feeding and habitat may have been severely impacted by the fires.

Conservation Actions (see Appendix for additional information)

Much of its distribution falls within protected areas (Maciço Montanhoso Central da Ilha da Madeira Site of Community Importance). Resurveys are needed at the last known sites to establish if this species is still extant, as recent forest fires and storms may have lead to damage of the laurisilva forest remnants.

Credits

Assessor(s): Seddon, M.B.

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

Bibliography

Bank, R.A., Groh, K. and Ripken, T.E. 2002. Catalogue and Bibliography of the non-marine Mollusca of Macronesia. In: M. Falkner, K. Grah and M.C.D. Speight (eds), *Collectanea Malacologica*, pp. 89-235.

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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

Threats

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

Threat	Timing	Scope	Severity	Impact Score
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		
11. Climate change & severe weather -> 11.4. Storms & flooding	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality		

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

Conservation Actions Needed

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

Conservation Actions Needed
2. Land/water management -> 2.1. Site/area management
2. Land/water management -> 2.3. Habitat & natural process restoration

Research Needed

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

Research Needed
1. Research -> 1.2. Population size, distribution & trends
3. Monitoring -> 3.4. Habitat trends

Additional Data Fields

Distribution
Estimated area of occupancy (AOO) (km ²): 8
Number of Locations: 2
Habitats and Ecology
Continuing decline in area, extent and/or quality of habitat: Yes

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