

# *Discula lyelliana*

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## Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae

**Taxon Name:** *Discula lyelliana* (R.T. Lowe, 1852)

## Assessment Information

**Red List Category & Criteria:** Critically Endangered (Possibly Extinct) B1ab(iii) [ver 3.1](#)

**Year Published:** 2013

**Date Assessed:** August 31, 2010

### Justification:

Seddon (2008) suggested this species should be considered as Critically Endangered B1ab(iii) (version 3.1). The extent of occurrence is under 100 km<sup>2</sup> and it is only present on one island where overgrazing by goats has led to massive changes in vegetation and stability of the slopes in last 150 years. There is concern for the survival of this species, as there are no known sites for the species, the island has been subject to much change in vegetation as the result of overgrazing and the species was not recorded in recent surveys by Ripken and Oliver in 1994 or by Cameron and Cook in various surveys (1999) in spite of the large fairly conspicuous shell. This suggests that it is either very rare or possibly extinct. The species is therefore considered as Critically Endangered, Possibly Extinct.

**Date last seen:** 1870s

### Previously Published Red List Assessments

1996 – Critically Endangered (CR)

1994 – Extinct? (Ex?)

## Geographic Range

### Range Description:

This species is endemic to the Madeiran islands where it was reported to be restricted to Deserta Grande (Wollaston 1878). Cameron and Cook (1999) did not record this species in their survey work in 1994-8 and it was not recorded by Oliver in his surveys in 1994 (M. Seddon pers. comm. 2010).

### Country Occurrence:

**Possibly extinct:** Portugal (Madeira)

# Distribution Map

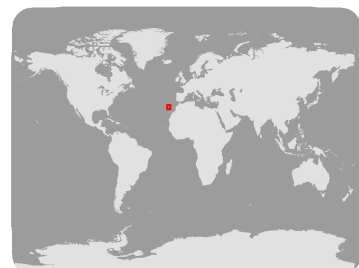


## *Discula lyelliana*

Range

■ Possibly Extinct

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

The species was not recorded in recent surveys by Ripken and Oliver in 1994 (Oliver pers. comm. 1995) or by Cameron and Cook in various surveys (1999) in spite of the large fairly conspicuous shell. This suggests that it is either very rare or possibly extinct.

**Current Population Trend:** Unknown

## Habitat and Ecology (see Appendix for additional information)

The habitat is uncertain, but likely to be amongst rocks on grassy slopes or within scree.

**Systems:** Terrestrial

## Use and Trade

The species is not known to be utilised, although occasionally sold by shell collectors.

## Threats (see Appendix for additional information)

The species is only present on one island where overgrazing by goats has led to massive changes in vegetation and stability of slopes in the last 150 years.

## Conservation Actions

Surveys are needed to determine if the species is still extant.

## Credits

**Assessor(s):** Seddon, M.

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

## Bibliography

Cameron, R.A.D. and Cook, L.M. 1999. Land snail faunas of the Deserta Islands, Madeiran archipelago, past and present. *Journal of Conchology, London* 36: 1-15.

Groombridge, B. (ed.) 1994. *1994 IUCN Red List of Threatened Animals*. IUCN, Gland, Switzerland.

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.

Wollaston, T.V. 1878 *Testacea Atlantica or the land and freshwater shells of Azores, Aderiras, Salvages, Canaries, Cape Verdes and Saint Helena*. London; Reeve.

## Citation

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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?
4. Grassland -> 4.4. Grassland - Temperate	-	Unknown	-
0. Root -> 6. Rocky areas (eg. inland cliffs, mountain peaks)	-	Unknown	-

### Threats

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

Threat	Timing	Scope	Severity	Impact Score
8. Invasive & other problematic species & genes -> 8.1. Invasive non-native/alien species -> 8.1.2. Named species (Capra hircus)	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		

### 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 <sup>2</sup> ): 99
Number of Locations: 1
Habitats and Ecology
Continuing decline in area, extent and/or quality of habitat: Yes

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