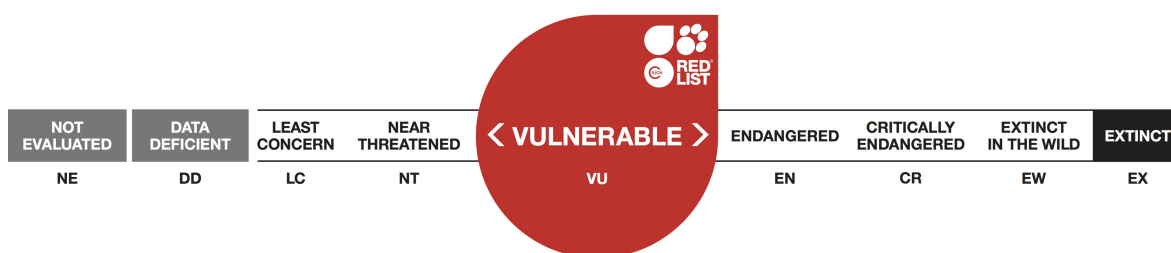


Disculella spirulina

Assessment by: Seddon, M.B.



View on www.iucnredlist.org

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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae

Taxon Name: *Disculella spirulina* (Cockerell, 1921)

Synonym(s):

- *Disculella spirulina*
- *Ochthephila spirulina*

Taxonomic Notes:

This species is also known as *Ochthephila spirulina* not *Disculella* (amendation by Walden 1983).

Assessment Information

Red List Category & Criteria: Vulnerable D2 [ver 3.1](#)

Year Published: 2013

Date Assessed: September 21, 2010

Justification:

The species was originally assessed as Vulnerable in the earlier Red Lists (1994), as it had a small area of occupancy, and it was considered as Vulnerable (B and D) in subsequent revisions of the Red List categories and criteria (2000). The species *Disculella spirulina* was considered by Seddon (2008) to be Vulnerable B2ab(iii) (version 3.1) as it has an area of occupancy of under 60 km², and is known from 5-10 locations along the coast. It is considered more rare than the other species of *Disculella*, as it is found in lower abundance at sites. Although there is still plenty of habitat suitable, the restricted distribution and habitat disturbance grant this species the status of Vulnerable (VU) D2. If part of the region was protected, then the reduced risk of disturbance would probably allow the species to be considered as Near Threatened (NT).

Previously Published Red List Assessments

2000 – Vulnerable (VU)

1994 – Vulnerable (V)

Geographic Range

Range Description:

This species is endemic to the Madeiran archipelago, where it is restricted to the southwestern coast of Madeira, between Paul do Mar and Ponto do Pargo (Seddon 2008). There are at present between 5 and 10 locations (assuming some locations are less accessible and have not been recorded) in this small area of occupancy.

Country Occurrence:

Native: Portugal (Madeira)

Distribution Map



Disculella spirulina

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

The population trends for this species are not known.

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)

This species occurs in grassland, scrub and on rocky slopes, where it is typically found on the underside of stones and in litter at the base of crags (Seddon 2008).

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 main threats are habitat disturbance, agricultural improvement of grassland (pesticides) and fire. Building development for tourism in the region of Paul do Mar over the last ten years, has reduced the habitat quality in the area.

Conservation Actions (see Appendix for additional information)

Habitat monitoring is required at selected sites to ensure disturbance is not impacting the species. There are few protected areas in the range of this species, and establishment of a small area would benefit the species through reduction of the impact of development for tourism.

Credits

Assessor(s): Seddon, M.B.

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

Contributor(s): Abreu, C. & Teixeira, D.

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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	-	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
1. Residential & commercial development -> 1.3. Tourism & recreation areas	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 -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality		
9. Pollution -> 9.3. Agricultural & forestry effluents -> 9.3.3. Herbicides and pesticides	Ongoing	-	-	-
	Stresses:	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
1. Land/water protection -> 1.1. Site/area protection

Research Needed

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

Research Needed
3. Monitoring -> 3.4. Habitat trends

Additional Data Fields

Distribution
Estimated area of occupancy (AOO) (km ²): 20-50
Estimated extent of occurrence (EOO) (km ²): 736
Number of Locations: 5-10
Habitats and Ecology
Continuing decline in area, extent and/or quality of habitat: No

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