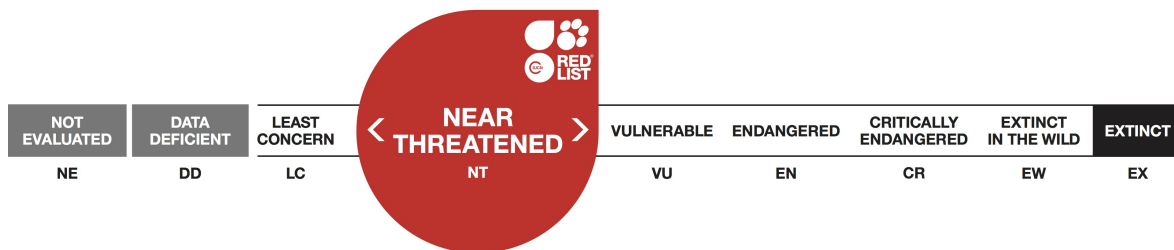


Hystricella bicarinata

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: *Hystricella bicarinata* (Sowerby, 1824)

Synonym(s):

- *Discula bicarinata* Sowerby, 1824

Taxonomic Notes:

There are two subspecies: *Hystricella bicarinata bicarinata* and *Hystricella bicarinata aucta* (Wollaston, 1878). Cameron *et al.* (2006) has recently reviewed the status of this form whilst in consideration of the status of *Hystricella oxytropis* finding that it is distinctly smaller than *Hystricella bicarinata*.

Assessment Information

Red List Category & Criteria: Near Threatened [ver 3.1](#)

Year Published: 2013

Date Assessed: August 31, 2010

Justification:

Seddon (2008) suggested the species should be assessed as Near Threatened. It meets the general criteria for listing as it has a total extent of occurrence of 10 km², however it is present over the eastern part of the island and in these sites, it is abundant. The habitats have been subject to changing land-use practice, and as such the quality of the habitat has declined over the last thirty years. There has been development of tourism on the main island, and recreational activities may impact some sites, however as the species is abundant within its restricted range, the species is listed as Near Threatened (NT), almost meeting criteria B.

Previously Published Red List Assessments

1996 – Vulnerable (VU)

1994 – Rare (R)

Geographic Range

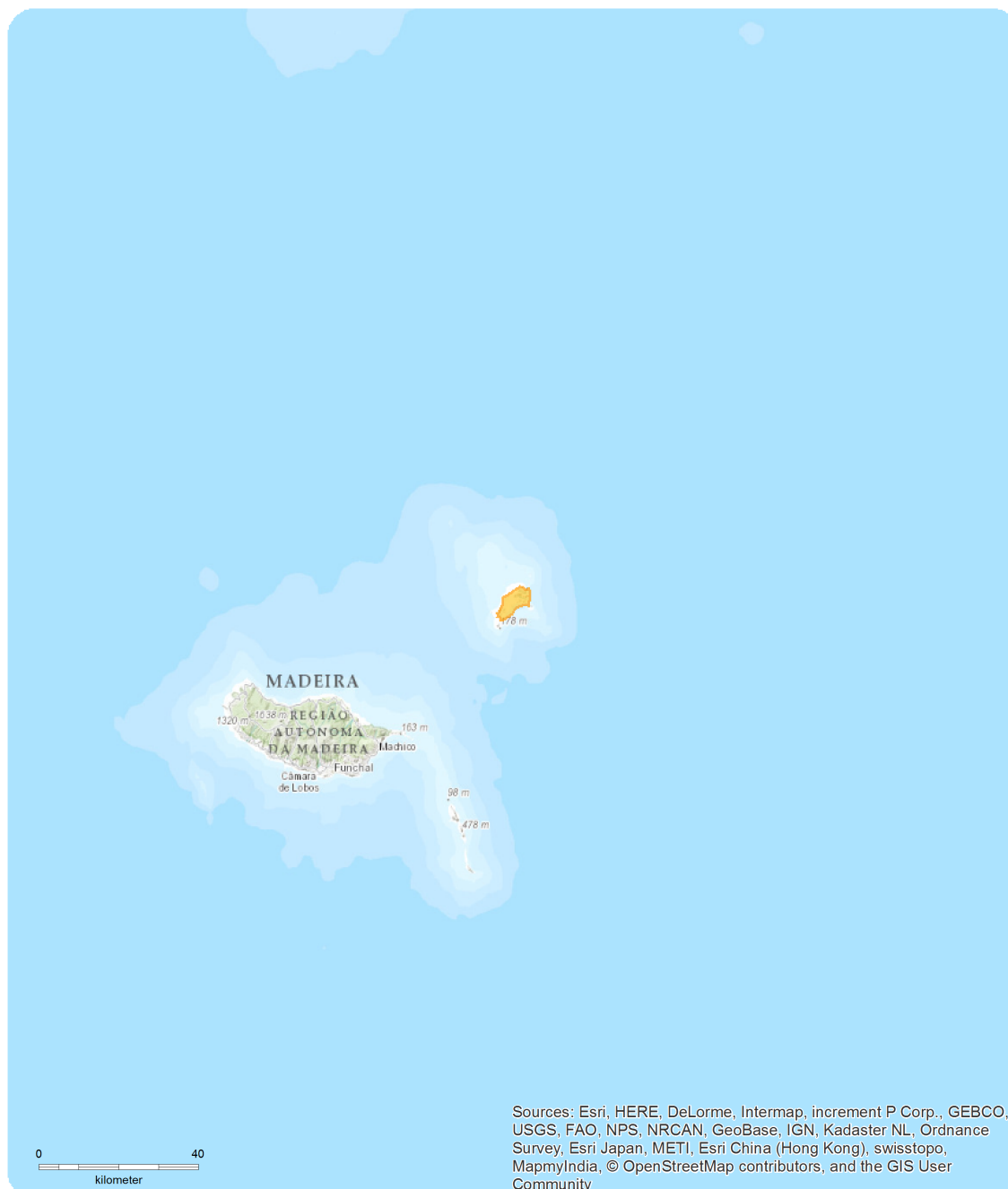
Range Description:

The two subspecies are both endemic to Porto Santo (Seddon 2008); one is only found subfossil (Cameron *et al.* 2006). The living subspecies has a total extent of occurrence of 10 km² but is present over the eastern part of the island and in these sites it is abundant.

Country Occurrence:

Native: Portugal (Madeira)

Distribution Map



Hystricella bicarinata

Range

■ Extant (resident)

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Conservation of Nature)



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 on population trends, however the species is abundant within its range (Seddon 2008).

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)

This species is found under stones on grassland.

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 habitat has been subject to changing land-use practice, and as such the quality of the habitat has declined over the last thirty years, although the main area falls within a designated protected area and the species is abundant within its range.

Conservation Actions (see Appendix for additional information)

This species is widely distributed on eastern Porto Santo, so recommended conservation actions include management of the grassland areas for maintenance of this species and monitoring of the protected areas to ensure no loss of further habitat.

Credits

Assessor(s): Seddon, M.B.

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

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

Bibliography

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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	-	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		
2. Agriculture & aquaculture -> 2.3. Livestock farming & ranching -> 2.3.2. Small-holder grazing, ranching or farming	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality		

Conservation Actions Needed

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

Conservation Actions Needed
2. Land/water management -> 2.1. Site/area management

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): 10
Estimated extent of occurrence (EOO) (km ²): 10

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