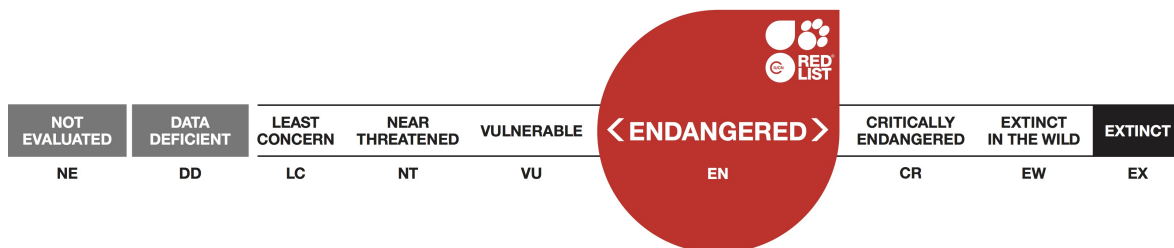


Geomitra tiarella

Assessment by: Seddon, M.B.



View on www.iucnredlist.org

Citation: Seddon, M.B. 2013. *Geomitra tiarella*. *The IUCN Red List of Threatened Species 2013*: e.T9052A12953468. <http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T9052A12953468.en>

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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae

Taxon Name: *Geomitra tiarella* Webb & Berthelot, 1833

Assessment Information

Red List Category & Criteria: Endangered B1ab(iii)+2ab(iii) [ver 3.1](#)

Year Published: 2013

Date Assessed: August 31, 2010

Justification:

Geomitra tiarella was listed in 1994, based on a very restricted range, and when the new Categories and Criteria were introduced in 1996, the species maintained the Endangered status on the basis of limited area of occupancy, number of sites and declining habitat quality. The species is still only known from a small area of occupancy, with four locations along the coastal cliffs and is still viewed as susceptible to habitat degradation on the areas adjacent to the main road and hence it is assessed at Endangered (EN) B1ab(iii)+2ab(iii).

Previously Published Red List Assessments

1996 – Endangered (EN)

1994 – Endangered (E)

Geographic Range

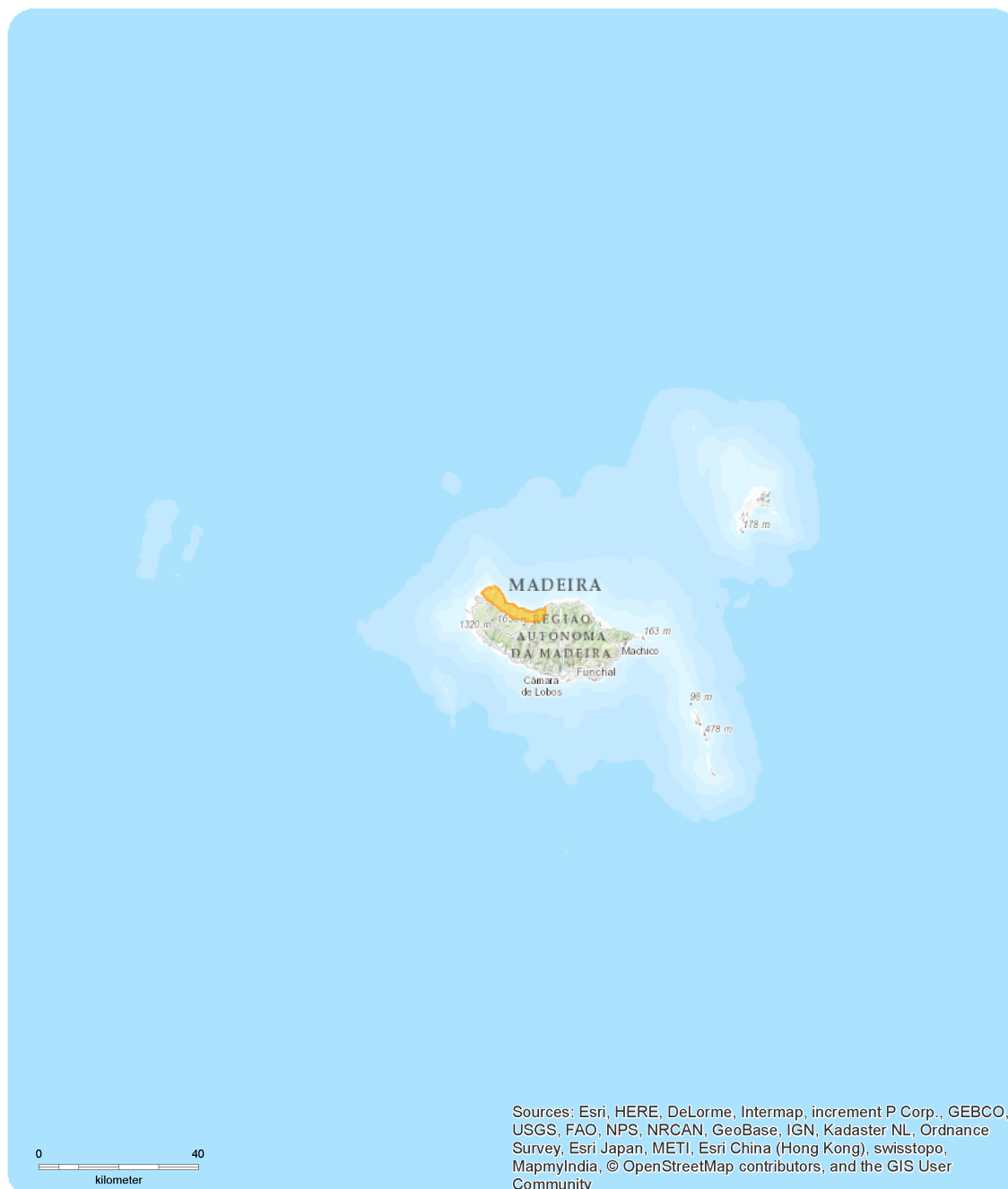
Range Description:

This species is endemic to Madeira, where it can still be found living on the north coast of Madeira between Sao Vicente and Porto Moniz (Seddon 2008). Wollaston (1878) commented on the low numbers of specimens found, with the most abundant finds of 120 shells just east of Sao Vicente; this pattern remains today (M. Seddon pers. comm. 2010). It was abundant in the Quaternary fossil deposits at Canical.

Country Occurrence:

Native: Portugal (Madeira)

Distribution Map

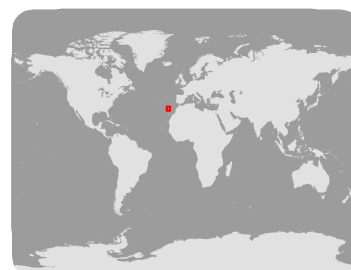


Geomitra tiarella

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

This species has always been rare in samples but was recorded by Seddon (2008) and by Cameron and Cook (1998).

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)

This species is found on coastal cliffs and steep slopes, amongst short turfed grasses and herbs and amongst leaf-litter on rock ledges. It is also present on rock surfaces on cliffs.

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 major threats come from habitat degradation due to presence of roads and tunnels along this part of the coast, with possibility of road widening, pollution from run-off from the road. Also introduction of non-native plants and molluscs to the habitat.

Conservation Actions (see Appendix for additional information)

This species is listed on the EU Species and Habitats Directive requiring designation of a protected area (pSAC). At present there are no known conservation action plans for this species, and at present the main part of the range does not fall into a protected area. Invasive species need to be controlled, more research is required on the population and distribution of this species, as well as monitoring of its habitat.

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?
3. Shrubland -> 3.4. Shrubland - 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		
8. Invasive & other problematic species & genes -> 8.1. Invasive non-native/alien species -> 8.1.2. Named species	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation		
8. Invasive & other problematic species & genes -> 8.1. Invasive non-native/alien species -> 8.1.2. Named species	Ongoing	-	-	-
	Stresses:	2. Species Stresses -> 2.3. Indirect species effects -> 2.3.2. Competition		
9. Pollution -> 9.4. Garbage & solid waste	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation		

Conservation Actions Needed

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

Conservation Actions Needed
1. Land/water protection -> 1.2. Resource & habitat protection
2. Land/water management -> 2.2. Invasive/problematic species control
4. Education & awareness -> 4.3. Awareness & communications

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): 16
Estimated extent of occurrence (EOO) (km ²): 736
Number of Locations: 4
Habitats and Ecology
Continuing decline in area, extent and/or quality of habitat: Yes

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