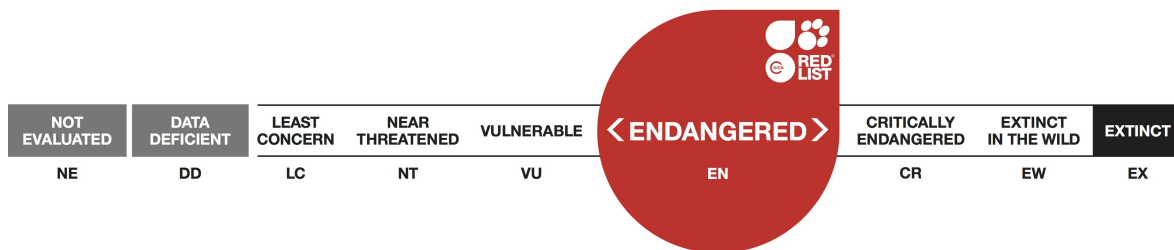


Geomitra moniziana, Madeiran Land Snail

Assessment by: Seddon, M.B.



View on www.iucnredlist.org

Citation: Seddon, M.B. 2013. *Geomitra moniziana*. *The IUCN Red List of Threatened Species 2013*: e.T9051A12953273. <http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T9051A12953273.en>

Copyright: © 2015 International Union for Conservation of Nature and Natural Resources

Reproduction of this publication for educational or other non-commercial purposes is authorized without prior written permission from the copyright holder provided the source is fully acknowledged.

Reproduction of this publication for resale, reposting or other commercial purposes is prohibited without prior written permission from the copyright holder. For further details see [Terms of Use](#).

The IUCN Red List of Threatened Species™ is produced and managed by the [IUCN Global Species Programme](#), the [IUCN Species Survival Commission \(SSC\)](#) and [The IUCN Red List Partnership](#). The IUCN Red List Partners are: [BirdLife International](#); [Botanic Gardens Conservation International](#); [Conservation International](#); [Microsoft](#); [NatureServe](#); [Royal Botanic Gardens, Kew](#); [Sapienza University of Rome](#); [Texas A&M University](#); [Wildscreen](#); and [Zoological Society of London](#).

If you see any errors or have any questions or suggestions on what is shown in this document, please provide us with [feedback](#) so that we can correct or extend the information provided.

Taxonomy

| Kingdom | Phylum | Class | Order | Family |
|----------|----------|------------|-----------------|-------------|
| Animalia | Mollusca | Gastropoda | Stylommatophora | Hygromiidae |

Taxon Name: *Geomitra moniziana* (Paiva, 1867)

Common Name(s):

- English: Madeiran Land Snail

Assessment Information

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

Year Published: 2013

Date Assessed: August 31, 2010

Justification:

This species is protected by listing on the Council of Europe Berne Convention Appendix 2, and later on the EUHSD Annex II/IV. It was originally listed by IUCN 1990 as Rare, and upgraded to Endangered for the 1996 list.

Seddon (2008) proposed a listing as IUCN status Endangered B2ab(iii) (Version 3.1). The small area of habitat (area of occupancy) suggests that the species is extremely vulnerable to further habitat change as there is *Opuntia* scrub on the fringes which may become a problem unless controlled. Other problems include tipping and dumping from roads on the coast. As such the species still qualifies as IUCN status Endangered B2ab(iii), on the basis of two known sites, small area of occupancy and declining habitat quality.

Previously Published Red List Assessments

1996 – Endangered (EN)

1994 – Rare (R)

1990 – Vulnerable (V)

1988 – Vulnerable (V)

1986 – Vulnerable (V)

1983 – Vulnerable (V)

Geographic Range

Range Description:

This species is endemic to the main island of Madeira, known only in the vicinity of Canico to Gaula on the coast of southeast Madeira (Seddon 2008). Nobre (1931, p. 114) lists a number of sites including Ribeiro do Porto Novo and Canico to Gaula. It was not found by Cook *et al.* (1990) during their surveys

at the extreme eastern end of Madeira. Seddon and others have recently live-collected the species in a small valley within the vicinity of Canico (Seddon, pers. comm., 2010). Groh and Hemmen (1986) illustrate material from Faja do Mar, in west Madeira (Seddon 2008).

Country Occurrence:

Native: Portugal (Madeira)

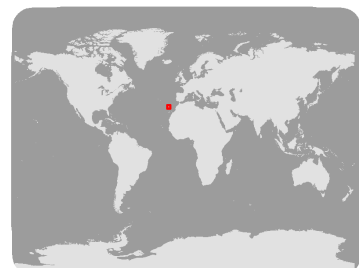
Distribution Map



Geomitra moniziana

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 information on population trends, although the species is rare and very localised, and hence usually only found in targeted surveys. It is thought to be declining.

Current Population Trend: Decreasing

Habitat and Ecology (see Appendix for additional information)

Information resulting from recent surveys (1991-1999) show that this species still occurs on north-east facing scree slopes near Porto Novo, with ground cover of shrubs including *Euphorbia piscatoria*, *Aeonium glutinosum*. These slopes are somewhat disturbed by human activity, with evidence of dumping (now restricted).

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 lives on slopes that are somewhat disturbed by human activity: tourist developments, extension of airport access roads, illegal dumping (now restricted) and introduced vegetation (*Opuntia*).

Conservation Actions (see Appendix for additional information)

This species is listed on the EU Habitats and Species Directive Annex II and the Council of Europe Bern Convention Appendix 2. This listing on the EU Species and Habitats Directive requiring designation of a protected area (pSAC). Further work is urgently needed on habitat and population monitoring for this species, as the areas where the species is now found are now extremely disturbed habitats.

Credits

Assessor(s): Seddon, M.B.

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

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

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.
- Groh, K. and Hemmen, J. 1986. *Geomitra (Serratorotula) gerberi* n. subgen. n. sp. aus dem Quartär von Porto Santo (Pulmonata: Helicidae). *Archiv für Molluskenkunde* 117: 33-38.
- Groombridge, B. (ed.) 1994. *1994 IUCN Red List of Threatened Animals*. IUCN, Gland, Switzerland.
- IUCN. 1990. *1990 IUCN Red List of Threatened Animals*. Gland, Switzerland and Cambridge, UK.
- IUCN. 2011. IUCN Red List of Threatened Species (ver. 2011.1). Available at: <http://www.iucnredlist.org>. (Accessed: 16 June 2011).
- Nobre, A. 1931. *Moluscos terrestres, fluviais e das águas salobras do arquipélago da Madeira*. BARCELOS, Pôrto.
- 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.
- Walden, H.W. 1983. Systematic and biogeographical studies of the terrestrial Gastropoda of Madeira. With an annotated Check-list. *Annales Zoologica Fennica* 20: 255-275.
- Wells, S.M., Pyle, R.M. and Collins, N.M. (compilers) 1983. *The IUCN Invertebrate Red Data Book*. IUCN, Gland, Switzerland and Cambridge, UK.

Citation

Seddon, M.B. 2013. *Geomitra moniziana*. *The IUCN Red List of Threatened Species 2013*: e.T9051A12953273. <http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T9051A12953273.en>

Disclaimer

To make use of this information, please check the [Terms of Use](#).

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 |
| 4. Grassland -> 4.4. Grassland - Temperate | - | 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 | | |
| 6. Human intrusions & disturbance -> 6.1. Recreational activities | 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: | 1. Ecosystem stresses -> 1.2. Ecosystem degradation | | |
| 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 |
|--|
| 2. Land/water management -> 2.2. Invasive/problematic species control |
| 2. Land/water management -> 2.3. Habitat & natural process restoration |
| 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): 15 |
| Estimated extent of occurrence (EOO) (km ²): 99 |
| Number of Locations: 2-3 |
| Habitats and Ecology |
| Continuing decline in area, extent and/or quality of habitat: Yes |

The IUCN Red List Partnership



The IUCN Red List of Threatened Species™ is produced and managed by the [IUCN Global Species Programme](#), the [IUCN Species Survival Commission \(SSC\)](#) and [The IUCN Red List Partnership](#). The IUCN Red List Partners are: [BirdLife International](#); [Botanic Gardens Conservation International](#); [Conservation International](#); [Microsoft](#); [NatureServe](#); [Royal Botanic Gardens, Kew](#); [Sapienza University of Rome](#); [Texas A&M University](#); [Wildscreen](#); and [Zoological Society of London](#).