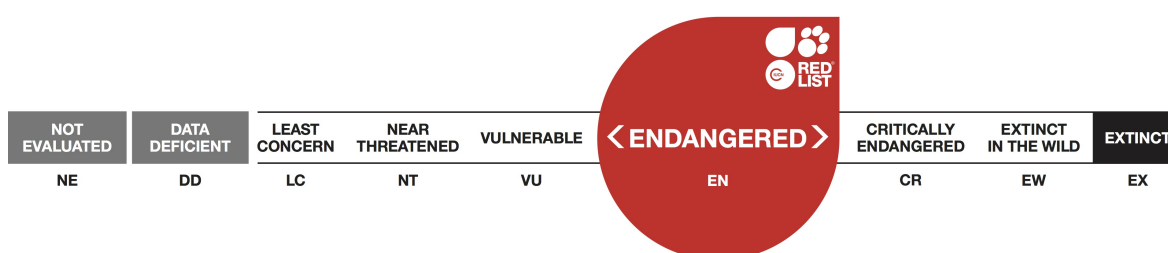


# *Geomitra watsoni*

## Errata version

Assessment by: Teixeira, D., Cameron, R., Groh, K. & Seddon, M.B.



View on [www.iucnredlist.org](http://www.iucnredlist.org)

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## Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae

**Taxon Name:** *Geomitra watsoni* (J.Y. Johnson, 1897)

### Synonym(s):

- *Helix watsoni* J.Y. Johnson, 1897

### Taxonomic Source(s):

Bank, R.A. and Neubert, E. 2017. MolluscaBase. Checklist of the land and freshwater Gastropoda of Europe. Last update: July 16th, 2017.

## Assessment Information

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

**Year Published:** 2018

**Date Assessed:** November 24, 2016

### Justification:

This species is endemic to the Madeiran Archipelago, where it has recently been refound at two locations on the Ilhéu dos Desembarcadouros and the Ilhéu de Farol, off the Pta da Sao Lourenco, eastern Madeira (D. Teixeira pers. comm. 2016). The extent of occurrence (EOO) and the area of occupancy (AOO) are both estimated to be less than 8 km<sup>2</sup>. In 2011 this species was assessed as Data Deficient, as there was insufficient recent data confirming the presence on the islets. There is now a monitoring programme ongoing for this species, with the aim of maintaining the populations, which at present seem stable. Future threats come from predation by mice and changing vegetation due to large Gull colonies with their bird droppings and increased frequency of drought events. The species thus meets the criteria for Endangered (EN B1ab(iii,v)+2ab(iii)).

### Previously Published Red List Assessments

2011 – Data Deficient (DD)

<http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T157091A5032499.en>

## Geographic Range

### Range Description:

This species is endemic to the Madeiran Archipelago, where it has recently been refound on the Ilhéu dos Desembarcadouros off the Pta. da Sao Lourenco, eastern Madeira, and on Ilhéu de Farol (D. Teixeira pers. comm. 2016). K. Groh (pers. comm. 2010) recorded two fresh shells from the peninsula but their origin is uncertain. In the Quaternary fossil deposits at Caniçal (Pta. da Sao Lourenco) shells of this species are abundant (Seddon 2008).

**Country Occurrence:**

**Native:** Portugal (Madeira)

## Population

A species that is present in low densities (D. Teixeira pers. comm. 2008). The species is still present on offshore islets, where it was recorded in 2000 in both islets, and since then the populations are stable during frequent visits to monitor this species.

**Current Population Trend:** Stable

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

The species is found on rocks within grassland and rocky slopes.

**Systems:** Terrestrial

## Use and Trade

The species is occasionally sold by shell collectors.

## Threats (see Appendix for additional information)

The main threats are from the presence of Gull colonies with their bird droppings causing acidification and disturbance from trampling. There is an additional threat from predation by mice. The islets are also subject to changing vegetation due to increased frequency of drought events.

## Conservation Actions (see Appendix for additional information)

There is a Life Project survey work ongoing to monitor the status of this species and a species conservation action plan is planned for 2019. The two islets are candidate AZE sites for this and other species. Ilhéu do Desembarcadouro is a Natura 2000 site (*Reserva Natural Integral do Ilhéu do Desembarcadouro*), and both islets are within the *Parque Natural da Madeira*.

## Credits

**Assessor(s):** Teixeira, D., Cameron, R., Groh, K. & Seddon, M.B.

**Reviewer(s):** Neubert, E. & Allen, D.J.

## Bibliography

IUCN. 2018. The IUCN Red List of Threatened Species. Version 2018-1. Available at: [www.iucnredlist.org](http://www.iucnredlist.org). (Accessed: 28 June 2018).

IUCN. 2019. The IUCN Red List of Threatened Species. Version 2019-1. Available at: [www.iucnredlist.org](http://www.iucnredlist.org). (Accessed: 21 March 2019).

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 2. National Museum of Wales, Cardiff.

## 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	Resident	Suitable	Yes
0. Root -> 6. Rocky areas (eg. inland cliffs, mountain peaks)	Resident	Suitable	Yes

### Threats

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

Threat	Timing	Scope	Severity	Impact Score
11. Climate change & severe weather -> 11.2. Droughts	Ongoing	Unknown	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.2. Species disturbance		
7. Natural system modifications -> 7.3. Other ecosystem modifications	Ongoing	Minority (50%)	Causing/could cause fluctuations	Low impact: 5
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.2. Species disturbance		
8. Invasive and other problematic species, genes & diseases -> 8.1. Invasive non-native/alien species/diseases -> 8.1.1. Unspecified species	Ongoing	Majority (50-90%)	Slow, significant declines	Medium impact: 6
	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 Research, Monitoring and Planning
Systematic monitoring scheme: Yes
In-Place Land/Water Protection and Management
Occur in at least one PA: Yes
Percentage of population protected by PAs (0-100): 100
Invasive species control or prevention: Unknown

### Conservation Actions Needed

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

<b>Conservation Actions Needed</b>
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3. Species management -> 3.2. Species recovery
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## Research Needed

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

<b>Research Needed</b>
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1. Research -> 1.2. Population size, distribution & trends
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## Additional Data Fields

<b>Distribution</b>
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Estimated area of occupancy (AOO) (km <sup>2</sup> ): 8
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Continuing decline in area of occupancy (AOO): Unknown
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Estimated extent of occurrence (EOO) (km <sup>2</sup> ): 8
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Continuing decline in extent of occurrence (EOO): Unknown
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Number of Locations: 2
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Lower elevation limit (m): 10
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Upper elevation limit (m): 80
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<b>Population</b>
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Continuing decline of mature individuals: Yes
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Extreme fluctuations: No
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Population severely fragmented: No
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<b>Habitats and Ecology</b>
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Continuing decline in area, extent and/or quality of habitat: Yes
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## Errata

**Errata reason:** An errata assessment was created in order to remove the distribution map from publication for this range-restricted and highly threatened snail, which had been published in error.

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