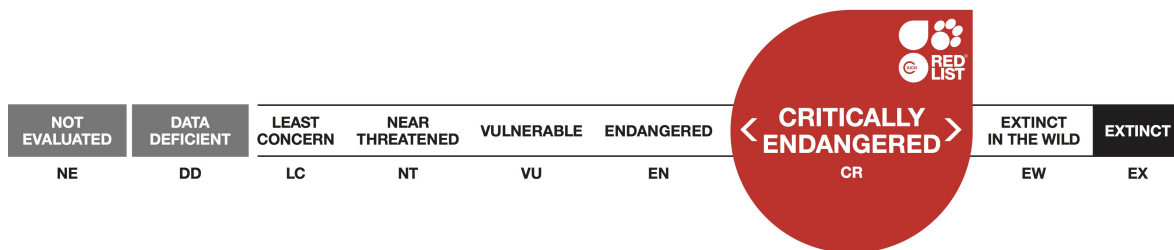


## *Boettgeria obesiuscula*

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



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## Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Clausiliidae

**Taxon Name:** *Boettgeria obesiuscula* (R.T. Lowe, 1863)

**Synonym(s):**

- *Clausilia obesiuscula* R.T. Lowe, 1863

**Taxonomic Source(s):**

Bank, R.A. 2013. Fauna Europaea: Mollusca: Gastropoda. Available at: <http://www.faunaeur.org>.

## Assessment Information

**Red List Category & Criteria:** Critically Endangered B1ab(ii,iii)+2ab(ii,iii) [ver 2.3](#)

**Year Published:** 2017

**Date Assessed:** December 2, 2016

**Justification:**

This species is restricted to the southeast of Madeira (between Funchal and Machico), found mainly in the area below the airport. It only remains in a very small proportion of the former habitat, and is considered to be threatened from future loss of habitat with planned developments of hotels and possible expansion of roads connecting to these developments and to the airport. It is considered Critically Endangered due to its restricted extent of occurrence (EOO; 4 km<sup>2</sup>), occurrence at a single location, known loss of subpopulations and the risk of continuing habitat loss.

**Previously Published Red List Assessments**

1996 – Vulnerable (VU)

<http://dx.doi.org/10.2305/IUCN.UK.1996.RLTS.T2845A9487649.en>

1994 – Rare (R)

## Geographic Range

**Range Description:**

This species is restricted to the southeast of Madeira (between Funchal and Machico, Madeiran Archipelago, Portugal), found mainly in the area below the airport, where the runway has been extended. There has been a decline in the number of sites close to the airport, with most eastern sites lost in the last decade. Now this species is restricted to a very small area beside the airport.

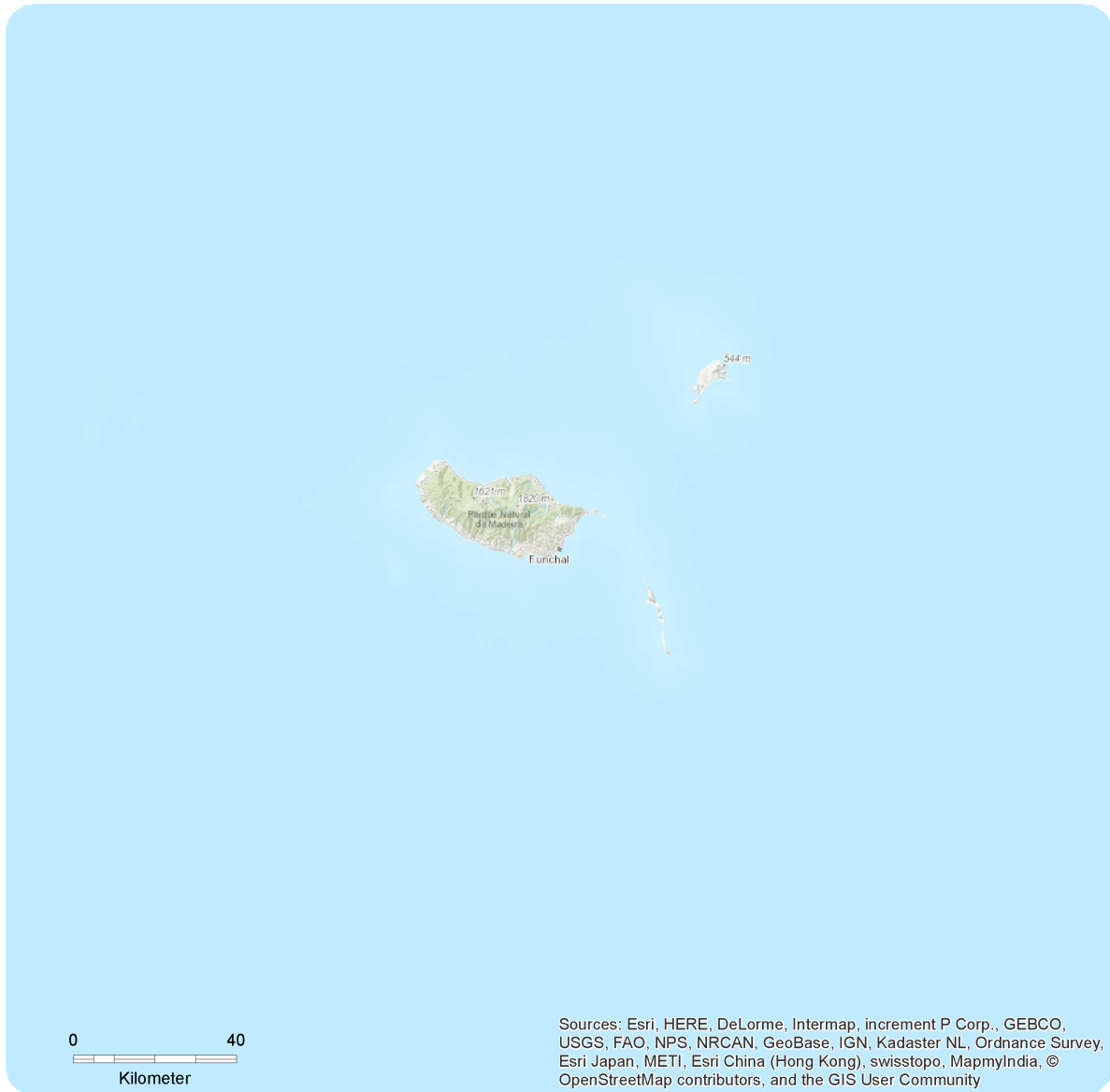
The original sites where Groh and Hemmen (1984) recorded the species further west at Funchal and Caniço have been lost in the last 2 decades, due increasing urbanization and enlargement of access roads to the Airport.

**Country Occurrence:**

**Native:** Portugal (Madeira)

# Distribution Map

*Boettgeria obesiuscula*



## Range

Extant (resident)

## Compiled by:

IUCN (International Union for 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

The species is rare and difficult to find, hence it is believed to have low density in suitable habitats. Loss of habitat in the last 20 years suggests that the population has declined.

**Current Population Trend:** Decreasing

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

The species is found in rocky outcrops, small walls and other stony areas within shrubby vegetation typical of the south Madeiran coast.

**Systems:** Terrestrial

## Use and Trade

The species is not known to be traded.

## Threats (see Appendix for additional information)

This species is threatened by habitat loss following the extension of the airport runway, as well as subsequent access road improvements, road widening schemes and some degradation of habitats with loss of agriculture. In the past the area also suffered from uncontrolled dumping.

A new threat to one of last sites within this location comes from possible redevelopment of the hotel complex beside the airport (Teixeira pers. comm. 2016).

## Conservation Actions (see Appendix for additional information)

No information is available.

## Credits

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

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

## Bibliography

Groh, K. and Hemmen, J. 1984. Beitrag zur quartären Molluskenfauna von Porto Santo (Madeira-Archipel). Courier Forschungsinstitut Senckenberg.

Groombridge, B. (ed.) 1994. *1994 IUCN Red List of Threatened Animals*. IUCN, Gland, Switzerland.

IUCN. 2017. The IUCN Red List of Threatened Species. Version 2017-3. Available at: [www.iucnredlist.org](http://www.iucnredlist.org). (Accessed: 7 December 2017).

## 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?
3. Shrubland -> 3.8. Shrubland - Mediterranean-type Shrubby Vegetation	-	Suitable	-

### Threats

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

Threat	Timing	Scope	Severity	Impact Score
4. Transportation & service corridors -> 4.1. Roads & railroads	Ongoing	Minority (50%)	Rapid declines	Medium impact: 6
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance		
6. Human intrusions & disturbance -> 6.3. Work & other activities	Ongoing	Majority (50-90%)	Slow, significant declines	Medium impact: 6
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		
9. Pollution -> 9.4. Garbage & solid waste	Past, unlikely to return	Minority (50%)	Causing/could cause fluctuations	Past impact
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.2. Species disturbance		

### 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: Unknown

### 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>)

<b>Research Needed</b>
1. Research -> 1.2. Population size, distribution & trends
3. Monitoring -> 3.1. Population trends
3. Monitoring -> 3.4. Habitat trends

## Additional Data Fields

<b>Distribution</b>
Estimated area of occupancy (AOO) (km <sup>2</sup> ): 4
Continuing decline in area of occupancy (AOO): Yes
Estimated extent of occurrence (EOO) (km <sup>2</sup> ): 4
Number of Locations: 1
Lower elevation limit (m): 50
Upper elevation limit (m): 250
<b>Habitats and Ecology</b>
Continuing decline in area, extent and/or quality of habitat: Yes

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