

## *Plutonia behnii*

Assessment by: Seddon, M.B.



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## Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Vitrinidae

**Taxon Name:** *Plutonia behnii* (R.T. Lowe, 1852)

### Taxonomic Notes:

Seddon (2008) noted that these animals were originally listed as *Vitrina* when they were described by Lowe and Gould, Waldén (1983) placed the species as *Phenacolimax* Stabile, 1864, but the main revision by Groh and Hemmen (1986) established the new subgenus *Madeirovitrina* for the Madeiran species. Work by Alonso *et al.* (2000) established the genus *Plutonia* for all the species of Vitrinidae in the Atlantic islands, including subgenera: *Guerrina*, *Madeirovitrina*, *Insulivitrina* and *Canarivitrina*. In contrast Schileyko (2003) elevated *Guerrina* and *Madeirovitrina* to full genera leaving only *Canarivitrina* in *Plutonia*. This treatment follows Alonso *et al.* (2000). Mordan and Martins (2001) reviewed the species from Azores and noted that all the Atlantic island species could be considered a monophyletic group based on the position of the penial retractor muscle.

## Assessment Information

**Red List Category & Criteria:** Least Concern [ver 3.1](#)

**Year Published:** 2013

**Date Assessed:** September 30, 2010

### Justification:

This species is assessed as least Concern (LC). It has a restricted extent of occurrence of less than 200 km<sup>2</sup> which meets the threshold Endangered B1, however it is known at more than 13 localities and the range is not fragmented. It should be reviewed on a regular basis as the habitat may be susceptible to decline in quality with changing rainfall patterns, as the species require high humidity in the forests.

## Geographic Range

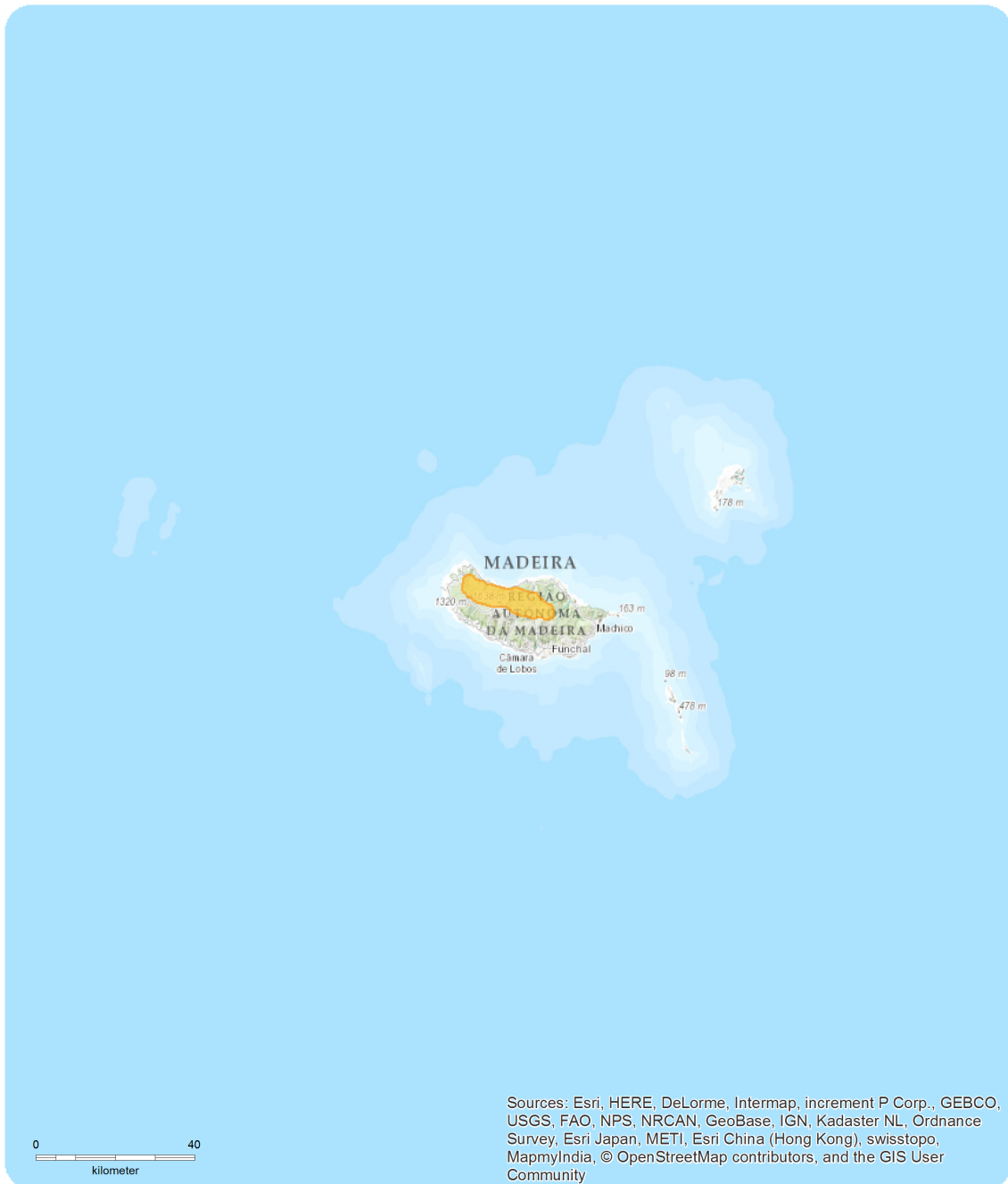
### Range Description:

This species is endemic to the Madeiran islands, where it is known to be restricted to the northern and central parts of Madeira, mainly along coast and laurisilva forests at intermediate elevations.

### Country Occurrence:

**Native:** Portugal (Madeira)

# Distribution Map



## *Plutonia behnii*

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 is thought to be stable.

**Current Population Trend:** Stable

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

This species is found from coastal up to intermediate elevations, on ground or on ledges of shaded crags, usually on leaves, mosses or trunks of trees in areas of high humidity.

**Systems:** Terrestrial

## Use and Trade

The species is not utilised.

## Threats

The habitat quality is not declining at present throughout these regions, although there are localised decline due to changing forest type, outside the protected areas.

## Conservation Actions (see Appendix for additional information)

There are no conservation actions for this species. Proposed conservation actions would include further surveys to determine whether the species is still stable, and a habitat management plan will be required for the areas under fire damage which includes this species as the species still has a restricted range. Habitat monitoring would benefit this species, as it is close to meeting the threatened species criteria, and as a semi-slug species it is more vulnerable to changes in microclimate, especially humidity. The species is found in Natura 2000 and UNESCO sites for 'Laurisilva of Madeira', a Special Protected Area in the interior of Madeira.

## Credits

**Assessor(s):** Seddon, M.B.

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

## Bibliography

Alonso, M., Valido, M.J., Groh, K., and Ibanez, M. 2000. *Plutonia (Canarivitrina)*, new subgenus, from the Canary Islands and the phylogenetic relationships of the subfamily Plutoninae (Gastropoda: Limacoidea: Vitrinidae). *Malacologia* 42: 39-62.

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Schileyko, A.A. 2003. Treatise on Recent Terrestrial Pulmonate Molluscs. Part 11. Trigonochlamydidae, Papillodermidae, Vitrinidae, Limacidae, Bielziidae, Agriolimacidae, Boettgerillidae, Camaenidae. *Ruthenica* Supplement 2(11): 1467-1626.

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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?
1. Forest -> 1.4. Forest - Temperate	-	Suitable	Yes
3. Shrubland -> 3.4. Shrubland - Temperate	-	Suitable	Yes

## 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: Yes

## Conservation Actions Needed

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

Conservation Actions Needed
2. Land/water management -> 2.1. Site/area management
2. Land/water management -> 2.3. Habitat & natural process restoration

## Research Needed

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

Research Needed
3. Monitoring -> 3.1. Population trends
3. Monitoring -> 3.4. Habitat trends

## Additional Data Fields

Distribution
Estimated area of occupancy (AOO) (km <sup>2</sup> ): 200
Estimated extent of occurrence (EOO) (km <sup>2</sup> ): 736
Number of Locations: 13

<b>Habitats and Ecology</b>
Continuing decline in area, extent and/or quality of habitat: No

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