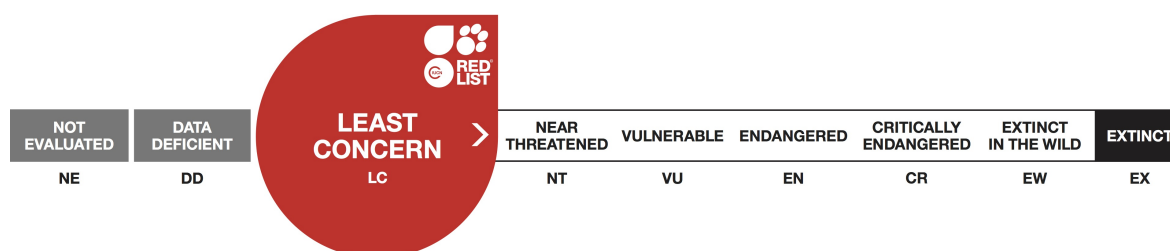


Plutonia brevispira

Assessment by: Frias Martins, A.



View on www.iucnredlist.org

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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Vitrinidae

Taxon Name: *Plutonia brevispira* (Morelet, 1860)

Synonym(s):

- *Plutonia brevispira* (Morelet, 1860)
- *Vitrina brevispira* Morelet, 1860

Taxonomic Source(s):

Giusti, F., Fiorentino, V., Benocci, A. and Manganelli, G. 2011. A survey of Vitrinid land snails (Gastropoda: Pulmonata: Limacoidea). *Malacologia* 53(2): 279-363.

Taxonomic Notes:

The group was revised in Mordan and Martins (2001).

Assessment Information

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

Year Published: 2013

Date Assessed: December 19, 2010

Justification:

This species is endemic to Santa Maria island, Azores, where it is present across the whole island, but it is mostly found on Pico Alto. There is a threat to the populations on Pico Alto from habitat deterioration due to changes in the humidity concentration, but this species has adapted well to secondary forests. Therefore this species has been assessed as Least Concern (LC).

Geographic Range

Range Description:

This species is endemic to the island of Santa Maria, Azores. Morelet (1860) erroneously stated its presence in São Miguel (Mordan and Martins 2001).

Country Occurrence:

Native: Portugal (Azores)

Distribution Map



Plutonia brevispira

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 can be found throughout the island of Santa Maria (Mordan and Martins 2001). It is relatively common on Pico Alto.

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)

This species lives in mountain forested habitats, endemic and secondary, under dead leaves and rotting branches, and among the rhizomes of *Hedychium gardneranum*.

Systems: Terrestrial

Use and Trade

There is no use or trade information for this species.

Threats (see Appendix for additional information)

This species has apparently adapted well to secondary forest, mainly where there is good undergrowth of *Hedychium*. Favourable habitats have been dwindling on Santa Maria, thus affecting many species with somewhat restricted distribution. Although distributed throughout the island, *P. brevispira* is most commonly found around Pico Alto and could thus be affected by this general trend of habitat deterioration, probably due to a change in humidity concentration (A. Martins pers. comm. 2010).

Conservation Actions (see Appendix for additional information)

The Pico Alto complex should be strictly protected in its entirety, down to its very base; its forested area, including the secondary forest, should be left untouched. The climate in Santa Maria (highest point about 550 m) is becoming drier (A. Martins pers. comm. 2010) and some as yet undescribed taxa, more or less circumscribed to Pico Alto, are becoming dangerously rare.

Credits

Assessor(s): Frias Martins, A.

Reviewer(s): Nichols, C. & Cuttelod, A.

Bibliography

IUCN. 2011. IUCN Red List of Threatened Species (ver. 2011.1). Available at: <http://www.iucnredlist.org>. (Accessed: 16 June 2011).

Mordan, P.B., and Martins, A.M.F. 2001. A systematic revision of the vitrinid semislugs of the Azores (Gastropoda:Pulmonata). *Journal of Molluscan Studies* 67: 343-368.

Morelet, A. 1860. *Notice sur l'histoire naturelle des Açores suivie d'une description des mollusques terrestres de cet archipel*. Baillière, Paris.

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?
1. Forest -> 1.4. Forest - Temperate	-	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	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion		

Conservation Actions Needed

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

Conservation Actions Needed
1. Land/water protection -> 1.1. Site/area protection
2. Land/water management -> 2.1. Site/area management

Additional Data Fields

Distribution
Estimated extent of occurrence (EOO) (km ²): 97
Population
Population severely fragmented: No

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