

Janulus stephanophorus

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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Gastrodontidae

Taxon Name: *Janulus stephanophorus* (Deshayes, 1850)

Synonym(s):

- *Helix stephanophorus* Deshayes, 1850

Taxonomic Source(s):

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

Assessment Information

Red List Category & Criteria: Vulnerable B2ab(iii) [ver 3.1](#)

Year Published: 2017

Date Assessed: December 2, 2016

Justification:

Global and European regional assessment: Vulnerable VU B2ab(iii)

EU 28 regional assessment: Vulnerable VU B2ab(iii)

The present species is endemic to the Madeiran Islands (Portugal), where it is found on the Island of Madeira only, at low elevations on the western part of the island and the northern coast. This species has a small area of occupancy (AOO 24 km²) and is only known from six sites. This is certainly a rare species, with a scattered distribution which appears to be real, based on the densities found on survey data for the last 40 years. In 2008 Seddon assessed this species as Vulnerable D2, based on five known sites and habitat degradation and loss.

The potential threats include forest fires on the southern coast and habitat degradation due to increased agricultural use, landslips and urban expansion. As a consequence, the species is assessed as Vulnerable (VU) under criteria B2ab(iii) given the extremely limited distribution and rarity.

Geographic Range

Range Description:

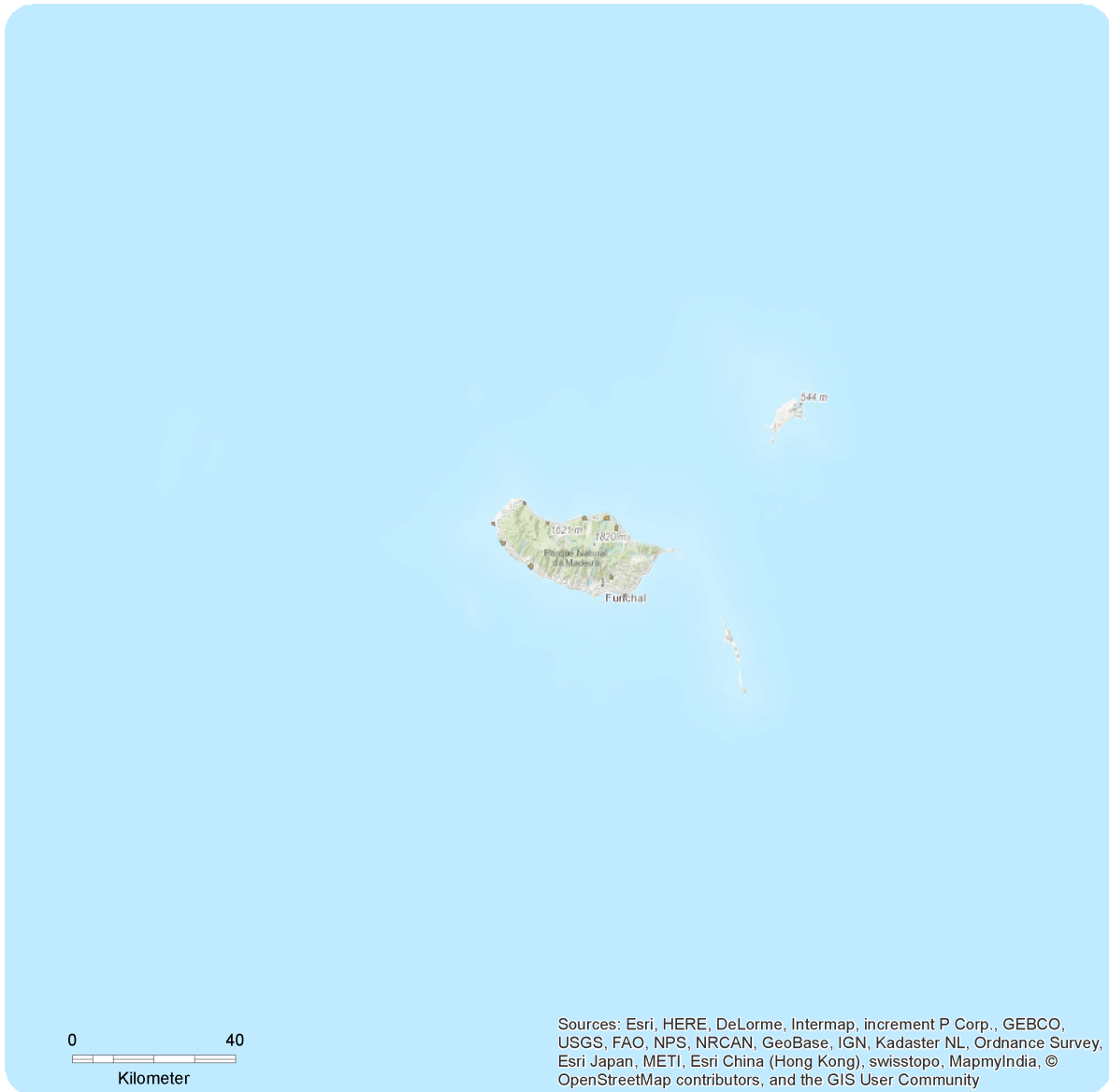
The present species is endemic to the Madeiran Islands (Portugal), where it is found on Madeira Island only at low elevations on the western part of the island and the northern coast. This species has a small area of occupancy (AOO, 20 km²) and it is only known from six independent sites at distinct locations. Despite extensive survey efforts on the last 40 years, the restricted range of the species has not been expanded, with only one new site added in recent years (Ribeira de Sao Jorge, Teixeira pers. comm. 2016).

Country Occurrence:

Native: Portugal (Madeira)

Distribution Map

Janulus stephanophorus



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 has recently been located at a new site on the Ribeira de Sao Jorge (Teixeira pers. comm. 2016), but other than this there are no recent data on the trend.

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)

The species occurs in the soil at the base of ferns and trees and amongst leaf litter on rock ledges in deep wooded ravines. It is present along the wetter coast.

Systems: Terrestrial

Use and Trade

The present species is not known to be utilized.

Threats (see Appendix for additional information)

The potential threats to the species include forest fires on the south coast and habitat degradation due to landslips and urban expansion. In the northern part of the island, the *Acacia* woodland is starting to get into the edge of the Laurisilva and this is likely to impact the habitats in 15 to 20 years in terms of habitat degradation. In the northwestern part of the habitat, there is a return to agriculture and this may also lead to decline in the habitats.

Conservation Actions (see Appendix for additional information)

Wells and Chatfield (1992) noted that Seddon (pers. comm. 1990) and Cameron (in litt. 1991) both suggested that the species should be considered as Rare. Seddon (2008) provided an assessment as Vulnerable (D2) based on five known locations. There are no known specific actions in place for this species and most of the known sites lie outside protected areas.

Credits

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

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

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

Threats

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

Threat	Timing	Scope	Severity	Impact Score
10. Geological events -> 10.3. Avalanches/landslides	Ongoing	Minority (50%)	Negligible declines	Low impact: 4
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance		
1. Residential & commercial development -> 1.1. Housing & urban areas	Ongoing	Minority (50%)	Negligible declines	Low impact: 4
	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		
2. Agriculture & aquaculture -> 2.1. Annual & perennial non-timber crops -> 2.1.1. Shifting agriculture	Ongoing	Minority (50%)	Negligible declines	Low impact: 4
	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		
2. Agriculture & aquaculture -> 2.2. Wood & pulp plantations -> 2.2.3. Scale Unknown/Unrecorded	Ongoing	Minority (50%)	Negligible declines	Low impact: 4
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance		
7. Natural system modifications -> 7.1. Fire & fire suppression -> 7.1.1. Increase in fire frequency/intensity	Ongoing	Minority (50%)	Negligible declines	Low impact: 4
	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		

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>)

Research Needed
1. Research -> 1.2. Population size, distribution & trends
3. Monitoring -> 3.1. Population trends

Additional Data Fields

Distribution
Estimated area of occupancy (AOO) (km ²): 24
Number of Locations: 5-6
Lower elevation limit (m): 0
Upper elevation limit (m): 500
Population
Population severely fragmented: No
Habitats and Ecology
Continuing decline in area, extent and/or quality of habitat: Yes
Generation Length (years): 1-5

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