

Leiostyla laurinea

Assessment by: Seddon, M.



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Citation: Seddon, M. 2013. *Leiostyla laurinea*. *The IUCN Red List of Threatened Species 2013*: e.T11468A3281367. <http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T11468A3281367.en>

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Taxonomy

| Kingdom | Phylum | Class | Order | Family |
|----------|----------|------------|-----------------|-----------|
| Animalia | Mollusca | Gastropoda | Stylommatophora | Lauriidae |

Taxon Name: *Leiostyla laurinea* (R.T. Lowe, 1852)

Assessment Information

Red List Category & Criteria: Vulnerable B1ab(iii); D2 [ver 3.1](#)

Year Published: 2013

Date Assessed: September 30, 2010

Justification:

This species is rare, being restricted to the laurisilva zone, with a small area of occupancy below the threshold of 100 km², with fewer than 10 known localities and possible degradation of habitat with changing humidity conditions and ageing trees in the laurisilva zone. In addition there is the possible disturbance from fire, and rainstorms based on recent events on the island (Seddon and Abreu, pers. comm., 2010). As such, the species has been assessed as Vulnerable (VU) B2ab(iii).

The previous assessment for this species was Conservation Dependant, as it occurred with Natural Park regions. This category has now been removed from the IUCN Red List categories, so the species reverts to Vulnerable.

Previously Published Red List Assessments

1996 – Lower Risk/conservation dependent (LR/cd)

1994 – Rare (R)

Geographic Range

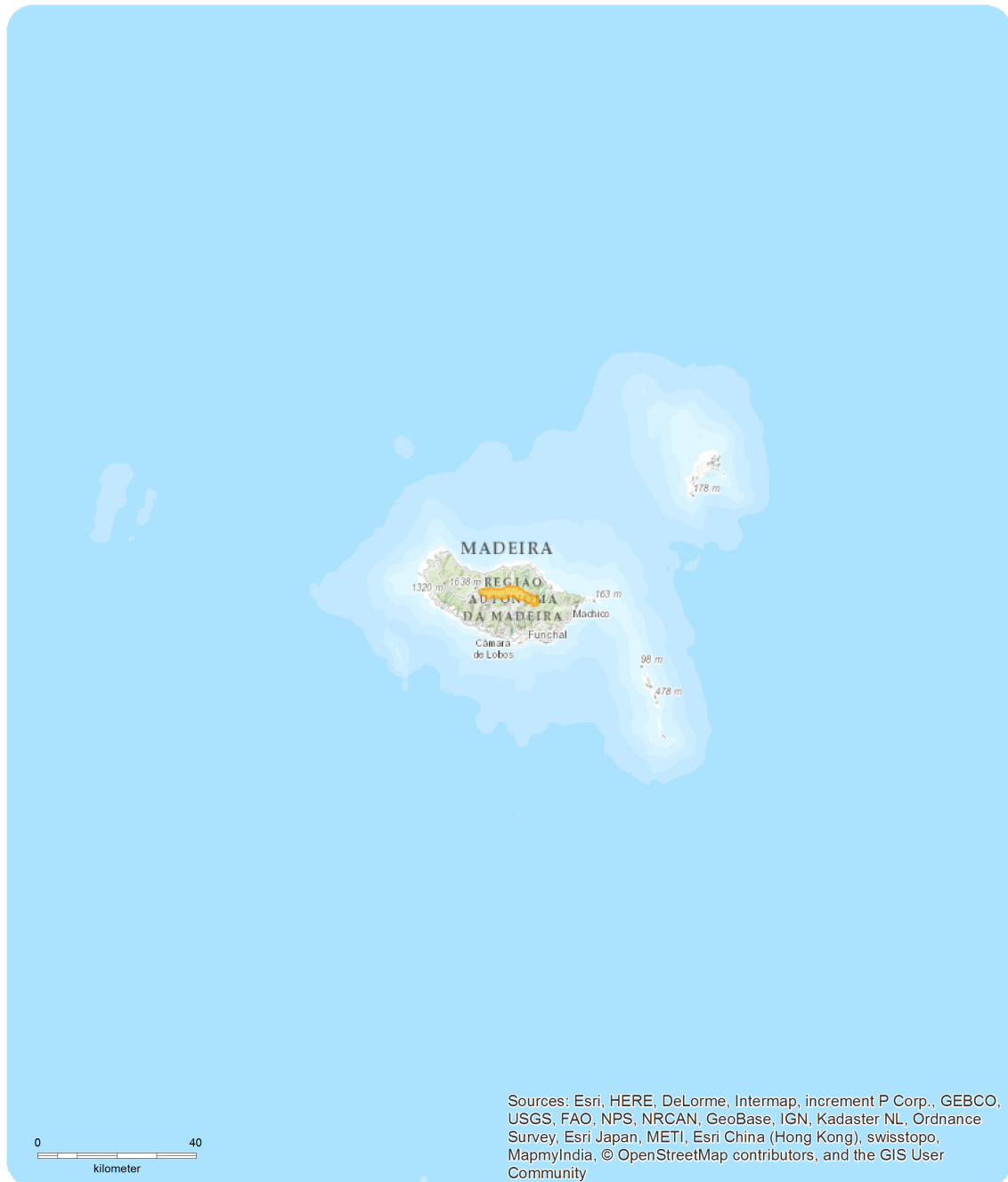
Range Description:

This species is endemic to the Madeiran islands, it is only found at intermediate elevations in the Laurisilva forest of central Madeira, on the southern valleys only at the extreme end of Ribeira do Santa Lucia and below Pico Arreiro, on the northern valleys and other scattered locations (Seddon 2008). It has a restricted extent of occurrence of 300 km² and is known from six locations (Seddon, pers. comm., 2010).

Country Occurrence:

Native: Portugal (Madeira)

Distribution Map



Leiostyla laurinea

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

There is insufficient data to obtain population trends.

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)

This species is mainly found on the tree trunks of large Laurisilva trees (Seddon 2008).

Systems: Terrestrial

Use and Trade

The species is not known to be traded.

Threats (see Appendix for additional information)

The species lives on mature trees and so there is a possible risk due to ageing trees in the laurisilva zone (Cameron, pers. comm., 2010). The major threats are the loss of the large trees and the lack of regeneration of large trees and in recent years, there have been major storm events that have the potential to damage large trees (Seddon and Abreu, pers. comm., 2010), so if these events increase in frequency, it may impact this species. Other possible threats include degradation of habitat with changing humidity conditions (off-take of water and changing climatic patterns) and possible disturbance from fire.

Conservation Actions (see Appendix for additional information)

Part of the range falls within a designated protected area, however there are no known actions for this species. Conservation actions include habitat monitoring for indication of population trends and forest management to ensure presence of large trees is maintained.

Credits

Assessor(s): Seddon, M.

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

Contributor(s): Abreu, C. & Cameron, R.

Bibliography

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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.

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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 |
|--|-----------|---|----------------------------|------------------|
| 7. Natural system modifications -> 7.1. Fire & fire suppression -> 7.1.1. Increase in fire frequency/intensity | Ongoing | Minority (50%) | Rapid declines | Medium impact: 6 |
| | Stresses: | 1. Ecosystem stresses -> 1.2. Ecosystem degradation | | |
| 11. Climate change & severe weather -> 11.4. Storms & flooding | Ongoing | Minority (50%) | Slow, significant declines | Low impact: 5 |
| | Stresses: | 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: Yes |
| Percentage of population protected by PAs (0-100): 50 |

Conservation Actions Needed

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

| Conservation Actions Needed |
|---|
| 2. Land/water management -> 2.1. Site/area management |

Research Needed

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

| |
|------------------------|
| Research Needed |
|------------------------|

| |
|--------------------------------------|
| 3. Monitoring -> 3.4. Habitat trends |
|--------------------------------------|

Additional Data Fields

| |
|---------------------|
| Distribution |
|---------------------|

| |
|--|
| Estimated extent of occurrence (EOO) (km ²): 300 |
|--|

| |
|------------------------|
| Number of Locations: 6 |
|------------------------|

| |
|-----------------------------|
| Habitats and Ecology |
|-----------------------------|

| |
|---|
| Continuing decline in area, extent and/or quality of habitat: Yes |
|---|

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