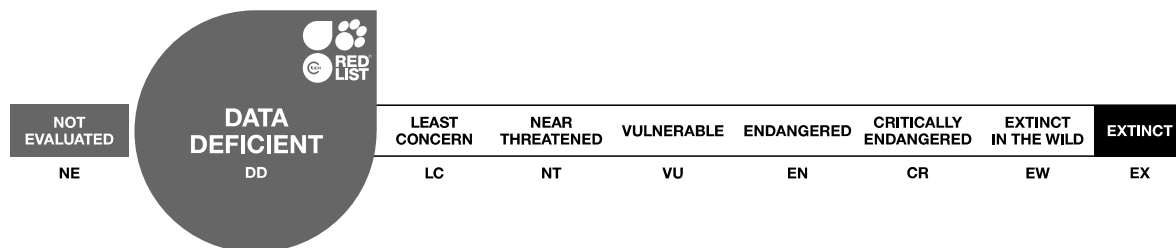


Meloboris insularis

Assessment by: Nunes, R. & Borges, P.A.V.



View on www.iucnredlist.org

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Taxonomy

| Kingdom | Phylum | Class | Order | Family |
|----------|------------|---------|-------------|---------------|
| Animalia | Arthropoda | Insecta | Hymenoptera | Ichneumonidae |

Scientific Name: *Meloboris insularis* Horstmann, 1980

Assessment Information

Red List Category & Criteria: Data Deficient [ver 3.1](#)

Year Published: 2020

Date Assessed: March 27, 2018

Justification:

Meloboris insularis is an endemic ichneumonid wasp species of the Azores (Portugal), having been recorded from Faial island. From the historical data, this species could have a very small Extent of Occurrence (16 km²) and Area of Occupancy (16 km²). Despite the location of its description being currently a Nature Reserve (Caldeira do Faial), it is possible that this species has declined in the past as a result of human activity. However, the present situation of this species needs to be further assessed, further research is needed into its population, distribution, threats, ecology, life history and indigenous host species. Conservation/restoration of native habitats, as well as invasive plant species control, could potentially also aid this species' conservation. Based upon the lack of recent data regarding this species population, distribution, threats, ecology and hosts, this species is assessed as Data Deficient (DD).

Geographic Range

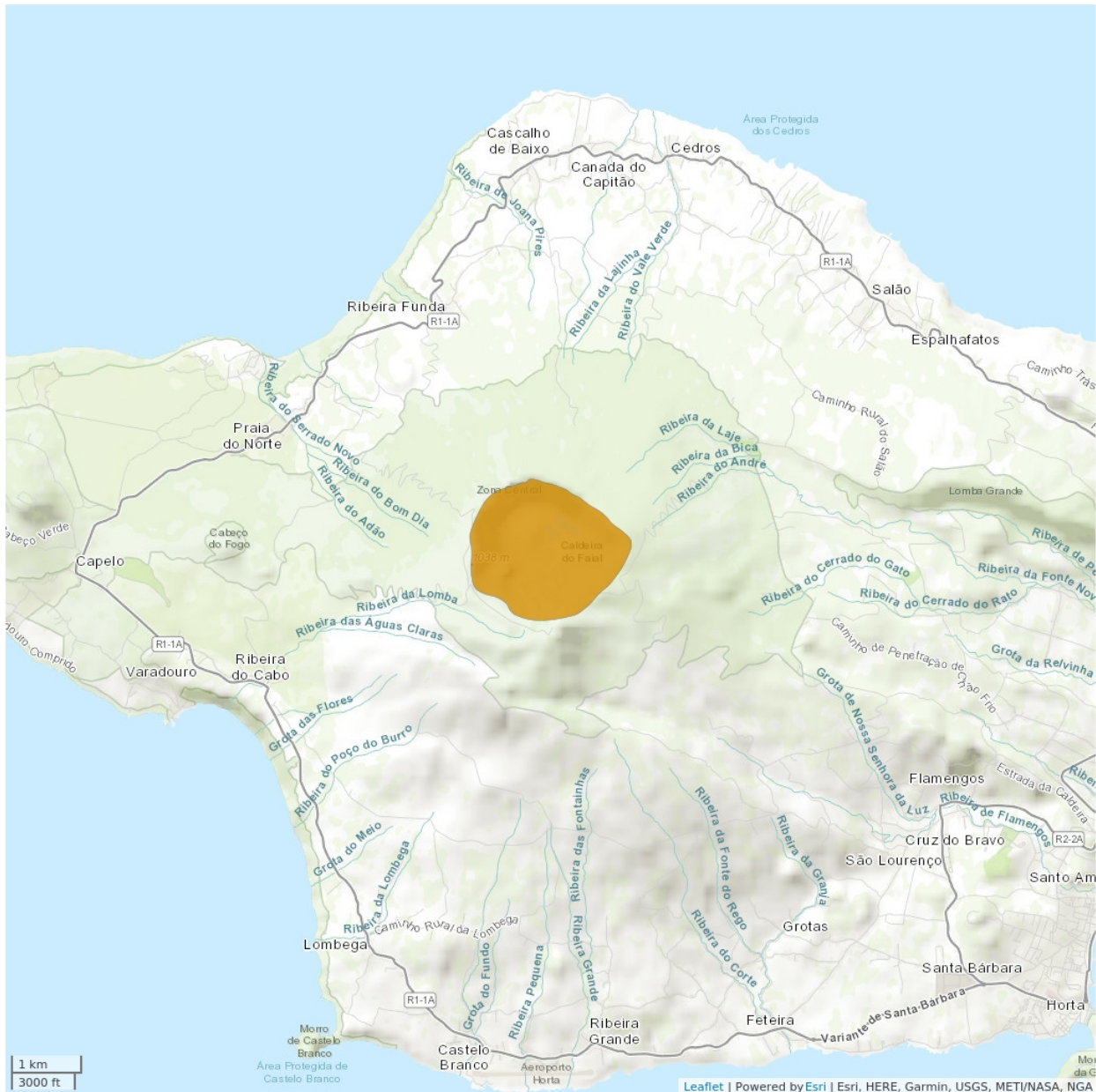
Range Description:

Meloboris insularis is an endemic ichneumonid wasp species from the island of Faial (Azores, Portugal), having been collected in Caldeira do Faial, currently a Nature Reserve. Based on the data from the 1938 expedition of Frey, Stora and Cedercreutz, the Extent of Occurrence (EOO) would be ca. 16 km² and the Area of Occupancy (AOO) would be ca. 16 km². However, there is no recent information regarding the distribution of this species.

Country Occurrence:

Native, Extant (resident): Portugal (Azores)

Distribution Map

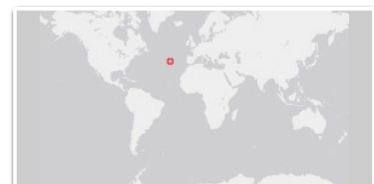
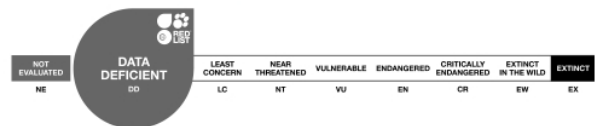


Legend

EXTANT (RESIDENT)

Compiled by:

Azorean Biodiversity Group 2018



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 are no available data on the population size and trend of this species.

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)

The ecology and traits of this species are unknown. Other ichneumonid wasps from the subfamily Campopleginae, tribe Limnertini are koinobiont endoparasitoids, mainly of Lepidoptera larvae, but for some species also of Coleoptera larvae (Goulet and Huber 1993). This species was collected in a area that is currently a Nature Reserve (Caldeira do Faial).

Systems: Terrestrial

Threats (see Appendix for additional information)

A lack of information regarding the present status of this species or its unknown indigenous hosts precludes an assessment of potential threats. Nevertheless, this species might be affected by future habitat declines as a consequence of climate change (Ferreira *et al.*, 2016). It can be assumed that despite the area where it was collected being currently a Nature Reserve, habitat degradation caused by past and present human disturbance and land use changes, or by invasive species might also potentially affect or have affected this species or its indigenous hosts.

Conservation Actions (see Appendix for additional information)

This species is not protected by regional law. Further research is needed into its population, distribution, threats, ecology and life history as well as into its hosts. Conservation/restoration of native habitats, as well as invasive plant species control, could potentially aid this species' conservation. Historically at least, this species was present in areas that are currently included in the Natural Park of Faial.

Credits

Assessor(s): Nunes, R. & Borges, P.A.V.

Reviewer(s): Russell, N.

Bibliography

Ferreira, M.T., Cardoso, P., Borges, P.A.V., Gabriel, R., Azevedo, E.B., Reis, F., Araújo, M.B. and Elias, R.B. 2016. Effects of climate change on the distribution of indigenous species in oceanic islands (Azores). *Climate Change* 138(3-4): 603-615.

Goulet, H. and Huber, J.T. 1993. *Hymenoptera of the World: an identification guide to families*. Research Branch, Agriculture Canada, Ottawa.

IUCN. 2020. The IUCN Red List of Threatened Species. Version 2020-3. Available at: www.iucnredlist.org. (Accessed: 10 December 2020).

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External Resources

For [Supplementary Material](#), and 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 | Resident | Suitable | Yes |
| 5. Wetlands (inland) -> 5.6. Wetlands (inland) - Seasonal/Intermittent Freshwater Lakes (over 8ha) | Resident | Suitable | Yes |

Threats

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

| Threat | Timing | Scope | Severity | Impact Score |
|--|-----------|---|----------------------------------|--------------|
| 8. Invasive and other problematic species, genes & diseases -> 8.1. Invasive non-native/alien species/diseases -> 8.1.1. Unspecified species | Ongoing | Unknown | Causing/could cause fluctuations | Unknown |
| | Stresses: | 1. Ecosystem stresses -> 1.2. Ecosystem degradation 1. Ecosystem stresses -> 1.3. Indirect ecosystem effects | | |
| 11. Climate change & severe weather -> 11.1. Habitat shifting & alteration | Future | Unknown | Slow, significant declines | Unknown |
| | Stresses: | 1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 1. Ecosystem stresses -> 1.3. Indirect ecosystem effects | | |

Conservation Actions in Place

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

| Conservation Action in Place |
|--|
| In-place research and monitoring |
| Action Recovery Plan: No |
| Systematic monitoring scheme: No |
| In-place land/water protection |
| Occurs in at least one protected area: Yes |

Conservation Actions Needed

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

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

| |
|--|
| Conservation Action Needed |
| 2. Land/water management -> 2.2. Invasive/problematic species control |
| 2. Land/water management -> 2.3. Habitat & natural process restoration |

Research Needed

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

| |
|--|
| Research Needed |
| 1. Research -> 1.2. Population size, distribution & trends |
| 1. Research -> 1.3. Life history & ecology |
| 1. Research -> 1.5. Threats |
| 3. Monitoring -> 3.1. Population trends |
| 3. Monitoring -> 3.4. Habitat trends |

Additional Data Fields

| |
|---|
| Distribution |
| Estimated area of occupancy (AOO) (km ²): 16 |
| Continuing decline in area of occupancy (AOO): Unknown |
| Extreme fluctuations in area of occupancy (AOO): Unknown |
| Estimated extent of occurrence (EOO) (km ²): 16 |
| Continuing decline in extent of occurrence (EOO): Unknown |
| Extreme fluctuations in extent of occurrence (EOO): Unknown |
| Continuing decline in number of locations: Unknown |
| Extreme fluctuations in the number of locations: Unknown |
| Lower elevation limit (m): 600 |
| Upper elevation limit (m): 900 |
| Population |
| Continuing decline of mature individuals: Unknown |
| Extreme fluctuations: Unknown |
| Population severely fragmented: Unknown |

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