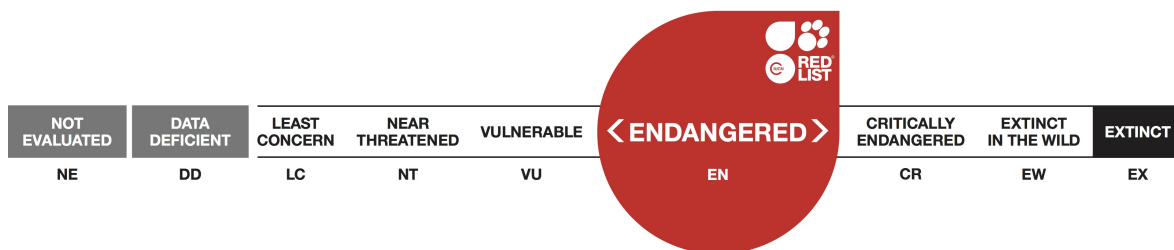


Gonepteryx maderensis, Madeiran Brimstone

Assessment by: van Swaay, C., Wynhoff, I., Verovnik, R., Wiemers, M., López Munguira, M., Maes, D., Sasic, M., Verstrael, T., Warren, M. & Settele, J.



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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Arthropoda	Insecta	Lepidoptera	Pieridae

Taxon Name: *Gonepteryx maderensis* Felder, 1862

Common Name(s):

- English: Madeiran Brimstone

Assessment Information

Red List Category & Criteria: Endangered B1ab(i,iii) [ver 3.1](#)

Year Published: 2010

Date Assessed: January 29, 2009

Justification:

The survival of the species is bound to the management of its remaining habitat, the laurel forest, which is still threatened although most of it is legally protected. Its extent of occurrence (EOO) is less than 500 km², it has fewer than 5 locations and a continuing decline (Van Swaay & Warren, 1999). Therefore classified as Endangered, in the EU27 countries as well as in Europe and globally.

Previously Published Red List Assessments

2000 – Endangered (EN)

Geographic Range

Range Description:

The Madeiran Brimstone is restricted to the island of Madeira at elevations between 500-1,500 m. This is a European endemic species.

Country Occurrence:

Native: Portugal (Madeira)

Distribution Map

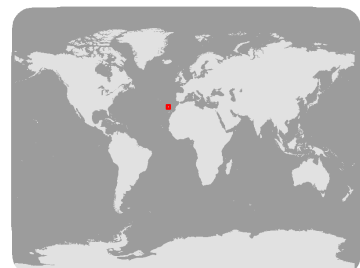


Gonepteryx maderensis

Range

■ Extant (resident)

Compiled by:
Butterfly Conservation Europe
2009



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 is a local species, restricted to (semi-) natural areas. This butterfly has low population densities. It is declining on Madeira.

Current Population Trend: Decreasing

Habitat and Ecology (see Appendix for additional information)

The Madeiran Brimstone occurs only in the dense primary laurel forest at middle altitudes. The larval foodplant is *Rhamnus glandulosa* (*Rhamnaceae*). The number of generations per year is unknown. Habitats: broad-leaved evergreen woodland (50%), mesophile grasslands (50%).

Systems: Terrestrial

Use and Trade

All butterflies are collected to some extent, but only for the extremely rare species it can be a problem and the trade in Europe is generally at a low level compared to other continents. There is no specific trade information for this species.

Threats (see Appendix for additional information)

The species is restricted to primary vegetation, susceptible to human interference. The most direct threat comes from habitat loss because of reclamation and change to agricultural land.

Conservation Actions (see Appendix for additional information)

More research is needed urgently on the distribution and ecology of the species. Suitable habitats should be protected and appropriately managed. The effects of conservation actions should be monitored by a Butterfly Monitoring Scheme.

Credits

Assessor(s): van Swaay, C., Wynhoff, I., Verovnik, R., Wiemers, M., López Munguira, M., Maes, D., Sasic, M., Verstrael, T., Warren, M. & Settele, J.

Reviewer(s): Lewis, O. (Butterfly RLA) & Cuttelod, A. (IUCN Red List Unit)

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Franquinho Aguiar, A.M., Wakeham-Dawson, A., Freitas Jesus, J.G. 2009. The life cycle of the little known and endangered endemic Madeiran Brimstone Butterfly *Gonepteryx rhamni* Felder, 1862 (Pieridae). *Nota lepidopterologica* 32(2): 145-157.

IUCN. 2010. IUCN Red List of Threatened Species (ver. 2010.1). Available at: www.iucnredlist.org. (Accessed: 10 March 2010).

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	-

Threats

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

Threat	Timing	Scope	Severity	Impact Score
1. Residential & commercial development -> 1.1. Housing & urban areas	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		
1. Residential & commercial development -> 1.3. Tourism & recreation areas	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		
2. Agriculture & aquaculture -> 2.1. Annual & perennial non-timber crops -> 2.1.4. Scale Unknown/Unrecorded	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		
2. Agriculture & aquaculture -> 2.2. Wood & pulp plantations -> 2.2.3. Scale Unknown/Unrecorded	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		
2. Agriculture & aquaculture -> 2.3. Livestock farming & ranching -> 2.3.1. Nomadic grazing	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		
2. Agriculture & aquaculture -> 2.3. Livestock farming & ranching -> 2.3.2. Small-holder grazing, ranching or farming	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		
5. Biological resource use -> 5.3. Logging & wood harvesting -> 5.3.5. Motivation Unknown/Unrecorded	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation		
7. Natural system modifications -> 7.1. Fire & fire suppression -> 7.1.3. Trend Unknown/Unrecorded	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation		

8. Invasive & other problematic species & genes -> 8.1. Invasive non-native/alien species -> 8.1.1. Unspecified species	Ongoing	-	-	-
Stresses:		1. Ecosystem stresses -> 1.2. Ecosystem degradation		

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
1. Research -> 1.1. Taxonomy
1. Research -> 1.2. Population size, distribution & trends
1. Research -> 1.3. Life history & ecology
1. Research -> 1.5. Threats
1. Research -> 1.6. Actions
3. Monitoring -> 3.1. Population trends

Additional Data Fields

Population
Population severely fragmented: No

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