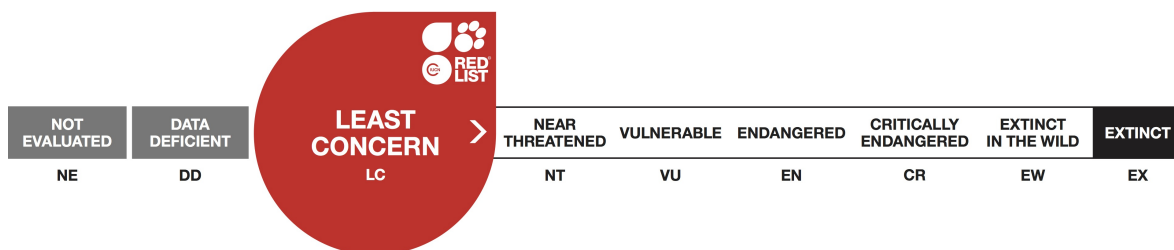


Andrena maderensis

Assessment by: Roberts, S. & de Meulemeester, T.



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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Arthropoda	Insecta	Hymenoptera	Andrenidae

Taxon Name: *Andrena maderensis* Cockerell, 1922

Synonym(s):

- *Andrena portosanctana* Cockerell, 1922

Taxonomic Source(s):

Gusenleitner, F. and Schwarz, M. 2002. Weltweite Checkliste der Bienengattung *Andrena* mit Bemerkungen und Ergänzungen zu paläarktischen Arten (Hymenoptera, Apidae, Andreninae, *Andrena*). *Entomofauna, Supplement 12*: 1-280.

Taxonomic Notes:

While *A. maderensis fratella* Warncke, 1968 was described from Morocco, it seems that *A. maderensis* is endemic to the main island of Madeira and *A. fratella* is a distinct species (E. Scheuchl pers. comm. 2014).

Assessment Information

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

Year Published: 2015

Date Assessed: September 23, 2014

Justification:

Listed as Least Concern as the species is common in Madeira, the population seems to be stable and it has a broad tolerance of habitats. However, research should be conducted on the population size, trends and specific threats to the species.

Geographic Range

Range Description:

Andrena (Suandrena) maderensis is endemic to the island of Madeira (Kratochwil and Scheuchl 2013, Kratochwil *et al.* 2014).

Country Occurrence:

Native: Portugal (Madeira)

Population

There is no information available on the population size and trend of the species. However, the species is widely distributed across Madeira and the population there is presumed to be quite large and stable overall.

Current Population Trend: Stable

Habitat and Ecology (see Appendix for additional information)

Andrena maderensis is quite ubiquitous on the island of Madeira and it is thought to have a catholic choice of habitats, being present in dune areas, fallow lands and ruderal sites with suitable pollen sources. The range of altitudes extends from sea level up to 950 m asl. According to the differentiation into thermotypes and ombrotypes (Capelo *et al.* 2004), the localities where *A. maderensis* has been recorded correspond mainly to the temperature zones 1 and 2 (infra-Mediterranean), but also to frequency zones 3 and 4 (lower and upper thermo-Mediterranean). High abundances were reached in humidity class 1 (dry), 2 (lower subhumid), 3 (upper subhumid) and 4 (lower humid). The main vegetation zones are zone 1 (*Mayteno umbellatae-Oleo maderensis sigmetum*), zone 2 (*Helichryso melaleuci-Sideroxylo marmulanae sigmetum*), and zones 3 and 4 (*Semele androgynae-Apollonio barbujanae sigmetum*) (Kratochwil *et al.* 2014).

The nesting and pollen foraging biology is not known but the species is reported to visit *Brassica*, *Rapistrum rugosum*, *Raphanus raphanistrum* (Brassicaceae) (Fellendorf *et al.* 1999), *Oxalis pes-caprae* (Oxalidaceae) and *Calendula* species (Asteraceae) (Cockerell 1922). *Andrena maderensis* is one of the principal pollinators of cabbage plants on Madeira.

The flower visitation include records of 43 females on Brassicaceae (*Sinapidendron angustifolium*, *Raphanus raphanistrum* ssp. *raphanistrum*, *Rapistrum rugosum*, *Brassica oleracea*, *Sinapis arvensis*), five females on Asteraceae (*Crepis vesicaria* ssp. *haenseleri*, *Sonchus oleraceus*) and one female on Geraniaceae (*Geranium maderense*). The species is therefore assumed to be oligolectic on Brassicaceae (Kratochwil *et al.* 2014).

While, *A. maderensis* flies from March to June, the latest literature states that flight activity lasts from February to May. The highest abundances of males and females are in April (Kratochwil *et al.* 2014).

Systems: Terrestrial

Use and Trade

The species is not traded or exploited commercially.

Threats

Andrena maderensis is only known from a small area. However, the specific threats to this species remain unknown. Given its presumed catholic choice of habitat within the Madeira island group, the threats are likely to be minimal as the localities where the species is found represent a wide range of habitats.

Conservation Actions (see Appendix for additional information)

The species is not listed on any National Red Lists or Red Data Books and is not the subject of any targeted conservation action. It is not known if it is found in any protected areas. Further research is required to establish the details of the population size and trends and specific threats to the species.

Credits

Assessor(s): Roberts, S. & de Meulemeester, T.

Reviewer(s): García, M., Scheuchl, E. & Kemp, J.R.

Bibliography

Capelo, J., de Sequeira, M., Jardim, R. and Costa, J.C. 2004. Guia da Excursão geobotânica dos V Encontros Alfa 2004 à ilha da Madeira. *Quercetea* 6: 5-45.

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Kratochwil, A., Schwabe, A. and Scheuchl, E. 2014. *Andrena (Suandrena) portosanctana* COCKERELL, 1922 and *A. (Suandrena) maderensis* COCKERELL, 1922 – new taxonomical and ecological data for two closely related endemic bee species of the Madeira Archipelago, Portugal. *Linzer biologische Beiträge* 46(2 (in press)).

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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?
3. Shrubland -> 3.8. Shrubland - Mediterranean-type Shrubby Vegetation	Resident	Suitable	Yes
13. Marine Coastal/Supratidal -> 13.3. Marine Coastal/Supratidal - Coastal Sand Dunes	Resident	Suitable	Yes
14. Artificial/Terrestrial -> 14.2. Artificial/Terrestrial - Pastureland	Resident	Suitable	Yes

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

Research Needed

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

Research Needed
1. Research -> 1.2. Population size, distribution & trends
1. Research -> 1.5. Threats

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