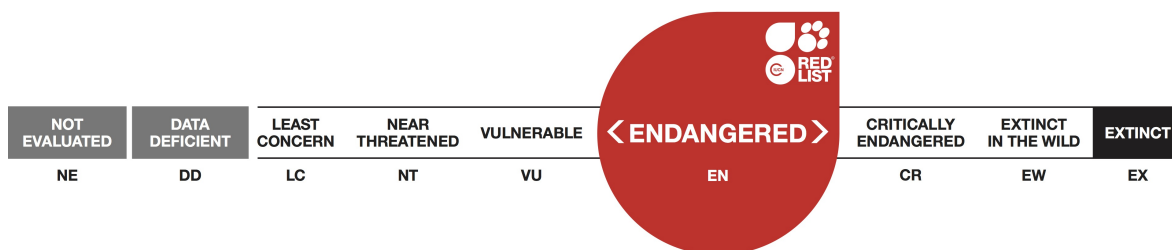


Calliphona alluaudi, Gran Canaria Green Bush-cricket

Assessment by: Hochkirch, A.



View on www.iucnredlist.org

Citation: Hochkirch, A. 2016. *Calliphona alluaudi*. *The IUCN Red List of Threatened Species 2016*: e.T16895615A50811123. <http://dx.doi.org/10.2305/IUCN.UK.2016-3.RLTS.T16895615A50811123.en>

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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae

Taxon Name: *Calliphona alluaudi* Bolívar, 1893

Common Name(s):

- English: Gran Canaria Green Bush-cricket

Taxonomic Source(s):

Eades, D.C., Otte, D., Cigliano, M.M. and Braun, H. 2014. Orthoptera Species File. Version 5.0/5.0. Available at: <http://Orthoptera.SpeciesFile.org>.

Assessment Information

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

Year Published: 2016

Date Assessed: May 2, 2016

Justification:

The Gran Canaria Green Bush-cricket is endemic to Gran Canaria, where it occurs in forested habitats. Its extent of occurrence (EOO) is 718 km² and there is a continuing decline in the EOO, area of occupancy (AOO), number of subpopulations, extent and quality of habitat as well as number of mature individuals. The main threat to the species is the increasing frequency of wildfires. The species occurs in five locations. It is therefore assessed as Endangered (EN).

Previously Published Red List Assessments

2012 – Endangered (EN) – <http://dx.doi.org/10.2305/IUCN.UK.2012.RLTS.T16895615A16897003.en>

Geographic Range

Range Description:

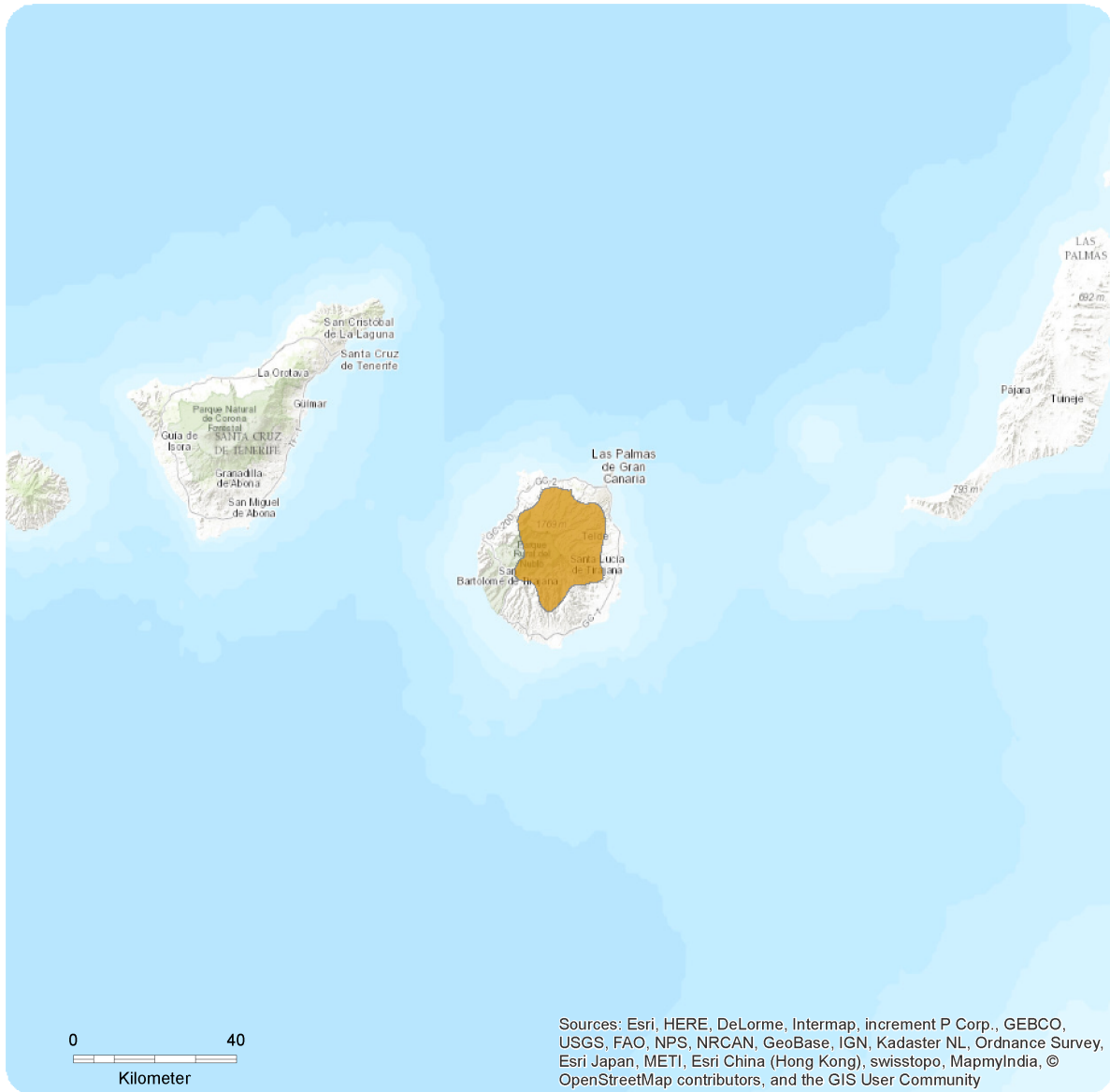
This species is endemic to Gran Canaria, where it mainly occurs at the northern solpes and in the centre of the island (Bland *et al.* 1996, Arnedo *et al.* 2008). Its extent of occurrence (EOO) is 718 km².

Country Occurrence:

Native: Spain (Canary Is.)

Distribution Map

Calliphona alluaudi



Range

Extant (resident)

Compiled by:

SSC Grasshopper Specialist Group



The boundaries and names shown and the designations used on this map do not imply any official endorsement, acceptance or opinion by IUCN.



Population

A recent study showed that the species has lost nearly all subpopulations in the southwestern part of the island, where a large wildfire occurred in 2007 (A. Miller pers. comm. 2013). This fire destroyed c. 25% of its habitat. It is likely that other wildfires on Gran Canaria had similar effects on this species and this threat is likely to continue in the future. The population trend is decreasing, and there is a continuing decline in the extent of occurrence (EOO), area of occupancy (AOO), number of subpopulations, extent and quality of habitat and number of mature individuals.

Current Population Trend: Decreasing

Habitat and Ecology (see Appendix for additional information)

This species occurs in forest habitats. It is not very specialised and can also be found in gardens. Its altitudinal range is 300 - 1,300 m.

Systems: Terrestrial

Use and Trade

This species is not utilised.

Threats (see Appendix for additional information)

This species is mainly threatened by increasing wildfire frequencies on Gran Canaria. A wildfire in 2007 in the southwestern part of the island destroyed c. 25% of its habitat. Based on this threat, the number of locations is estimated to be five. The species may also be affected by the ongoing urbanisation of the island, the increasing number of droughts caused by climate change and the risk of landslides.

Conservation Actions (see Appendix for additional information)

There are no specific conservation actions in place for this species, but it occurs in protected areas, such as the Parque Natural de Tamadaba. A proper fire management needs to be implemented to avoid future declines of the species. More research into its population trend is required.

Credits

Assessor(s): Hochkirch, A.

Reviewer(s): Odé, B. & García, M.

Contributor(s): Jakobs, D., Kranz, M. & Miller, A.

Bibliography

Arnedo, M.A., Oromí, P., de Abreu, S.M. and Ribera, C. 2008. Biogeographical and evolutionary patterns in the Macaronesian shield-backed katydid genus *Calliphona* Krauss, 1892 (Orthoptera: Tettigoniidae) and allies as inferred from phylogenetic analyses of multiple mitochondrial genes. *Systematic Entomology* 33(1): 145-158.

Bland, R.G., Gangwere, S.K. and Morales Martin, M. 1996. An Annotated List of the Orthoptera (sens. lat.) of the Canary Islands. *Journal of Orthoptera Research* 5: 159-173.

Holzappel, C.M. 1970. Zoogeography of the Acridoidea (Insecta: Orthoptera) in the Canary Islands. *PhD thesis*.

IUCN. 2016. The IUCN Red List of Threatened Species. Version 2016-3. Available at: www.iucnredlist.org. (Accessed: 07 December 2016).

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 -> 1.9. Forest - Subtropical/Tropical Moist Montane	Resident	Suitable	Yes
14. Artificial/Terrestrial -> 14.4. Artificial/Terrestrial - Rural Gardens	Resident	Suitable	Yes

Threats

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

Threat	Timing	Scope	Severity	Impact Score
10. Geological events -> 10.3. Avalanches/landslides	Future	Minority (50%)	Rapid 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		
1. Residential & commercial development -> 1.1. Housing & urban areas	Ongoing	Majority (50-90%)	Causing/could cause fluctuations	Medium impact: 6
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		
11. Climate change & severe weather -> 11.2. Droughts	Future	Majority (50-90%)	Rapid declines	Low impact: 5
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.3. Indirect species effects -> 2.3.7. Reduced reproductive success		
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 -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality		

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
In-Place Education
Subject to recent education and awareness programmes: No
Included in international legislation: No

Conservation Actions in Place

Subject to any international management/trade controls: No
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Conservation Actions Needed

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

Conservation Actions Needed

2. Land/water management -> 2.1. Site/area management

2. Land/water management -> 2.3. Habitat & natural process restoration
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Research Needed

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

Research Needed

3. Monitoring -> 3.1. Population trends

Additional Data Fields

Distribution

Estimated extent of occurrence (EOO) (km ²): 718
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Lower elevation limit (m): 300

Upper elevation limit (m): 1300

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