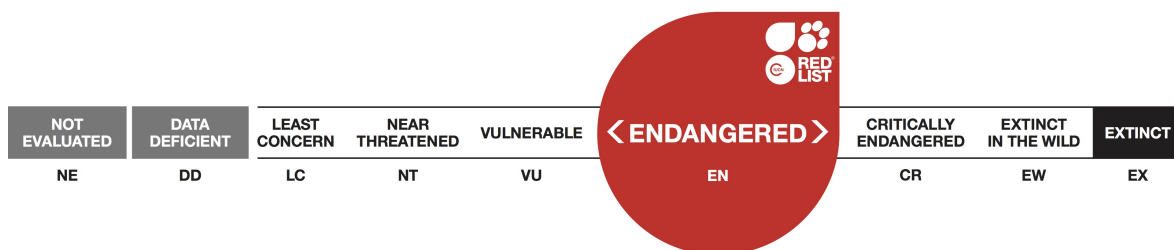


## *Acrostira tenerifae*, Tenerife Stick Grasshopper

Assessment by: Hochkirch, A. & López, H.



View on [www.iucnredlist.org](http://www.iucnredlist.org)

**Citation:** Hochkirch, A. & López, H. 2016. *Acrostira tenerifae*. *The IUCN Red List of Threatened Species 2016*: e.T16896959A74523102. <http://dx.doi.org/10.2305/IUCN.UK.2016-3.RLTS.T16896959A74523102.en>

**Copyright:** © 2016 International Union for Conservation of Nature and Natural Resources

*Reproduction of this publication for educational or other non-commercial purposes is authorized without prior written permission from the copyright holder provided the source is fully acknowledged.*

*Reproduction of this publication for resale, reposting or other commercial purposes is prohibited without prior written permission from the copyright holder. For further details see [Terms of Use](#).*

*The IUCN Red List of Threatened Species™ is produced and managed by the [IUCN Global Species Programme](#), the [IUCN Species Survival Commission \(SSC\)](#) and [The IUCN Red List Partnership](#). The IUCN Red List Partners are: [Arizona State University](#); [BirdLife International](#); [Botanic Gardens Conservation International](#); [Conservation International](#); [NatureServe](#); [Royal Botanic Gardens, Kew](#); [Sapienza University of Rome](#); [Texas A&M University](#); and [Zoological Society of London](#).*

*If you see any errors or have any questions or suggestions on what is shown in this document, please provide us with [feedback](#) so that we can correct or extend the information provided.*

## Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Arthropoda	Insecta	Orthoptera	Pamphagidae

**Taxon Name:** *Acrostira tenerifae* Perez & López, 2005

### Common Name(s):

- English: Tenerife Stick Grasshopper

### Taxonomic Source(s):

Eades, D.C., Otte, D., Cigliano, M.M. and Braun, H. 2016. Orthoptera Species File. Version 5.0/5.0. Available at: <http://Orthoptera.SpeciesFile.org>.

## Assessment Information

**Red List Category & Criteria:** Endangered D [ver 3.1](#)

**Year Published:** 2016

**Date Assessed:** May 2, 2016

### Justification:

The Tenerife Stick Grasshopper is only known from a small area on Tenerife with an extent of occurrence (EOO) of 12 km<sup>2</sup> and an area of occupancy (AOO) of 8 km<sup>2</sup>. It is unknown how the species may be influenced by ongoing human activities, particularly goat grazing. Projections of potential future volcanic activities suggest that the habitat of this species could be affected by future lava flows. There is only a single location, but no evidence for a continuing decline exists. As the number of mature individuals is estimated to be below 200, it is assessed as Endangered (EN).

### Previously Published Red List Assessments

2012 – Critically Endangered (CR) –  
<http://dx.doi.org/10.2305/IUCN.UK.2012.RLTS.T16896959A16897043.en>

## Geographic Range

### Range Description:

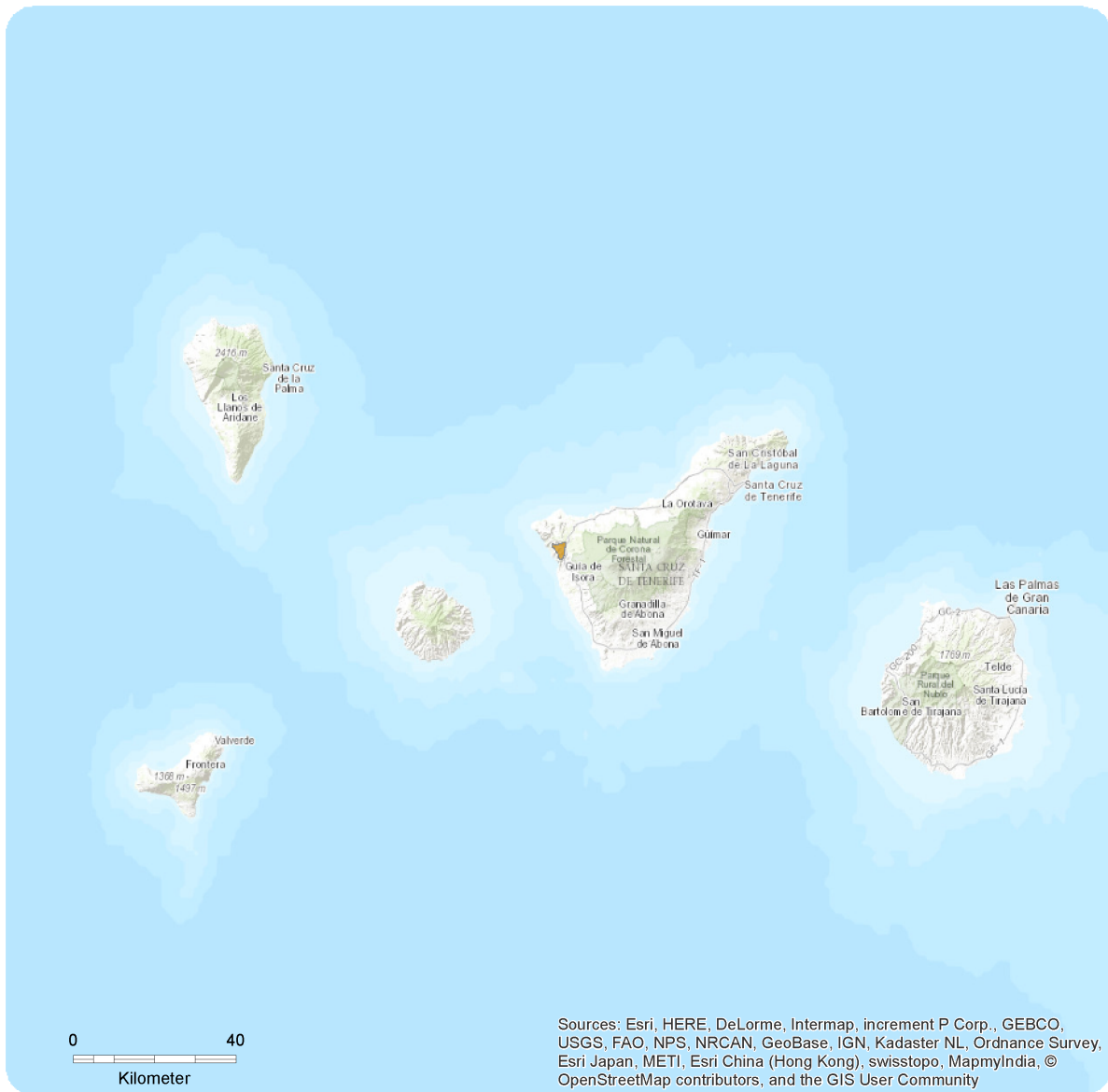
The Tenerife Stick Grasshopper is endemic to the northwestern part of Tenerife and has a very small extent of occurrence (EOO = 12 km<sup>2</sup>). Its area of occupancy (AOO) is 8 km<sup>2</sup>.

### Country Occurrence:

**Native:** Spain (Canary Is.)

# Distribution Map

*Acrostira tenerifae*



## 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

Only one subpopulation exists, which seems to be very small. The estimated number of mature individuals is smaller than 200. The species is flightless and thus not able to colonise new areas. The population trend of the species is unknown.

**Current Population Trend:** Unknown

## Habitat and Ecology (see Appendix for additional information)

The species occurs in *Euphorbia* shrubland. Its altitudinal range is 330 - 1,300 m.

**Systems:** Terrestrial

## Use and Trade

This species is not utilised.

## Threats (see Appendix for additional information)

The species is threatened by future volcanic eruptions on Tenerife, as future lava flows have been projected to run close to the area in which this species occurs (Carracedo *et al.* 2007). The effects of grazing on this species need to be studied. Based on these threats, the species occurs only in a single location.

## Conservation Actions (see Appendix for additional information)

There are no specific conservation actions in place for this species. It occurs only in a very small area, which is part of the Parque Rural de Teno. Research on its population trend and the effects of current grazing activities on the species is needed. As the species has a very small population size, a monitoring programme should be implemented.

## Credits

**Assessor(s):** Hochkirch, A. & López, H.

**Reviewer(s):** Odé, B. & García, M.

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

## Bibliography

Carracedo, J.C., Rodríguez Badiola, E., Guillou, H., Paterne, M., Scaillet, S., Pérez Torrado, F.J., Paris, R., Fra-Paleo, U. and Hansen, A. 2007. Eruptive and structural history of Teide Volcano and rift zones of Tenerife, Canary Islands. *Geological Society of America Bulletin* 119: 1027–1051.

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

López, H., Contreras-Díaz, H.G., Oromí, P. and Juan, C. 2007. Delimiting species boundaries for endangered Canary Island grasshoppers based on DNA sequence data. *Conservation Genetics* 8: 587–598.

López, H., Pérez, A.J., Oromi, P., Acevedo, A.J., Rodríguez, B., Hernández, A. 2005. Un nuevo Pamphagidae de Tenerife (Orthoptera, Caelifera). *Vieraea* 33: 419-434.

## Citation

Hochkirch, A. & López, H. 2016. *Acrostira tenerifae*. *The IUCN Red List of Threatened Species 2016*: e.T16896959A74523102. <http://dx.doi.org/10.2305/IUCN.UK.2016-3.RLTS.T16896959A74523102.en>

## Disclaimer

To make use of this information, please check the [Terms of Use](#).

## 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

## Threats

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

Threat	Timing	Scope	Severity	Impact Score
10. Geological events -> 10.1. Volcanoes	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		
10. Geological events -> 10.3. Avalanches/landslides	Future	Unknown	Rapid declines	Unknown
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality		
2. Agriculture & aquaculture -> 2.3. Livestock farming & ranching -> 2.3.2. Small-holder grazing, ranching or farming	Ongoing	Whole (>90%)	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation		

## 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

## 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
3. Monitoring -> 3.1. Population trends

## Additional Data Fields

<b>Distribution</b>
Estimated area of occupancy (AOO) (km <sup>2</sup> ): 8
Estimated extent of occurrence (EOO) (km <sup>2</sup> ): 12
Lower elevation limit (m): 330
Upper elevation limit (m): 1300
<b>Population</b>
Number of mature individuals: 200

## The IUCN Red List Partnership



The IUCN Red List of Threatened Species™ is produced and managed by the [IUCN Global Species Programme](#), the [IUCN Species Survival Commission \(SSC\)](#) and [The IUCN Red List Partnership](#).

The IUCN Red List Partners are: [Arizona State University](#); [BirdLife International](#); [Botanic Gardens Conservation International](#); [Conservation International](#); [NatureServe](#); [Royal Botanic Gardens, Kew](#); [Sapienza University of Rome](#); [Texas A&M University](#); and [Zoological Society of London](#).