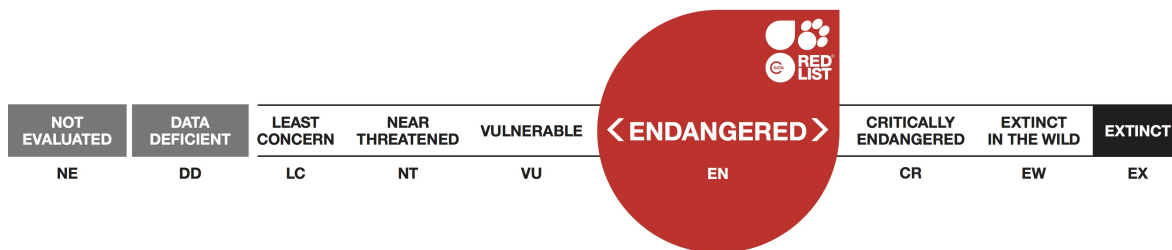


Purpuraria erna, Purpurarian Stone Grasshopper

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



View on www.iucnredlist.org

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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Arthropoda	Insecta	Orthoptera	Pamphagidae

Taxon Name: *Purpuraria erna* Enderlein, 1929

Common Name(s):

- English: Purpurarian Stone Grasshopper, Purpurarian 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>.

Taxonomic Notes:

A recent study by López *et al.* (2013) showed that the former records from North Lanzarote and Montaña Clara belong to a different species, *Purpuraria magna*.

Assessment Information

Red List Category & Criteria: Endangered B1ab(iii,v)+2ab(iii,v) [ver 3.1](#)

Year Published: 2016

Date Assessed: May 2, 2016

Justification:

The Purpurarian Stone Grasshopper is endemic to Fuerteventura, Lanzarote and Isla de los Lobos. Due to its small area of occupancy (AOO) of 60 km² and extent of occurrence (EOO) of c. 2,500 km², the severe fragmentation of its population and the continuing decline in the extent and quality of habitat and number of mature individuals, it is assessed as Endangered (EN). The main threats to this species are agriculture (overgrazing), rural development and tourism.

Previously Published Red List Assessments

2013 – Endangered (EN) – <http://dx.doi.org/10.2305/IUCN.UK.2013-2.RLTS.T49697894A47578450.en>

Geographic Range

Range Description:

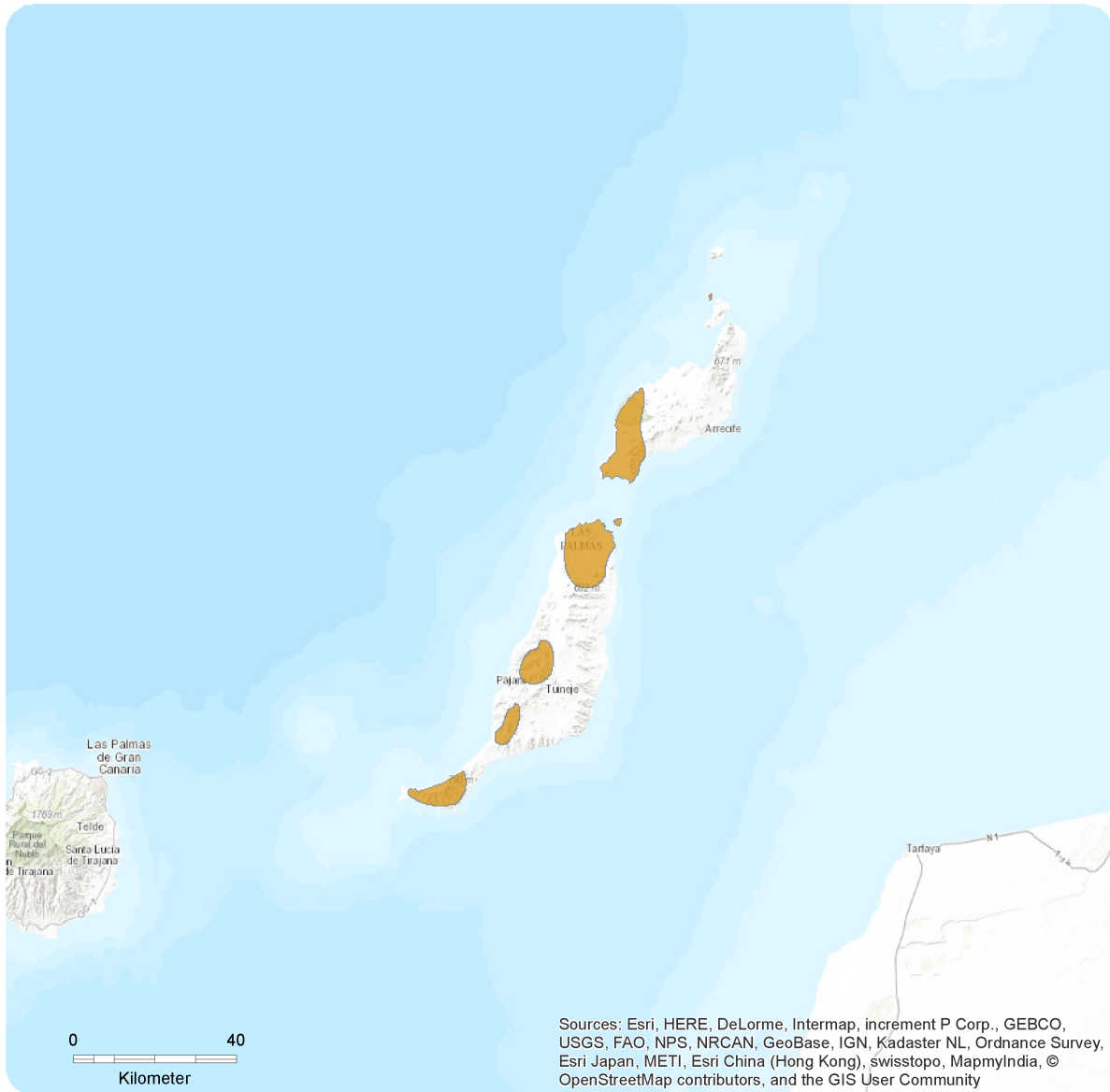
The Purpurarian Stone Grasshopper occurs on Fuerteventura, Isla de los Lobos, and parts of Lanzarote (López *et al.* 2013). Its extent of occurrence (EOO) is c. 2,500 km² and its area of occupancy (AOO) is 60 km².

Country Occurrence:

Native: Spain (Canary Is.)

Distribution Map

Purpuraria erna

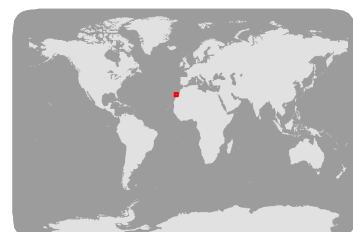


Range

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

The subpopulations of this flightless species are very small and isolated, and may go extinct with a reduced probability of recolonization. The population is therefore considered severely fragmented. A continuing decline in the extent and quality of habitat and number of mature individuals is inferred from the ongoing threats as a result of rural and touristic development.

Current Population Trend: Decreasing

Habitat and Ecology (see Appendix for additional information)

Purpuraria erna only occurs in *Euphorbia* bushes. Its altitudinal range is 0 - 600 m.

Systems: Terrestrial

Use and Trade

This species is not utilised.

Threats (see Appendix for additional information)

The species feeds exclusively on *Euphorbia* scrubs which are threatened mainly by rural development, but also by goat grazing and urban and touristic development. It may also be affected by volcanism.

Conservation Actions (see Appendix for additional information)

There are no specific conservation actions in place for this species, but it occurs in several protected areas. Research on its population size and trend is needed as well as a monitoring program for its habitat. A thorough habitat management is recommended for this species.

Credits

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

Reviewer(s): Odé, B. & García, M.

Contributor(s): Jakobs, D.

Bibliography

Husemann M. and Hochkirch A. 2007. Notizen zur Heuschreckenfauna (Insecta, Orthoptera) von Fuerteventura (Kanarische Inseln, Spanien). *Entomologie heute* 19: 59-74.

IUCN. 2016. The IUCN Red List of Threatened Species. Version 2016-3. Available at: 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., Hernández-Teixidor, D., Macías-Hernández, N., Juan, C. and Oromí, P. 2013. A taxonomic revision and species delimitation of the genus *Purpuraria* Enderlein, 1929 (Orthoptera: Pamphagidae) using an integrative approach. *Journal of Zoological Systematics and Evolutionary Research* 51(3): 173-186.

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?
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	Past, likely to return	Minority (50%)	Very rapid declines	Past impact
	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%)	Slow, significant declines	Medium impact: 6
	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	Minority (50%)	Slow, significant declines	Low impact: 5
	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	Whole (>90%)	Causing/could cause fluctuations	Medium impact: 7
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 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

Conservation Actions Needed

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

Conservation Actions Needed
1. Land/water protection -> 1.2. Resource & habitat protection

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

3. Monitoring -> 3.4. Habitat trends

Additional Data Fields

Distribution

Estimated area of occupancy (AOO) (km ²): 60
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Estimated extent of occurrence (EOO) (km ²): 2460

Lower elevation limit (m): 0

Upper elevation limit (m): 600

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