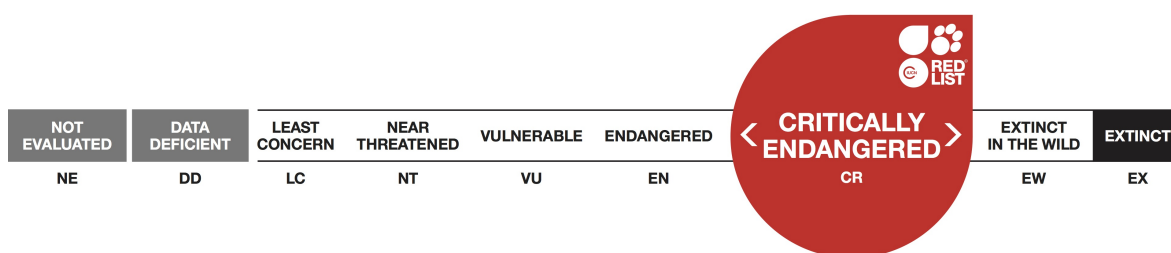


## *Theba arinagae*

Assessment by: Alonso, R. & Groh, K.



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

**Citation:** Alonso, R. & Groh, K. 2013. *Theba arinagae*. *The IUCN Red List of Threatened Species 2013*: e.T21722A9314100. <http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T21722A9314100.en>

**Copyright:** © 2015 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: [BirdLife International](#); [Botanic Gardens Conservation International](#); [Conservation International](#); [Microsoft](#); [NatureServe](#); [Royal Botanic Gardens, Kew](#); [Sapienza University of Rome](#); [Texas A&M University](#); [Wildscreen](#); 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	Mollusca	Gastropoda	Stylommatophora	Helicidae

**Taxon Name:** *Theba arinagae* Gittenberger & Ripken, 1985

## Assessment Information

**Red List Category & Criteria:** Critically Endangered B2ab(iii) [ver 3.1](#)

**Year Published:** 2013

**Date Assessed:** September 29, 2010

### Justification:

This species is only present in a small area which is under pressure from encroaching quarrying and decline in habitat quality as result of blown sand during extreme weather events. Based on the existing information and the fact that this species occurs in one location with an area of occupancy of 4 km<sup>2</sup>, the species is considered as Critically Endangered (CR) B2ab(iii). The past evaluation of Vulnerable was based on the same information, however the quarry has got closer to the site increasing the threats to the species.

### Previously Published Red List Assessments

1996 – Vulnerable (VU)

## Geographic Range

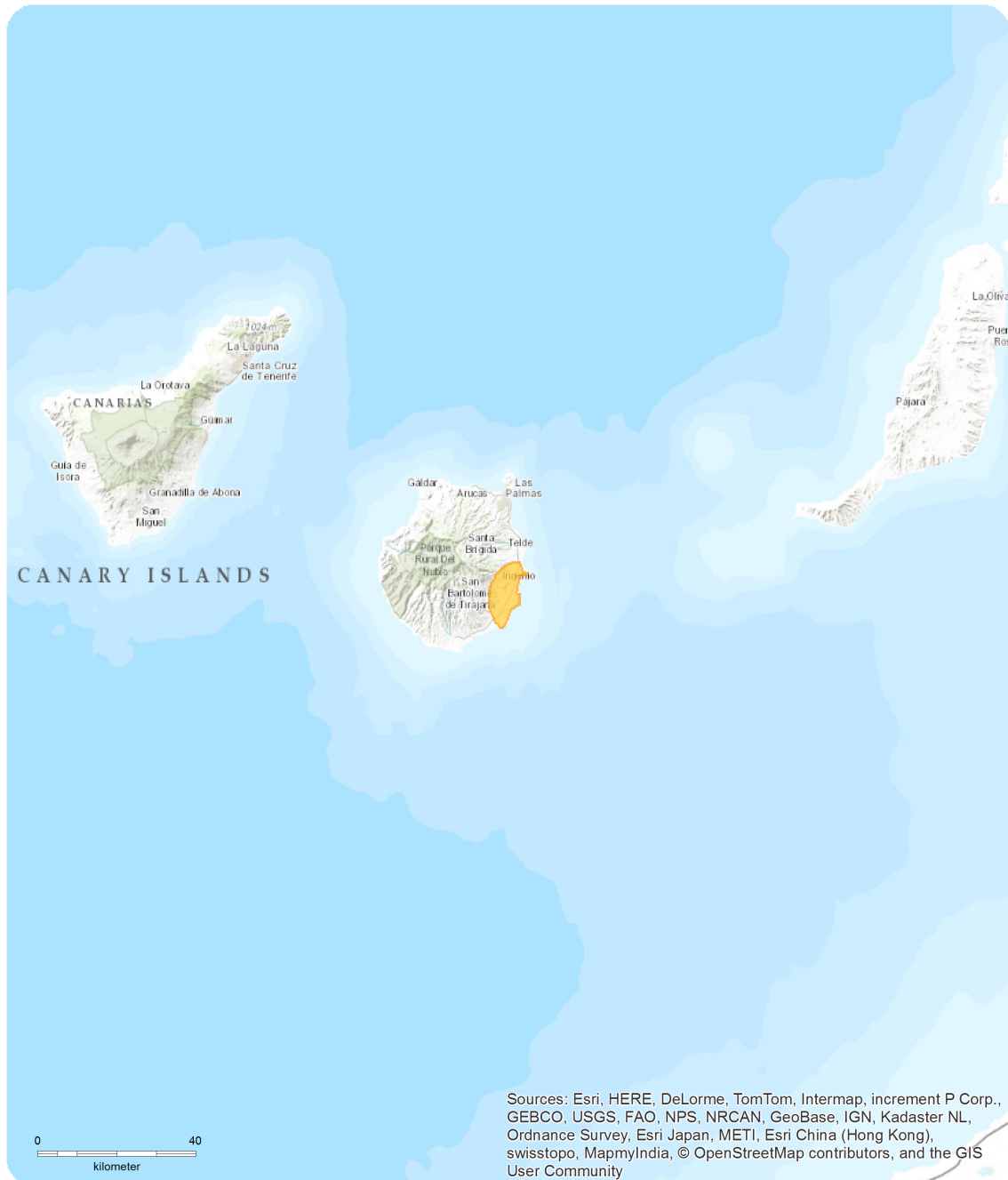
### Range Description:

*T. arinagae* occurs at two localities as a fossil/subfossil along the eastern coast of Gran Canaria, Arinaga and Playa Ojo de Garza, north of Aeropuerto de Gando. This species was found as a fossil/subfossil on the island of Fuerteventura (Ibanez *et al.* 1997). This species is only known living at the summit of the volcano north of Arinaga, where it occupies a narrow strip of rocky habitat above the sandy slopes (300 m x 50 m).

### Country Occurrence:

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

# Distribution Map

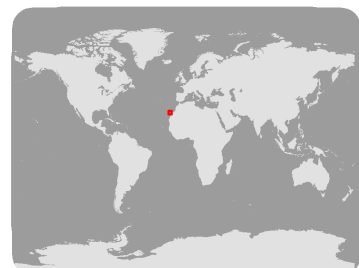


## *Theba arinagae*

Range  
■ Extant (resident)

Compiled by:  
 IUCN

NE	DD	LC	NT	VU	EN	<b>&lt; CR &gt;</b>	EW	EX
CRITICALLY ENDANGERED								



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



## Population

There is only a very small population (Groh, pers. comm., 2010).

**Current Population Trend:** Unknown

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

*T. arinagae* is a terrestrial gastropod, known from rocky summit of volcano.

**Systems:** Terrestrial

## Use and Trade

There is no known trade in this species.

## Threats (see Appendix for additional information)

This species has a small distribution area. The major threat on the northern side is the extraction of gravel and the extension towards the site. A secondary threat remains from blown sand from the sandy quarry further away from the site during high winds. The presence of the military transmission mast, with the access roads permits additional traffic to the site.

## Conservation Actions (see Appendix for additional information)

This species was listed as Vulnerable (Moliner Gomez 2001), but not listed on the Canary Island Red List nor the Spanish Red List (Verdu and Galante 2009). In terms of conservation measures, the site should be protected as a Special Nature Reserve given that *Theba arinagae* inhabits this location and is already threatened. Restoration of the habitat is also required.

## Credits

**Assessor(s):** Alonso, R. & Groh, K.

**Reviewer(s):** Seddon, M.B., Neubert, E., Gómez, B. & Cuttelod, A.

**Contributor(s):** George, S.

## Bibliography

Gittenberger, E. and Ripken, E.J. 1987. The Genus *Theba* (Mollusca: Gastropoda: Helicidae) Systematics and Distribution. *Museum of Natural History* 241(1): 1-59.

Gomez Moliner, B., Moreno, D., Rolan, E., Araujo, R. and Alvarez, R.M. 2001. *Proteccion de Moluscos en el Catalogo nacional de especies amenazadas*. SEM, Madrid.

Ibanez, M., Alonso M., Henriquez, F. and M. Valido. 1997. Distribution of Land Snails (Mollusca, Gastropoda, Pulmonata) on the island of Gran Canaria (Canary Islands) in relation to protected natural areas. *Biodiversity and Conservation* 6(4): 627-632.

IUCN. 2011. IUCN Red List of Threatened Species (ver. 2011.1). Available at: <http://www.iucnredlist.org>. (Accessed: 16 June 2011).

Verdú, J. and Galante, E. 2009. *Atlas de los Invertebrados Amenazados de España (Especies en peligro critico y en peligro)*. Direccion General para la Biodiversidad, Ministerio de Medio Ambiente, Madrid.

## Citation

Alonso, R. & Groh, K. 2013. *Theba arinagae*. *The IUCN Red List of Threatened Species 2013*: e.T21722A9314100. <http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T21722A9314100.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?
0. Root -> 6. Rocky areas (eg. inland cliffs, mountain peaks)	-	Suitable	Yes

## Threats

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

Threat	Timing	Scope	Severity	Impact Score
3. Energy production & mining -> 3.2. Mining & quarrying	Ongoing	Whole (>90%)	Rapid declines	High impact: 8
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance		
6. Human intrusions & disturbance -> 6.1. Recreational activities	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		
7. Natural system modifications -> 7.3. Other ecosystem modifications	Ongoing	-	-	-
	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 -> 1.1. Site/area protection
2. Land/water management -> 2.3. Habitat & natural process restoration

## Additional Data Fields

<b>Distribution</b>
Estimated area of occupancy (AOO) (km <sup>2</sup> ): 4
Number of Locations: 1
Upper elevation limit (m): 200
<b>Population</b>
Population severely fragmented: No
<b>Habitats and Ecology</b>
Continuing decline in area, extent and/or quality of habitat: Yes

## 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: [BirdLife International](#); [Botanic Gardens Conservation International](#); [Conservation International](#); [Microsoft](#); [NatureServe](#); [Royal Botanic Gardens, Kew](#); [Sapienza University of Rome](#); [Texas A&M University](#); [Wildscreen](#); and [Zoological Society of London](#).