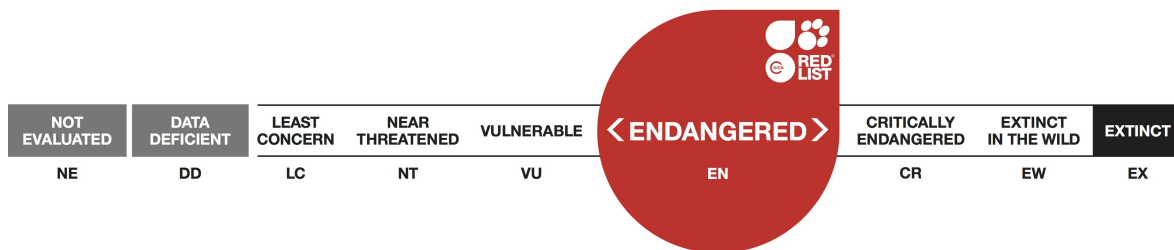


# *Malacolimax wiktori*

Assessment by: Groh, K.



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## Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Mollusca	Gastropoda	Stylommatophora	Limacidae

**Taxon Name:** *Malacolimax wiktori* Alonso & Ibáñez, 1989

### Taxonomic Source(s):

Alonso, M.R. and Ibáñez, M. 1989. *Malacolimax wiktori* n. sp., un nuevo limácido (Gastropoda, Pulmonata) de Tenerife (Islas Canarias). *Bull. Mus. natn. Hist. nat. Paris* 4(11. Sect. A, 2): 307-313.

## Assessment Information

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

**Year Published:** 2017

**Date Assessed:** November 20, 2016

### Justification:

This species is believed to be restricted to the north of the Island of Tenerife, in the Canary Islands in Spain. It was described in the 1980s from the environments of the city of La Laguna, mainly in an agricultural area next to the University. The original area of the species had an extent of c. 16 km<sup>2</sup> with two known locations. As yet there are no further records from outside the zone. In the intervening 30 years there has been a large reduction in the agricultural area next to the University.

The species is assessed as Endangered (EN) under criteria B2ab(iii) based on the loss of habitat within the only known subpopulations on Tenerife, with inferred loss of mature individuals. M. Neiber (pers. comm. 2016) reported that he failed to locate the species in the known habitats during optimum sampling conditions in 2015. Since then Ibanez and Alonso resurveyed in February 2016 and failed again to locate the species. They plan further to repeat this survey in spring 2017 (M. Neiber pers. comm. 2016). Further research is urgently needed to establish the native status of the population, as well as the population trend and current distribution.

### Previously Published Red List Assessments

1996 – Lower Risk/near threatened (LR/nt)

<http://dx.doi.org/10.2305/IUCN.UK.1996.RLTS.T12700A3374081.en>

1994 – Vulnerable (V)

## Geographic Range

### Range Description:

This species is believed to be restricted to the Canary Islands. It was described from north of Tenerife where it occurs in the environments of the city of La Laguna, mainly in agricultural areas next to the University. It was described from an area of c. 16 km<sup>2</sup> with two known locations in the 1980s. There are

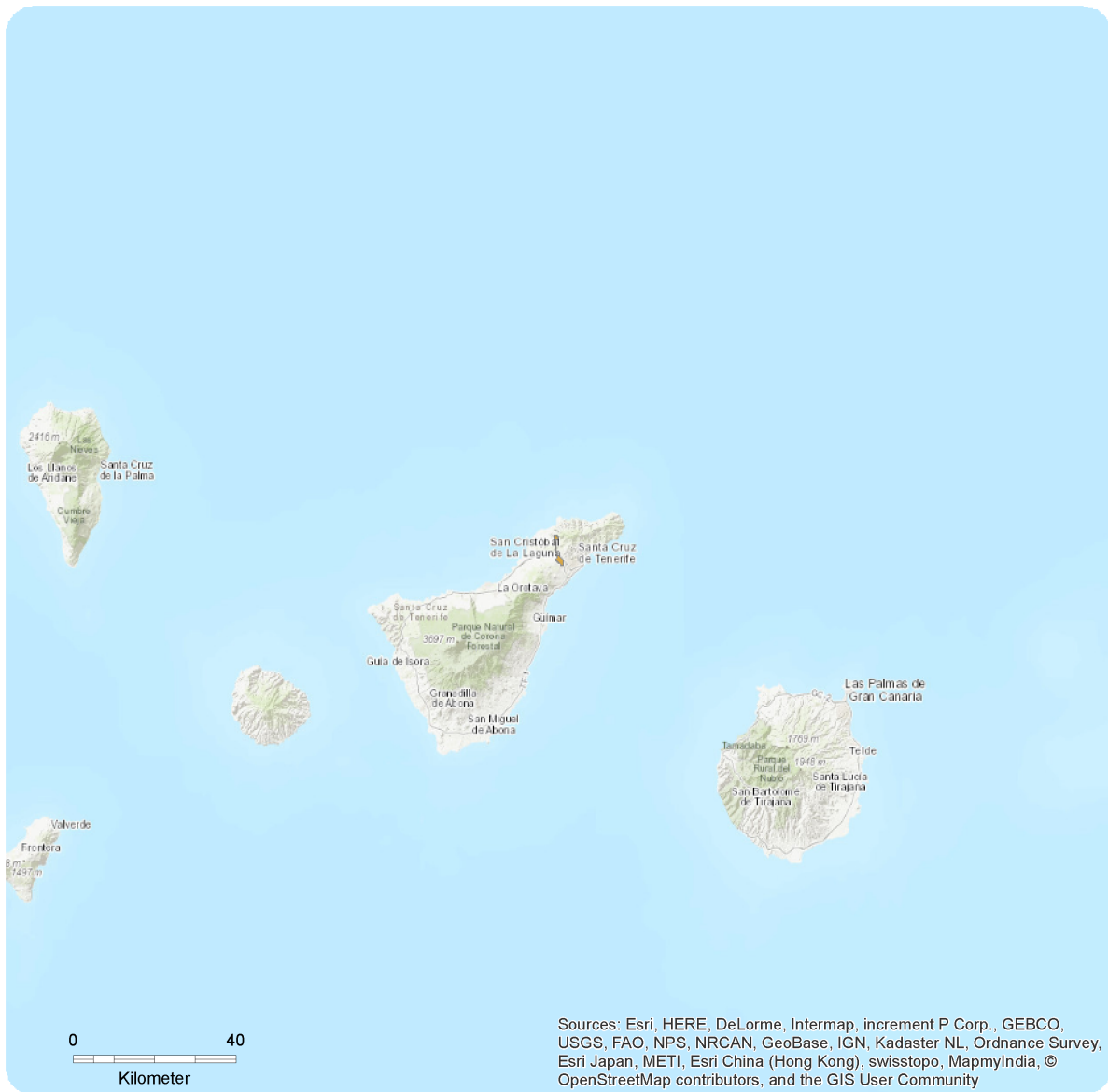
no further records from outside the zone. The origin of the species is unknown. The situation of detection arises some doubts on the endemic status of the species which also might have been introduced from unknown origin.

**Country Occurrence:**

**Present - origin uncertain:** Spain (Canary Is.)

# Distribution Map

*Malacolimax wiktori*



## Range

Extant (resident)

## Compiled by:

IUCN (International Union for Conservation of Nature)



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 description was based on more than 180 specimens, so the species is supposed to be represented in high number in the field. M. Neiber (pers. comm. 2016) reported that he failed to locate the species in the known habitats during optimum sampling conditions in 2015. Since then, Ibáñez and Alonso resurveyed in February 2016 and failed to locate the species again. They plan further to repeat this survey in spring 2017 (M. Neiber pers. comm. 2016).

**Current Population Trend:** Decreasing

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

The species was detected in a rural, anthropogenic area nearby the city of La Laguna, and in autochthonous lowland shrub vegetation (Piso-Basal). The situation of detection arises some doubts on the endemic status of the species which also might have been introduced from unknown origin.

**Systems:** Terrestrial

## Use and Trade

There is no known trade for this species.

## Threats (see Appendix for additional information)

There are no known threats to the species, although the slugs of this genus can become a pest species in agricultural fields. In the intervening 30 years since it was described there has been large reduction in the agricultural area next to the University, as it is converted for industrial and university use, and hence the habitats and area of occupancy (AOO) have significantly declined.

## Conservation Actions (see Appendix for additional information)

Research is urgently needed to establish the native status of the population, as well as the population trend and current distribution.

## Credits

**Assessor(s):** Groh, K.

**Reviewer(s):** Cameron, R., Seddon, M.B. & Teixeira, D.

## Bibliography

Groombridge, B. (ed.). 1994. *1994 IUCN Red List of Threatened Animals*. IUCN, Gland, Switzerland and Cambridge, UK.

IUCN. 1990. *IUCN Red List of Threatened Animals*. IUCN, Gland, Switzerland and Cambridge, UK.

IUCN. 2017. The IUCN Red List of Threatened Species. Version 2017-3. Available at: [www.iucnredlist.org](http://www.iucnredlist.org). (Accessed: 7 December 2017).

## 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 -> 3.5. Shrubland - Subtropical/Tropical Dry	-	Suitable	-
14. Artificial/Terrestrial -> 14.2. Artificial/Terrestrial - Pastureland	-	Suitable	-
14. Artificial/Terrestrial -> 14.4. Artificial/Terrestrial - Rural Gardens	-	Suitable	-
14. Artificial/Terrestrial -> 14.5. Artificial/Terrestrial - Urban Areas	-	Suitable	-

## Threats

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

Threat	Timing	Scope	Severity	Impact Score
1. Residential & commercial development -> 1.2. Commercial & industrial areas	Ongoing	Majority (50-90%)	Slow, significant declines	Medium impact: 6
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance		

## Conservation Actions in Place

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

Conservation Actions in Place
In-Place Research, Monitoring and Planning
Action Recovery plan: Unknown
Systematic monitoring scheme: Unknown
In-Place Land/Water Protection and Management
Conservation sites identified: Unknown

## Research Needed

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

Research Needed
1. Research -> 1.1. Taxonomy
1. Research -> 1.2. Population size, distribution & trends
1. Research -> 1.3. Life history & ecology

**Research Needed**

1. Research -> 1.5. Threats

**Additional Data Fields****Distribution**

Estimated area of occupancy (AOO) (km<sup>2</sup>): 12

Continuing decline in area of occupancy (AOO): Unknown

Extreme fluctuations in area of occupancy (AOO): Unknown

Estimated extent of occurrence (EOO) (km<sup>2</sup>): 20

Continuing decline in extent of occurrence (EOO): Unknown

Extreme fluctuations in extent of occurrence (EOO): Unknown

Number of Locations: 2

Continuing decline in number of locations: Unknown

Extreme fluctuations in the number of locations: Unknown

Lower elevation limit (m): 400

Upper elevation limit (m): 560

**Population**

Number of mature individuals: 180

Continuing decline of mature individuals: Yes

Extreme fluctuations: Unknown

Population severely fragmented: No

No. of subpopulations: 1

**Habitats and Ecology**

Continuing decline in area, extent and/or quality of habitat: Yes

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