

# Applied biodiversity informatics on land snail data from Spain

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WARD LANGERAERT

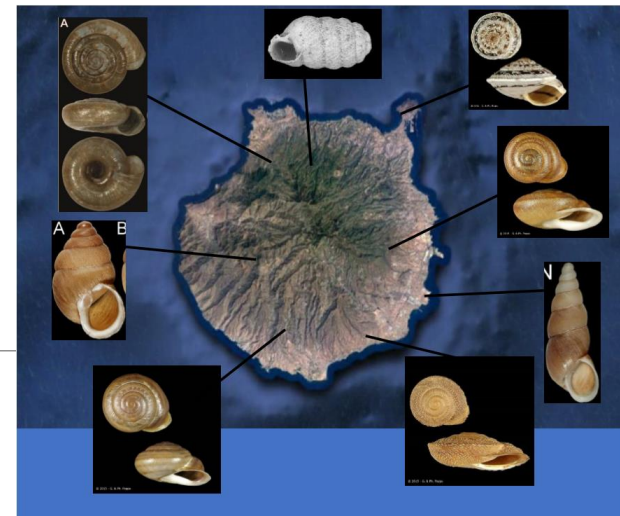
*Elona quimperiana*  
(Blainville, 1821)

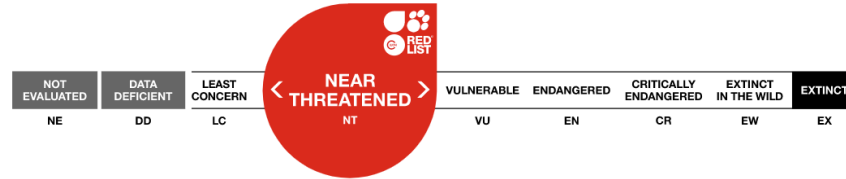


# Intro

- Shell collecting: an ancient hobby
- Collectors >>> malacologist researchers
  - Result: a lot of knowledge in private collections not open to the public/researchers
  - Especially the case for underinvestigated areas like the Canary Islands
- Important repercussions for conservation!
- Main goal:
  - Publish data online to increase knowledge on species
  - Emphasis on endemics

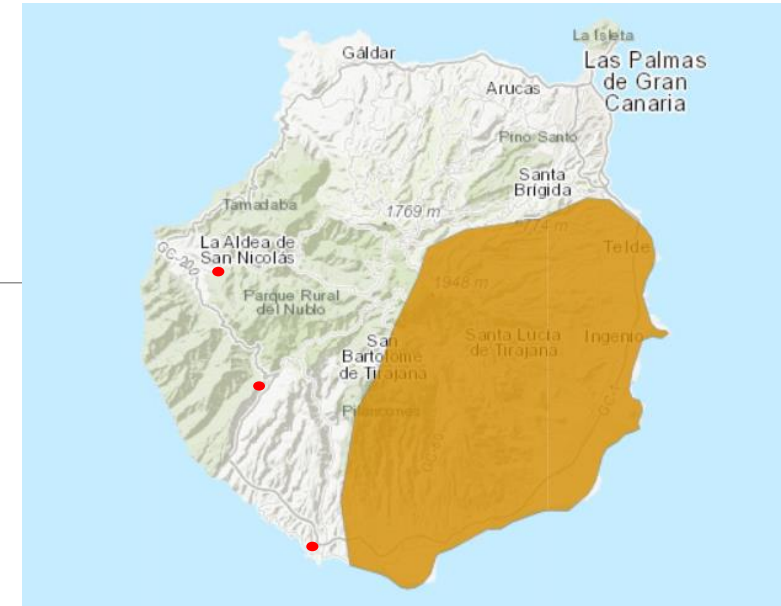
*Obelus despreauxii*  
(D'Orbigny, 1839)





# Research Q

- Publish land and freshwater mollusc data on GBIF
  - Gran Canaria (+250 records)
  - Northern Spain (+100 records)
  - ✓ New species
  - ✓ Species ranges
- Learn to work with biodiversity data
  - Using R
  - Using online repositories
- Publish data paper
  - Scientific description of the data set
- Niche modelling/Red list assessment



<https://www.iucnredlist.org/species/156686/4983241>





# Work plan

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- 8 weeks
  1. Week 1-2 (7 afternoons 4 hours)
    - Make up RAW dataset
    - Digitalized and from collection
  2. Week 3-4 (7 afternoons 4 hours)
    - Data manipulation in RStudio
    - GitHub repository
  3. Week 5-6 (7 afternoons 4 hours)
    - Create data paper
    - Via GBIF integrated publishing toolkit (IPT)
    - Metadata and scientific description of the data set
  4. Week 7-8 (7 afternoons 4 hours)
    - Niche modelling (Wallace Ecological Modelling App)
    - Endemic species

*Hemicycla berkeleii* (Lowe, 1861)

