

Applied biodiversity informatics on land snail data from Spain

WARD LANGERAERT

PROMOTOR: DIMITRI BROSENS (INBO)

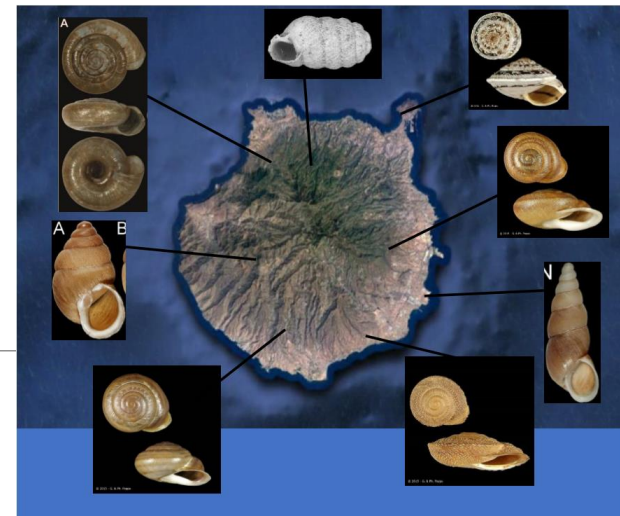
Elona quimperiana
(Blainville, 1821)

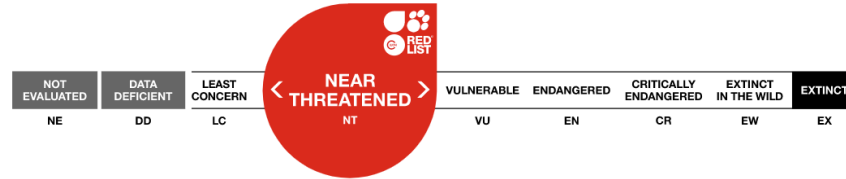


Intro

- 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

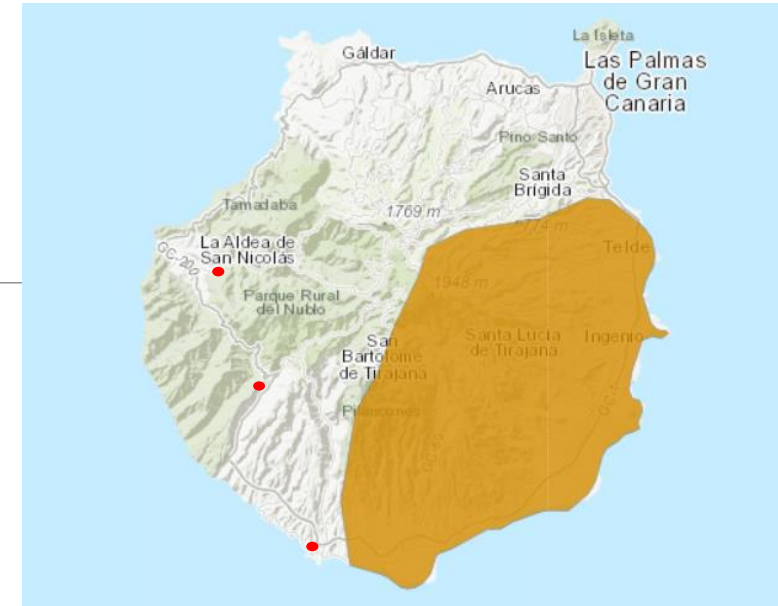
Obelus despreauxii
(D'Orbigny, 1839)





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

- 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)

