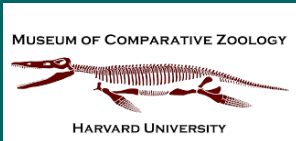


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Pacific Island Land Snail Biodiversity Repository

Bernice Pauahi Bishop Museum, University of Michigan Museum of Zoology,
Harvard Museum of Comparative Zoology, Academy of Natural Sciences at Drexel,
Florida Museum of Natural History, and the Field Museum of Natural History

iDigBio NSF ADBC TCN Summit 2020



The Academy of
Natural Sciences
of DREXEL UNIVERSITY



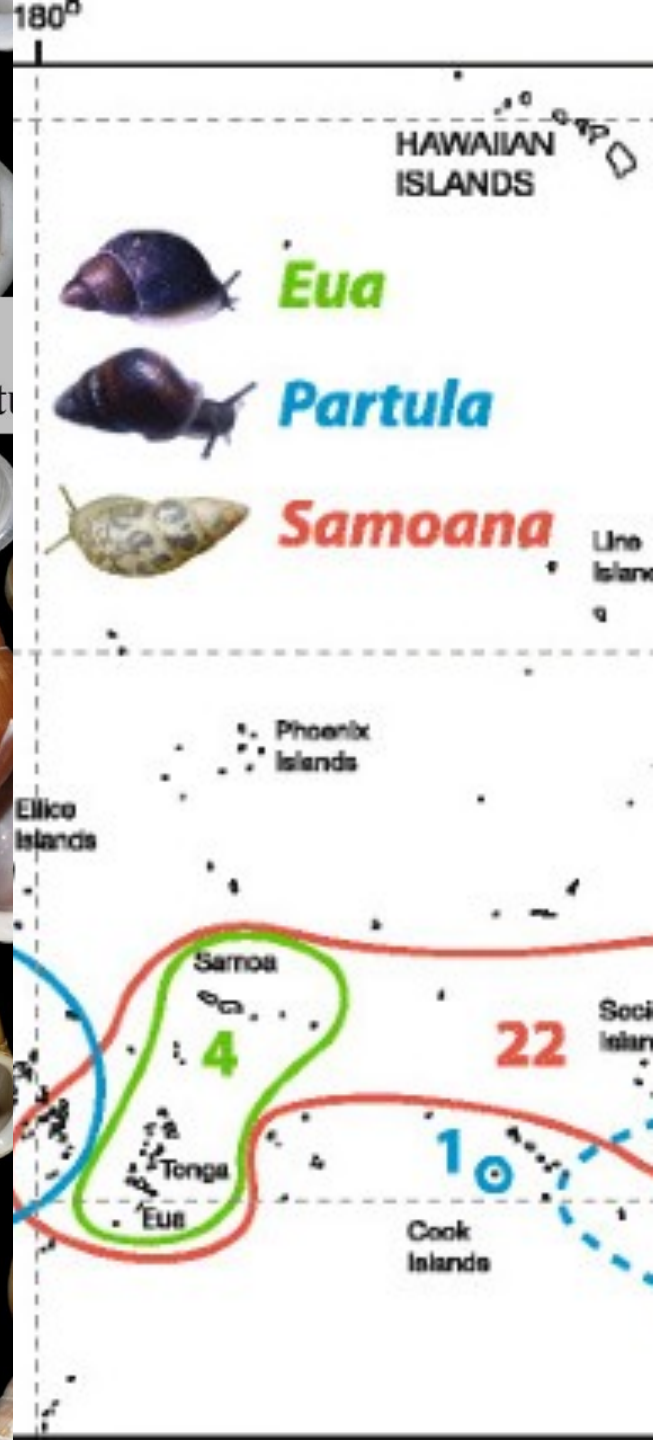
MUSEUM OF NATURAL HISTORY
UNIVERSITY OF MICHIGAN



Icons of Evolution:
Pacific Island tree-snails, family Partulidae



Justin Gerlach

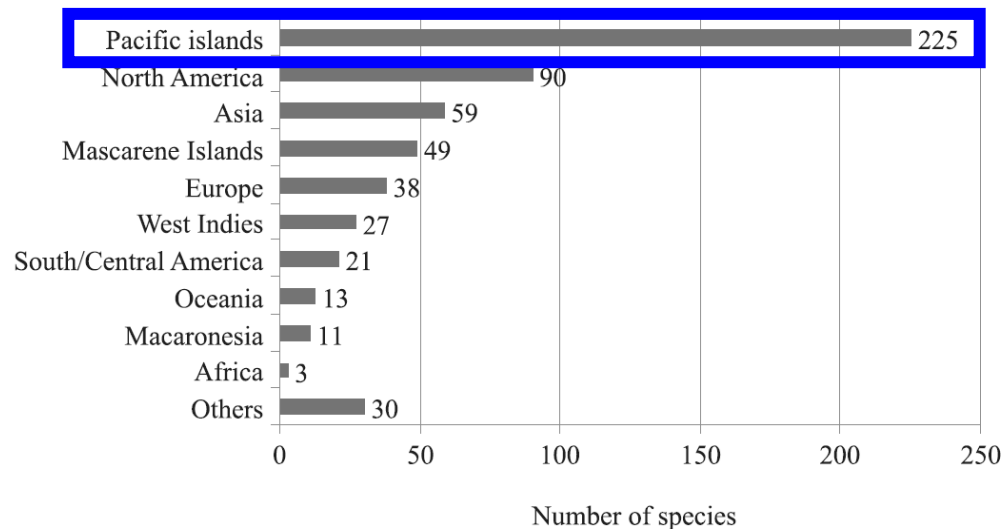
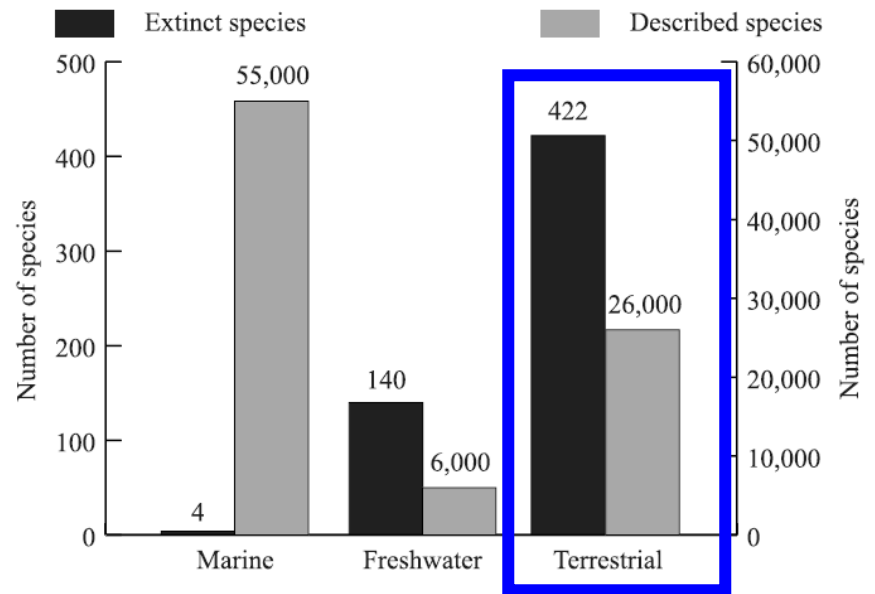




Not Knowing, Not Recording, Not Listing: Numerous Unnoticed Mollusk Extinctions

CLAIRE RÉGNIER,*‡ BENOÎT FONTAINE,† AND PHILIPPE BOUCHET*

- Highest number of documented extinctions of any major animal group since the 1500s
- 40% of all animal extinctions



Major threats

- Habitat destruction
- Climate change
- Impacts of invasive species



Conservation

- 1) Accurate and current knowledge of:
 - Systematics
 - Species distributions (native and non-native)
 - Ecological needs
- 2) Protect both the species and the habitats

'Ōlelo No'eau

Hawaiian proverbs or poetical sayings

***'a'ohe 'ike pau i ka hālau
ho'okahi***

One can learn from many sources

All knowledge is not taught in the same school



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Ach. 3
var.
var.
Kalih
Dahu
Thwing

31459
Ach. (A.um)
vulpina
var.
Kalih
Dahu
Thwing

131140
Ach. (A.um)
vulpina
var.
23
Kalih.
L.A.T

L.A.T

Old box 960
Ach. (A.um) vulpina var.
Kalih
Thwing

131132
Ach. (A.um)
vulpina.
var.
3

131133
Ach.
var.
11
L.A.T

131128

131129

131130

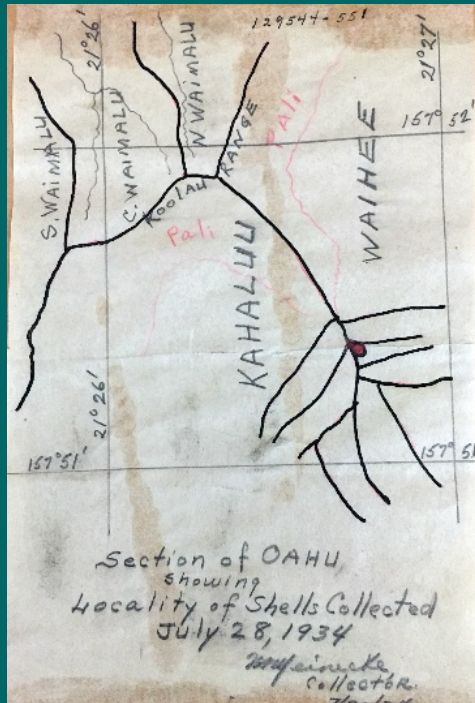
131131

Objectives

- Taxonomic authority file
- Enhance specimen records
- Conservation resources
- Alleviate taxonomic impediment



10518 1429
(CV 103715)
Ach. bulimoides
kai papauensis.
waleh
Holotype waleh
4.11, 4.15 1958
Area 28, loc 544-5
Kai papau
D. H. Emery



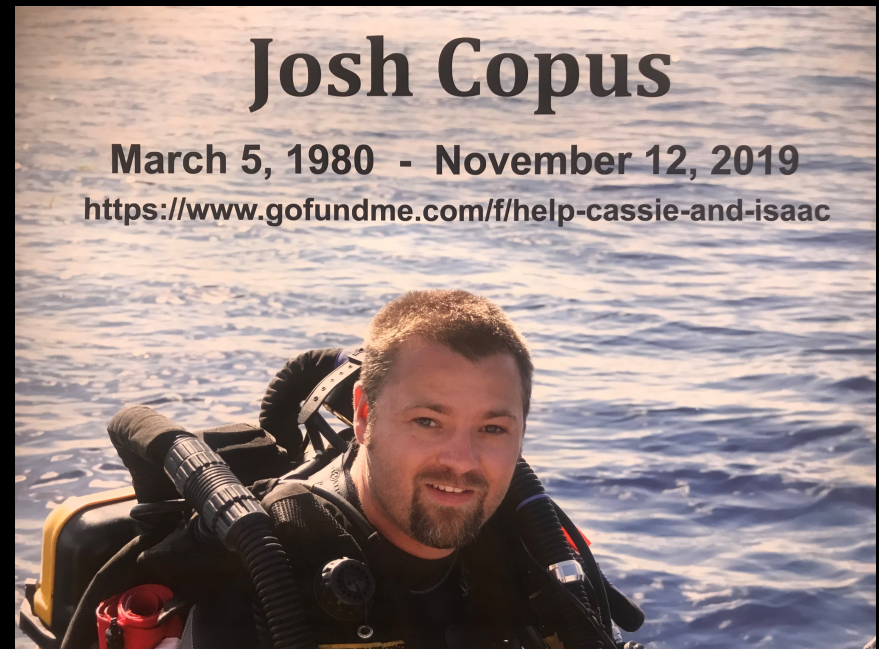
PILSBry
Pacific Island Land Snail
Biodiversity Repository

Year 1

In Memoriam



Jim McCarthy 1944-2019



Taxonomic Authority file

- In development
 - 4,178 species (w/ references to original descriptions)



ZooBank



MOLLUSCABASE



Specimen records

- 76,452 records enhanced
- 513,625 entries from field notebooks and ledgers

37. ↓ *Scyphoche Ridge, Molokai*
all sinistral.

37, b. ↓ *Maunalehu Ridge, Molokai*
sinistral. Shells are of
quality, and abundant
on one tree.

37, c. ↓ *Same locality and de-*
scribed.

37, e. ↓ *Maunalehu Gulch, Molokai*

37, d. ↓ *Kaluakaha Ridge, Molokai*

37, a. ↓ *Malapane Ridge, Molokai*
all with sutural whorls
stained lip; 124 var
dark colored form &

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D. Thaanum
field notebook
MCZ 190674

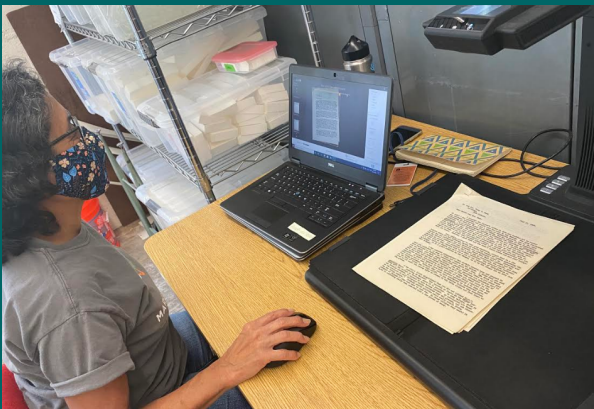
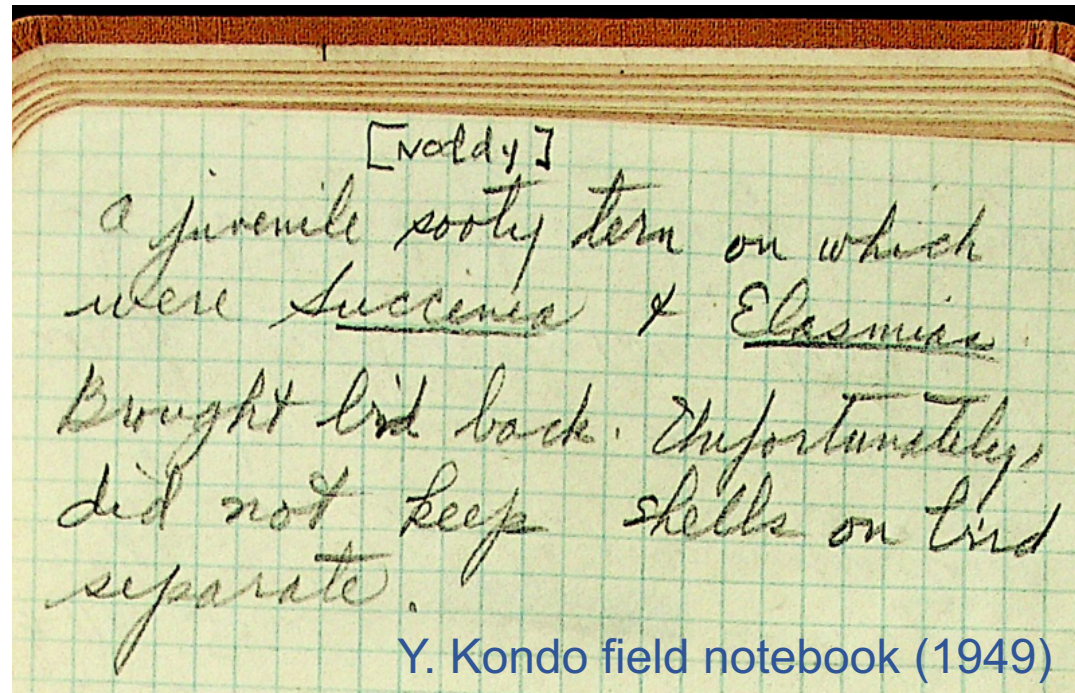


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Cool Stories

A juvenile sooty tern
[noddy] on which were
Succinea and *Elasmias*.



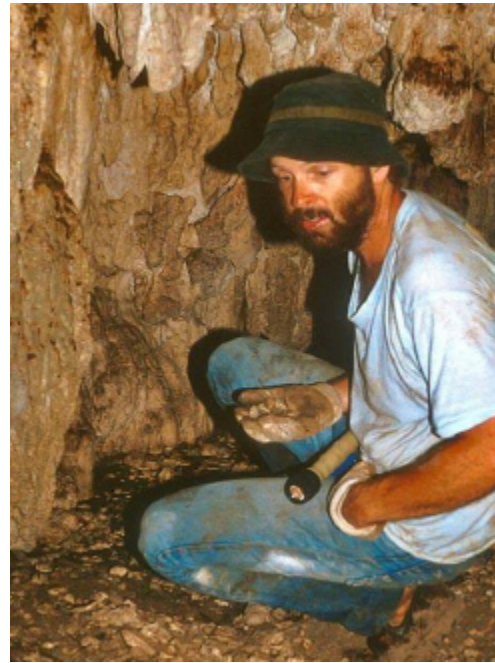
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Cool Discoveries

88-019 18°36'34"S, 173°58'23"W
22/III/88 Alt. +25m; 150m from sea; LS
YAVA'u Vaito (Waterfall Cave), Feletoa,
YAVA'u Island, Tonga
Soil and snails collected from the
base of rocks around the 30m dia.
collapse sinkhole entrance to this
cave.

88-020 21°23'42"S, 174°55'36"W
26/III/88 Alt. +191m; 2.5 km from sea; Vol.
'EWA ANA Ahu (Smoke Cave) stream, Kolomaile,
'Ewa, Tongatapu Group, Tonga
Soil and snails collected from around
low rock outcroppings along the banks
of a surface stream, just before the
point the stream plunges down a 70m
deep vertical shaft. The rock type at
this point is a lower Pliocene to middle
Miocene calcareous volcanic arenite
(lithic sandstone). Some of the snails
in this sample were freshwater species
present in the stream itself



New record of non-native snail,
Beckianum beckianum
(Mangaia, Cook Islands)





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Pacific Island Land Snail
Biodiversity Repository

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PILSBRY (Pacific Island Land Snails Biodiversity Repository) is a consortium of six malacology collections across the United States. Our aim is to develop a comprehensive resource that will enable time-sensitive assessment of the systematics and conservation status of Pacific Island Land Snails, one of the most extraordinarily diverse, endangered and understudied taxon in the world. Not having been comprehensively studied for more than 100 years, Pacific Island Land Snails are under major threat from extinction and a database is needed for conservation assessments and identification of the remaining fauna.

Participants of this project include: the Bernice Pauahi Bishop Museum, Academy of Natural Sciences at Drexel, Museum of Zoology at the University of Michigan, Harvard Museum of Natural History, Florida Museum of Natural History, and the Field Museum.



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FLORIDA
MUSEUM



This project made possible by National Science Foundation Awards: #1902328

Species List

Occurrence Records

Maps

Dataset: All Specimen Collections

Taxa: Scientific Name: Auriculella

Search Criteria: excluding cultivated/captive occurrences



1 2 3 4

Page 1, records 1-100 of 371

Auriculellinae_inventory

BPBM *Auriculella minuta*
166399 Robert L. Usinger 1936-03-29
United States, HI, Hawaiian Archipelago; Oahu; Palolo>Manoa; Loc. 2, 21.315068 -157.787141
[Full Record Details](#)

BPBM *Auriculella minuta*
194673 William H. Meinecke, Meadows, & Malacology Staff 1941-09-14
Hawaiian Archipelago; Oahu; Palolo>Manoa; 5 miles from Diamond Head. MAP B, 21.31933066 -157.7891667
[Full Record Details](#)

BPBM *Auriculella minuta*
109208 Judd, Alfred F.
Hawaiian Islands; Oahu, Manoa & Palolo, 21.31990321 -157.7880941
[Full Record Details](#)

