

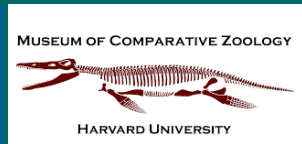
PILSBRy



Pacific Island Land Snail
Biodiversity Repository

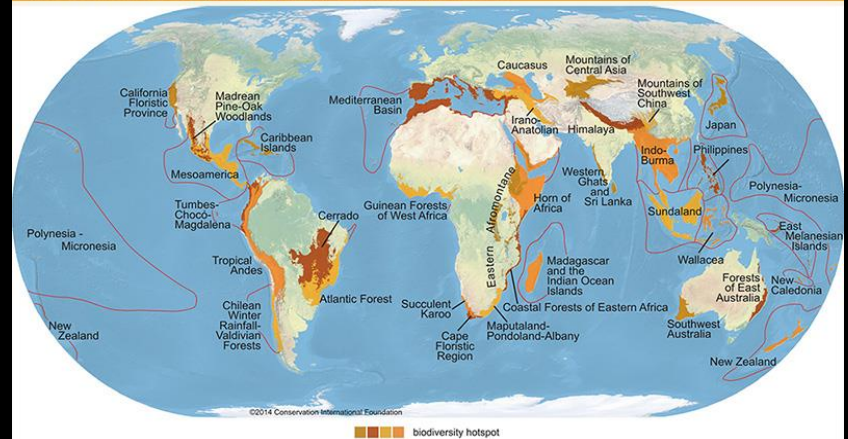


Bernice Pauahi Bishop Museum, University of Michigan Museum of Zoology,
Harvard Museum of Comparative Zoology, Academy of Natural Sciences at Drexel,
Florida Museum of Natural History, and the Field Museum of Natural History

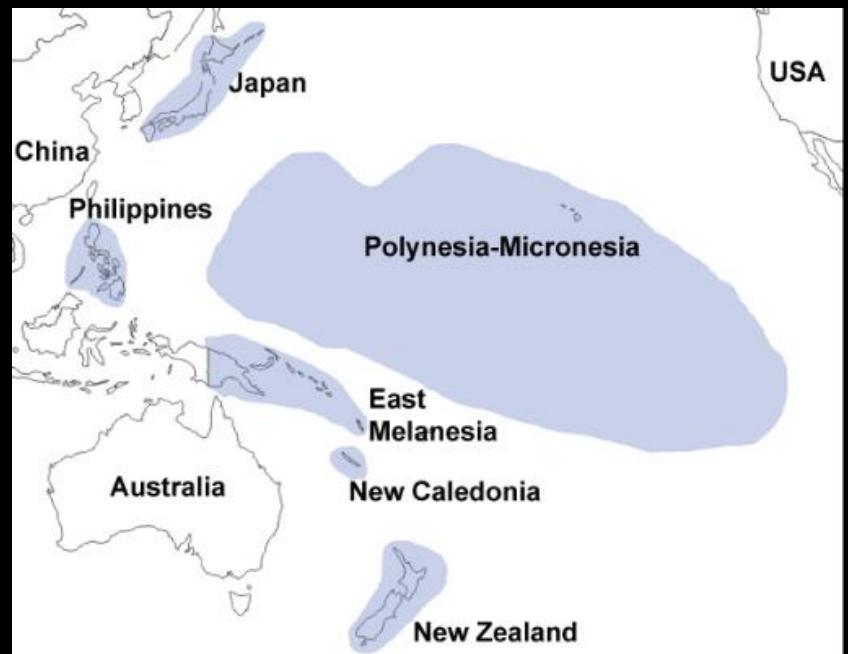


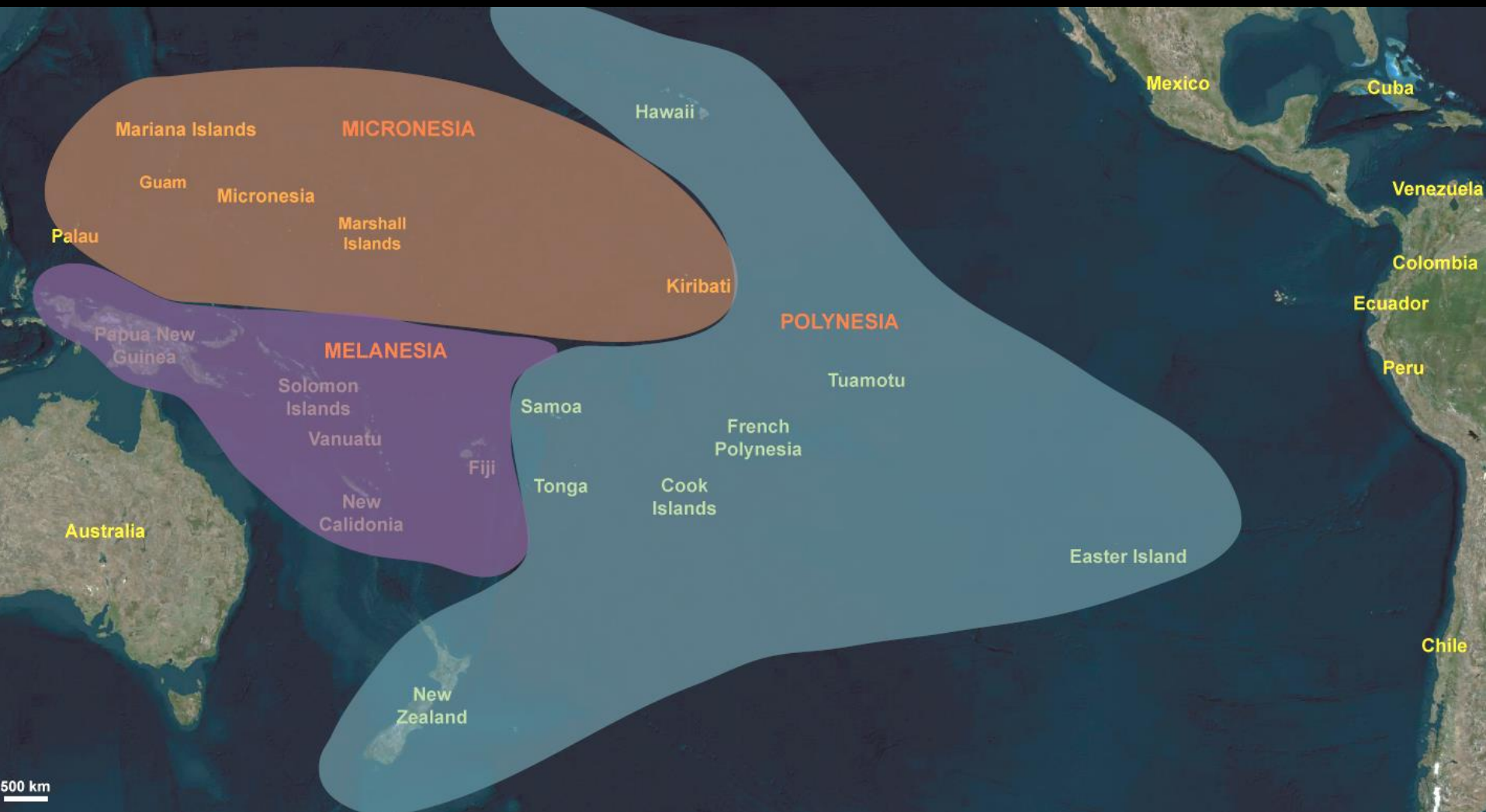
Biodiversity Hotspots

There are a total of 34 Biodiversity Hotspots in the world that are listed as:



Conservation International (conservation.org) defines 35 biodiversity hotspots — extraordinary places that harbor vast numbers of plant and animal species found nowhere else. All are heavily threatened by habitat loss and degradation, making their conservation crucial to protecting nature for the benefit of all life on Earth.





ESA listed species

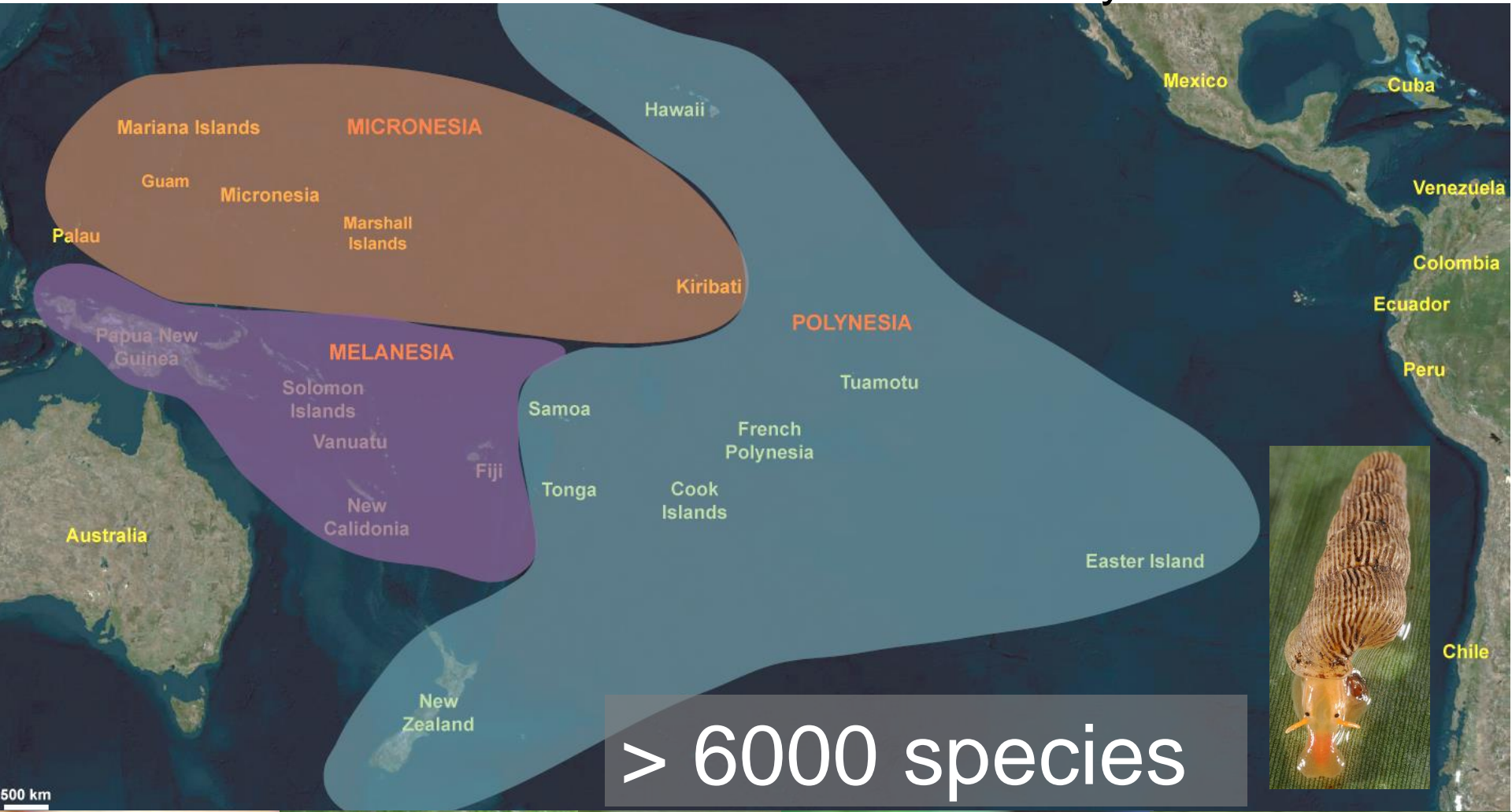
US Pacific Islands (~600)

Hawaii only (~500)

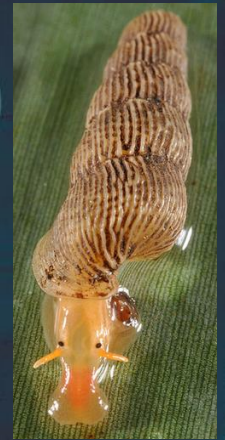
US mainland (~1000)



Pacific Island Land Snail Diversity



> 6000 species

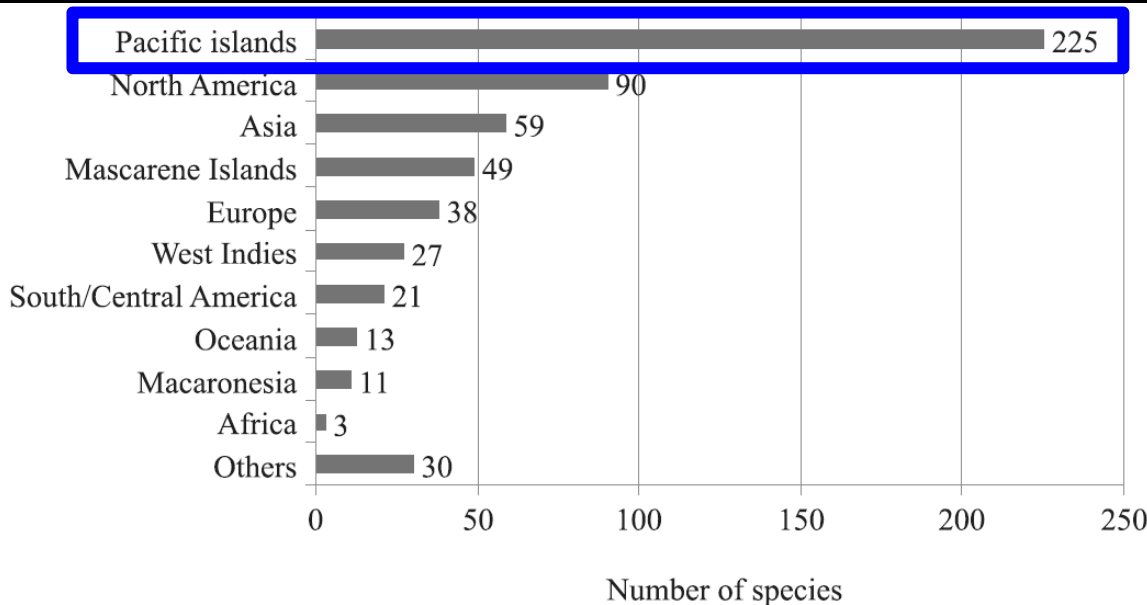
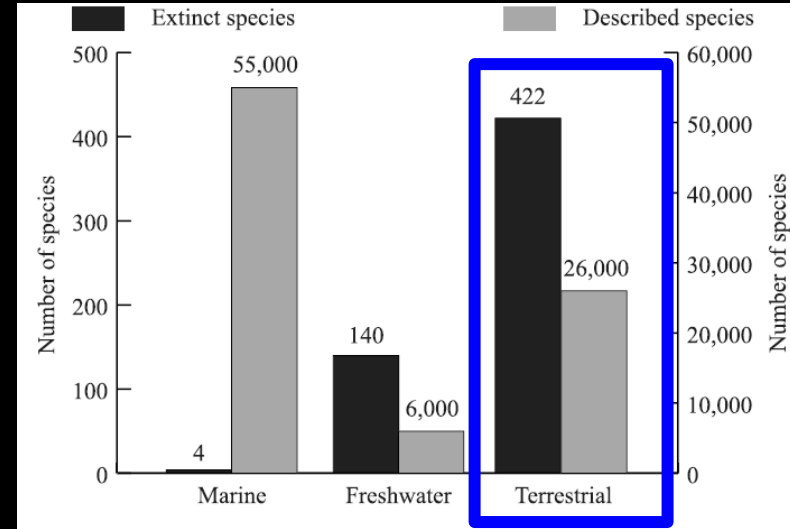


Not Knowing, Not Recording, Not Listing: Numerous Unnoticed Mollusk Extinctions

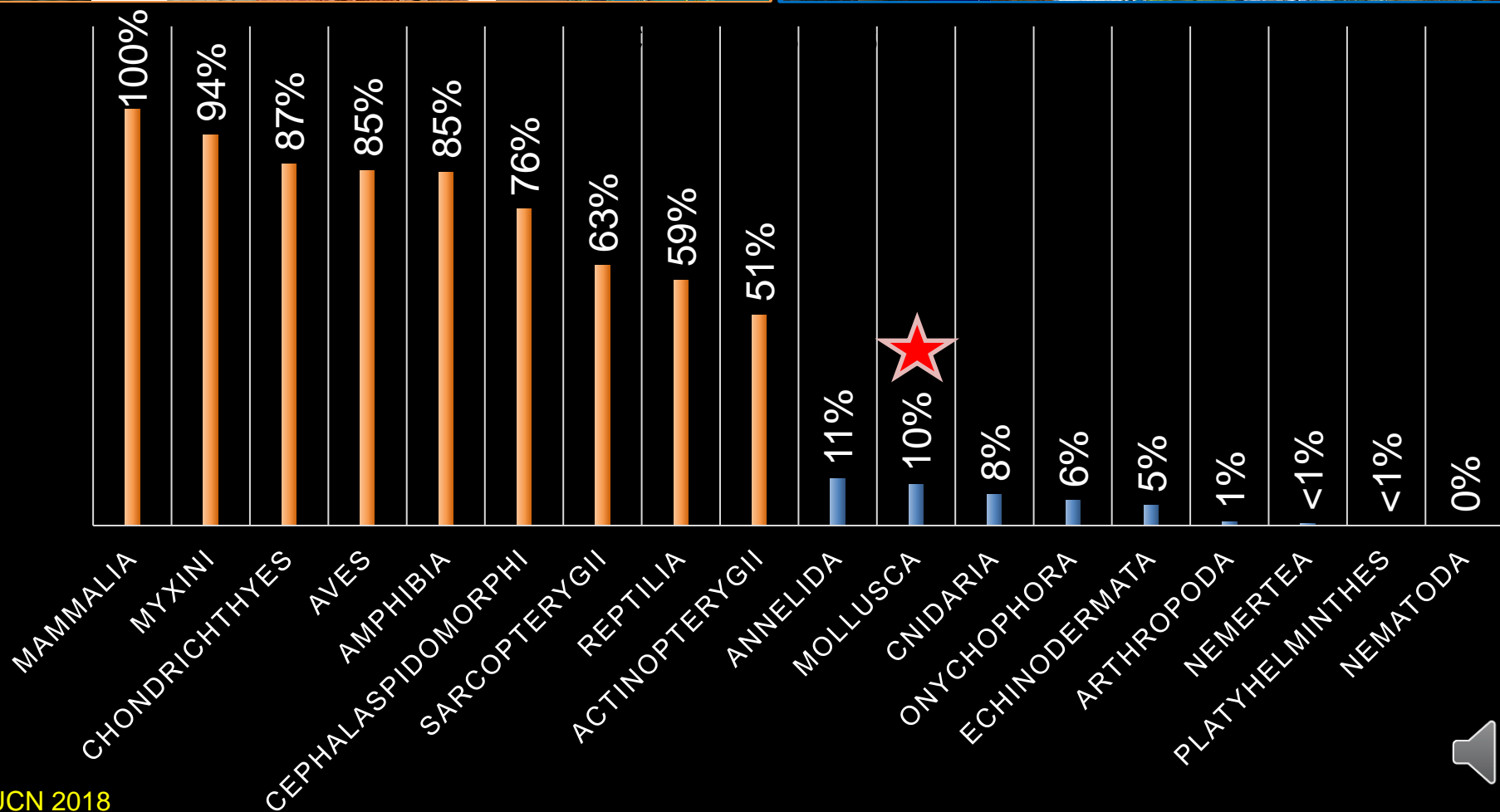
CLAIRE RÉGNIER ✉, BENOÎT FONTAINE, PHILIPPE BOUCHET

First published: May 18, 2009 [Full publication history](#)

- Most extinctions of any animal group since the 1500s
- Most of the extinctions:
 - Terrestrial
 - Pacific Islands



Species Evaluated





BISHOP MUSEUM



MUSEUM OF COMPARATIVE ZOOLOGY



HARVARD UNIVERSITY



PILSBRY

Pacific Island Land Snail
Biodiversity Repository





PILSBRY

*Pacific Island Land Snail
Biodiversity Repository*

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Welcome Chandra! [My Profile](#) [Logout](#) [Sitemap](#)

Welcome to PILSBRY!

[Browse All](#) | [Advanced Search](#)

PILSBRY (**P**acific **I**sland **L**and **S**nails **B**iodiversity **R**epository) 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 Comparative Zoology, Florida Museum of Natural History, and the Field Museum.



**Develop an online portal to
disseminate information**



Taxonomic Authority File (5,595 names)



Achatinella apexfulva

'Ach ? apexfulva var.'
Ach apexfulva var.
Ach. ? apexfulva var?
Ach. apexfulva var.
Achatinella (Achatinella) apexfulva
Achatinella (s.s.) a
Achatinella (s.s.) a.
Achatinella (s.s.) apexfulva
Achatinella (s.s.) apexfulva (C.M.C.)
Achatinella (s.s.) apexfulva C.M.C.
Achatinella (s.s.) apexfulva (C.M.C.)
Achatinella (s.s.) apexfulva subspecies?
Achatinella (s.s.) apexfulva var.
Achatinella (s.s.) apexfulva?
Achatinella (s.s.) apexfulva? Var.?
Achatinella ? apexfulva
Achatinella a
Achatinella apexfulva
Achatinella apexfulva (Dixon)
Achatinella apexfulva (Dixon, 1789)
Achatinella apexfulva Dixon
Achatinella apexfulva var.



MOLLUSCABASE



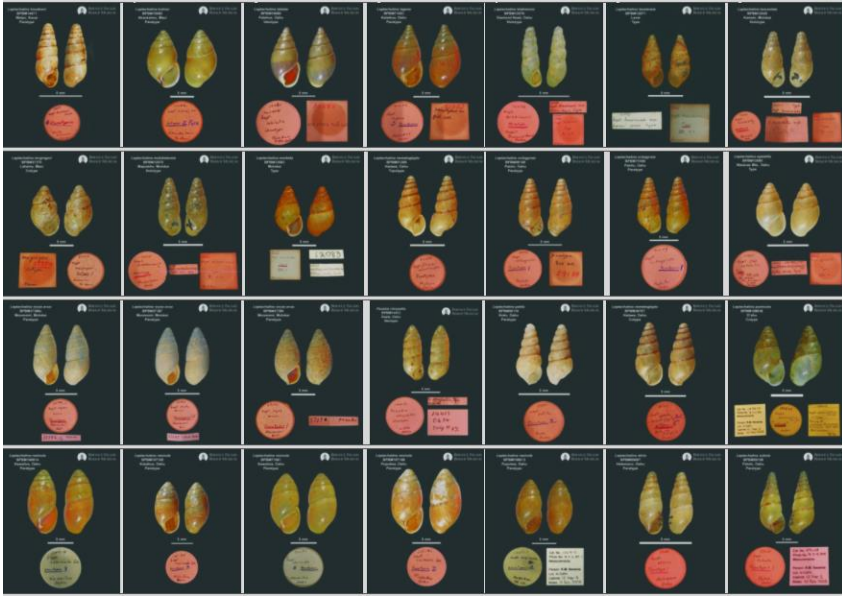
ZooBank



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Laminella venusta
BPBM91652

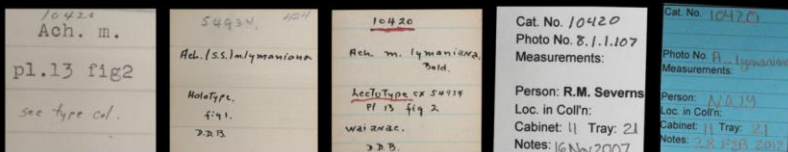


5 mm

Achatinella mustelina lymaniana
BPBM10420
Holotype



5 mm



PILSBRY
Pacific Island Land Snail
Biodiversity Repository



Digitize and Enhance Specimen Records (3.6 million specimens)

- Current total: 3,361,547 specimens
- Linking habitat data, field notes, ledgers, georeferencing localities



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*Pacific Island Land Snail
Biodiversity Repository*

Home Search Browse Collections Tools Contact


Home >> Collection Search Page >> **Bernice Pauahi Bishop Museum, Malacology Details**

Be

Contacts: Norine Yeung (norine@bishopmuseum.org)
Related link: <https://www.bishopmuseum.org/malacology/>
Collection Type: Preserved Specimens
Management: Live Data managed directly within data portal
Global Unique Identifier: 9c5a4e4f-2bec-4a92-ab85-38950dd6d948
Digital Metadata: EML File
Usage Rights: CC0 1.0 (Public-domain)

Collection Statistics

- 288,991 lot records
- 2,519,636 specimen records
- 87,226 (30%) lots georeferenced
- 275,168 (95%) with images (275,598 total images)
- 47,682 (16%) lots identified to species
- 213 families
- 86 genera
- 858 species
- 1,178 total taxa (including subsp. and var.)



PILSBRY
*Pacific Island Land Snail
Biodiversity Repository*

Home Search Browse Collections Tools Contact


Home >> Collection Search Page >> **Museum of Comparative Zoology, Harvard University Details**

Museu

Contacts: Adam Baldinger (abaldinger@oeb.harvard.edu)
Related link: <https://mcz.harvard.edu/malacology>
Collection Type: Preserved Specimens
Management: Data snapshot of local collection database
Last Update: 7 May 2021
IPT / DwC-A Source: MCZbase IPT with PILSBRY filter
Digital Metadata: EML File
Usage Rights: CC BY-NC (Attribution-Non-Commercial)
Rights Holder: President and Fellows of Harvard College

Collection Statistics

- 12,209 lot records
- 116,943 specimen records
- 9,969 (82%) lots georeferenced
- 242 (2%) with images (812 total images)
- 77 families



20 Ledgers

- 5,535 ledger pages
- 95% specimen records

Catalog #: 18225

Occurrence ID (GUID): EA5A9D76-E4A7-403B-993E-E6C504D980A2

Taxon: *Achatinella anceyana*

Family: Achatinellidae

▣ Show Determination History

Collector: Baldwin

Additional Collectors: Anc. Col.

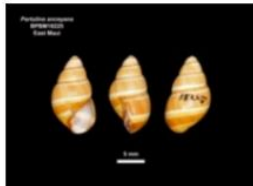
Locality: Polynesia, United States, Hawaii, Hawaiian Islands, Maui, East Maui

Substrate: Terrestrial

Dry Count: 3

Notes: Bought

Specimen Images



Open Large Image



Open Large Image

NAME	COLLECTOR	FROM WHOM RECEIVED	ORIGINAL NO.	LOCALITY	REMARKS	No. of Sp.	Weight	Other
anceyana, Pilsbry	D. B. Baldwin	Langford Thomson	9980	Japan: Harisus, Hokkaido	Pilsbry identified	1		
sp.	"	"	9981	Japan: Kesonnuma	On Pecten swiftii (# 9511, 6)	4		
sp.	Geo. Willet	"	8425	Alaska: Forrester Id.				Fragments
sp.	"	"	934	California: San Pedro Bay	ex Mrs. M.F. Bradshaw	8		
anceyana, Reeve	L. B. Harris	"	9701	California: Laguna Beach		6		
						2		1929
						3		1908
						2		925
						1		
						8		plates
						8		fragments
						4		Pilsbry
						8		plates
						2		1926
						9		plates
						2		1904
						3		
						4		
						4		925
						4		
						3		1904
						2		
						2		1904
						1		"rare"
						5		
						2		1904
						3		
						10		1927
						6		1908
						8		plates
						2		1913
						4		
						8		
						8		fragments
anceyana, Berry	"	"	8424	Alaska: Forrester Id.	20 fathoms			
anceyana, Dall	D. B. Baldwin	Langford Thomson	9592	Japan: Tokyo Bay	8 fathoms			cotypes
anceyana, Dall	"	"	9594	Okinawa: Nago, Loochoos	spm. missing from closed vial			cotype
"	"	"	9594	Japan: Zushi		11		
"	"	"	9594	Japan: Misaki, Sagami	ex. Iwao Taki, 1938	3		
"	"	"	9767	Japan: Hayama	Ident. by Taki	2		
"	"	"	9767	Japan: Nagoya, Kii		1		
"	"	"	9767	Japan: Matsuzaki, Izu	Ident. by Taki	1		
"	"	"	9767	"		6		
"	"	"	9767	"		31		
"	"	"	9767	Japan: Akiya, Sagami Bay		2		Type Loc. Pilsbry id.
"	"	"	9777	Japan: Hayama	Taki ident.	1		
"	"	"	9777	Japan: Ikenodan, Izu		1		



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Pacific Island Land Snail
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Documentation

Old Labels

COLLECTOR Oswold DATE 30/1
 ISLAND Oahu GROUP _____
 LOCALITY KAAAWA - rt.
 *HABITAT—hillside, valley, ridge, flat.....
 *STATION—Open ground, under stones or logs, on ferns or shrubs, on tree trunks, on cliffs, on bunch grass, or on dead leaves.
 *DRY, MEDIUM, DAMP.
 DISTANCE FROM SHORE _____ Alt. _____
 NOTES: Crest of ridge at 8th spur. Akalea & Lehua
 NOTE:—All live specimens of land shells should be drowned from 12-24 hours and then covered with a 40% solution of alcohol.
 *Erase the words not needed.
97958-61

Bibliocards

Ariophantidae
 macgregori Cox Cobia
 Pl. 16, fig. 4, New Ireland
 Helix macgregori, Cox, P.Z.S., p. 171, 1870.
 Cobia macgregori macgregori (Cox), Rensch 1937, Arch f Nat 6(4):546. Neu-Mecklenburg, Neu-Hanover. [abb 8,9;teeth, genitalia]
 Cobia macragori lihirensis I Rensch 1935, Zoo Anz 110, 281. N. Ire.
 Cobia m. lihirensis I Rensch, I Rensch 1937, Zool Anz 6(4):546. N.Meckl.
 C. m. lihirensis I Rensch, 1940, Z.Anz.131:38. Lihir

Temporary placement, surely not a Cobia
YK 13-V-7

Manuscripts

BERNICE P. BISHOP MUSEUM
 HONOLULU, HAWAII
FIELD NOTE BOOK
 Subject Postwar Collecting, Landskells
 Locality _____
 Member of Staff Yoshi
 Date Nov. 2 1946
The number of animals 5, 16, 1941
Try for it 26.5.47, p. 63

Field notebooks

No.	NAME	LOCALITY	REMARKS	HT.	WT.	Coloring
71	<i>Cochlicopa</i> <i>macgregori</i> , Cox	California, San Diego - 5 miles	in San Diego	2 1/2	12	
72	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
73	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
74	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
75	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
76	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
77	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
78	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
79	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
80	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
81	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
82	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
83	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
84	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
85	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
86	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
87	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
88	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
89	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
90	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
91	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
92	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
93	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
94	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
95	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
96	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
97	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
98	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
99	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	
100	<i>Cochlicopa</i> <i>macgregori</i> , Cox	San Diego, California	in San Diego	2 1/2	12	

CATALOGUE

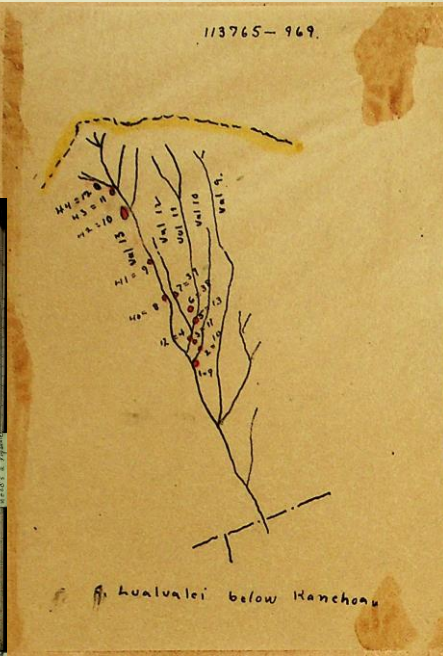
OF THE

GENERA AND SPECIES

OF

RECENT SHELLS,

IN THE COLLECTION OF
 C. B. ADAMS, A. M.,
 Prof. Chem. and Nat. Hist. in Middlebury College, Correspond. Memb. of the Phil. Acad. Nat. Sc., of the East. Soc. Nat. Hist. of the F. Entom. Soc., State Geologist of Vermont, &c. &c.

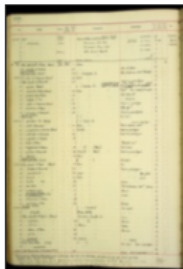
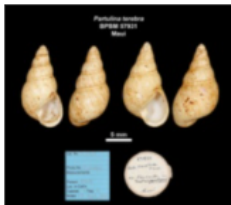
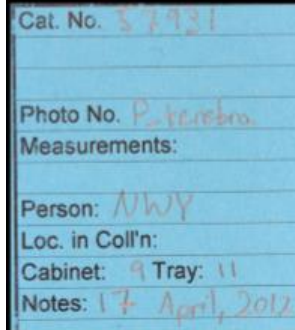


Maps

Ledgers

[Details](#)[Map](#)[Comments](#)[Linked Resources](#)[Edit History](#)[Share 0](#)[Tweet](#)**Bernice Pauahi Bishop Museum, Malacology (BPBM:MAL)****Catalog #:** 57931**Occurrence ID (GUID):** 97660981-d14e-4646-9d48-fbe680337815**Taxon:** *Partulina terebra* Newcomb, 1854**Family:** Achatinellidae

■ Show Determination History

Type Status: treat as paratypes**Collector:** Newc. Colln. 113**Additional Collectors:** Gov't. Colln.**Locality:** United States, Hawaii, Maui County, Maui
20.79274 -156.35823**Substrate:** Terrestrial**Dry Count:** 2**Notes:** Col. made by Wellesley Newcomb & was in Gov't. coll. that came to Museum, 147 spms., 46 cat. nos., rec'd. abt. 1894. ; The reason that some of the spec. are wrongly named by Newcomb is that the shells & labels were mixed while in Gov.t hands or on transfer to the Museum. CMC**Specimen Images**[Open Large Image](#)[Open Large Image](#)

579 30	Ach. perdix of Reeve [Newc.]	"	"	19	Maui	"	Mix.	2
31	" terebra of Newcomb	"	"	113	"	"	Treat as paratypes	2

**PILSBRY**Pacific Island Land Snail
Biodiversity Repository

Hawaiian Gazetteer



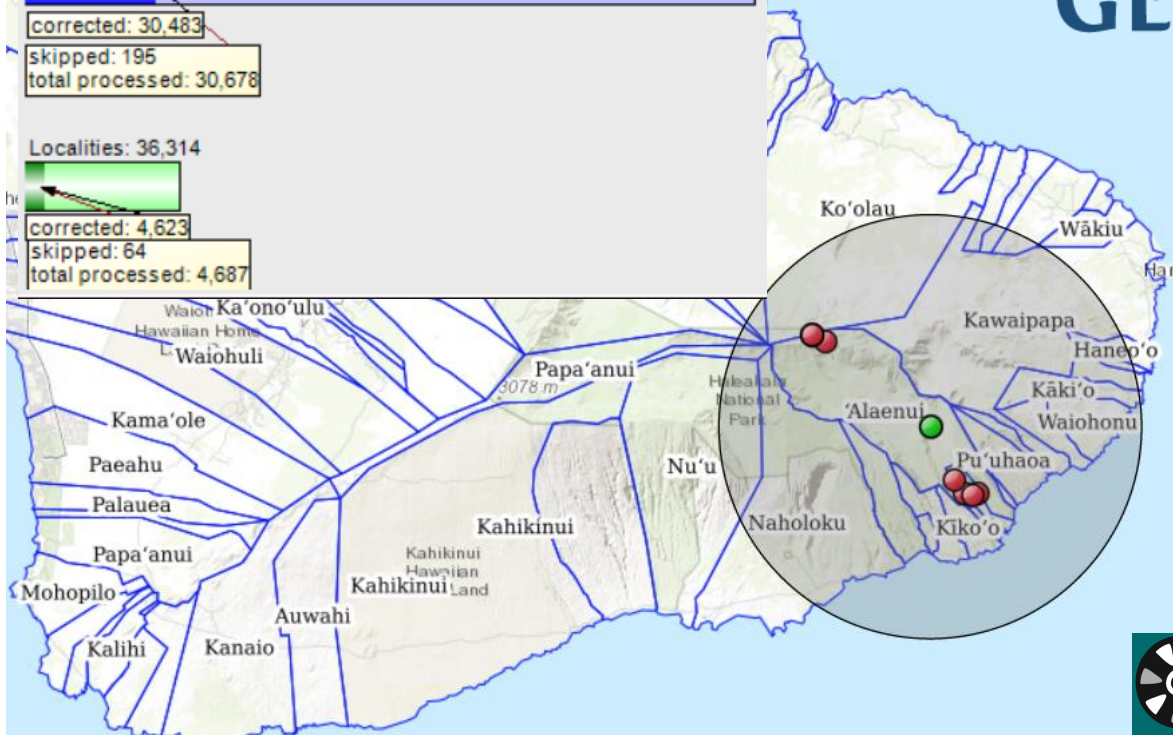
Records statistics:

Specimens: 169,228

corrected: 30,483
skipped: 195
total processed: 30,678

Localities: 36,314
corrected: 4,623
skipped: 64
total processed: 4,687

GEOLocate



Workbench **9 possible locations found** History Review

Community: PILSBry

Draw polygon Place marker Measure

Next Record(s) **East Maui, Hana District, Kipahulu Valley, Palikea Stream; United States; Hawaii; Maui County; Aug/1967**

Correct Similar Records(1)
Skip Selected
Identical Records(0)

- Add Comments
- Correction Report
- Clear Workbench

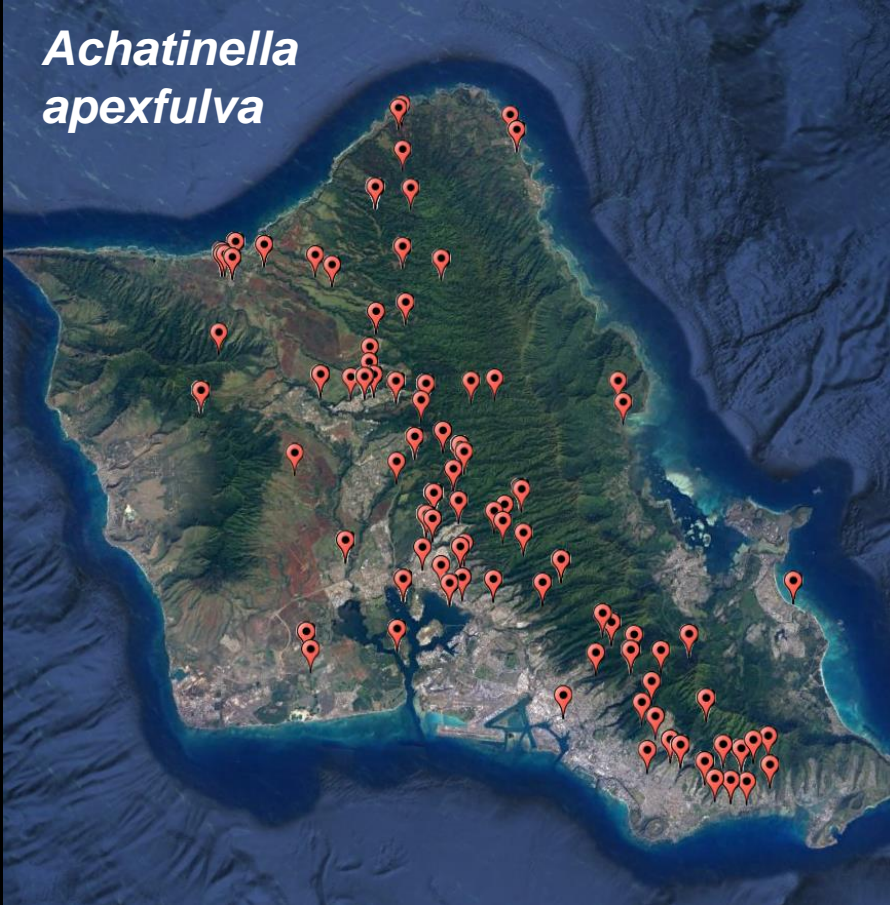
Logout | logged in as sunray1

Calculated Coordinates
Lat: 20.699006
Lon: -156.075823
U. Radius: 9036 m

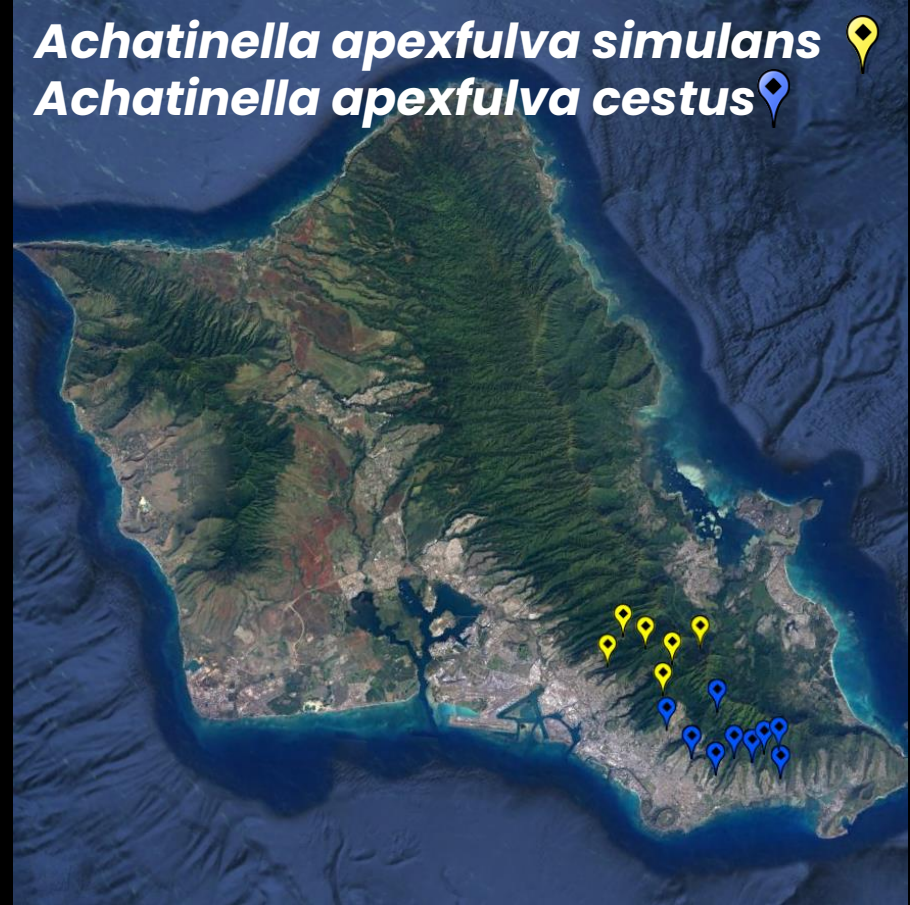


Species Distribution

Achatinella
apexfulva



Achatinella apexfulva simulans 
Achatinella apexfulva cestus 



Kanawao *Hydrangea arguta* Distribution



Image Landsat / Copernicus
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Data LDEO-Columbia, NSF, NOAA

Google Earth



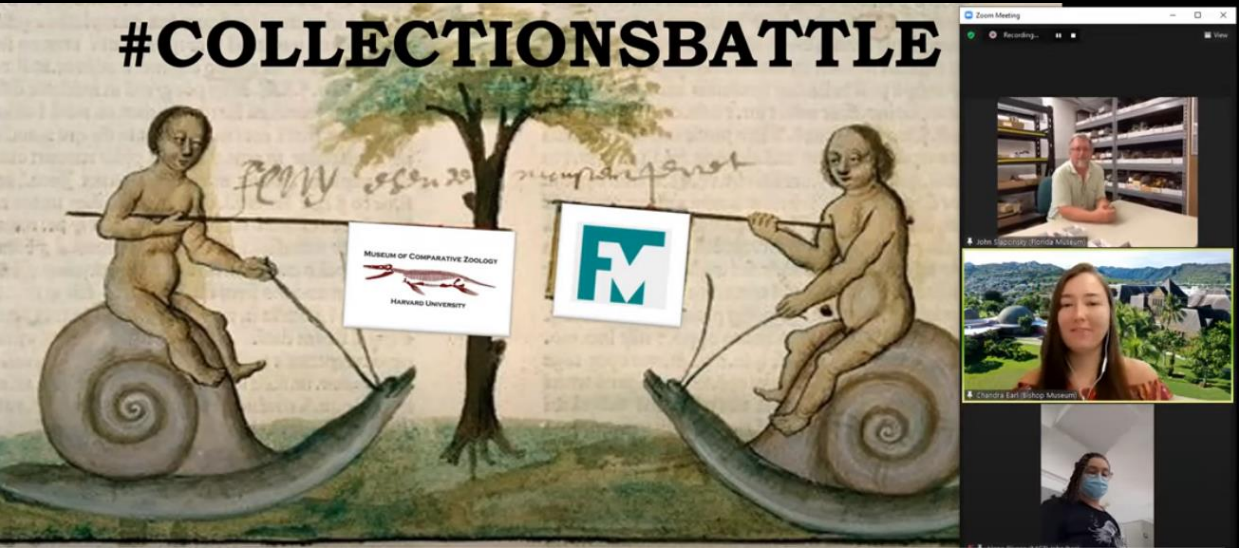
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Pacific Island Land Snail
Biodiversity Repository

Broader impacts (test case):
147 BPBM botany records georeferenced by
interns based on updated gazetteer



Social Media – Data Dissemination and Public Engagement



The Academy of Natural Sciences
OF BRIDGEMAN UNIVERSITY

iDigBio
Integrated Digitized Biocollections

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iDigIt

Eastern Seaboard
Preserving History of Marine Resources

NSF



A basic guide to specimen photography in museum collections



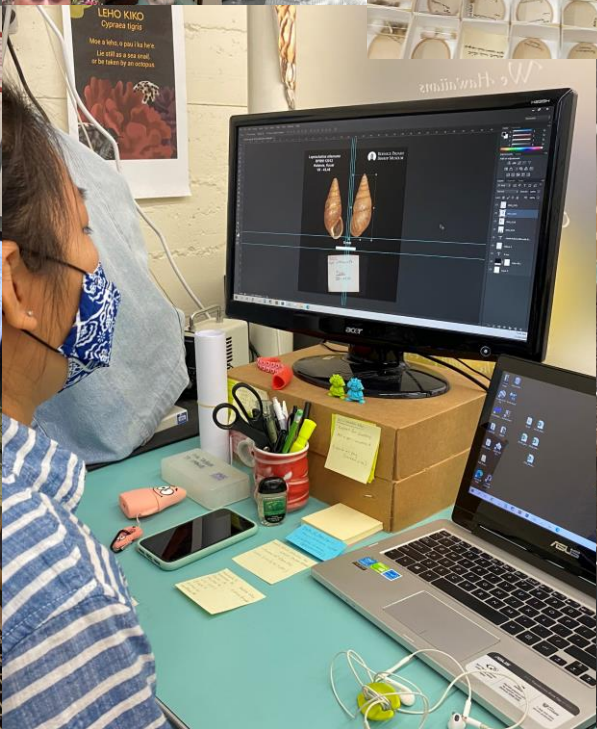
Natural History Imaging Workshop

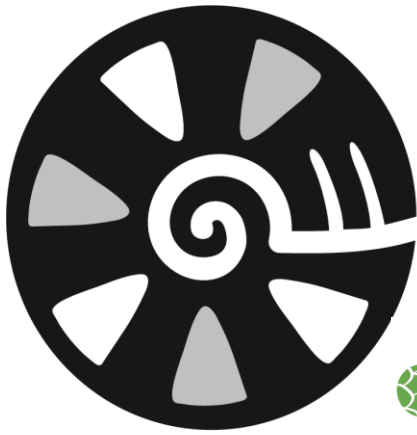
What: Imaging Workshop: Specimen Photography in Museum Collections
Who: Hosted by [PILSBry](#) TCN
([Paul Callomon](#) of ANSP), Invitation open
When: June 22 8:30am
HST/2:30pmEST
Where: Zoom!

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Biodiversity Repository

Hawaiian Land Snail Conservation
@Hawaiian.Land.Snails · Environmental Conservation Organization

Pacific Island Land Snail Conservation
@PacificSnail Follows you





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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

