Research and Other Uses of Images and Digitized Specimen Data



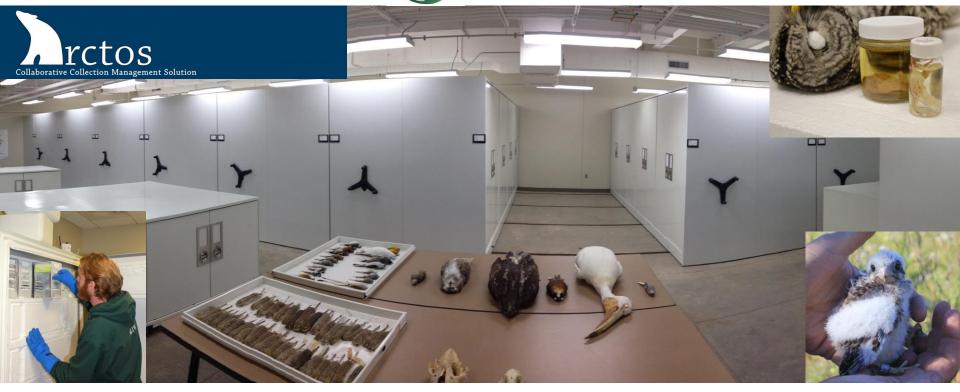


Elizabeth Wommack

University of Wyoming Museum of Vertebrates



The UWYMV ()



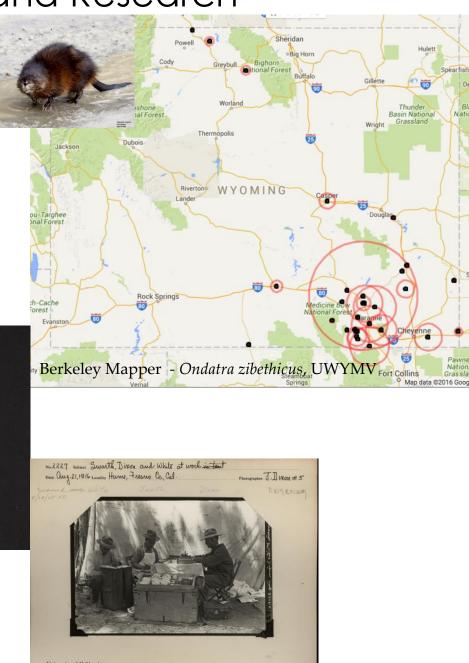
- 2638 bird specimens (skins, skeletons, eggs, and nests)
- 6341 mammal specimens (skins, pelts, and skeletons)
- 661 herp specimens (alcohols)
- 3064 fish specimens (alcohols)

Digitized Data, Museums, and Research

Types of digitized media and data:

- Morphological information
- Georeferenced localities
- Photos
- Recordings
- Field notes and journals



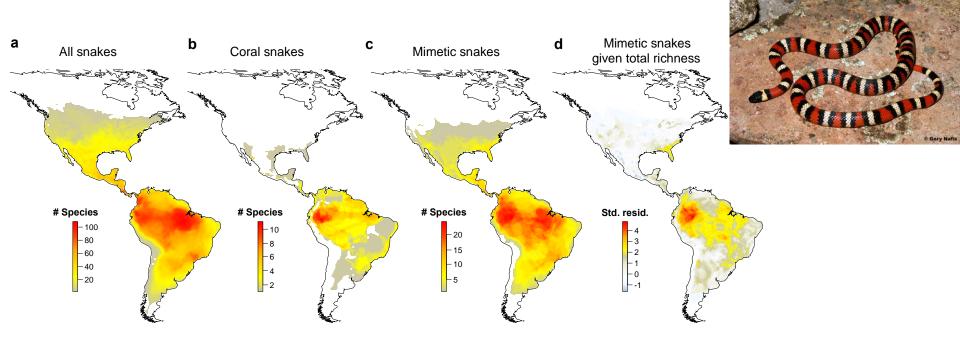


Museum of Vertebrate Zoology

Georefenced locations

Batesian mimicry in snakes across the New World





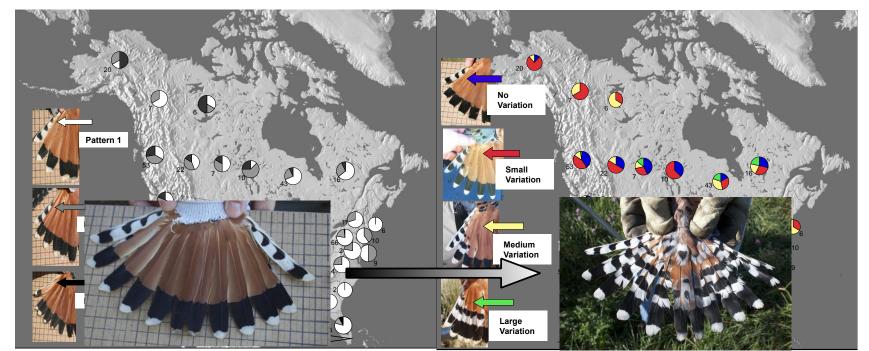
Photographs

Identification of morphs in birds







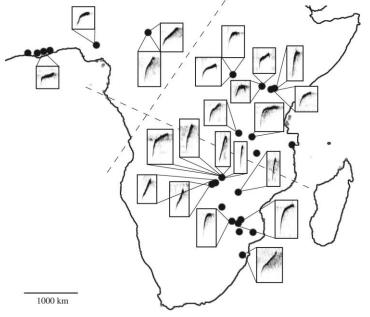


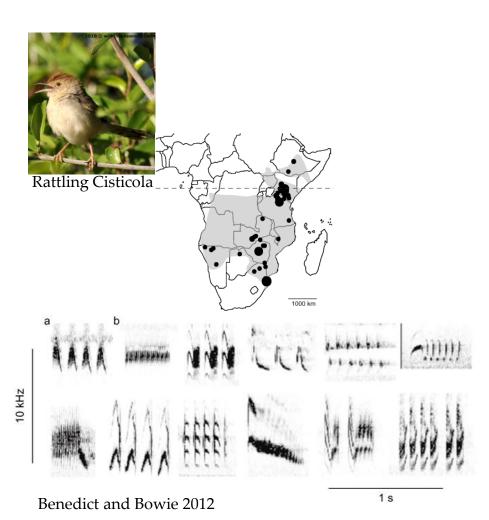
Recordings

Species evolution and song variation in African *Cisticolas*



Red-faced Cisticola

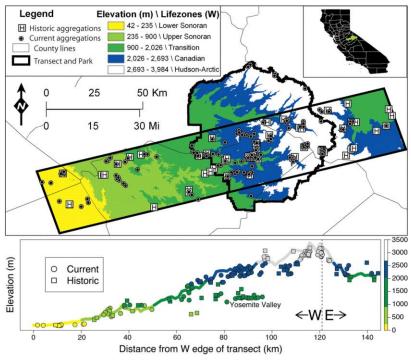




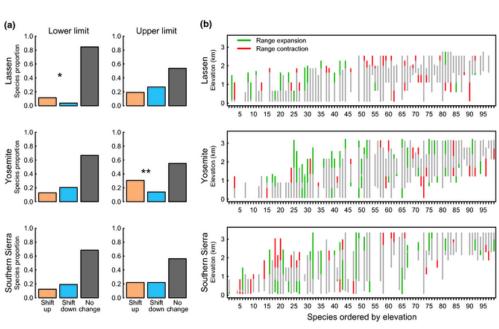
Benedict and Bowie 2009

Field Journals

Resurveys track changes in species across time and space



Moritz et al. 2008



Tingley et al. 2012

What other types of data should museum's be saving?

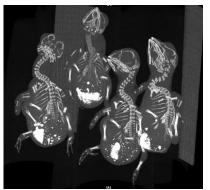




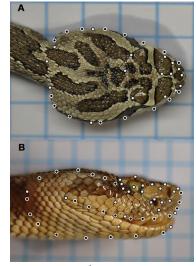
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Scans and Morphometrics

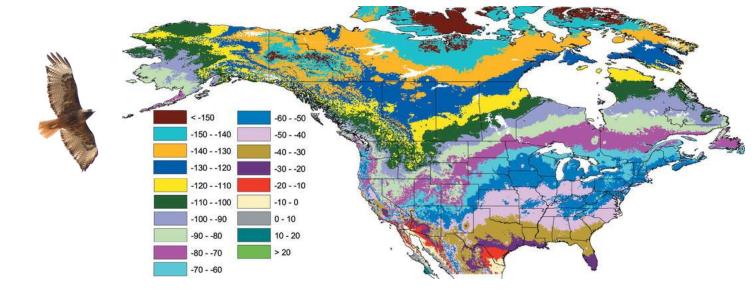


Jessie Atterholt 2015



Davis et al. 2016

• Isotopic Data



Ways to Encourage Data Use?

How do we encourage data use by the research community?

• Innovative new ways of collecting data





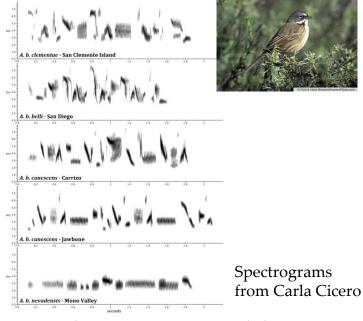
Ways to Encourage Data Use?

Develop protocols and funds for use of research collected specimens





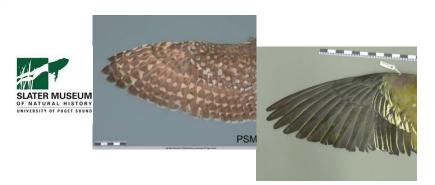




Photos from Katie Wagner

Think outside of the cabinet and engage citizen science communities

eBird







Acknowledgements and Questions



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