

GIGA PANNING FOR GOLDEN- MANTLED GROUND SQUIRRELS



Andrew Doll

John Demboski, Garth Spellman, Jeff Stephenson

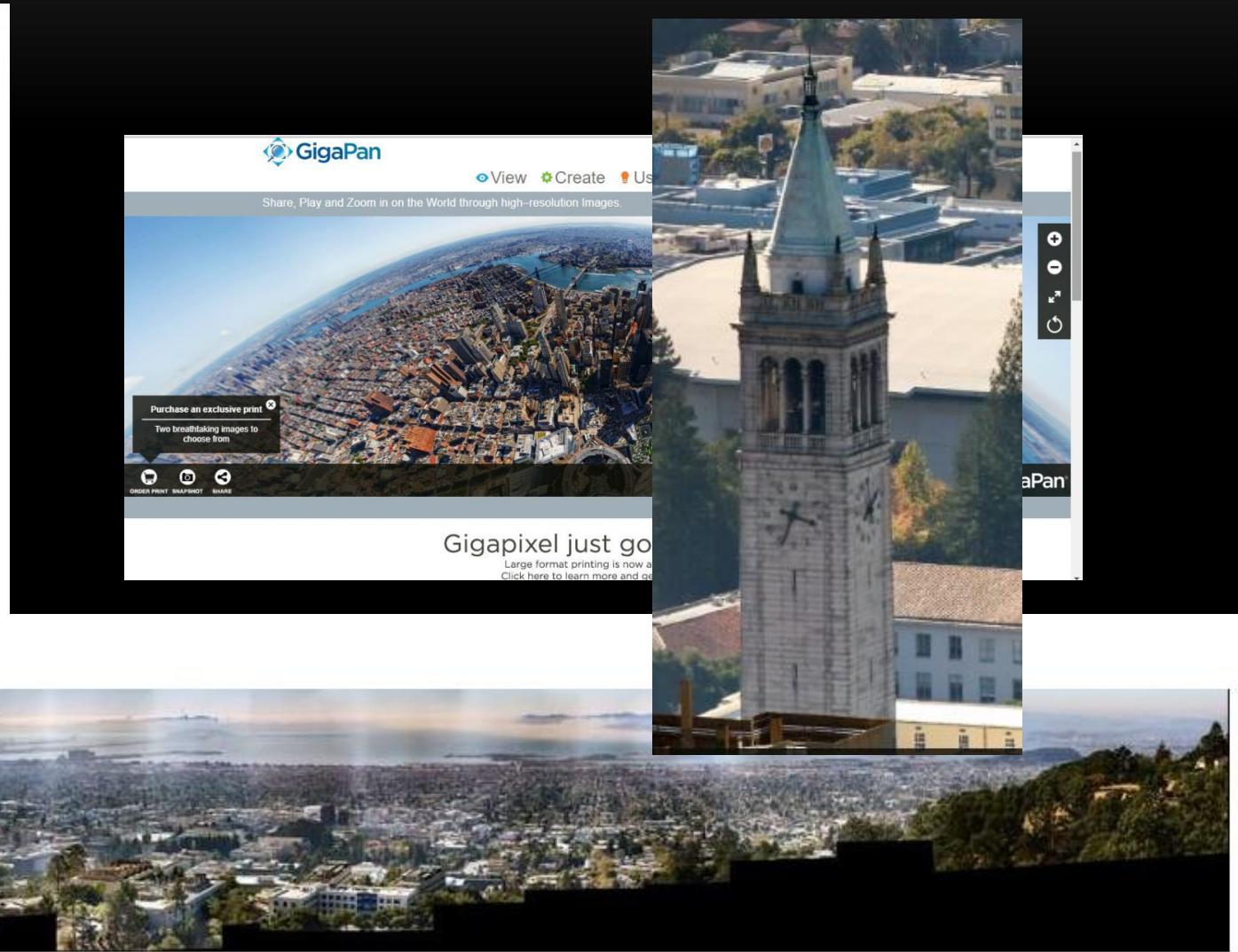


DENVER MUSEUM OF
NATURE & SCIENCE

WHAT'S A GIGAPAN?



• San Francisco Bay Area View by Artem Chubaryan



The image is a composite of three parts. On the left, a Canon EOS 5D Mark II camera is mounted on a GigaPan robotic head, which is a specialized tripod system designed for creating high-resolution panoramic images. In the center, a screenshot of the GigaPan website shows a 360-degree view of the San Francisco Bay Area, with a call-to-action button for purchasing an exclusive print. On the right, a detailed view of a church tower, likely the Campanile at the University of California Berkeley, is shown, demonstrating the high resolution and zoom capability of the GigaPan images.

INSPIRATION

ZooKeys 209: 115–132 (2012)
doi: 10.3897/zookeys.209.3083
www.zookeys.org

RESEARCH ARTICLE



Results and insights from the NCSU Insect Museum GigaPan project

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Katja C. Seltmann², Andrew R. Deans¹

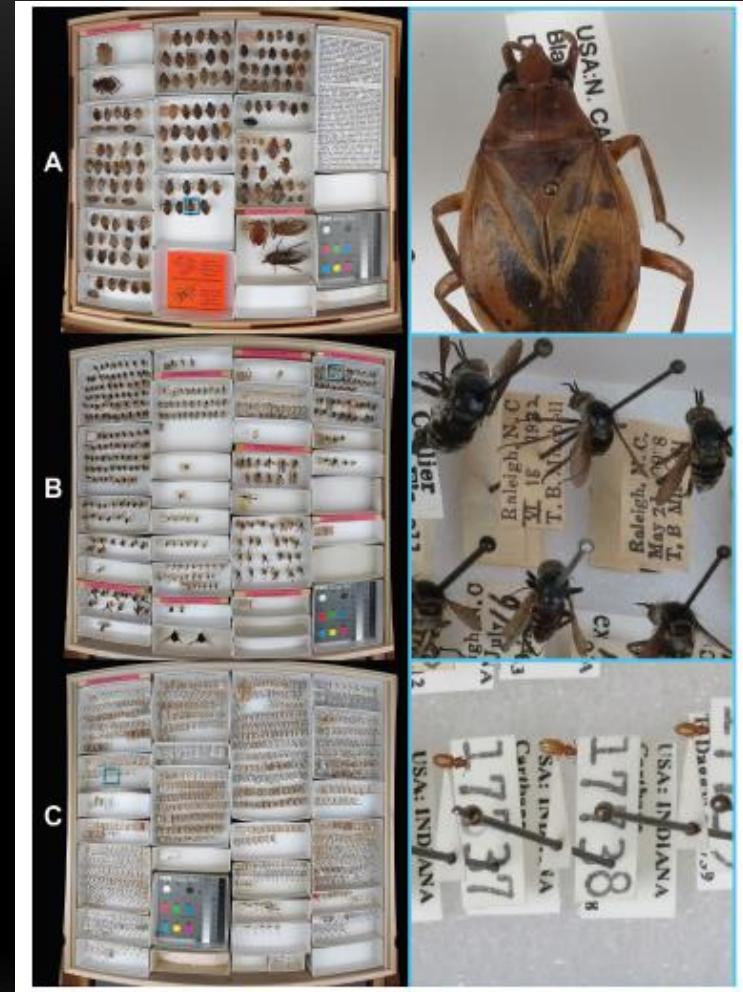


Figure 4. Examples of typical drawers, showing larger specimens, average specimens, and smaller specimens (A, B & C, respectively). Left – full drawer image; Right – zoomed to full resolution. **A** Belostomatidae 1 (<http://gigapan.org/gigapans/96136>) **B** Bombyliidae 5 (<http://gigapan.org/gigapans/89195>) **C** Silvanidae 2 (<http://gigapan.org/gigapans/95947>)

DMNS - ZOOLOGY

- Entomology – 1.07M
- Arachnology – 60K vials
- Ornithology – 50k
- Marine Invertebrates –
45k lots
- Mammalogy – 20k
- Oology - 7000
- Herpetology – 400
- Botany – 4k
- Parasite – +2K

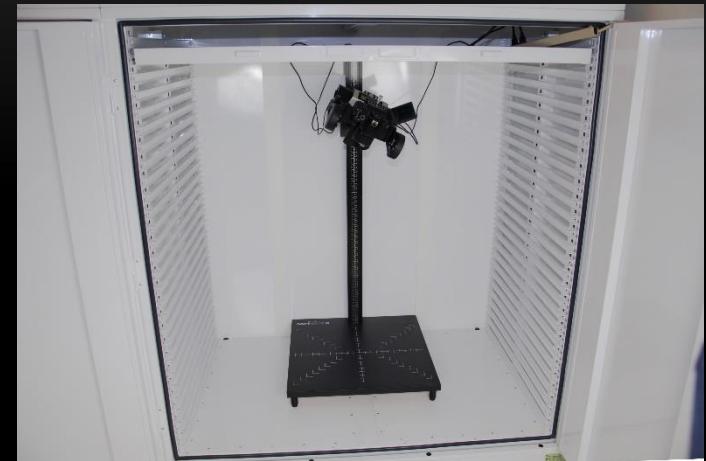
AVENIR COLLECTIONS CENTER

- Opened 2014
- 64,000 sqft – Zoology: ~10,000 sqft
 - Climate Controlled
 - New Cabinetry
 - Restricted Access (pests)
- Opportunity to Reorganize and Uncrowd



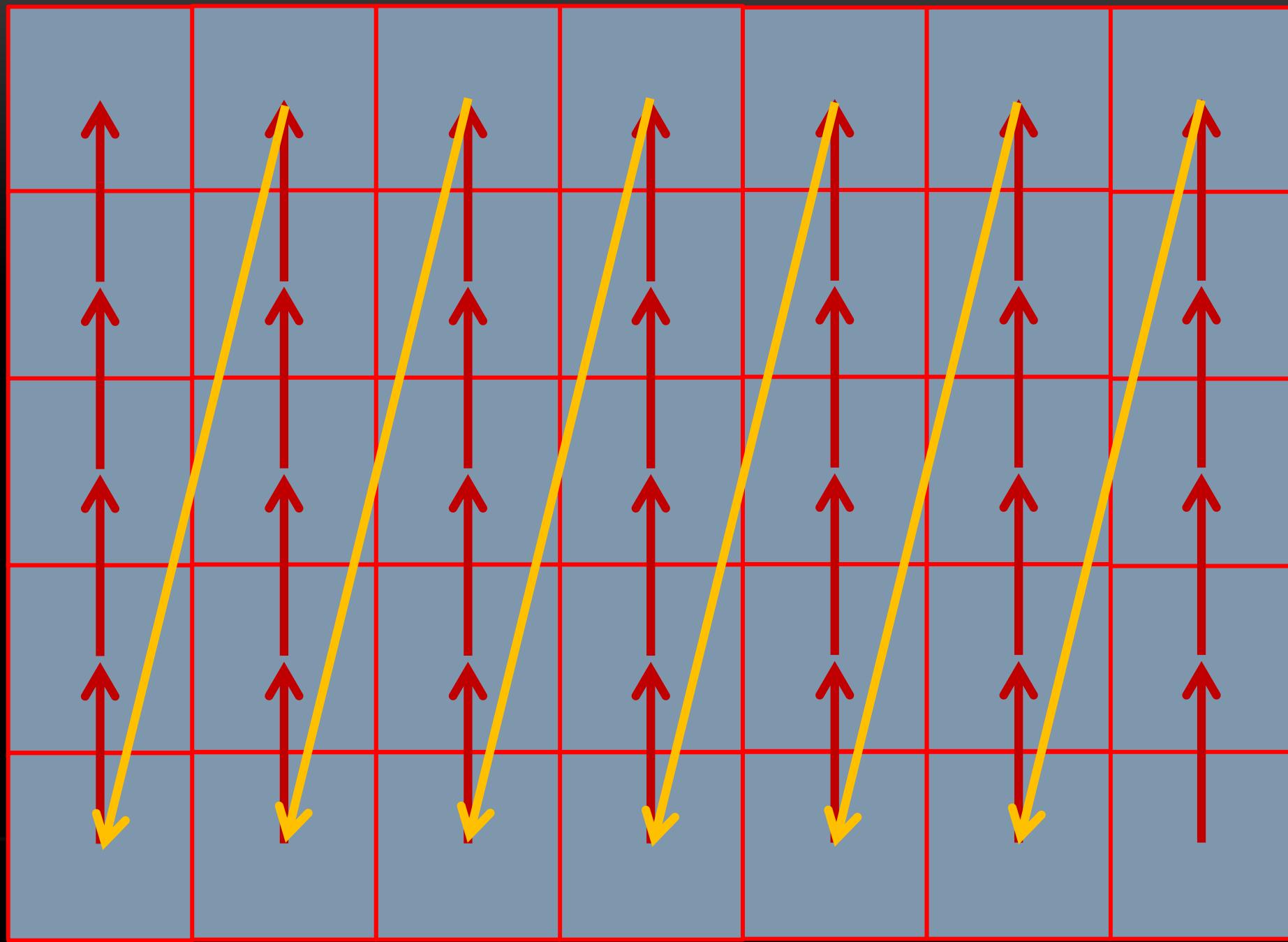
EQUIPMENT SETUP

- Bencher Copymate II
- Canon EOS Rebel T5i 18.0 MP DSLR Camera
- Interfit Super Cool-lite 9 MKII (x2)
- GigaPan Epic Pro
- iMac – 27 in with Retina 5K
 - Adobe Photoshop & Lightroom
 - 5T external hard drive (x2; parallel backups)



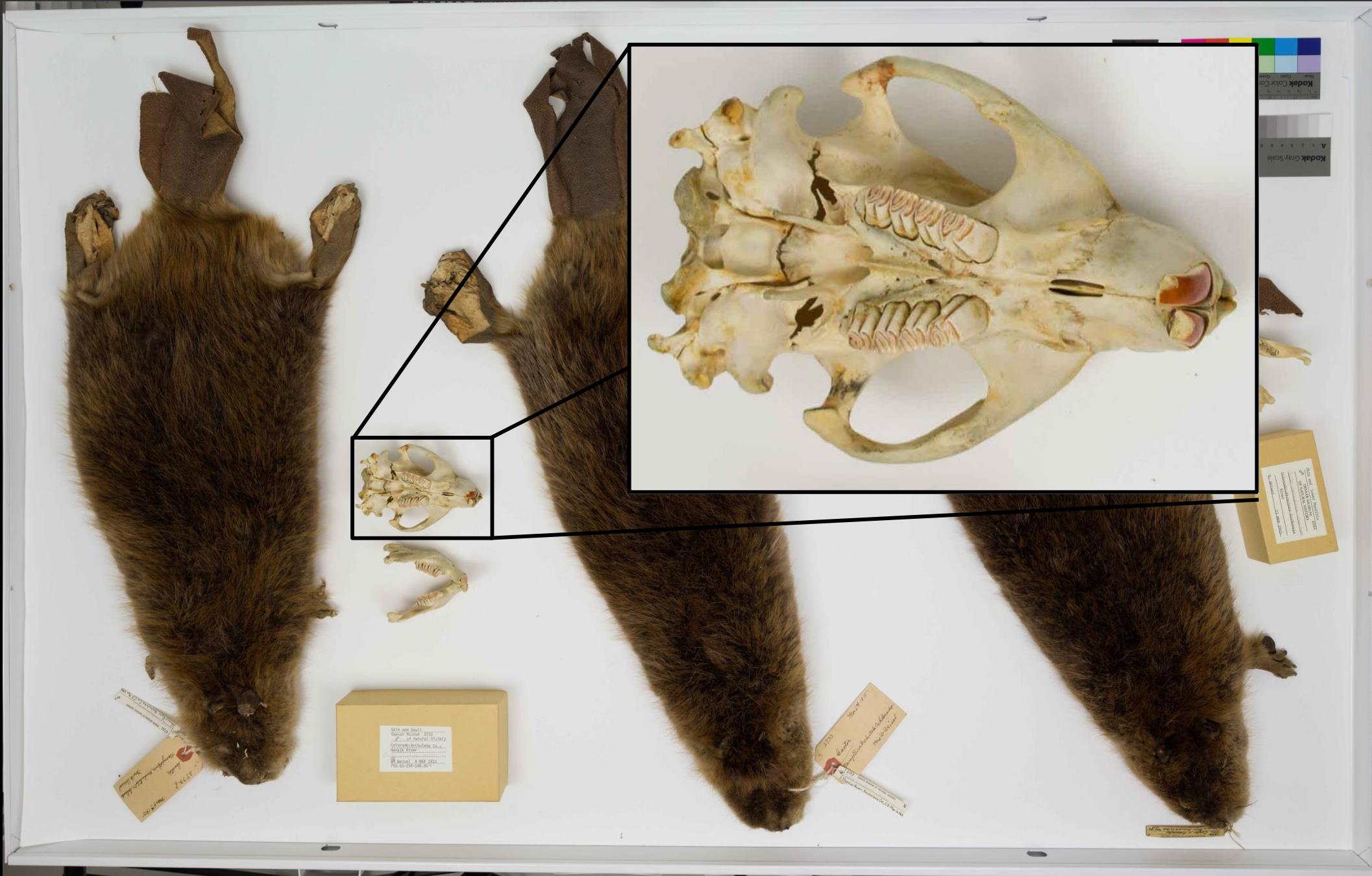










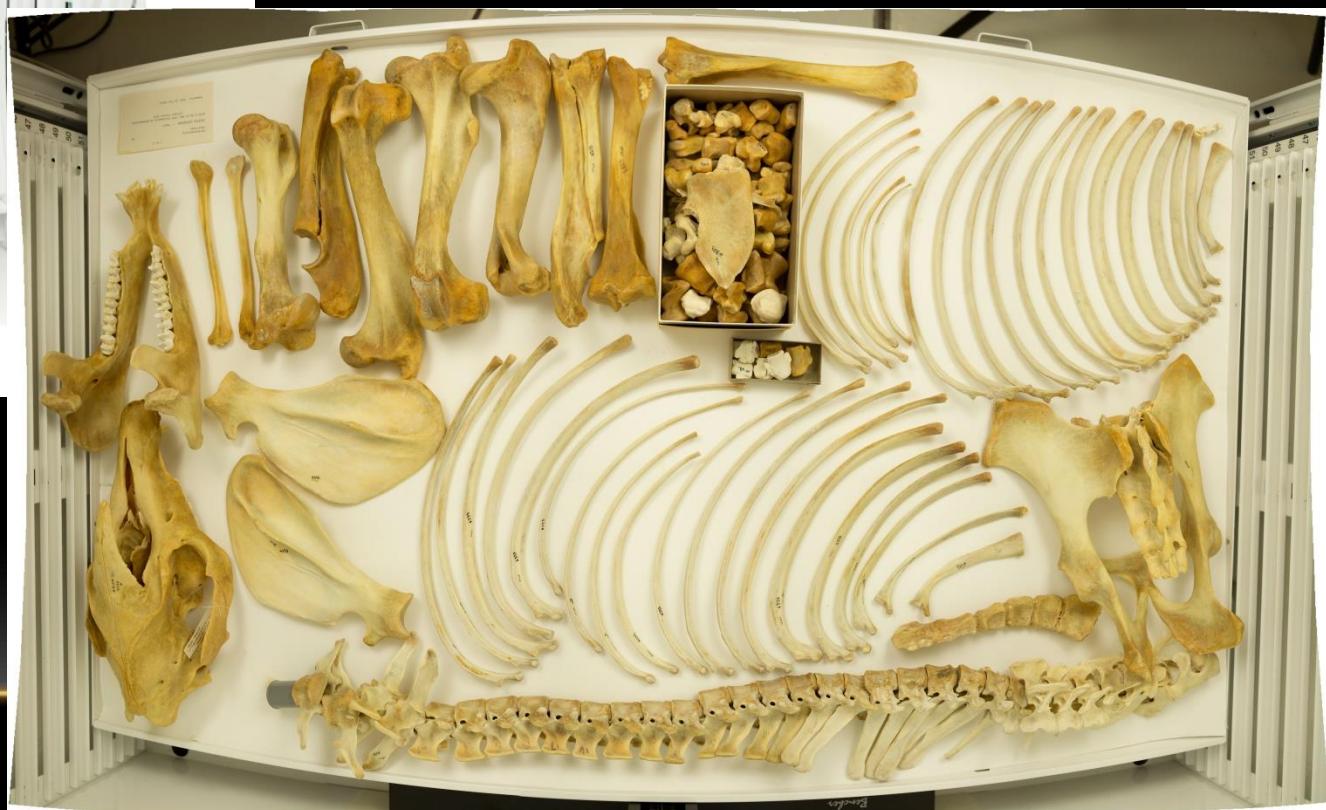








© DMNS



ACCESSIBILITY

- Arctos

- >3 million record from natural and cultural history collections
- anthropology, botany, entomology, ethnology, herpetology, ichthyology, mammalogy, ornithology, paleontology, parasitology

<http://arctos.database.museum/gui/d/DMNS:Bird:12419>

Arctos Collaborative Collection Management Solution

Access to 3,576,558 records

Search Clear Form Use Last Values See results as: Specimen Records

Type: any Require Tissues?

Identifiers

Collection: Select options

Catalog Number:

Any Identifier:

Identification and Taxonomy

Any taxon, ID, common name: identification; classification + related term; common name

Locality

Any Geographic Element: Select on Google Map

Date/Collector

Help Agent Role Define

Specimen Record

Part Name: Define Add = for exact match

Usage

Basis of Citation: Define

Media

Media Type: Define

Relationships

Relationship: Define

Customize Show More Options

Try something random Hide This on this day...

V. Haukisalmi, L. M. Wickström, J. Hantula, H. Henttonen. 2001. Taxonomy, genetic differentiation and Holarctic biogeography of *Paranoplocephala* spp. (Cestoda: Anoplocephalidae) in collared lemmings (*Dicrostonyx*; Arvicolinae). Biological Journal of the Linnean Society 74:171-196.

MSB Host:21321 *Gyraulus corinna*

UAM-Arc:UA2015-068-00385 *Gadus macrocephalus*

CUMV.Bird.51921 *Tachycineta bicolor*

Schawaller, W. 1998. Revision of the genus *Lyrosoma* Mannerheim, 1853 (Coleoptera, Agyrtidae). Entomologische Blätter 94: 127-133

Phylogeographic study on the Mediterranean amphipodanid *Blanius*

Ernesto Recuero, Iñigo Martínez-

username password
Log In or Create Account

arctos

- Data Providers
- Report a bug or request support
- View in mobile site

DMNS:Bird:12419

Amazona aestiva xanthopteryx

<< Return to results

get a DOI

San Salvador

South America, Paraguay, Guaira
27 Aug 1925

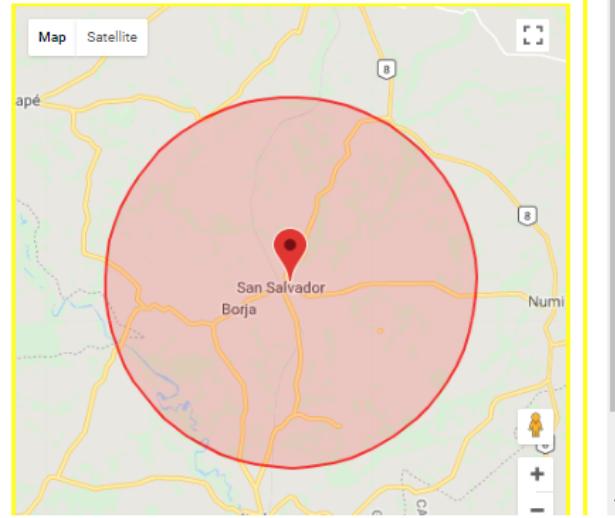
skin, study

Report Bad Data [0][0]

DMNS Birds

first prev next last

Record 1 of 16

Identification	Accn	Locality	Agents	Parts	Part Locn.	Attributes	Other IDs	Media	Encumbrances																
<p>Identifications</p> <p>Amazona aestiva xanthopteryx Animalia; Chordata; Aves; Psittaciformes; Psittacidae; Arinae; Amazona aestiva xanthopteryx Identified by Garth M. Spellman Nature of ID: expert</p>		<p>San Salvador</p> <p>South America, Paraguay, Guaira 27 Aug 1925</p>	<p>Collector(s)</p> <p>Frederick G. Brandenburg</p>																						
<p>Location (1 Events) [expand]</p> <p>BerkeleyMapper</p> <p>Determination Type: collection assigned by John R. Demboski on 2011-12-14 Higher Geography: South America, Paraguay, Guaira more Verbatim Locality: no verbatim locality recorded Specific Locality: San Salvador Collecting Source: wild caught Event Date: 1925-08-27 Verbatim Date: 27 Aug 1925 Verification Status: unverified Define</p> <p>Coordinates: -25.9395247234 / -56.4696000898 Verbatim Coordinates: -25.9395247234/-56.4696000898 Datum: World Geodetic System 1984 Error: 10000 m Georeference Source: GeoLocate Georeference Protocol: GeoLocate</p> 			<p>Identifiers</p> <p>collector number: FGB241</p>		<p>Parts</p> <table border="1"><tr><th>Part Name</th><th>Condition</th><th>Disposition</th><th>Qty</th><th>Label</th><th>Barcode</th><th>PLPath</th><th>Loan</th><th>Remarks</th></tr><tr><td>skin, study</td><td>unchecked</td><td>unknown</td><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table>	Part Name	Condition	Disposition	Qty	Label	Barcode	PLPath	Loan	Remarks	skin, study	unchecked	unknown	1							
Part Name	Condition	Disposition	Qty	Label	Barcode	PLPath	Loan	Remarks																	
skin, study	unchecked	unknown	1																						
			<p>Attributes</p> <p>sex: male unknown, 1999-10-21</p>																						
			<p>Entered By: Dusty L. McDonald on 2010-05-20 Last Edited By: UAM on 2018-05-19</p>																						
			<p>Accession</p> <p>Edit 0000 or View 0000</p>																						
			<p>Tagged in Media</p> 																						
			<p>Media</p> <p>Showing Media results 1 - 2 of 2 [view details]</p> <p>Media linked to this Specimen</p> <table border="1"><tr><td> image (image/jpeg) Media Details DMNS</td><td> image (image/jpeg) Media Details DMNS</td></tr></table>	 image (image/jpeg) Media Details DMNS	 image (image/jpeg) Media Details DMNS																				
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			<p>Amazona_sp_C214S23110... Amazona_sp_C214S23_11...</p>																						



Collaborative Collection Management Solution

Search Enter Data Manage Data Manage Arctos Reports/Services Portals My Stuff About/Help

Log out acdoll (Last login: 2018-06-03)



TAG Type: cataloged_item
Reference: [DMNS:Bird:12459](#)

TAG Type: cataloged_item
Reference: [DMNS:Bird:12458](#)

TAG Type: cataloged_item
Reference: [DMNS:Bird:12457](#)
Remark: null

TAG Type: cataloged_item
Reference: [DMNS:Bird:12456](#)
Remark: null

TAG Type: cataloged_item
Reference: [DMNS:Bird:12420](#)

TAG Type: cataloged_item
Reference: [DMNS:Bird:12419](#)

TAG Type: cataloged_item
Reference: [DMNS:Bird:17080](#)

TAG Type: cataloged_item
Reference: [DMNS:Bird:18322](#)

TAG Type: cataloged_item



Specimen No. 12419
A. A. Allen
Division of Ornithology
Museum of Natural History
University of California
Berkeley, Calif.
Collected by
Oscar S. Sonneborn
Salvador, Oaxaca, Mexico

DENVER MUSEUM OF NATURAL HISTORY
12419
Amazona aestiva
27 August 1925

27 August 1925

SUMMARY

- Systematically completed 2 rows (24 cabinets) of mammal collection
 - ~1350 total drawers with specimen, we've shot ~190 drawers (~14%)
- Opportunistically photographed 20 drawers out of 1900 bird drawers
 - Undergoing re-organization
- Pitfalls:
 - Active collections (incoming material – reorganizations)
 - Specimens of varied heights
 - Labor/time intensive

ACKNOWLEDGEMENTS

- Donors:
 - Ed & Pat Martin



- Volunteer Photographers:
 - Dean Linenberger
 - Earl Roper
 - Scott Ryberg

