



Digitization of Bird Collections

iDigBio Webinar

29 September 2015

Carla Cicero

Museum of Vertebrate Zoology


University of California, Berkeley

Why Digitize?

- Provide long-term preservation/longevity
- Increase access to specimens and data
 - researchers, educators, government agencies, NGOs, artists and scientific illustrators
- Promote and increase usage of collections
- Enhance opportunities for funding (grants, institutional support)
- Increase public appreciation of collections
- Provide opportunities for student training

What to Digitize?

- Ledger/catalog card data
- Label data
- Field notes, data slips
- Specimen images
- Attribute images
- Habitat images
- Audio/video recordings



The more data you add per specimen, the greater the value and fitness for use

“The camera is as important a part of his outfit as the trap or gun. These field notes and photographs are filed so as to be as readily accessible to the student in the museum as are the specimens themselves.” Joseph Grinnell 1910



Ledgers, Cards, and Labels

DEPARTMENT CATALOGUE—BIRDS

* GPS coordinates on back
data entered into Sybil Aug 6, 2001 M. Allen

UNIVERSITY OF CALIFORNIA
MUSEUM OF VERTEBRATE ZOOLOGY

ACON No. 13483 DATE OF ENTRY 11 September 2000 ENTERED BY J.L.G.R. 1/9

GENERAL LOCALITY Oregon: Harney Co., Umatilla Co., Morrow Co.

DEPT. NO.	ORIG. NO.	NAME	DATE	COLLECTOR	EXACT LOCALITY
+ tissue			Ad.		
179481	2034	Himantopus mexicanus	♂ 18 June 2000	C. Cicero	① Hwy. 205, 4600 ft., 2 mi E + 7 mi S Burns
+ tissue			Ad.		
179482	2039	Picoides arcticus	♀ 13 June 2000	"	② USFS Rd 5530, 4800 ft., 2 1/2 mi S + 10 mi W Ukiah
+ tissue			Ad sk.		
179483	2046	Perisoreus canadensis	♀ 25 June 2000	"	③ Little Butte Cr., 4700 ft., 3 1/2 mi S + 17 mi W Ukiah
+ tissue			Ad sk.		
179484	2045	" "	♂ 21 June 2000	"	④ USFS Rd 2105, 4700 ft., 4 mi S + 15 mi W Ukiah
+ tissue			Juv.		
179485	2036	" "	♂ 20 June 2000	"	⑤ Firemile Cr., 5800 ft., 9 mi W Ukiah
+ tissue			Ad sk.		
179486	2040	" "	♀ 22 June 2000	"	⑥ USFS Rd 5530, 4800 ft., 2 1/2 mi S + 10 mi W Ukiah
+ tissue			Ad sk.		
179487	2041	" "	♂	"	"
+ tissue					
179488	20				
+ tissue					
179489	20				
+ tissue					
179490	70				



THIS PAGE CONTAINS NO. 3541-3560

ACON NO.	ORIG. NO.	ORIGINATOR	SPECIES	DATE	LOCALITY	TYPE OF SPECIMEN	NO.
2541	15444	10286	Caiopodectes subbrunneus	22 Feb 1945	Panama Canal Zone, Rio Salado	carcass	Old cat # 154899 SKN # 154899
2542	15445	10286	Caiopodectes subbrunneus	1945	1945	carcass	Old cat # 155004, recatalogued with skin SKN # 154903
2543	12473	10286	Elanenia chiriquensis	20 Feb 1945	Panama Canal Zone, Frijoles	carcass	Old cat # 155003 + old MVZ 154903
2544	12474	10286	Elanenia chiriquensis	1945	1945	whole	Old cat # 155002
2545	12475	10286	Elanenia flavogaster	21 March 1945	Colombia, Valle, 8 km. E W San Antonio, 6500 ft	whole	Old cat # 53028
2546	6884	2124	Empidonax wrightii	19 June 1928	Calif., Lassen Co., 2 1/2 W 2nd Redvale	whole	Old cat # 53029
2547	6885	2124	Empidonax wrightii	19 June 1928	20. 5200 ft	whole	Old cat # 53030
2548	6886	2124	Empidonax wrightii	19 June 1928	whole	whole	Old cat # 53031
2549	6887	1784	Empidonax wrightii	19 June 1928	Neveda, Humboldt Co., Doggs Hot Spring, Thousand Creek, 4000 ft	whole	Old cat # 41012
2550	1124	10408	Empidonax wrightii	20 May 1929	Calif., Sierra Co., 2 1/2 E, 3 1/2 S Royalton	whole	Old cat # 155059
2551	910	9110	Myiophobus (Fringilla) magnirostris	20 July 1921	Galapagos, Charles Is., 2.2 mi NE P.O. Bay	whole	Old cat # 174247 MVZ # 174250
2552	911	9110	Myiophobus (Fringilla) magnirostris	20 July 1921	whole	whole	Old cat # 174247 MVZ # 174250
2553	912	9110	Myiophobus (Fringilla) magnirostris	20 July 1921	whole	whole	Old cat # 174247 MVZ # 174250
2554	913	9110	Myiophobus (Fringilla) magnirostris	20 July 1921	whole	whole	Old cat # 174247 MVZ # 174250
2555	914	9110	Myiophobus (Fringilla) magnirostris	20 July 1921	whole	whole	Old cat # 174247 MVZ # 174250
2556	915	9110	Myiophobus (Fringilla) magnirostris	20 July 1921	whole	whole	Old cat # 174247 MVZ # 174250
2557	916	9110	Myiophobus (Fringilla) magnirostris	20 July 1921	whole	whole	Old cat # 174247 MVZ # 174250
2558	917	9110	Myiophobus (Fringilla) magnirostris	20 July 1921	whole	whole	Old cat # 174247 MVZ # 174250
2559	918	9110	Myiophobus (Fringilla) magnirostris	20 July 1921	whole	whole	Old cat # 174247 MVZ # 174250
2560	919	9110	Myiophobus (Fringilla) magnirostris	20 July 1921	whole	whole	Old cat # 174247 MVZ # 174250

Dept. No. 18
Accession No. 1

UNIVERSITY OF CALIFORNIA
MUSEUM OF VERTEBRATE ZOOLOGY
DEPARTMENT CATALOGUE, BIRDS, EGGS AND NESTS

Name: Scientific - *Actitis macularia*
Common - Spotted Sandpiper

Locality: Coppermine Cove, Glacier Bay, Alaska

Date: July 14, 1907

Collector: J. S. Silliman

Nest: a slight depression in the surface of a gravel patch, and shaded by three small willow sprouts that happened to grow close together

Field Notes: Nest under Discus, 1907

No. Eggs in Set: 4

Condition: good

Entered by: J.S.

Field Notes and Data Slips

2785

Grinnell, 1928
Red Rock District
June 19

6887 *Sipodopus a. columbianus* ♂ 35.9g. 220x15x39x9.
6888 *Peromyscus m. sonoriensis* ♂ 19.2g. 163x75x17x14.
6889 *Microdopodops* ♀ 12.3g. 158x80x25x8.
6890 " ♀ 12.4g. 160x84x24.5x8.
6891 Sage Thrasher ♂ testes large. 37.2g. In full song near Mockingbird's nest!
6892 Mockingbird ♀ 47.9g. Taken with nest and 4 hatching eggs, as follows:
6893 Mockingbird 4 young^{informative} of which one had hatched in the nest naturally, the other three taken from shells, by cutting around larger end. Shells saved.
6894 Scaphiopus (?) Picked up in dry road where we camped, about 6 p.m. visible water about 2 miles. No

June 22

"Picnic" to lower Viola Run of Mineral. Saw two Blue-tailed S on ground on floor of open woods among yellow pines and incense cedars; in egg of " and successful retreat in " & Thrush

MVZ 13670

California Condor (*Gymnogyps californianus*)
Collected by J. Grinnell (witness Willard S. Wood), fresh, February 10, 1907, in Eaton Canyon, 5 1/2 miles northeast of Pasadena, in Los Angeles County, California. Egg laid on naturally accumulated layer of leaves and twigs of golden-rod on floor of cavity beneath slating slab of rock leaning against vertical wall of rock; the site on steep canyon side. See description of site and photos by Hiley, whom I conducted to the place in 1906. See also notebook of J. Grinnell for 1906, 1907 & 1908. J. Grinnell MVZ 13670

JANUARY, 1932

SUN. 17 *Washed 27, 1932*
17 *at 4:30 P.M. with Dick*
San Gabriel 29/11
Don Benito

MON. 18 *Mar 28-33*
In Canyon Bridges

TUES. 19 *old Mendocino*
20 *Mar 20*

WED. 20 *Island near Lake*
20 *Kassauke*

THUR. 21 *Traps on Mountain*
21 *FORSTER'S*
21 *2069 on I.N. dist*
mountain side

FRI. 22 *persimmon*
22 *2070 on*

SAT. 23 *2071 on*
23 *meat, one of on*
meat

JANUARY, 1932

SUN. 24 *2072*
24 *meat on first*

MON. 25 *2073*
25 *meat on second*

TUES. 26 *2074*
26 *meat on third*

WED. 27 *2075*
27 *meat on fourth*

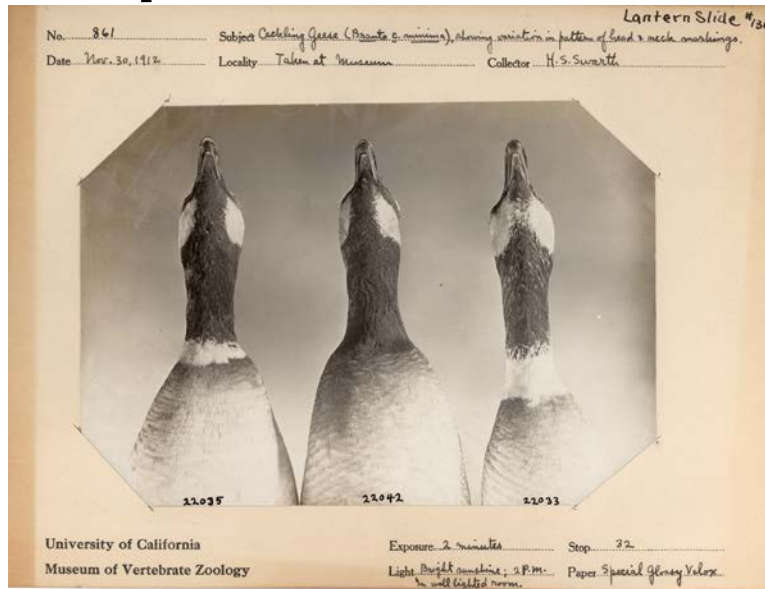
THUR. 28 *2076*
28 *meat on fifth*

FRI. 29 *2077*
29 *meat on sixth*

SAT. 30 *2078*
30 *meat on seventh*

YR: 2012	NAME: Carla Cicero	SPECIMEN CATALOG	PAGE #: 20
# 3921	Locality: Hwy. 44 at Moose Pond, 8000 ft, Uintah Mts., Daggett Co., Utah		
<input checked="" type="checkbox"/> Skin	Lat: 40.84299°N	Long: 109.64561°W	
<input type="checkbox"/> Skel.	GPS Error: 9 ft	Extent:	Datum: WGS 84
<input type="checkbox"/> ETOH	Date collected: 12 Sep 2012	Date prepared: 12 Sep 2012	
<input type="checkbox"/> Other	Species: <i>Spizella passerina</i>	Wt: 10.5 gm	
	Tiss: <input checked="" type="checkbox"/> Froz <input type="checkbox"/> Other	Types: H, L, M, K	Barcode #: 199303
<input type="checkbox"/> Audio	<input type="checkbox"/> M <input type="checkbox"/> F <input checked="" type="checkbox"/> sex?	Skull: <input checked="" type="checkbox"/> unossified	Fat: slight fat
<input type="checkbox"/> Photo	Repro.: Gonads destroyed.		
FN	Molt: No molt		
	Colors:	Stomach:	
<input type="checkbox"/> Shot	Habitat: Ponderosa pine.		
<input type="checkbox"/> Net	Notes: Hit car, dead on road. Bad lower body damage, right leg detached.		
<input checked="" type="checkbox"/> Salvage			
# 3922	Locality: USFS Road 218, 8100 ft, 1 mi E Summit Springs, Uintah Mts., Daggett Co., Utah		
<input checked="" type="checkbox"/> Skin	Lat: 40.88186°N	Long: 109.72493°W	
<input type="checkbox"/> Skel.	GPS Error: 11 ft	Extent:	Datum: WGS 84
<input type="checkbox"/> ETOH	Date collected: 12 Sep 2012	Date prepared: 12 Sep 2012	
<input type="checkbox"/> Other	Species: <i>Salpinctes obsoletus</i>	Wt: 15.5 gm	
	Tiss: <input checked="" type="checkbox"/> Froz <input type="checkbox"/> Other	Types: H, L, M, K	Barcode #: 199302
<input type="checkbox"/> Audio	<input type="checkbox"/> M <input checked="" type="checkbox"/> F <input type="checkbox"/> sex?	Skull: 60% ossified	Fat: No fat
<input type="checkbox"/> Photo	Repro.: Ovary smooth		
FN	Molt: Heavy body molt.		
	Colors:	Stomach:	
<input type="checkbox"/> Shot	Habitat:		
<input type="checkbox"/> Net	Notes: Dead on road.		
<input checked="" type="checkbox"/> Salvage			
# 3923	Locality: USFS Road 30310, 7100 ft, 0.5 mi E "Triangle X" Ranch, E side Jackson Hole, Teton Co., Wyoming		
<input checked="" type="checkbox"/> Skin	Lat: 43.76120°N	Long: 110.55611°W	
<input type="checkbox"/> Skel.	GPS Error: 11 ft	Extent:	Datum: WGS 84
<input type="checkbox"/> ETOH	Date collected: 14 Sep 2012	Date prepared: 14 Sep 2012	
<input type="checkbox"/> Other	Species: <i>Perisoreus canadensis</i>	Wt: 76.0 gm	
	Tiss: <input checked="" type="checkbox"/> Froz <input type="checkbox"/> Other	Types: H, L, M, K	Barcode #: 199296
<input type="checkbox"/> Audio	<input checked="" type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> sex?	Skull: 20% ossified	Fat: No fat
<input type="checkbox"/> Photo	Repro.: Testis 2x1 mm		
FN	Molt: Moderate body molt		
	Colors:	Stomach:	
<input checked="" type="checkbox"/> Shot	Habitat: Lodgepole pine and white fir.		
<input type="checkbox"/> Net	Notes:		
<input type="checkbox"/> Salvage			

Specimen and Attribute Images



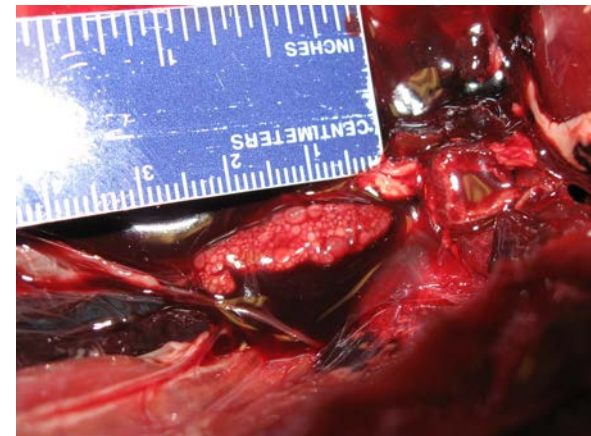
phenotypic traits



specimens not loaned



unusual phenotypes



reproductive organs


Other Priorities for Digitization

- Deteriorating/old collections
- Type material
- Rare/threatened/endangered species
- Taxonomic identification
- Tissue vouchers
- Range extensions



Habitat, Audio/Video, etc.



 Collaborative Collection Management Solution

[Search](#) [Portals](#) [My Stuff](#) [About/Help](#)



audio (audio/mpeg3)
[MVZ Terms of Use](#)



41.996,-115.426;
Elev. not recorded

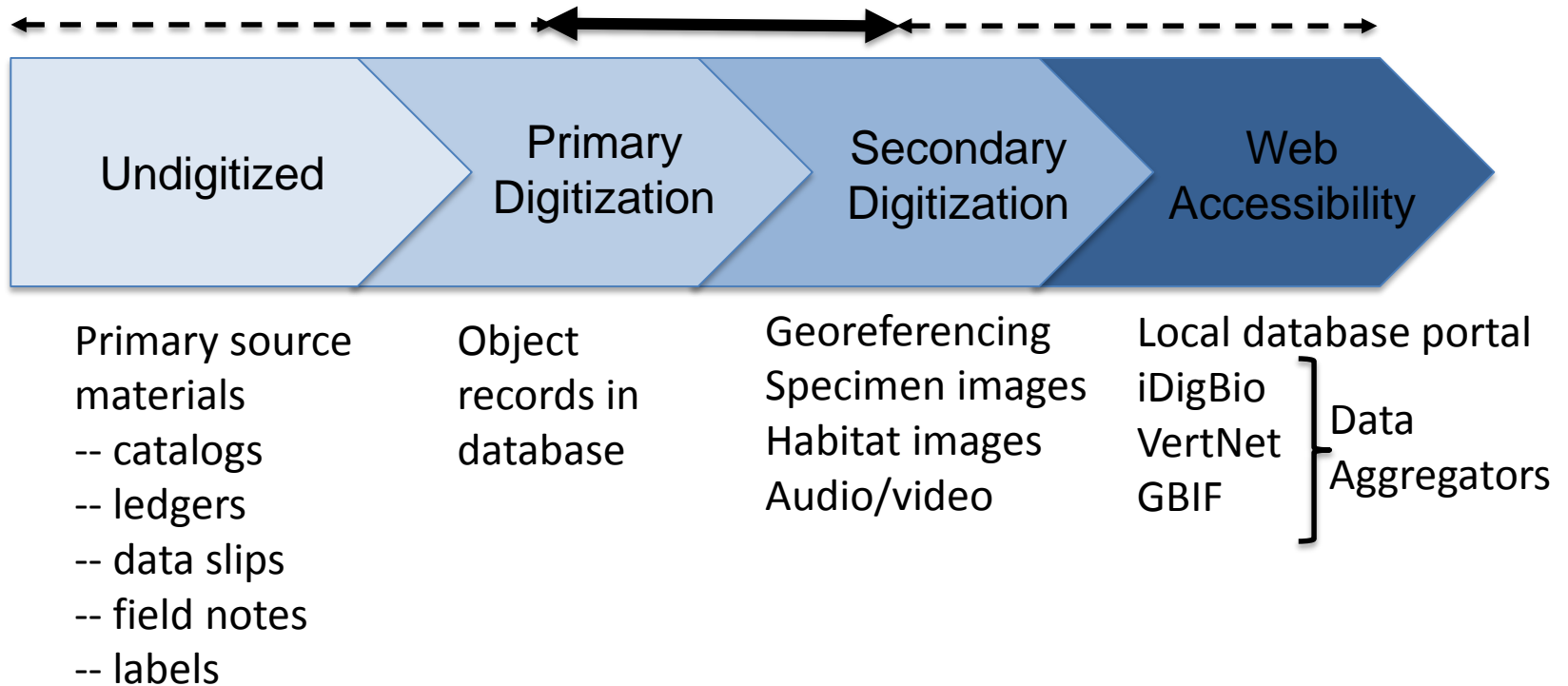
- audio cues count: 96
- audio cut number: MVZ 3124
- audio digitization protocol: 128 kbps @ 48000 Hz, converted from wav by Texas Advanced Computing Center
- audio original source: MVZ tape 377B (cassette)
- audio vocal type: song
- comment: Noted as individual # 1 on recording.

- created by agent Carla Cicero
- shows cataloged_item [MVZ:Bird 180101 \(Pipilo maculatus ssp.\)](#)
- derived from media http://web.corral.tacc.utexas.edu/MVZ/audio/wav/377_3124.wav

WAV audio digitization protocol: 24 bit/s @ 96000 Hz, uncompressed, mono, digitized by UC Berkeley Language Center

Path of Digitization

Bird Collections



Modified from Andy Bentley

How to Digitize?

- Choice of database and data model
 - Flat versus relational data structure
- Opportunistic versus systematic
- Standardized protocols**
- Dynamic versus static (methods, data)
- Data quality and fitness for use

** MVZ Egg Photography Project Protocol: <https://goo.gl/SJ4icf>

Flat Data Structure

- Rows and Columns
- Each column consistent in data type (fields)
- Each row self-contained (records)
- All rows have related data and same structure
- Example: Excel

Cat_num	Field_num	Species	Date	Collector	Locality
182412	3220	Poecile gambeli	13 Jul 2006	Carla Cicero	Wilson Lake, 5300 ft, Tehama County, California
182413	3228	Poecile gambeli	14 Jul 2006	Carla Cicero	Wilson Lake, 5300 ft, Tehama County, California
182414	9	Poecile gambeli	13 Jul 2006	Allison J. Shultz	Wilson Lake, 5300 ft, Tehama County, California
182415	114	Poecile gambeli	13 Jul 2006	Christopher J. Clark	Wilson Lake, 5300 ft, Tehama County, California

Relational Data Structure

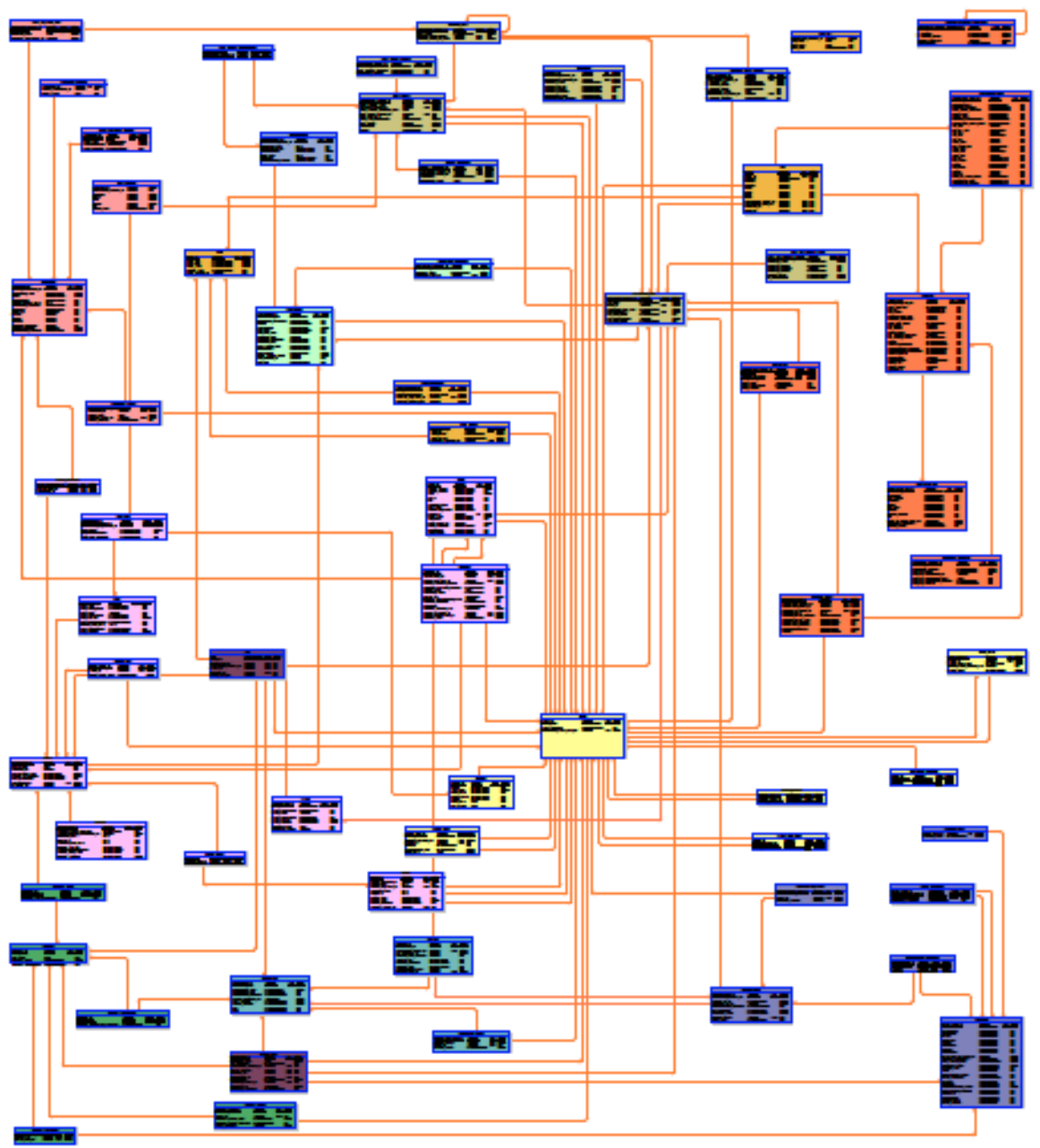
- Relates tables in 1:1 up to many:many relations
- Example: Collection Management Information Systems

LOCALITY			
<u>LOCALITY_ID</u>	NUMBER	<pk>	notnull
GEOG_AUTH_REC_ID	NUMBER	<fk>	notnull
SPEC_LOCALITY	VARCHAR2(255)		null
DEC_LAT	NUMBER(12,10)		null
DEC_LONG	NUMBER(13,10)		null
MINIMUM_ELEVATION	NUMBER		null
MAXIMUM_ELEVATION	NUMBER		null
ORIG_ELEV_UNITS	VARCHAR2(30)		null
MIN_DEPTH	NUMBER		null
MAX_DEPTH	NUMBER		null
DEPTH_UNITS	VARCHAR2(30)		null
MAX_ERROR_DISTANCE	NUMBER		null
MAX_ERROR_UNITS	VARCHAR2(30)		null
DATUM	VARCHAR2(255)		null
LOCALITY_REMARKS	VARCHAR2(4000)		null
GEOREFERENCE_SOURCE	VARCHAR2(4000)		null
GEOREFERENCE_PROTOCOL	VARCHAR2(255)		null
LOCALITY_NAME	VARCHAR2(255)		null
S\$ELEVATION	NUMBER		null
S\$GEOGRAPHY	VARCHAR2(4000)		null
S\$DEC_LAT	NUMBER		null
S\$DEC_LONG	NUMBER		null
S\$LASTDATE	DATE		null

COLLECTING_EVENT			
<u>COLLECTING_EVENT_ID</u>	NUMBER	<pk>	notnull
<u>LOCALITY_ID</u>	NUMBER	<fk>	notnull
VERBATIM_DATE	VARCHAR2(60)		null
VERBATIM_LOCALITY	VARCHAR2(4000)		null
COLL_EVENT_REMARKS	VARCHAR2(4000)		null
BEGAN_DATE	VARCHAR2(22)		null
ENDED_DATE	VARCHAR2(22)		null
VERBATIM_COORDINATES	VARCHAR2(255)		null
COLLECTING_EVENT_NAME	VARCHAR2(255)		null
LAT_DEG	NUMBER		null
DEC_LAT_MIN	NUMBER(8,6)		null
LAT_MIN	NUMBER		null
LAT_SEC	NUMBER(8,6)		null
LAT_DIR	CHAR(1)		null
LONG_DEG	NUMBER		null
DEC_LONG_MIN	NUMBER(10,8)		null
LONG_MIN	NUMBER		null
LONG_SEC	NUMBER(8,6)		null
LONG_DIR	CHAR(1)		null
DEC_LAT	NUMBER(12,10)		null
DEC_LONG	NUMBER(13,10)		null
DATUM	VARCHAR2(55)		null
UTM_ZONE	VARCHAR2(3)		null
UTM_EW	NUMBER		null
UTM_NS	NUMBER		null
ORIG_LAT_LONG_UNITS	VARCHAR2(20)		null
CALCULATED_DLAT	NUMBER(12,10)		null
CALCULATED_DLONG	NUMBER(13,10)		null

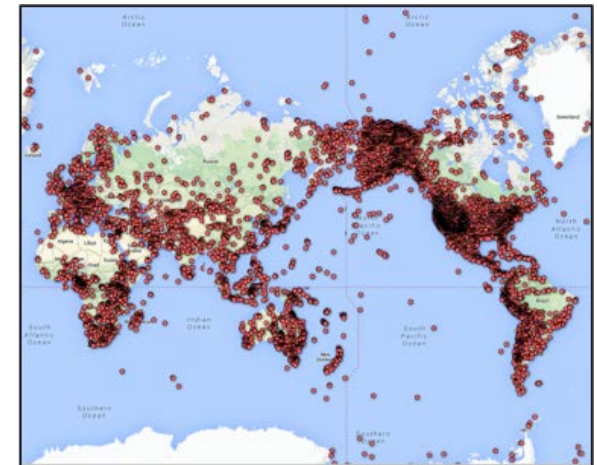
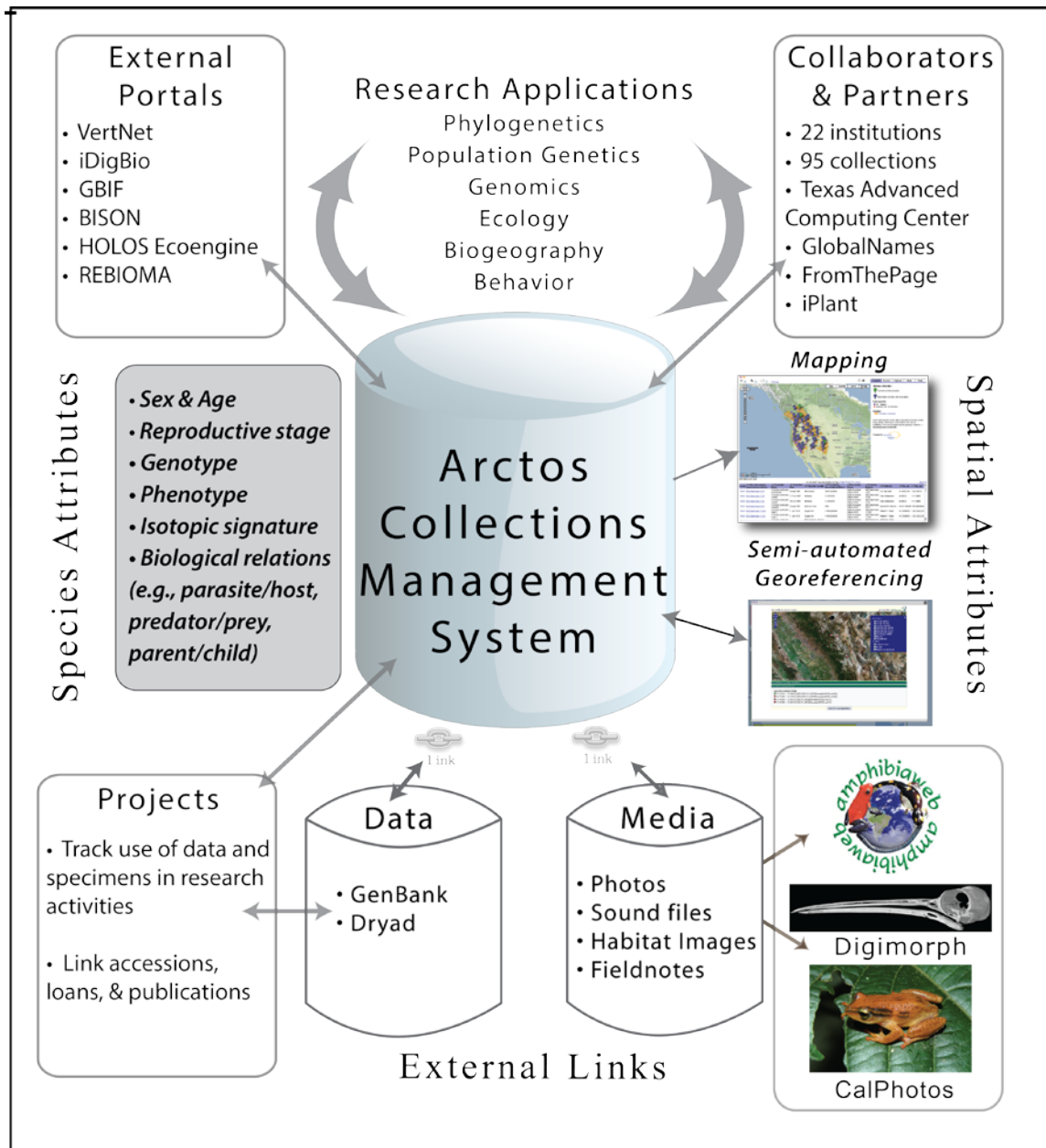
CATALOGED_ITEM			
<u>COLLECTION_OBJECT_ID</u>	NUMBER	<pk,fk2>	notnull
<u>CAT_NUM</u>	VARCHAR2(40)		notnull
ACCN_ID	NUMBER	<fk3>	notnull
CATALOGED_ITEM_TYPE	VARCHAR2(20)		notnull
COLLECTION_ID	NUMBER	<fk1>	notnull
CAT_NUM_PREFIX	VARCHAR2(10)		null
CAT_NUM_INTEGER	NUMBER		notnull
CAT_NUM_SUFFIX	VARCHAR2(10)		null

SPECIMEN_EVENT			
<u>SPECIMEN_EVENT_ID</u>	NUMBER	<pk>	notnull
<u>COLLECTION_OBJECT_ID</u>	NUMBER	<fk1>	notnull
<u>COLLECTING_EVENT_ID</u>	NUMBER	<fk3>	notnull
<u>ASSIGNED_BY_AGENT_ID</u>	NUMBER	<fk2>	notnull
ASSIGNED_DATE	DATE		notnull
SPECIMEN_EVENT_REMARK	VARCHAR2(4000)		null
SPECIMEN_EVENT_TYPE	VARCHAR2(60)		notnull
COLLECTING_METHOD	VARCHAR2(255)		null
COLLECTING_SOURCE	VARCHAR2(60)		null
VERIFICATIONSTATUS	VARCHAR2(60)		notnull
HABITAT	VARCHAR2(4000)		null

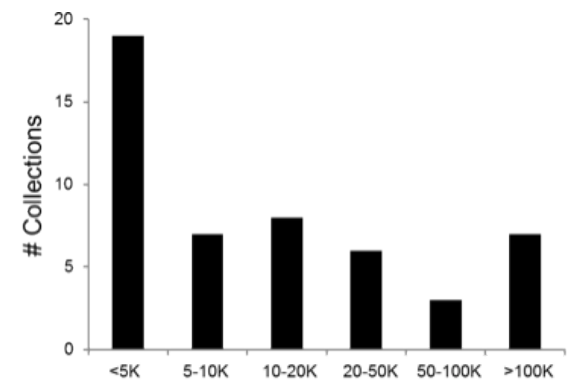


Most Common Relational Databases for Bird Collections

- Arctos (<http://arctosdb.org>): Collaborative, web-based, shared database and applications
- Specify (<http://specifyx.specifysoftware.org>): Free, locally installed software (Specify 6) or web platform (Specify 7)
- KE Emu (<https://emu.kesoftware.com>): Commercial, locally installed software



Arctos records



Arctos collection sizes

Data Quality: It's not only *what* you record, but *how* you record it

- Shared data standards (Darwin Core)
- Controlled data structure (where possible)
- Standardized authorities (taxonomy, geography, names)
- Standardized protocols (georeferencing, imaging)



Fitness for Use

To maximize usefulness of digitized data, you should include clear and complete metadata with as much description and explanation as necessary to allow users of a given data set *all of the information* necessary to make informed decisions about the data contained within the data set.

Sex



Distinct Values:

“Male”	189
“Female”	184
Unresolved	331

From subset of 2.7M records

Preparations



Distinct preparations: 10,712

Distinct terms: 2,969

Distinct tissues: 26 (tissue, liver, higado, +t,...)


“vodka!00,” “surf,” “stst01”

From subset of 2.7M records

Digitization Challenges

- Storage and backups – especially for large media files
- Personnel – student opportunities, training
- Prioritization – primary digitization first, then add value through secondary digitization (georeferencing, imaging)
- Naming files – simple but informative
(e.g., 377_3124.wav, 1_egg.jpg, img_861, MVZ_Bird_183189_1.jpg)

Value of Digitization



Collections Database
MUSEUM OF VERTEBRATE ZOOLOGY

Search
Portals
My Stuff
About/Help

MVZ:Egg:1
Actitis macularia

Glacier Bay, Coopermine Cove
North America, United States, Alaska
14 Jul 1907

egg

Actitis macularia
Animalia; Chordata; Aves; Charadriiformes; Scolopacidae; Scolopacinae; Tringini; Actitis macularia
Playero alzacolta: Spotted Sandpiper, chevalier grivelé
Identified by Museum of Vertebrate Zoology, University of California, Berkeley on 1999-01-27
Nature of ID: legacy

Part Name	Condition	Qty	Remarks
egg	unchecked	4	

clutch size: 4
Hannah D. Park, 2009-06-02, original egg cards and data slips
incubation stage: one-half
Hannah D. Park, 2009-05-28, original egg cards and data slips

Accession
0
No Media Found

Media
Showing Media results 1 - 2 of 2 [[view details](#)]




image (image/jpeg)
[Media Details](#)
MVZ Archive and Medi...
Scan of egg data card.





image (image/jpeg)
[Media Details](#)
MVZ Archive and Medi...
Photograph of eggs.

Determination Type: accepted place of collection
assigned by Yumiko Uchiro on 2002-05-24
Higher Geography: North America, United States, Alaska
Specific Locality: Glacier Bay, Coopermine Cove
Collecting Source: wild caught
Event Date: 1907-07-14
Verbatim Date: 14 Jul 1907
Verification Status: unverified
Coordinates: 58.7608333333 / -136.3486111111
Verbatim Coordinates: 58d 45m 39s N/136d 20m 55s W
Datum: North American Datum 1927
Error: 31 mi
Georeference Source: All Topo Maps Alaska
Georeference Protocol: MaNIS georeferencing guidelines



No Media Found

Collector(s)
Joseph S. Dixon

Fiscal Year	# Queries	# Records Accessed
2010-2011	22,259	588,100
2011-2012	61,382	1.15 M

2-3X increase in usage after images and data slips for MVZ egg/nest collection went online!

Report for Institution Code MVZ, Resource mvz_bird

Usage stats for March, 2015, generated on 2015/04/02

Number of searches that retrieved data from the resource: 348

Number of records retrieved in searches: 6081

List of queries that retrieved data from the resource:

Query	Times
Dinemelli	1
lamprotornis caudatus	1
Chordeiles minor	1
melanerpes formicivorus	1
ramphastos vitellinus	1
Cotinga	1
catalognumber:1500000000	1
type:specimen specimen	1
pipra	1
Trogon rufus	2
"Ficedula narcissus"	2
mallard	1
Phegornis mitchellii	1
collin county	1
colinus nigrogularis	1
country:"Trinidad"	1
class:aves recorder	1
colinus cristatus leucotis year: 1950 year: 2015	1
stateprovince:"alaska" specific epithet:acuminata class:aves	1
country:"Panama" (passeriformes OR picidae OR cuculiformes)	1
tricholaema	1
Redstart institution code mvz	1

Cumulative values for this year

Number of search events that retrieved data from the resource: 3371

Total number of records retrieved from searches: 72381

Number of download events that retrieved data from the resource: 183

Total number of records downloaded: 68902

Cumulative values since the beginning

Number of search events that retrieved data from the resource: 3964

Total number of records retrieved from searches: 82935

Number of download events that retrieved data from the resource: 665

Total number of records downloaded: 489735

Value of Digitization

Fallacy: Data must be perfect before they are put online.

Truth: Digitization and online access leads to improved data quality.

VertNet

Search Publishers Join Resources About Feedback

MVZ Bird eggs/nests 6141 *Tyrannus dominicensis dominicensis*

Submit data issue

Darwin Core Rights Spatial quality Index

View media

Map Satellite

Term	Value
Modified	2014-06-21 06:06:25.0
Language	en
AccessRights	http://www.vertnet.org/resources/norms.html
References	http://arctos.database.museum/guid/MVZ:Egg:6141
InstitutionID	urn:tsid:biocol.org:col:34777
InstitutionCode	MVZ
CollectionCode	Bird eggs/nests
BasisOfRecord	PreservedSpecimen
DynamicProperties	clutch size=3 ; incubation stage=fresh

[MVZ Bird eggs/nests 6141] Tyrannus dominicensis dominicensis - possible misidentification of egg(s)/locality #31

Edit

New issue

Open

KenBlankenship opened this issue 6 days ago · 0 comments



KenBlankenship commented 6 days ago

Though these eggs may well be from a Tyrannid -- perhaps even a Gray Kingbird, as they are labeled in VertNet -- the locality is almost certainly erroneous. They are either *Tyrannus dominicensis* collected in a coastal county (such as Chatham, McIntosh, Glynn, etc.), or they are not Gray Kingbird eggs. In either case, it is worth a re-examination and it would be great to receive an update when more is known about the specimen(s). Thanks!

.....
You can [view the original detail page](#) on VertNet. Here are the original record contents:

Labels

None yet

Milestone

No milestone

Assignee

No one—assign yourself

Notifications



All VertNet collections have GitHub repositories...in process of preparing repositories so that iDigBio, GBIF, and other data aggregators can use them to provide reporting and issue tracking all in one location

If you want to receive usage reports and user feedback, contact VertNet to gain access

Results Detail – Spatial Quality

Darwin Core ▾

Rights

Spatial quality

Index



Warning: Some validations could not be performed. Check below.

Data completeness ?

Are coordinates present?	✓	Yes
Is the country value present?	✓	Yes
Are both coordinates 0 (zero)?	✓	No
Do coordinates have three or more decimal figures?	✓	Yes
Do coordinates have datum?	✓	Yes

Data inconsistencies ?

Are coordinates within specified country? ¹	✓	Yes
Distance outside of specified country (in degrees) ¹	✓	0
Distance outside of species range map (in degrees) ¹	⊘	Could not be assessed

Data Errors ?

Is latitude between 90 and -90?	✓	Yes
Is longitude between 180 and -180?	✓	Yes
Are coordinates transposed? ¹	✓	No
Is latitude hemisphere correct? ¹	✓	Yes
Is longitude hemisphere correct? ¹	✓	Yes

¹Assessed with [Map Of Life validation tools](#)

Licensing

- What can we license?
 - Media (images, recordings)
 - Creative products and content (publications or other written works that express unique ideas, concepts, beliefs)
- What can't we license?
 - Facts (data – most of the content of collection management systems)
- Useful Resources:
 - <http://www.vertnet.org/resources/datalicensingguide.html>
 - <http://www.vertnet.org/resources/norms.html>

Student Training



MVZ, 2005-2015:

32,600 specimens entered by students (87% of records), 28,300 (61%) by undergrads

14,600 eggs/nests imaged

13,400 original data slips scanned

7,000 audio recordings digitized