



Processing archives from research field stations:
cataloging material and digitizing data for
integration and visualization with other biotic
collection data

Natural History Collections Documents Workshop

August 2, 2016



What do we do?

- Appraisal
- Accession
- Processing
 - Survey
 - Arrange
 - Describe/Catalog
 - Preserve
- Discovery/Delivery



Current Archival Holdings

- Field notes
 - Bound (700 volumes)
 - Unbound (200 volumes)
- Personal papers (500 collections)
- Correspondence (2000 folders)
- Annotated maps (200 each)
- Archived images (15000 prints)
- Reprints (5000 publications)



MVZ Reprint Collection

Joseph Grinnell's Vision

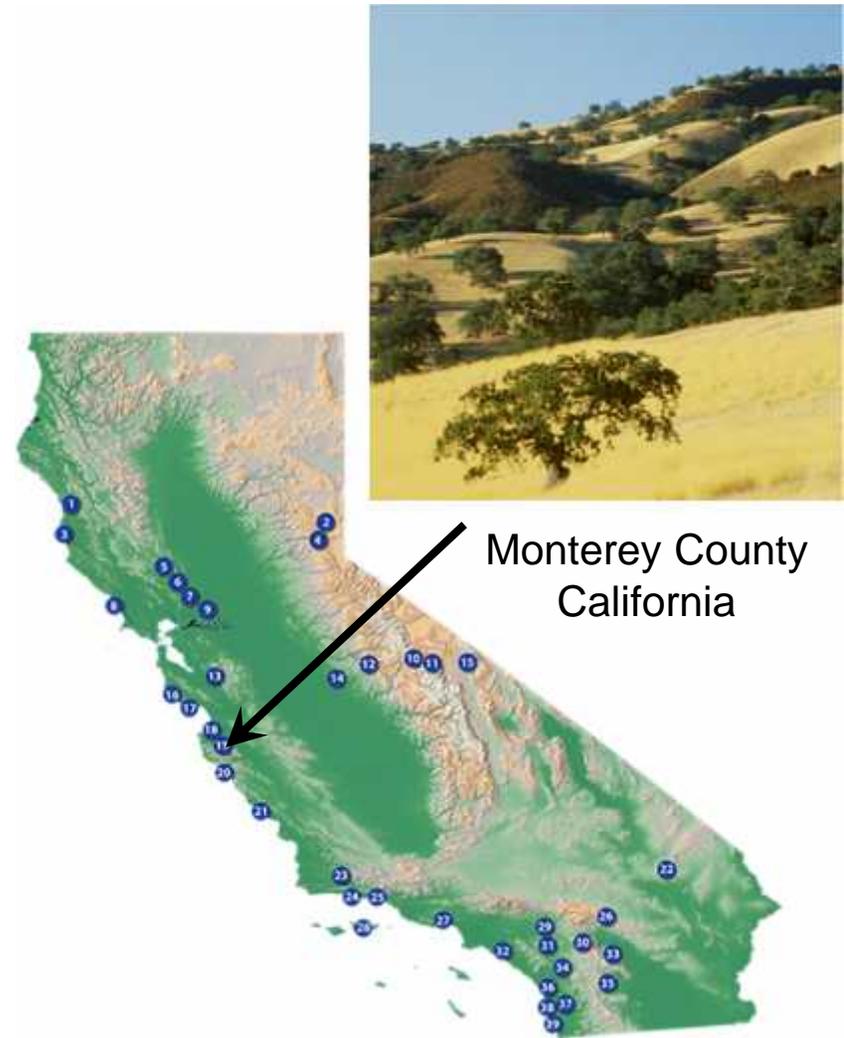


“At this point I wish to emphasize what I believe will ultimately prove to be the greatest value of our museum. This value will not, however, be realized until the lapse of many years, possibly a century, **assuming that our materials are safely preserved.** And this is that the student of future will have access to the original record of faunal conditions in California and the west, wherever we now work”

- Joseph Grinnell, 1910

Hastings Natural History Reservation

- 1939 UC Regents vote to establish Hastings Natural History Reservation (2 weeks after Joseph Grinnell's death)
- Over 30 long-term ecological data sets have been compiled on plants and animals
- Roughly 50 ongoing research projects ranging from zoology to physics



Monterey County
California

Archives at Hastings



The "Museum"

Time of Day	Species	Count	Notes
10:00	Red-winged Blackbird	1	...
10:15	Chipping Sparrow	2	...
10:30	Starling	3	...
10:45	House Sparrow	4	...
11:00	Robin	5	...
11:15	Junco	6	...
11:30	Grassquit	7	...
11:45	Tree Sparrow	8	...
12:00	Starling	9	...
12:15	House Sparrow	10	...
12:30	Robin	11	...
12:45	Junco	12	...
13:00	Grassquit	13	...
13:15	Tree Sparrow	14	...
13:30	Starling	15	...
13:45	House Sparrow	16	...
14:00	Robin	17	...
14:15	Junco	18	...
14:30	Grassquit	19	...
14:45	Tree Sparrow	20	...
15:00	Starling	21	...
15:15	House Sparrow	22	...
15:30	Robin	23	...
15:45	Junco	24	...
16:00	Grassquit	25	...
16:15	Tree Sparrow	26	...
16:30	Starling	27	...
16:45	House Sparrow	28	...
17:00	Robin	29	...
17:15	Junco	30	...
17:30	Grassquit	31	...
17:45	Tree Sparrow	32	...
18:00	Starling	33	...
18:15	House Sparrow	34	...
18:30	Robin	35	...
18:45	Junco	36	...
19:00	Grassquit	37	...
19:15	Tree Sparrow	38	...
19:30	Starling	39	...
19:45	House Sparrow	40	...
20:00	Robin	41	...
20:15	Junco	42	...
20:30	Grassquit	43	...
20:45	Tree Sparrow	44	...
21:00	Starling	45	...
21:15	House Sparrow	46	...
21:30	Robin	47	...
21:45	Junco	48	...
22:00	Grassquit	49	...
22:15	Tree Sparrow	50	...

Bird records and species accounts
1937 - present



Environmental Problems



Unprocessed Archives



Processed Archives

Finding Aid

Collection Guide		= http://www.oac.cdlib.org/findaid/ark:/13030/c8w95db1	
Collection Title:	Guide to the Hastings Natural History Reservation collection at the Museum of Vertebrate Zoology at University of California, Berkeley	View entire collection guide	
Collection Number:	MVZA.MSS.0118 MVZA.MSS.0118	PDF (196.13 Kb) HTML	
Get Items:	No online items Contact UC Berkeley, Museum of Vertebrate Zoology	Search this collection	
Collection Overview		<input type="text"/> <input type="submit" value="go"/>	
Description		Entire Collection Guide Online Items	
Background		Table of contents	
<p>Hastings Natural History Reservation, located in the foothills of Monterey County, California's Santa Lucia Mountains in upper Carmel Valley, serves as a biological field station of the University of California, the Museum of Vertebrate Zoology (MVZ), and the University of California's Natural Reserve System (NRS). The Hastings Natural History Reservation collection spans the years 1927 to 2010 and, with the exception of a limited number of field notes taken outside of Hastings, documents both the administration of the reservation and the research conducted within its borders. This documentation includes administrative files originally housed at and maintained by the Museum of Vertebrate Zoology; species accounts and general notes, created by a variety of researchers, that were originally housed at Hastings and kept together as an ongoing file; field notes and data that were generated by researchers at Hastings and housed separately from the species accounts at the reservation; and a series of photographic materials also created and originally housed at Hastings.</p>		Collection Overview Collection Details Descriptive Summary Administrative Information Administrative History Scope and Contents note Arrangement note	
<p>Hastings Natural History Reservation, located in the foothills of Monterey County, California's Santa Lucia Mountains in upper Carmel Valley, serves as a biological field station of the University of California, the Museum of Vertebrate Zoology (MVZ), and the University of California's Natural Reserve System (NRS). At approximately 2,500 acres in size, Hastings consists of exemplary habitats</p>		Collection Contents Administrative files Operations, education and publicity Budget and accounts receivable files Fanny H. Arnold papers Species accounts Mammals Birds Amphibians Reptiles Fish Mixed species accounts, including birds, mammals, and insects General notes	

Finding Aid

The screenshot shows the OAC website interface. At the top left is the OAC logo with the text 'Online Archive of California'. To the right is a search bar labeled 'Search OAC' with a 'go' button. Below the logo is a navigation menu with links: Home, Browse Institutions, Browse Collections, Browse Map, About OAC, Help, and What is OAC?. Below the navigation menu is a breadcrumb trail: > Home > UC Berkeley > Museum of Vertebrate Zoology. To the right of the breadcrumb trail is a 'Share / Save' button. The main content area is titled 'Collection Guide' and contains the following information: Collection Title: Finding aid to the Tracy I. Storer papers MVZA.MSS.0246; Collection Number: MVZA.MSS.0246. To the right of this information is a URL: http://www.oac.cdlib.org/findaid/ark:/13030/c6x63pmf. Below the URL are two buttons: 'View entire collection guide' and 'Search this collection'. The 'View entire collection guide' button has a PDF icon and the text 'PDF (102.60 Kb)' and an HTML icon and the text 'HTML'.

Related materials

Specimens collected in this section include accession #293. These specimens can be found in [Arctos](#) , the Museum of Vertebrate Zoology's specimen database.

Scope and contents note

Note prior to p. 1: "For map, see [field notes of J. Grinnell, 1911](#) ."

The screenshot shows a finding aid page with the following content: "be found in [Arctos](#) , the Museum of Vertebrate Zoology's specimen database." Below this is the section "Scope and contents note" with the text "Note prior to p. 1: 'For map, see [field notes of J. Grinnell, 1911](#) .'" Below this is the section "Subjects and Indexing Terms" with the following text: "North America, United States, California, Inyo County", "North America, United States, California, Kern County", and "North America, United States, California, Tulare County". Below this is the section "View digitized field notes." with a button labeled "view online item". At the bottom left of the page is the text "Volume 1, Section 2" and at the bottom center is the text "Sacramento Valley, in Tehama, Butte, Glenn, Yolo, Solano, and Contra Costa counties. California 1864-1912".

Related materials

Specimens collected in this section include accession #293. These specimens can be found in [Arctos](#), the Museum of Vertebrate Zoology's specimen database.

Takes users directly to specimen records in Arctos

Scope and contents note

Note prior to p. 1: "For map, see [field notes of J. Grinnell, 1911](#)."



Arctos Multi-institution, Multi-Collection Museum Database

Found 726 specimens.

GUID	Identified As	country	state/province	specific locality	verbatim date	Decimal Latitude	Decimal Longitude	Coordinate Error (m)	sex
MVZ:Bird:19749	<i>Gallinago delicata</i>	United States	California	Weldon	5 Jul 1911	35.666083	-118.28948	2767.382608	male
MVZ:Bird:19769	<i>Oreortyx pictus artemophilus</i>	United States	California	4 mi N Smith Meadow, Sierra Nevada Mts.	27 Jul 1911	36.192501	-118.252277	1609.244	female
MVZ:Bird:19770	<i>Callipepla californica californica</i>	United States	California	W slope Walker Pass	23 Jun 1911	35.6692	-118.0371	1000	male
MVZ:Bird:19778	<i>Zenaidura macroura marginella</i>	United States	California	W slope Walker Pass	23 Jun 1911	35.661628	-118.02263	30	male
MVZ:Bird:19793	<i>Callipepla californica californica</i>	United States	California	Weldon	10 Jul 1911	35.666083	-118.28948	2767.382608	male
MVZ:Bird:19796	<i>Buteo jamaicensis calurus</i>	United States	California	Taylor Meadow	26 Jul 1911	35.830658	-118.29175	30	male
MVZ:Bird:19789	<i>Buteo jamaicensis calurus</i>	United States	California	Hunter Meadow	26 Jul 1911	35.882777	-118.29445	402.336	female
MVZ:Bird:19793	<i>Buteo jamaicensis</i>	United States	California	Whitney Meadow, Sierra Nevada Mts.	8 Aug 1911	36.434131	-118.2671	804.672	female
MVZ:Bird:19790	<i>Falco sparverius sparverius</i>	United States	California	Klavan M., near Walker Pass	29 Jun 1911	35.661628	-118.02263	30	male
MVZ:Bird:19796	<i>Falco sparverius sparverius</i>	United States	California	Taylor Meadow, Sierra Nevada Mts.	24 Jul 1911	35.830658	-118.29175	30	male

Showing 1-10 of 726

- Data Providers
- Report a bug or request support

Preservation Challenges

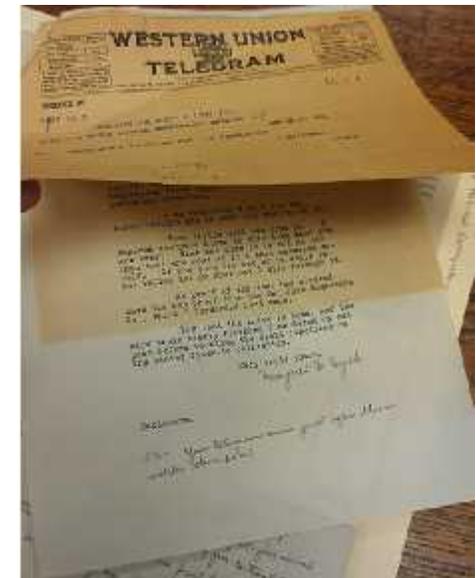
- Avg life span of acid free paper: 500 years
- Avg life span of printed photograph: 200 years?
- Average lifespan of digital media: ???



Lantern slides
(rehoused)

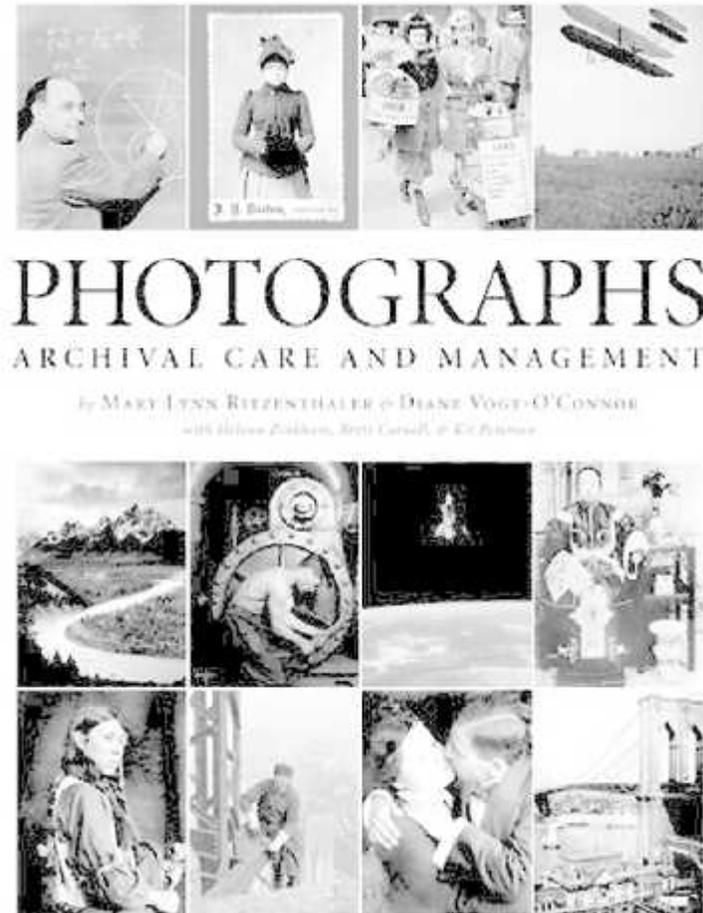


Acetate negative
(vinegar syndrome)

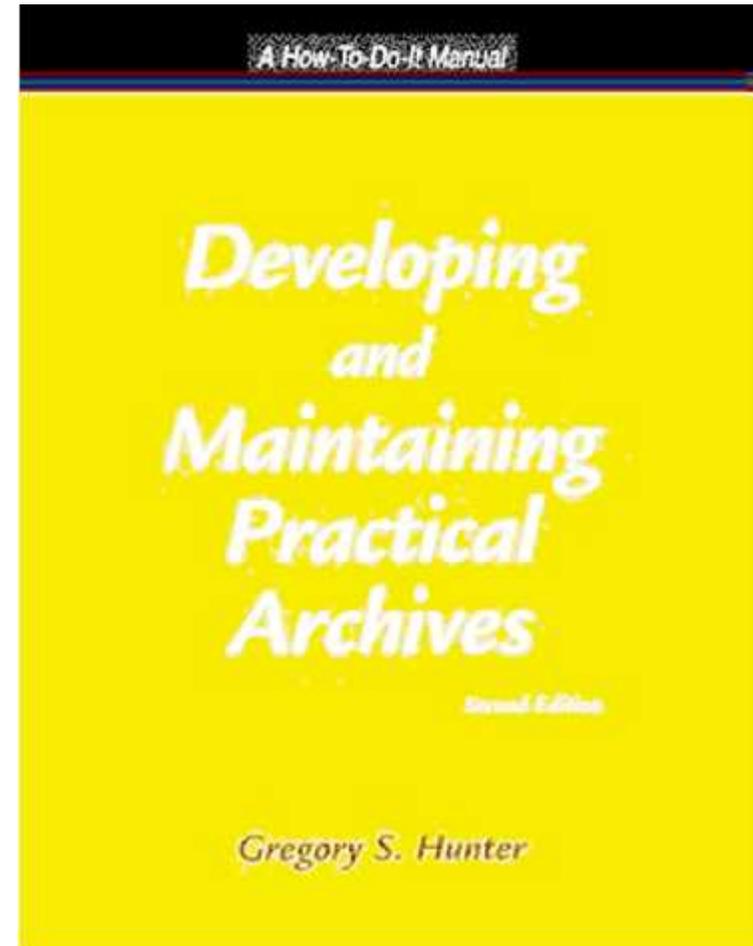


Acidic paper

Preservation resources



Archives management



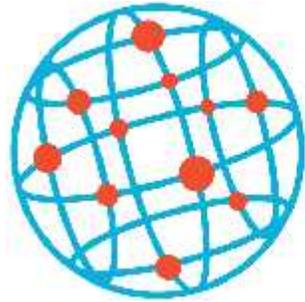
Western Archives Institute

CLIR grants to MVZ Archives

2012-2015 Hidden Collections

2016-2018 Digitizing Archives

The image shows a screenshot of the CalPhotos website interface. On the left is a dark sidebar with the Google logo and various navigation icons. The main content area features a large landscape photograph of a desert with mountains in the background. Overlaid on the top left of the image is the text "CalPhotos" in a large, white, sans-serif font. To the right of this text is a search bar with the placeholder text "Keyword search:". Below the image, the text "Search: The Museum of Vertebrate Zoology Archives' images." is visible. Further down, the heading "A Century of Natural History visualized" is displayed. Below this heading is a paragraph of text: "To look for photos, use the keyword search box or click the expand button to reveal an advanced search. The total number of images for each category is shown in parentheses following the category name. Please don't click on links to page through all 3,481 MVZ photos at once." At the bottom of the page, there are three logos: "EcoReader" with a small image of a document, "OAC Online Archive of California" with a colorful logo, and "ArcLOS" with a blue logo.



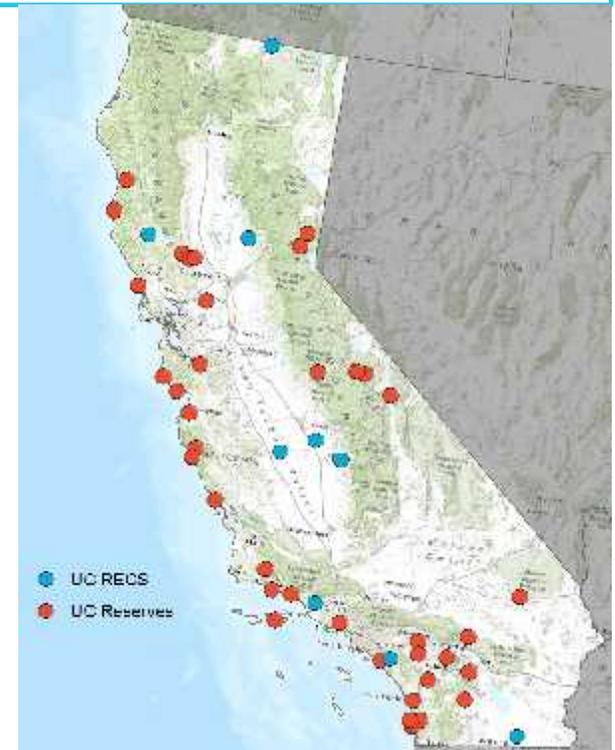
HOLOS

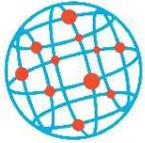
BERKELEY ECOINFORMATICS ENGINE

Rescuing and Integrating Biological and Environmental Data in the Face of Global Change

100+ years of data collection

- Field notes
- Species lists
- Photos
- Climate Sensor Arrays
- Experimental Data





HOLOS Explore tool

BERKELEY ECOINFORMATICS ENGINE

Search 1969-02-13

Filters

These bar charts display the distribution of data across multiple facets. Click on a bar to toggle a filter for each facet.

Resource

- Observations (6719)
- Photos (125)

Observation type

- Specimen (6662)
- Photo (55)
- Observation (2)

Georeferenced

- True (6719)

Country

- United States (6719)

State province

- California (6632)

Kingdom

- Animalia (1322)
- Plantae (120)

Phylum

- Chordata (1226)
- Magnoliophyta (113)
- Arthropoda (96)
- Pteridophyta (4)
- Coniferophyta (0)

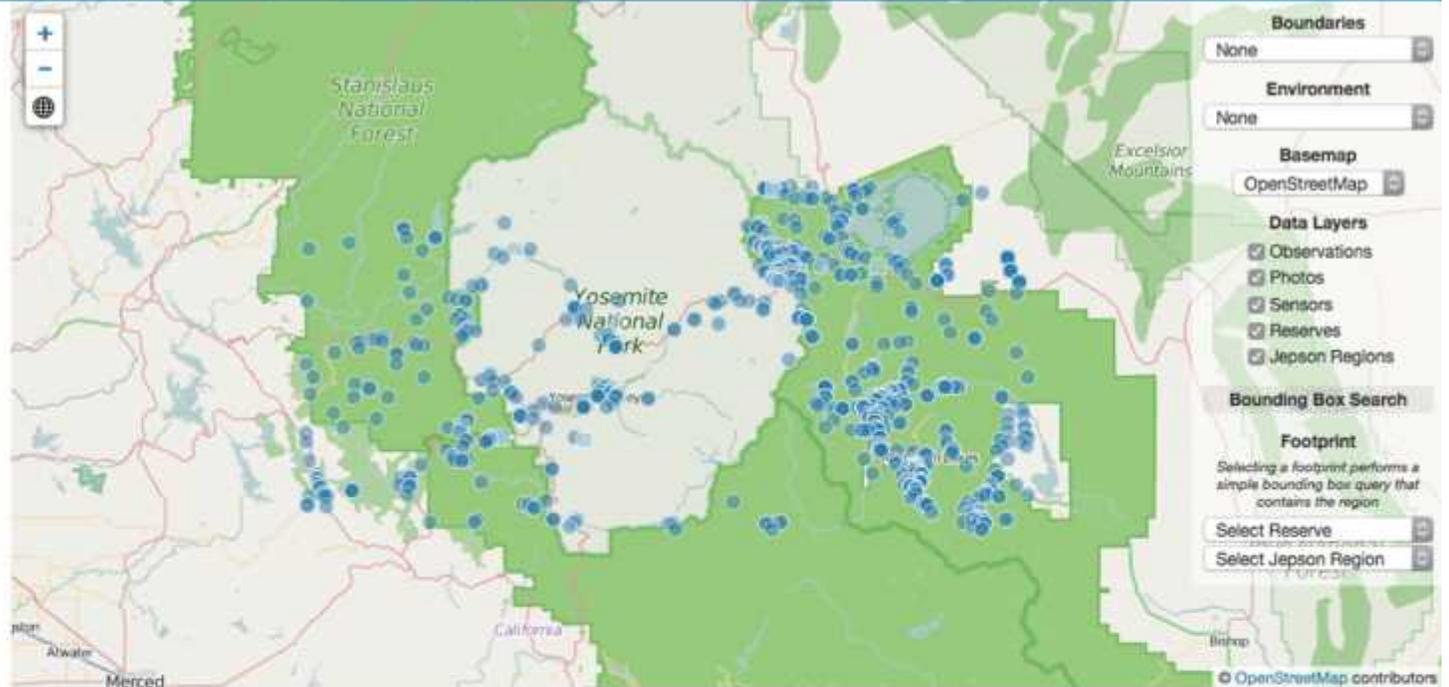
Class

- Amphibia (207)
- Mammalia (469)
- Reptilia (101)
- Aves (92)
- Insecta (95)
- Magnoliopsida (80)
- Liliopsida (33)
- Actinopteri (8)
- Actinopterygii (5)
- Filicopsida (4)

Order

- Rodentia (396)
- Caudata (333)
- Anura (174)
- Passeriformes (76)
- Squamata (59)
- Carnivora (56)
- Sauria (41)
- Serpentes (40)
- Odonata (15)
- Poales (32)

Family



Observations

View data or export as CSV, JSON, or GeoJSON from the Berkeley Ecoinformatics Engine

Results 1 to 1000 of 6719 - Page size

Record	Scientific name	Country	State province	Begin date	End date	Geojson	Observation type
SD106417	<i>Hulsea brevifolia</i>	United States	California	1980 Aug 14	1980 Aug 14	Yes	● specimen
UCR104202	<i>Erigeron couleri</i>	United States	California	1997 Aug 11	1997 Aug 11	Yes	● specimen
SD93521	<i>Veratrum californicum</i>	United States	California	1975 Aug 10	1975 Aug 10	Yes	● specimen
OBI64684	<i>Cirsium arizonicum</i> var. <i>arizonicum</i>	United States	California	1982 Aug 24	1982 Aug 24	Yes	● specimen
HSC94957	<i>Solidago elongata</i>	United States	California	1994 Aug 9	1994 Aug 9	Yes	● specimen
HSC94852	<i>Ericameria nana</i>	United States	California	1994 Aug 9	1994 Aug 9	Yes	● specimen
POM369958	<i>Betula occidentalis</i>	United States	California	1970 Sep 9	1970 Sep 9	Yes	● specimen
JEPS101530	<i>Mimulus filicaulis</i>	United States	California	1998 Aug 2	1998 Aug 2	Yes	● specimen
RSA618293	<i>Eriogonum umbellatum</i> var. <i>covillei</i>	United States	California	1974 Jul 27	1974 Jul 27	Yes	● specimen
CAS.BOT:821751	<i>Salix lutea</i> nutt.	United States	California	1981 Aug 10	1981 Aug 10	Yes	● specimen
CAS.BOT:820766	<i>Salix lutea</i> nutt.	United States	California	1974 Oct 5	1974 Oct 5	Yes	● specimen

Questions?



Email: mvzarchives@berkeley.edu