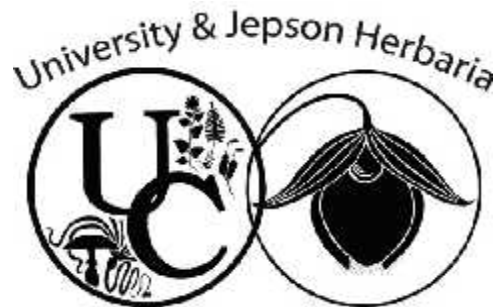


# Biodiversity Informatics Projects at the Berkeley Natural History Museums



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## The Consortium of California Herbaria (CCH)

- Founded in 2003 as a project to digitize and publish CA herbarium specimens records from the UC system
- In 2016, has 36 participants, including some from out of state
  - 2,078,162 specimen records
  - 1,559,109 georeferenced (>75% of total)
  - Records publicly searchable and mappable
  - Cited in over 110 scholarly works since 2007

[ucjeps.berkeley.edu/consortium/](http://ucjeps.berkeley.edu/consortium/)





# Consortium of California Herbaria

[Participants](#) [News](#) [Search](#) [About](#) [Help](#) [Donate](#)

## Search Results – 447 specimen records retrieved (300 records with coordinates)

Results for search: Scientific name=Calochortus clavatus (including nomenclatural synonyms); [More information: Jepson Online Interchange](#)

### Mapping Options:

[BerkeleyMapper with county and bioregion layers](#)

[BerkeleyMapper without layers.](#)

[KML export](#)

(Note: only records with coordinates are mappable)

### Download Options:

[Select all records](#) · [Select records with coordinates](#)

[Retrieve selected records as tab-separated list](#)

☐ Include annotations and voucher information

Please cite data retrieved from this page: Data provided by the participants of the Consortium of California Herbaria ([ucjeps.berkeley.edu/consortium/](http://ucjeps.berkeley.edu/consortium/)).

Records are made available under the [CCH Data Use Terms](#).

Click on column header to sort data (\* sorts by family); click in leftmost checkbox to select record. [CCH Help Page](#).

Turn on yellow flags to show possible range discrepancies. [Read more ...](#)

?	Specimen ID	Determination *	Collector	Collection Date	Collection Number	County	Locality	Elevation in meters	Feedback
<input type="checkbox"/>	<a href="#">RSA808835</a>	Calochortus clavatus var. gracilis	Duncan S. Bell, Caitlin Elam, Evan Meyer	Jun 13 2013	5093	Los Angeles	Sheep Mountain Wilderness; Coldwater Canyon off of Cattle Canyon, on the southwestern flanks of Mount San Antonio.	898	<a href="#">Comment</a>
<input type="checkbox"/>	<a href="#">UCR229410</a>	Calochortus clavatus var. avius	George K. Helmkamp, E. A. Helmkamp	Jul 30 2011	17951	El Dorado	Northern Sierra Nevada Mountains Omo Ranch Road, 7.4 miles southeast of Omo Ranch, 1.9 mi. NW (304°) airline of Hwy 88 junction	1372	<a href="#">Comment</a>
<input type="checkbox"/>	<a href="#">RSA779255</a>	Calochortus clavatus var. clavatus	Pam De Vries	Apr 22 2011	7758	Los Angeles	Western Transverse Range, southwest portion of the Liebre Mountains; about 2.5 air miles NNE of the intersection of Copper Hill and McBean Parkway (Santa Clarita); about 0.5 air miles west of San Francisquito Canyon Road	602	<a href="#">Comment</a>
<input type="checkbox"/>	<a href="#">RSA778575</a>	Calochortus clavatus var. gracilis	D. E. Bramlet, D. Pugh	Jun 3 2010	4680	Los Angeles	Transverse Ranges; Liebre Mts. region: Portal Ridge. 146 m N of Poor Road and 312 m E of 70th Street West	1085	<a href="#">Comment</a>
<input type="checkbox"/>	<a href="#">UCD105572</a>	Calochortus clavatus var. clavatus	Robert E. Preston	05 19 2010	2783	San Luis Obispo	San Luis Obispo County: Temblor Range, 5.2 mi ENE of Simmler	998	<a href="#">Comment</a>



## Consortium of California Herbaria

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UC Riverside

### Accession Detail Results

UCR is the home institution for this record

Please cite data retrieved from this page: Data provided by the participants of the Consortium of California Herbaria ([ucjeps.berkeley.edu/consortium/](http://ucjeps.berkeley.edu/consortium/); Thu Apr 23 14:59:34 2015).

Records are made available under the [CCH Data Use Terms](#).

Specimen number	UCR229410
Determination	<i>Calochortus clavatus</i> var. <i>avius</i> <a href="#">More information: Jepson Online Interchange</a>
Collector, number, date	George K. Helmkamp, E. A. Helmkamp, 17951, Jul 30 2011
County	El Dorado
Locality	Northern Sierra Nevada Mountains Omo Ranch Road, 7.4 miles southeast of Omo Ranch, 1.9 mi. NW (304°) airline of Hwy 88 junction
Elevation	1372 m
Habitat	Coniferous forest.
Coordinates	38.54333 -120.47167 <a href="#">BerkeleyMapper</a> [or without layers, <a href="#">here</a> ]
Datum	Not recorded; ER = 100 m
Coordinate source	Collector GPS
Annotations and/or curatorial actions	<i>Calochortus clavatus</i> var. <i>avius</i>
Notes	USGS quad: Caldor 7.5' Q.; Uncommon and apparently very local; on an open rocky bank.;
Comment	
Help	

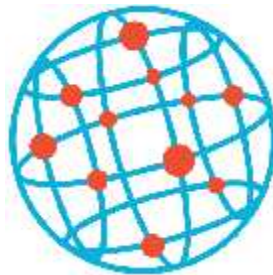
#### Related searches:

1. [taxon=Calochortus clavatus var. avius](#)
2. [county=El Dorado; taxon=Calochortus clavatus var. avius](#)
3. [county=El Dorado; collector=Helmkamp](#)
4. [collector=Helmkamp; taxon=Calochortus clavatus var. avius](#)
5. [collector=Helmkamp; number=17951](#)





## Resources Serving CCH Records





# CCH Acknowledgements

- California Digital Library; initial funding (2003–2006)
- National Science Foundation; planning meeting (2006)
- USDA Forest Service; georeferencing (2006 & 2007: Tehama, Trinity, Shasta, and Siskiyou counties)
- Andrew W. Mellon Foundation; digitization of type specimens (2008–2013)
- Global Biodiversity Information Facility; georeferencing records of non-native specimens (2008–2009)
- Institute of Museum and Library Services (Museums for America program); databasing and georeferencing historical specimens collected in San Diego County (2005–2009).
- National Science Foundation; databasing, georeferencing, and technical support (2010–2014), with an additional supplements in 2012, 2014





## Other Digitization Projects at UC/JEPS

- ADBC Funding
  - 2011 TCN: NA Bryophytes and Lichens (100,000 + 47,000)
  - 2012 TCN: Macrofungi Collections Consortium (33,000)
  - 2013 TCN: Macroalgal Herbarium Consortium (80,000)
  - 2015 TCN: Microfungi Collections Consortium (0)
  
- Other Projects
  - MEXUS: Vascular plants from Baja California Peninsula (2014-2016; in collaboration with CONABIO)
  - UN ANR: Specimens at UC field stations (2014-2016)



# Digitization at Berkeley Natural History Museums

- UC Museum of Paleontology
  - 2015 ADBC-TCN: Fossil Marine Invertebrates of the Eastern Pacific
  - 2015 ADBC-PEN: Fossil Insect Collaborative
  - IMLS grants for cataloging (2014-2017)
  - NSF-DBI: USGS fossil invert collection at UCMP
- Museum of Vertebrate Zoology
  - NSF DBI grant to digitize ornithological recordings (2007-2012)
  - Field notebook grants (NSF: 2003-2007; CLIR: 2016)





# Digitization at Berkeley Natural History Museums

- Essig Museum of Entomology
  - CalBug: NSF project digitize 1M California arthropod specimens (2010-2015)
  - Currently crowdsourcing transcriptions on Notes From Nature
  - UC-ANR: UC field station digitization (2014-2016)
- UC Botanical Garden
  - Project to image and OCR historic card files (ongoing)
- HOLOS Ecoengine
  - Keck Foundation funded project at UCB
  - Online explorer and API with diverse data types

# BNHM Informatics Contact Information

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