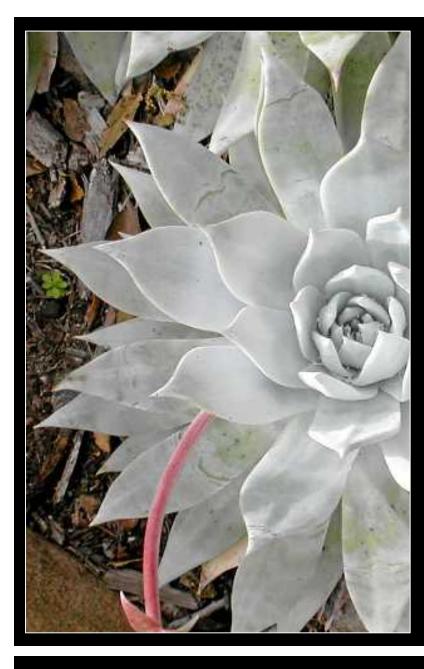
The past and future of digitization at the Santa Barbara Botanic Garden



Matt Guilliams Ken and Shirley Tucker Plant Systematist Santa Barbara Botanic Garden



Our different collections
 Goals for digitization
 Progress to date
 Future plans

Outline



Herbarium specimens



Living collection



Original field notes



Slide collection

Our different collections



Herbarium specimens



Slide collection



Living collection



Original field notes

Our different collections

- 1. All herbarium specimen label data digitized, served through CCH/GBIF
- 2. All herbarium specimens imaged by 2019
- 3. All living collections inventoried and location in Garden recorded in GIS
- 4. All slides scanned to digital and served online
- 5. All field notes scanned and available online

Goals for digitization

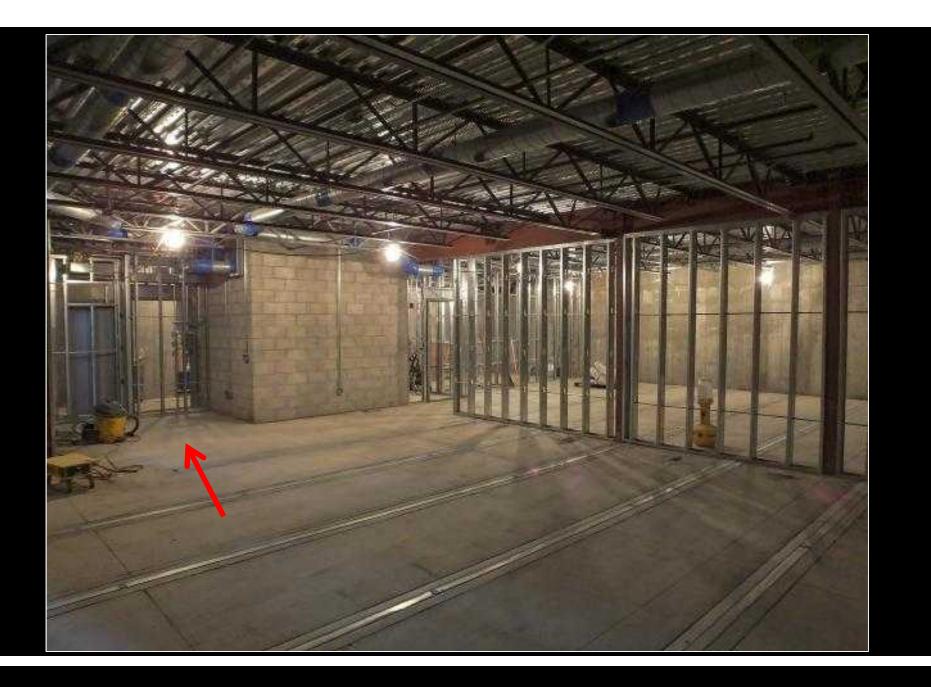
1. Herbarium label digitization

- Dieter Wilken began when he arrived in mid-1990s
- Currently 100% of CA, 100% of Mexico, 100% of lichens
- Working on non-CA North America

2. Herbarium specimen imaging

- Goal as of 2014
- Failed IMLS 2014, partner on CCH NSF 2015
- Designed new herbarium space with future imaging goals in mind

Progress to date – herbarium specimens



Progress to date – herbarium specimens

3. Living collections inventoried

- Successful IMLS supported fulltime staff to inventory and map all living collections with sub-meter GPS
- Records in Access, coordinates and metadata in ArcGIS
- 4. Slides are being scanned
 - Ongoing project with heavy volunteer support
 - Scan 1000s of slides, enter data in DB, serve online
 - http://www.sbbgphotos.org

Progress to date – living collections and slides





Home

Welcome to the SBBGPhotos Image Gallery. From this page you can access more than 50,000 images from the SBBG Blaksley Library archive. In addition to SBBG historical, cultural and architectural images, this collection also features images of California native plants, planted and natural landscapes, and animals.

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http://www.sbbgphotos.org

Progress to date – living collections and slides

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Location Information ¥	Plant Pictures V	
	Latin Name	type for
General Subject V	Primary Plant Part	suggestions
Accession Record Details V		Bud (leaf or flower)
Accession Accord Deans *		Cone Flower close-up
Plant Pictures V		Fruit
		Inflorescense
		Leaves Other plant part
Natural Landscapes Y		
Natural Landscapes Y		Seed
		💮 Seedlings
Natural Landscapes ▼ Planted Landscapes (including SBBG) ▼ Cultural - People, Events, Buildings ▼		Seedlings Sprouts

Progress to date – living collections and slides

5. Digitization of field notes

- Collectors
 - Henry Pollard
 - Clifton Smith
 - Ralph Philbrick
 - Steve Junak
- Purpose
 - Make herbarium labels/process specimens
 - Serve original notes online, e.g., Reid Moran (SD) or W.L. Jepson (UC/JEPS)
- Presently working on Ralph Philbrick and Steve Junak field notes

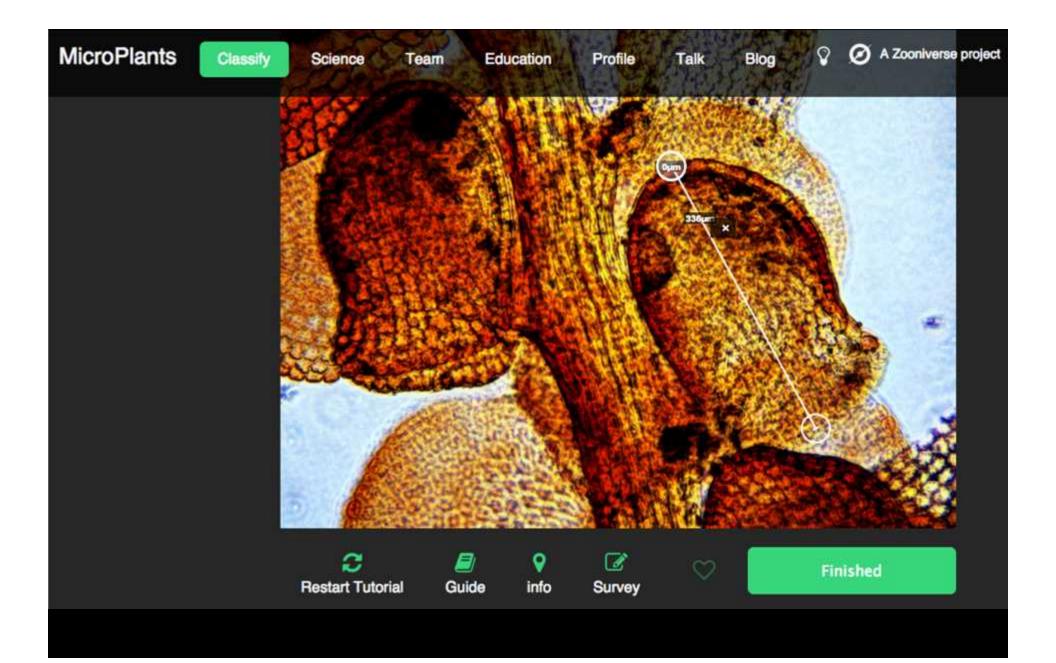
Progress to date – field notes

	Border, 14 June 1969 - Off at 1140, much later than planned, I went to Otay Mess, down La
	Media Road to the border road, east 25 miles, back past E-42 Rond, to come at after 0.9.
	miles at San Ysidro RR Station. I boked in several vernal pools on La Media Road, but no
	Orauttia. The vernal pools south of the fence op only a little search of Hannest Read; on our side
1	they are wiped art. East of Tijuana Amport, most small vernal pools had no Orcultia;
	and in the one large pond it was in the shallow part, not the deep I had planned to go
	on and camp at the toot of Guadalpe Mtn.; but since it was now 1830, I went on back. R.t. 67 mi
	the same and show in the same same in the
6099	Orcuttia californica Vasey SD
	Seedlings common in drying mod, E-42 Pond, i mile east of San Ysidro, 100 m. 32322, inc
6100	Spergularia Villosa (Pers.) Camb. SD.
	http://bajaflora.org/morannotessearch.aspx

Progress to date – field notes

- 1. Transition to system that includes and connects SBBG collections data
 - Some collections data inherently linked
 - Junak's collections, slides, field notes
 - Objects collected by a team in same locality, e.g., vernal pools; plants, crustacea (fairy shrimp), photos, field notes
 - Some collections data related but not linked
- 2. Develop web portal to serve images for citizen science initiatives
 - Crowd source data collection
 - Public outreach

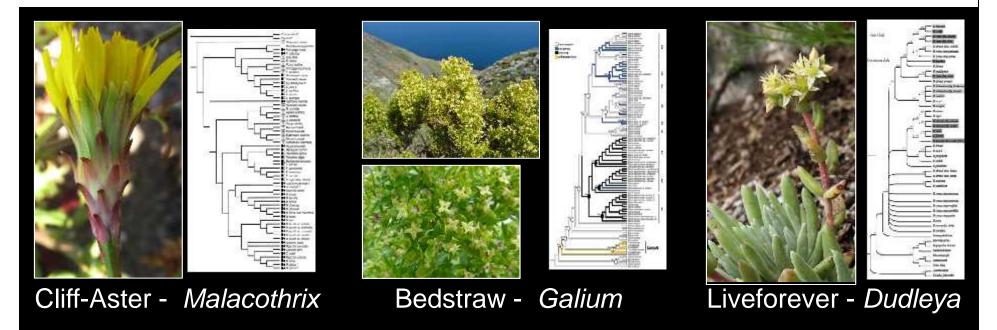
Future goals

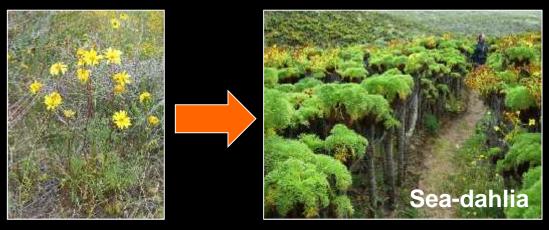


Future goals

http://microplants.fieldmuseum.org/

CA Island biodiversity studies Comparative phylogenetics of the Channel Islands flora





Are there consistent changes to plant form, e.g. gigantism or loss of other defensive traits?

Thanks!



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