

THROUGH DIGITIZED COLLECTIONS

SAGEHEN TEACHING COLLECTIONS

DEVELOPED 1951-C.1970

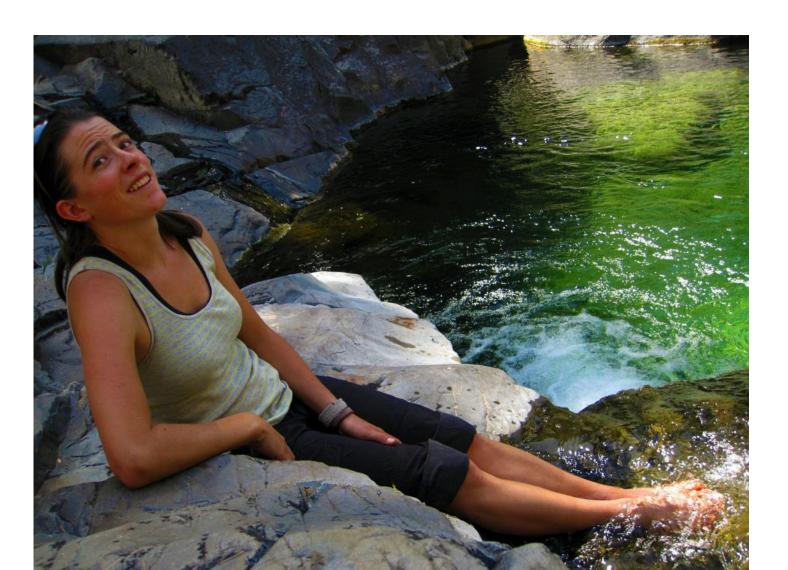






OUR FIRST VICTIM...

ERICA KRIMMEL



CALIFORNIA NATURALIST

CERTIFICATION TRAINING

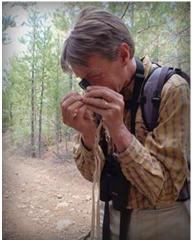














CURATION, DIGITIZATION, SHARING...

WITH THE AID OF VOLUNTEERS, FREE TOOLS, NEW PARTNERS











...AND EXPANDED!





- 60+ new voucher specimen firsts for Sagehen herbarium (10+ species new to the basin list)
- 200+ new vouchers for the North Fork of the American River (17+ species new to that basin list)

RELATIONSHIPS STRENGTHENED

WITH ASSOCIATED RESEARCH PROPERTIES, CAMPUS

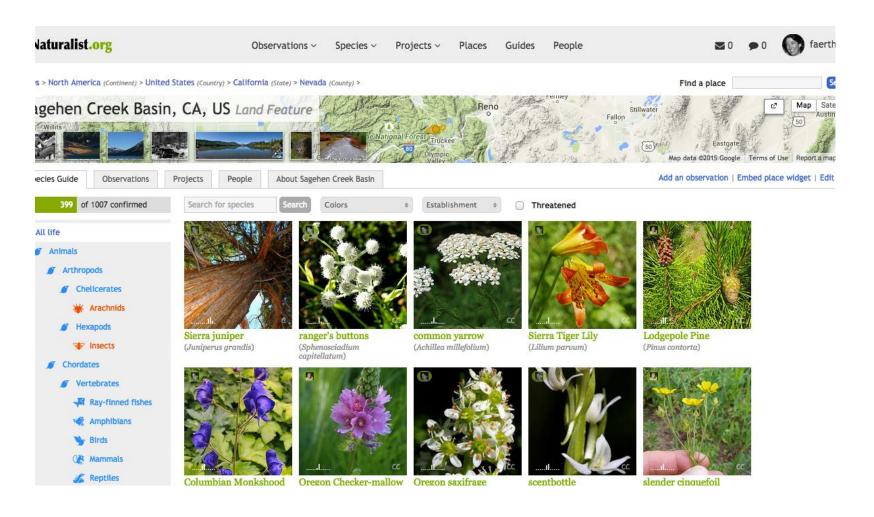


- Historical family collection scanned;
- Biota list expanded;
- Herbarium collection begun;
- Research requests triggered.



INATURALIST CITIZEN SCIENCE

PUBLIC ENGAGEMENT, NEW RESEARCH DATA, VALIDATION OF BIOTA LISTS, DISCOVERY OF NEW SPECIES



DOCUMENTING BASIN BIOTA







Since 2012...

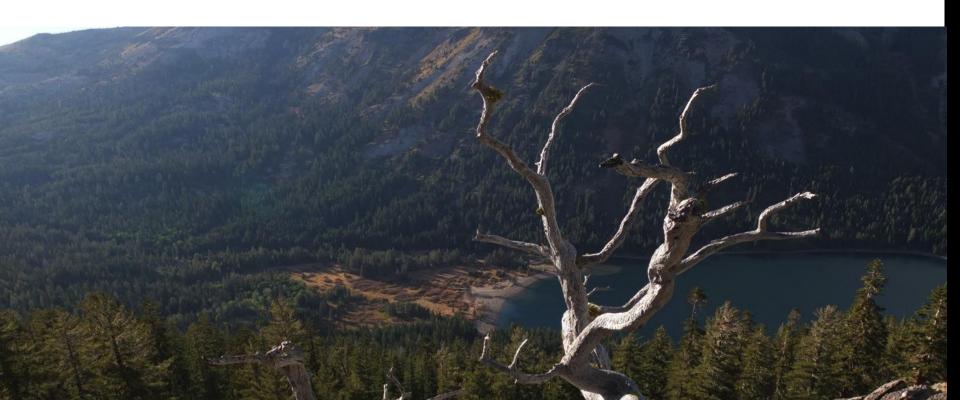
3700+ OBSERVATIONS 575+ SPECIES 95+ CONTRIBUTORS

We're getting species verification, plus distribution and movement data for the first time ever.

NEW SPECIES DISCOVERED!

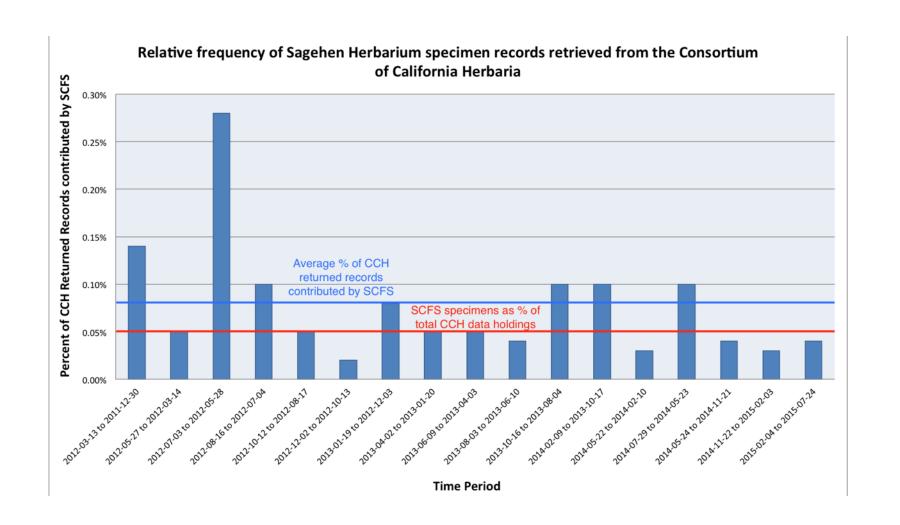
EVEN AFTER 65-YEARS OF COLLECTING IN THE SAGEHEN BASIN

Arceuthobium abietinum, Epilobium howellii, Antennaria geyeri, Cordylanthus tenuis, Artemisia tridentata subsp. wyomingensis, Elodea canadensis, Ptychostomum pseudotriquetum, Ranunculus aquatilis, Securigera varia, Grindelia camporum, Warnstorfia exannulatum, Actaea Rubra, Maianthemum racemosum, Solchus oleraceus, Crepis occidentalis, Asclepius speciosa, etc. (and, most are neither tiny, nor weeds!)



OUR DATA IS BEING USED

VIA PARTICIPATION IN REGIONAL, NATIONAL AND INTERNATIONAL BIODIVERSITY DATABASES



RESEARCH REQUESTS TRIGGERED

- New Ceanothus hybrid
- Mimulus niche adaptation
- Population modeling of Speyeria (fritillaries)
- Sierra red fox genetics
- Collections provide a source of isotopes and DNA (sometimes)









WE'RE GETTING NEW PUBLICATIONS

- Data publication in regional, national and international biodiversity databases, including GBIF, Calflora, BISON, California Consortium of Herbaria (CCH), Symbiota, Berkeley Initiative in Global Change Biology (BIGCB), etc.
- Master's thesis (Krimmel, 2014).
- Collections Activity Report, 2014 (Krimmel, 2014).
- Peck, Cook, 2013. Systematics and distributions of the genera Cyrtusa Erichson, Ecarinosphaerula Hatch, Isoplastus Horn, Liocyrtusa Daffner, Lionothus Brown, and Zeadolopus Broun of the United States and Canada (Coleoptera: Leiodidae: Leiodinae: Leiodini). Insecta Mundi, Articles 0310-0313.
- Trager 2013b. Global revision of the dulotic ant genus Polyergus (Hymenoptera: Formicidae: Formicinae: Formicini). Zootaxa 3722: 501–548.
- Graening, Shcherbanyuk, Arghandiwal, 2014. Annotated Checklist of the Diplura (Hexapoda: Entognatha) of California. Zootaxa 3780 (2): 297-322.
- Kanturski, Weiczorek, 2015. A new species of the nearctic gall-forming genus Tamalia Baker (Hemiptera: Aphididae: Tamaliinae). Zootaxa 3926(2):268-278.
- Rosa, Vårdal, 2015. An annotated catalogue of the types of Chrysididae (Hymenoptera) at the Swedish Museum of Natural History, Stockholm, with brief historical notes. Zookeys (495): 79–132
- More!

PASSION

CREATED OR DISCOVERED?

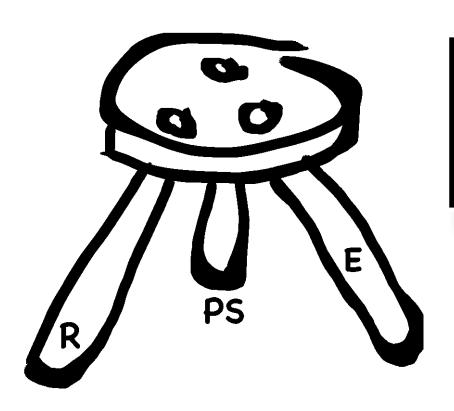
- Purpose a calling in life, the reason you get up every morning
- Flow getting into a rhythm with your activity, losing time, performing
- Pleasure savoring and mindfulness of where you are at right now

People <u>crave</u> passion, and in an increasingly challenging budget world...

Field stations and museums desperately need passionate supporters!

SMALL COLLECTIONS ARE IMPORTANT!

VOLUNTEERS NEED TO KNOW THAT THEIR CONTRIBUTION IS MEANINGFUL



UNIVERSITY MISSION:

- RESEARCH
- EDUCATION
- PUBLIC SERVICE

CONTACT US!

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