

Berkeley Geography 171, Spring 2013

Homework 2

Due Thurs Feb. 14 (by the end of the day PST)

This homework is divided into 2 exercises: (1) Phenology & (2) the Tree of Life
Each exercise will be recorded in a Journal.

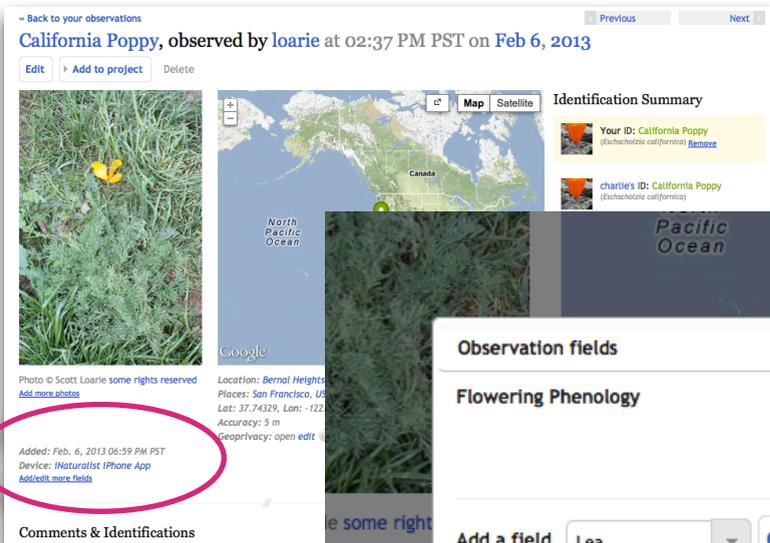
For observations in this homework, make sure:

(a) your obs have photos, (b) the spatial accuracy is < 1km, (c) they are grafted to the tree of life as close to the tips as possible, (d) the organisms are determined to the best of your abilities to be wild or naturalized (i.e. not pets and garden plants), and (e) observations are taken this semester AND aren't double counted for your initial observation posting required by last week's homework.

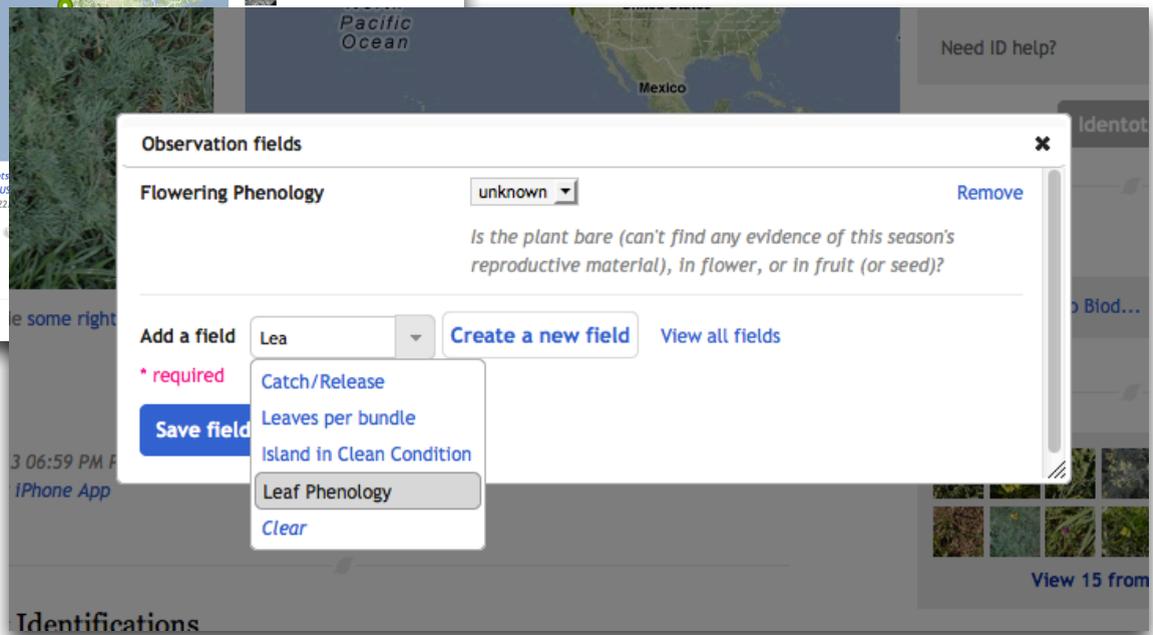
Exercise 1: Phenology

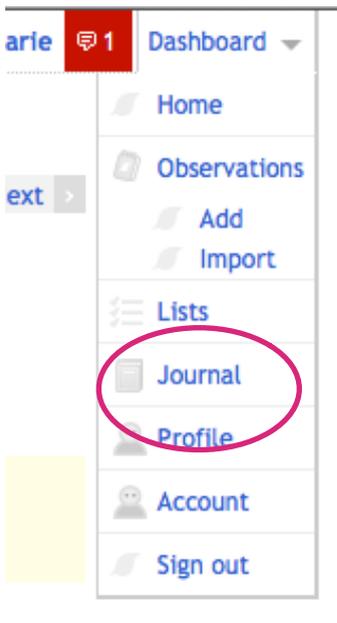
Spring is already starting and many plants are leafing out and flowering. Use the observation fields to record **phenology** by adding Flowering Phenology and/or Leaf Phenology fields. Find me separate observations of a plant with no flowers (bare) & one with flowers (flower). Next find me a plant plant with leaves (leafed out) and one still dormant (bare). You can add both fields to the same plant, or find different ones so you'll need at least 2 observations or as many as 4 to do this excursive.

I. Once you've made an observation, click 'add/edit more fields'

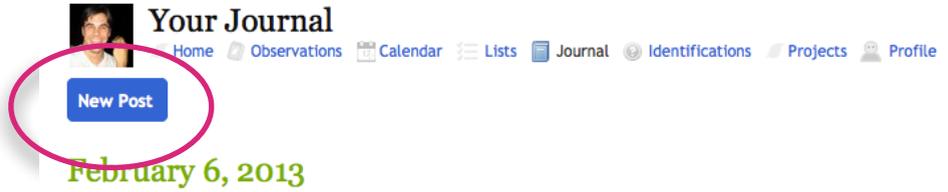


II. Search for Flowering Phenology and/or Leaf Phenology





Next, describe this phenology exercise in a journal. Go to your journal using the Dashboard menu in the upper right to get to your journal. Then click on 'New Post'.



Title your post 'Phenology Exercise'. From your observations on the right, check the 2 to 4 relevant observations you took to record flower and leaf phenology.

New Journal Post

Title

Body

Observations

You can choose observations to associate with this journal post.

« Prev Select All Select None Next »

<input type="checkbox"/>		Common Raccoon <i>Procyon lotor</i>	Feb 8, 2013 06:50 PM PST	943-953 Guerrero St, San Francisco, California, US (Google, OSM)
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In the body of the journal post, describe to me how your observations exemplify flowering and leaf phenology.

Lastly, click 'Publish' to save your journal entry.

Exercise II. The Tree of Life

Fungi 🍄

Plants 🌿

Animals 🐾

Mollusks 🐌

Birds 🐦

Amphibians 🐸

Ray-finned Fishes 🐟

Mammals 🐾

Reptiles 🐍

Arachnids 🕸

Insects 🐝

Chromista 🌿

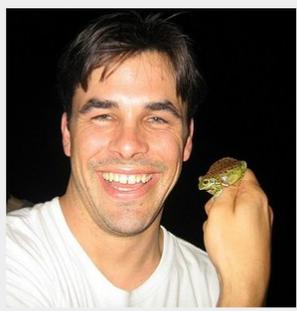
Protozoans 🦠

For this, go for a hike and try to find me observations representing at least **5 different 'iconic taxa'** (shown on the right). For example, you could find me a mushroom (fungi), a tree (plants), a snail ('mollusks'), a sparrow (birds) and an earthworm ('animals' remember animals refers to all animals that are **not** mollusks, birds, amphibians, ray-finned fishes, mammals, reptiles, arachnids, or insects).

Try to ID your observations as close to the tips of the tree of life as you can. But they need to cover at least 5 different branches represented by these iconic taxa.

Make a second journal post called 'Tree of Life exercise' and add your observations to it. Explain in the body of the journal post how your observations represent at least 5 iconic taxa across the tree of life.

Extra credit - help others with identifications!



aka Scott Loarie

- 3417 observations
- 1536 species
- 73 lists
- 10 journal posts
- 9256 identifications
- 271 followers
- following 12 people
- loarie is an admin

Your profile keeps track of how many identifications you've made for others. Only add identifications for organisms you are familiar with. And if others ask you why you chose a particular ID be responsive and polite. To get extra credit, make at least 25 identifications for others by the homework due date.