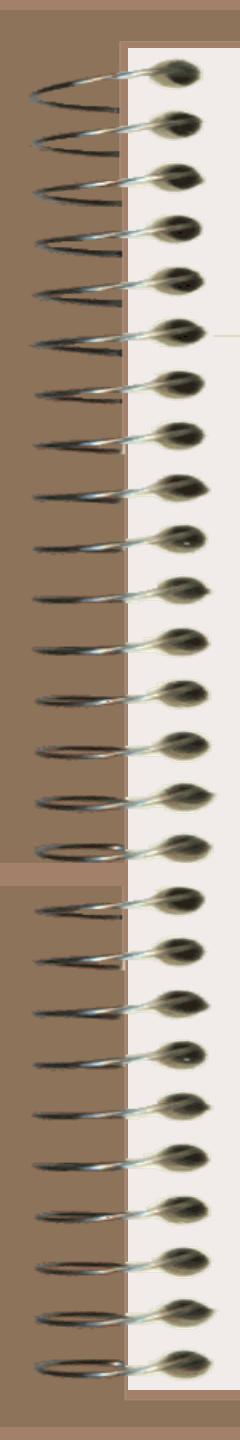
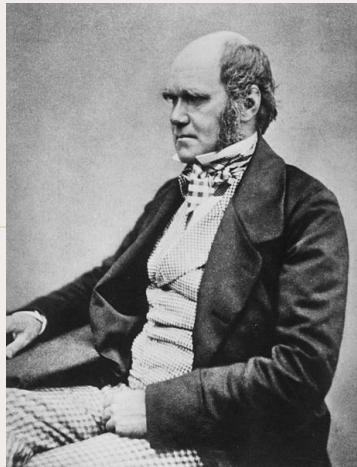


Field Notebook



Charles Darwin

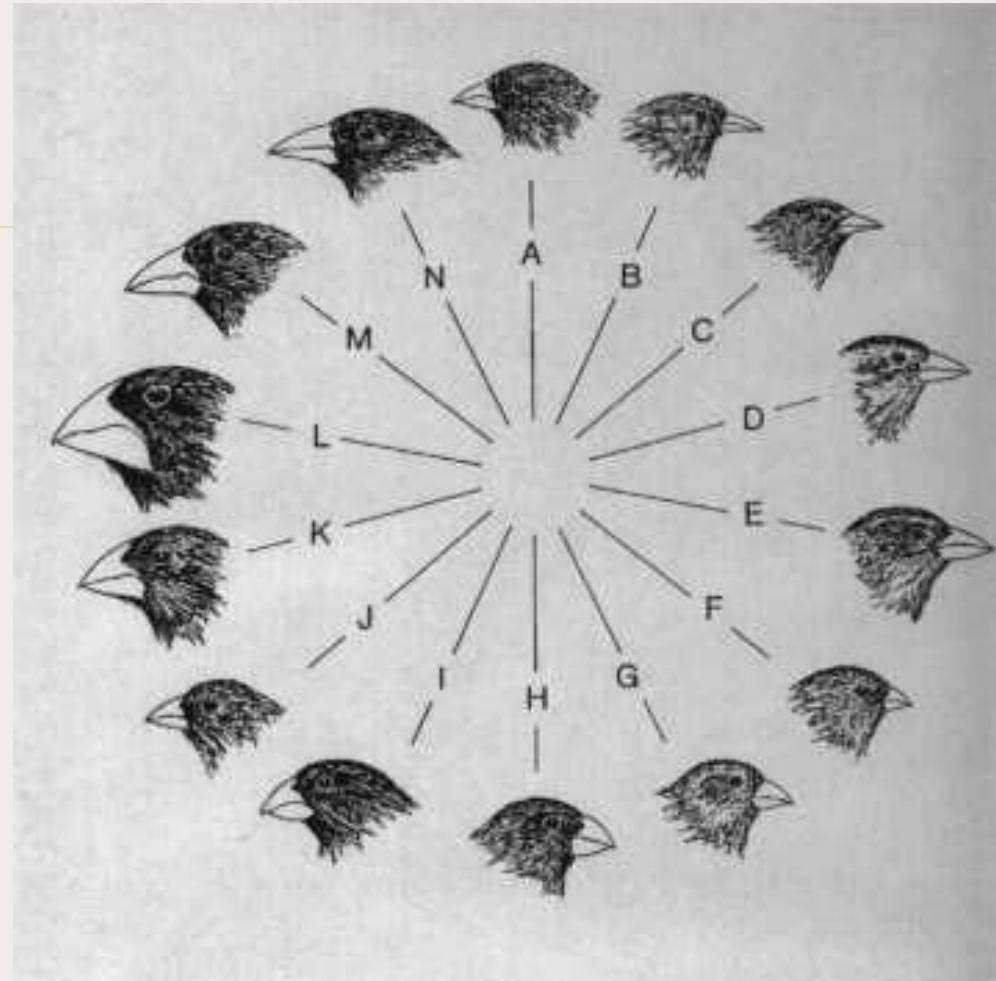
“A naturalist ought to acquire the habit of writing very copious notes, not all for publications, but as a guide for himself. He out to remember Bacon’s aphorism, that reading maketh a full man, conference ready a man, and writing an exact man; and no follower of science has greater need of taking precautions to attain accuracy; for the imagination is apt to run riot when dealing with masses of fast dimensions and with time during almost infinity.” - Admiralty Manual of Scientific Enquiry



C. Darwin
1831-1836



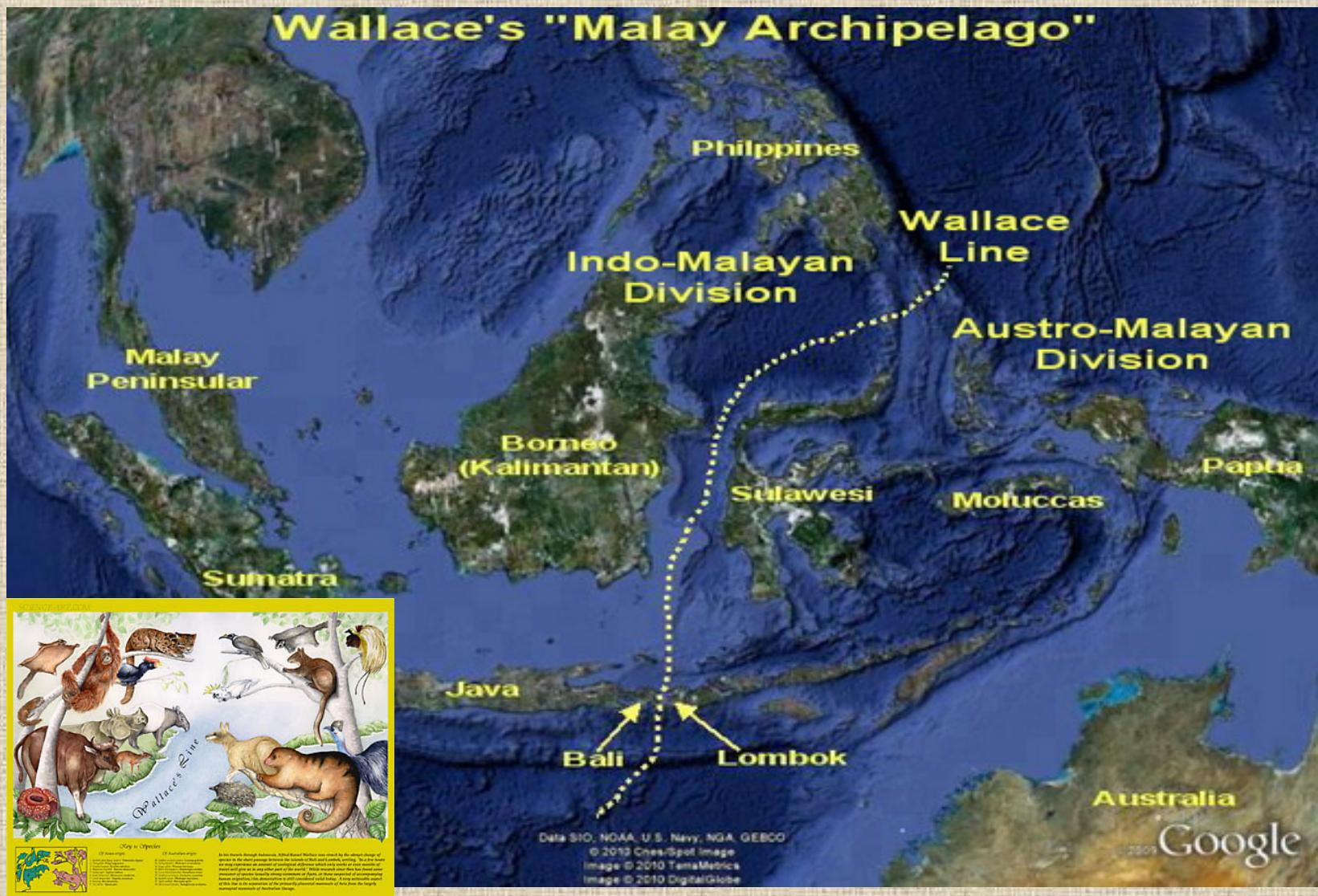
A. R. Wallace
1848-1862

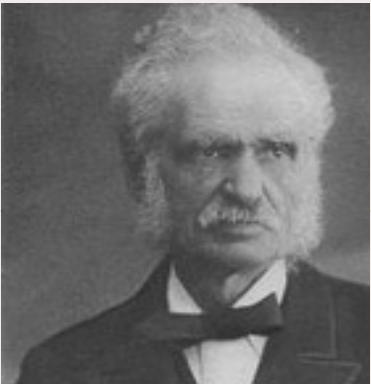


- Observe patterns in nature
- Patterns lead to hypotheses
- Hypotheses can be tested (falsified)

Wallace's Field Notes

- lost entire flora & fauna collection from S. America (still wrote 6 papers)
 - Fauna of the Malay Archipelago (Wallace's Line); all by comparing notes

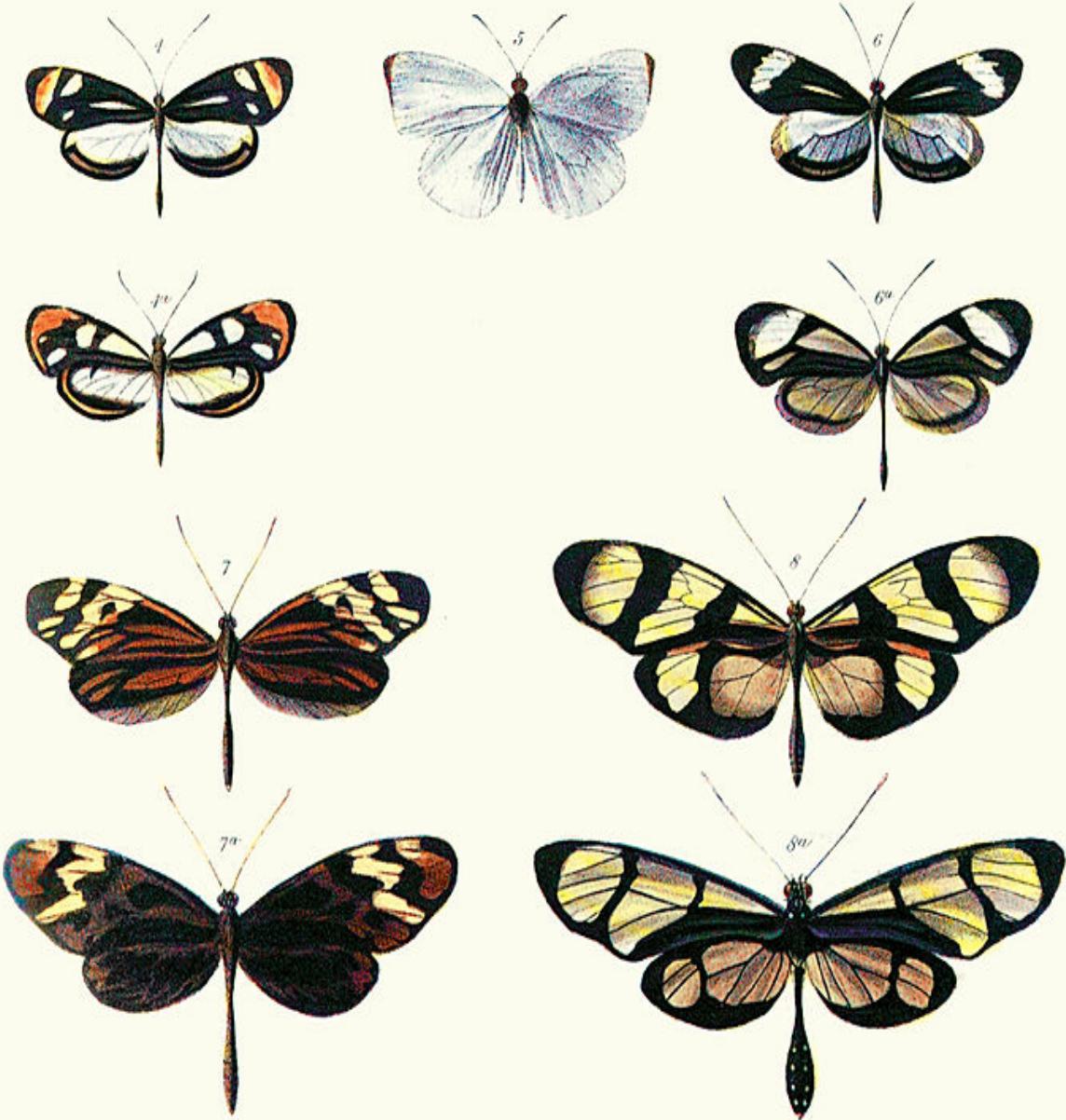




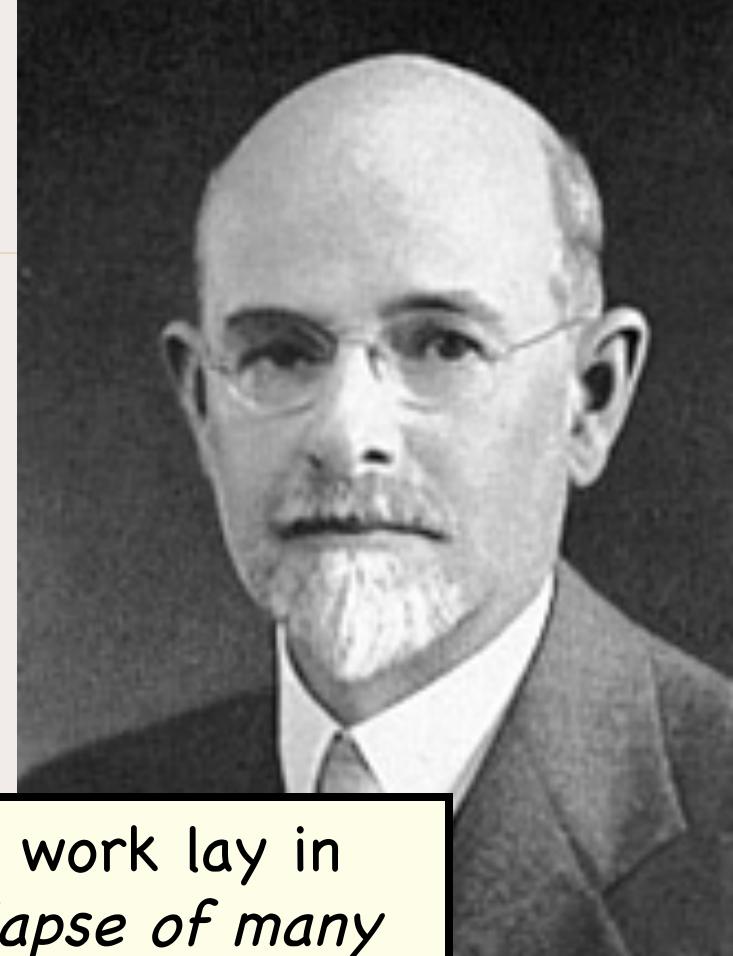
H. W. Bates
1848-1859



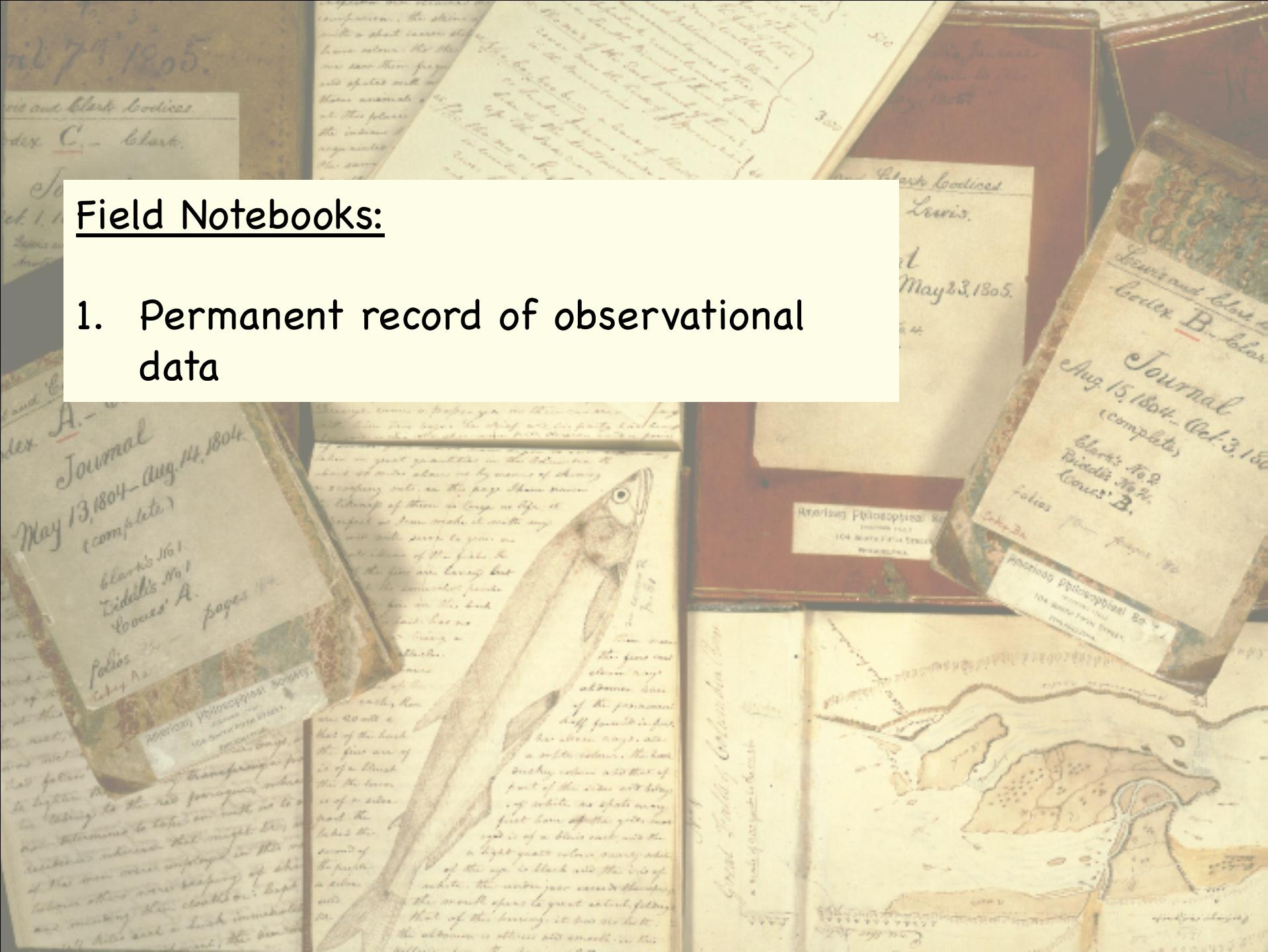
Tocáno
1859



Joseph Grinnell

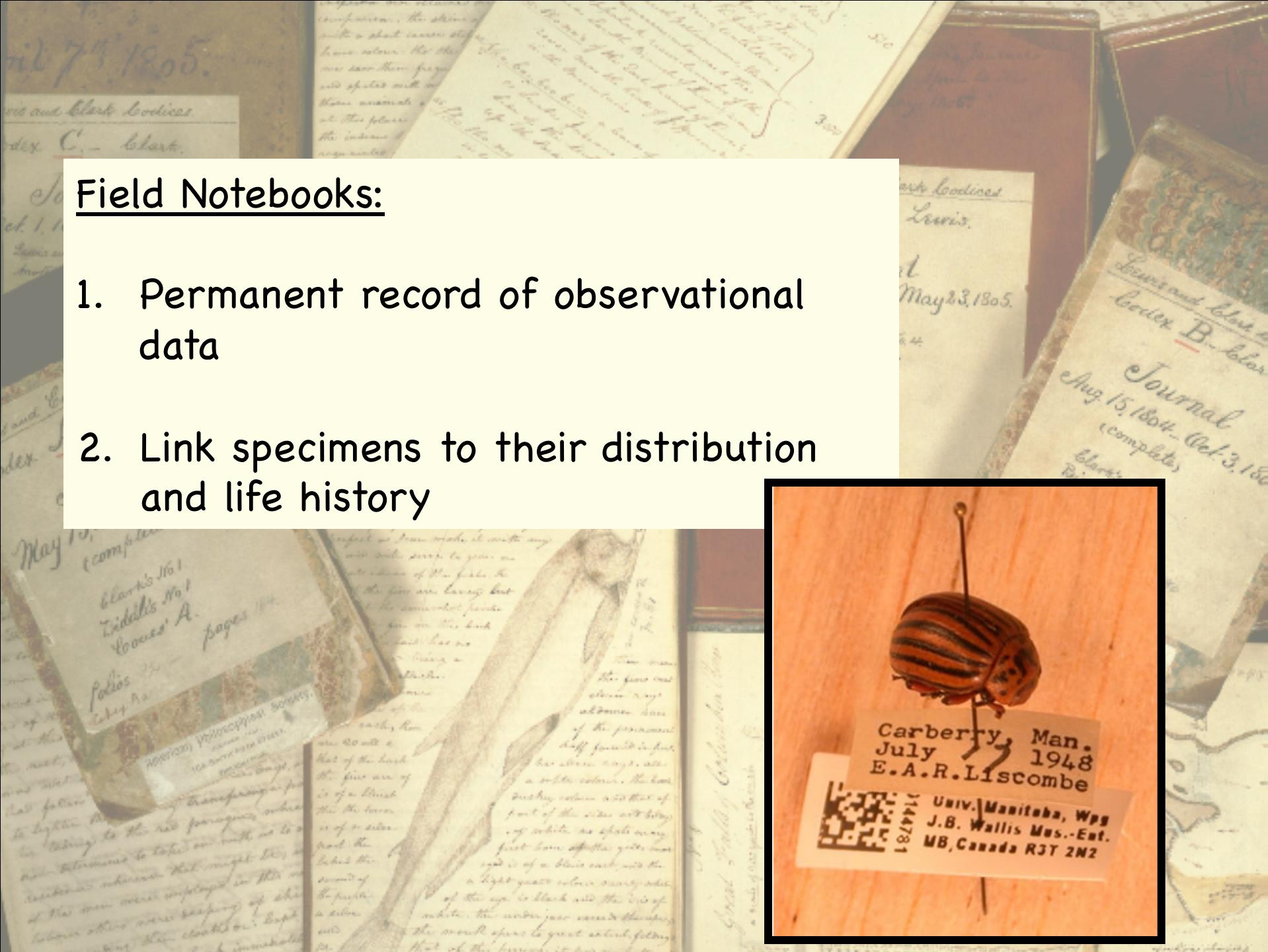


Much of the value of this work lay in the fact that "after the lapse of many years, possibly a century, the student of the future will have access to the original record of faunal conditions in California".



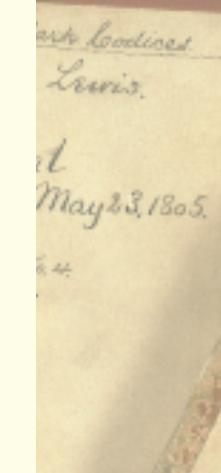
Field Notebooks:

1. Permanent record of observational data



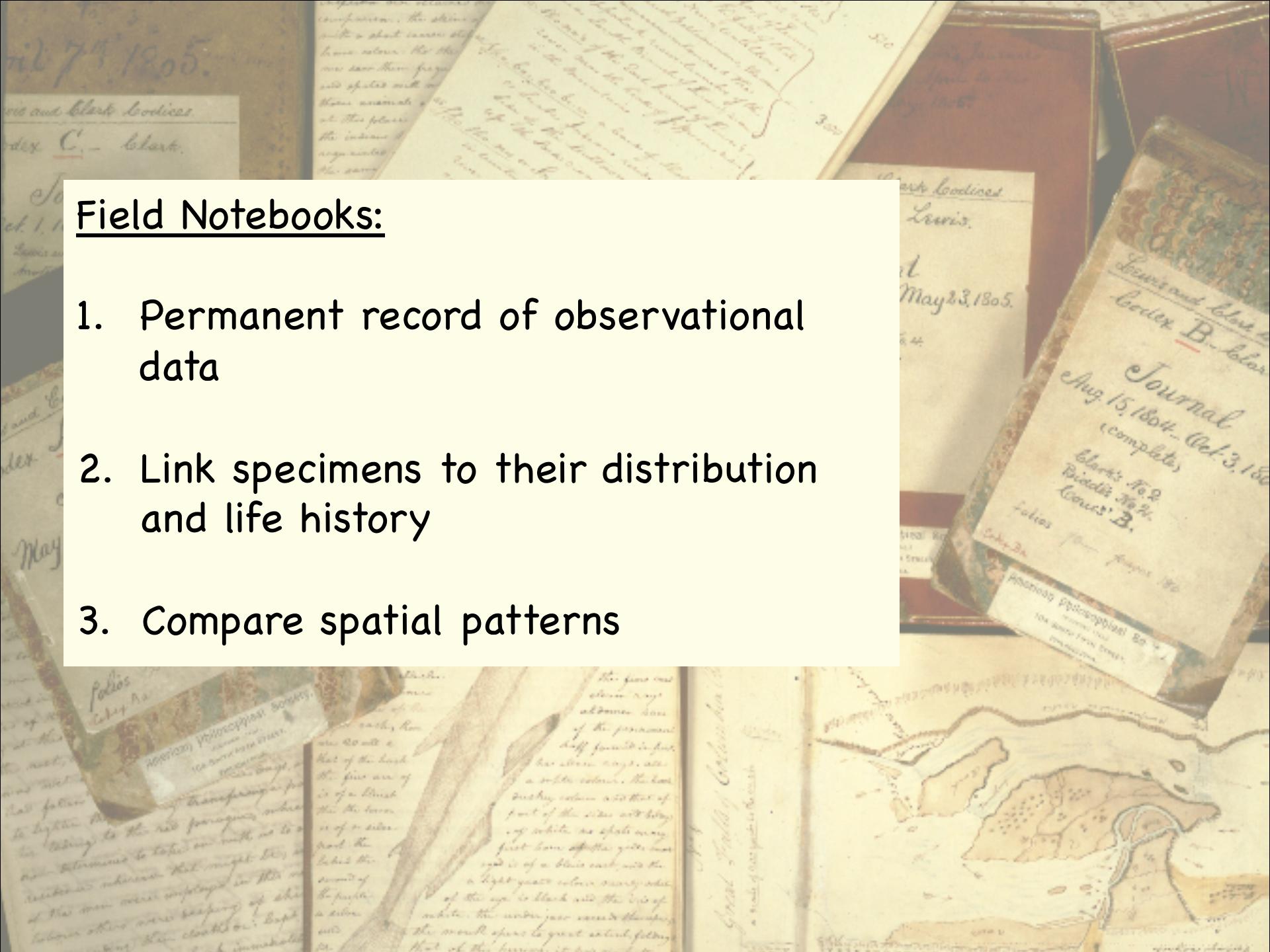
Field Notebooks:

1. Permanent record of observational data
2. Link specimens to their distribution and life history



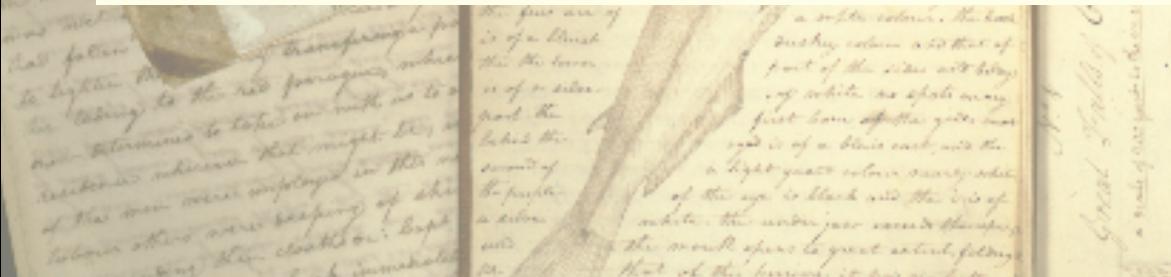
Field Notebooks:

1. Permanent record of observational data
2. Link specimens to their distribution and life history
3. Compare spatial patterns

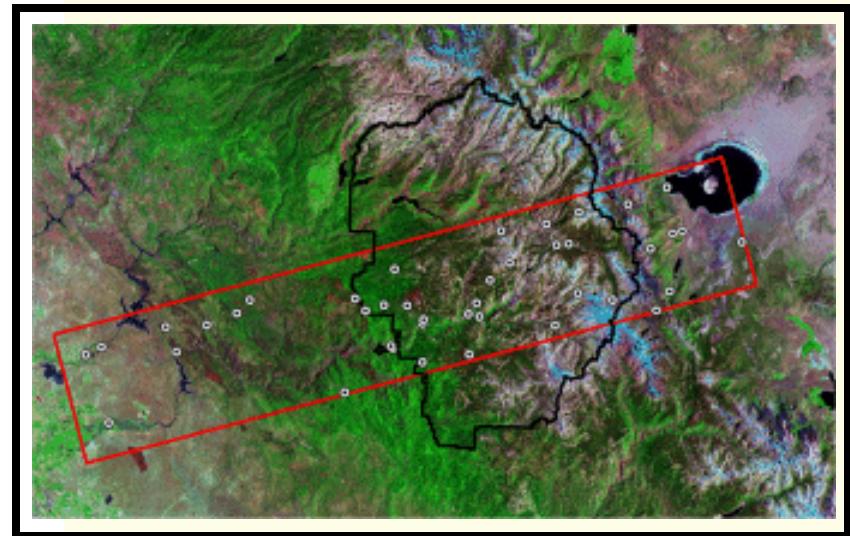
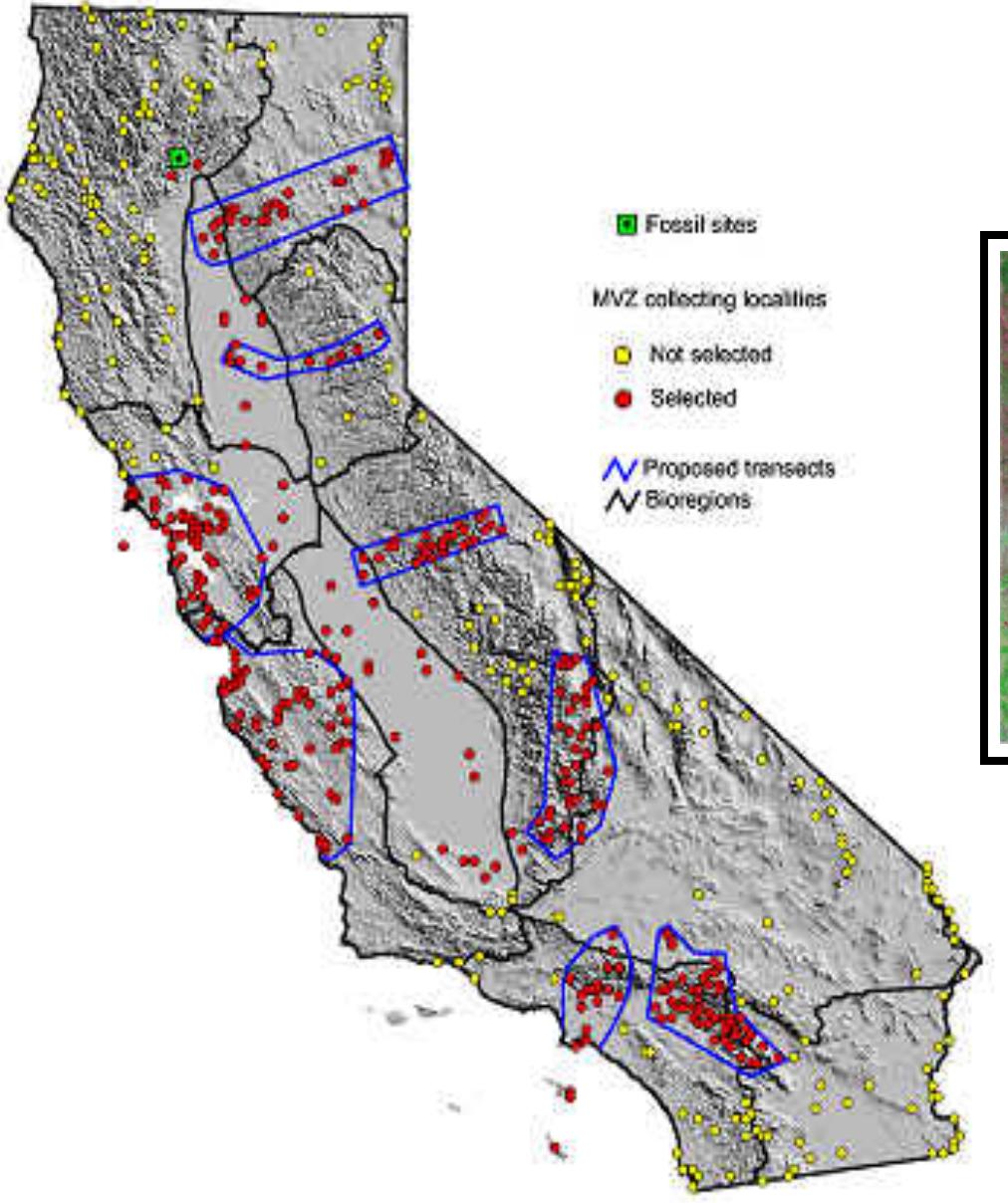


Field Notebooks:

1. Permanent record of observational data
2. Link specimens to their distribution and life history
3. Compare spatial patterns
4. Compare temporal patterns



Yosemite Transect



Yosemite National Park, Lyell Canyon



1775



2003

Yosemite Transect. Yosemite Valley, Stoneman Meadow

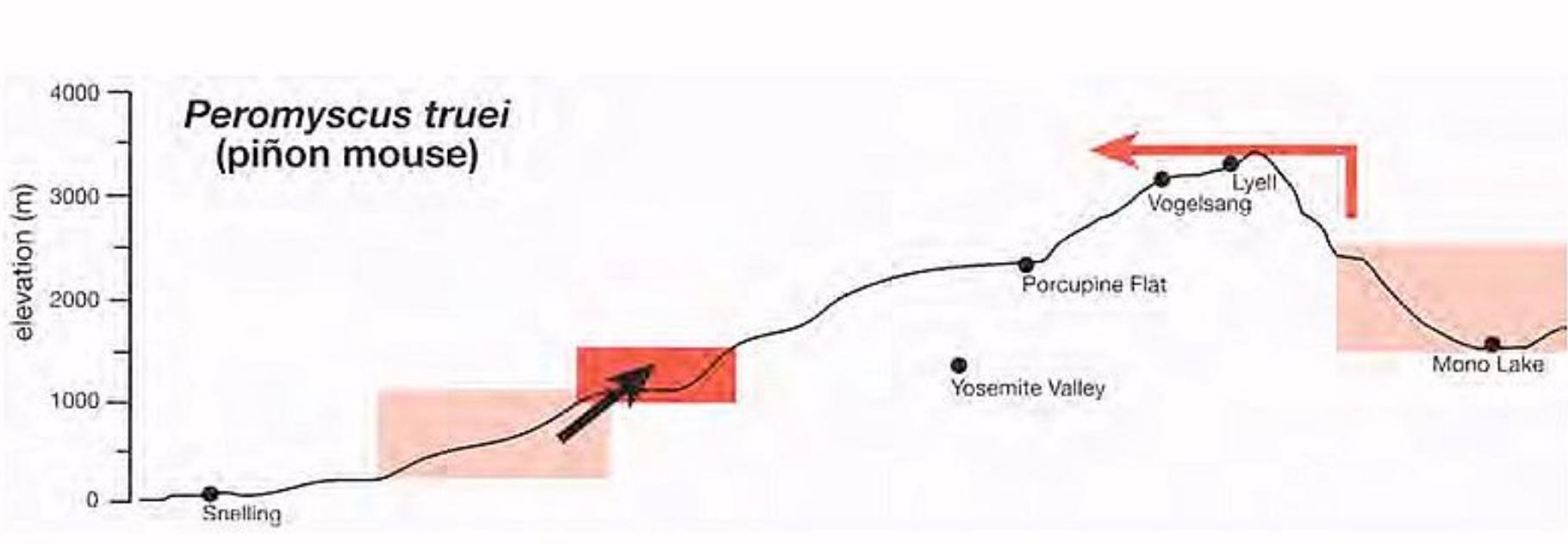


1911



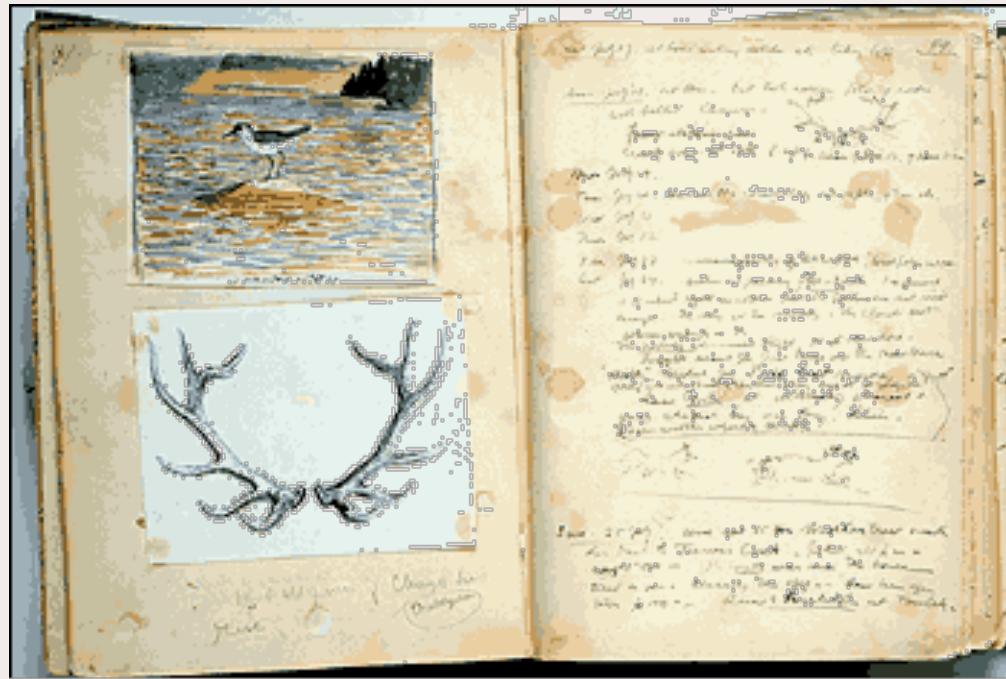
2003

Yosemite Transect



The Grinnell System (4 main components):

1. The Field Notebook
2. The Field Journal*
3. The Species Account*
4. The Catalog*





Field Notebook

Little Valley

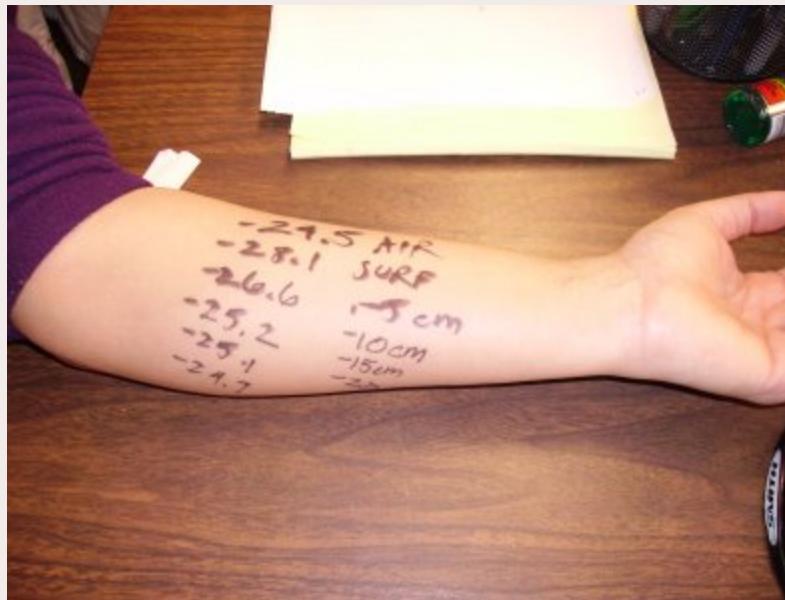
Washoe, Nevada

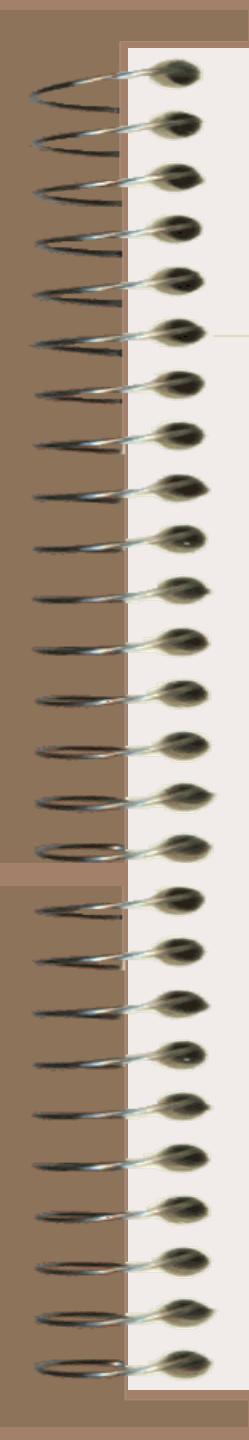
June 2012

General Requirements

Notebook: approximately 7.75" by 5". Must have it **every** weekend, do not forget!

Writing utensil: Either pencil, ultra fine point sharpie, or smear proof pen (black or blue) .

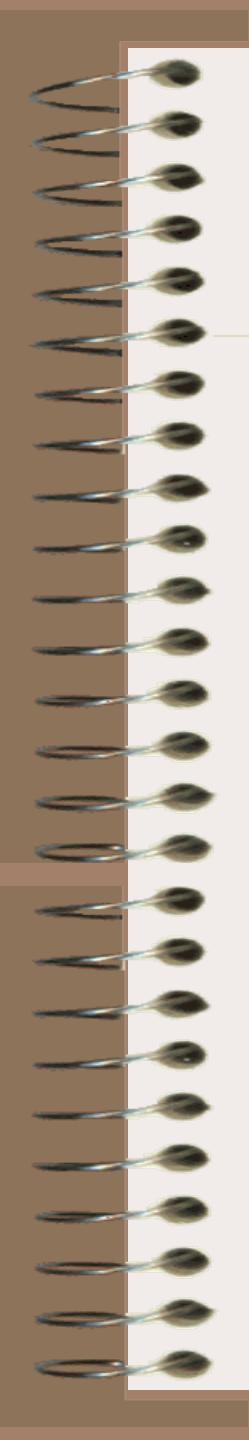




General Requirements

Notebook will be divided into 3 parts

- 1) Journal
- 2) Species Account (~20 pages)
- 3) Species Catalog (~10 pages)



Inside Cover

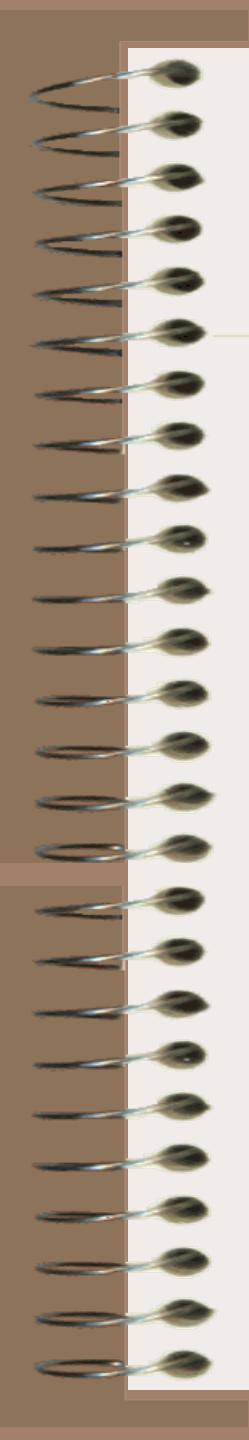
Must include name, class, and date.

Name

Biology 322

Experimental Field Ecology

1 June 2012 – 23 June 2012



Journal requirements

Name and year: Write your last name and year in the top left hand corner of each page.

Date: Write the date out in continental format: “12 June” in the left hand margin.

Locality: Order the information so that it goes from the most detailed to the most general. For our purposes “Little Valley”

LOCALITY should be wavy-underlined.

Page number: Write the page number in the top right hand corner of each page.

31 May

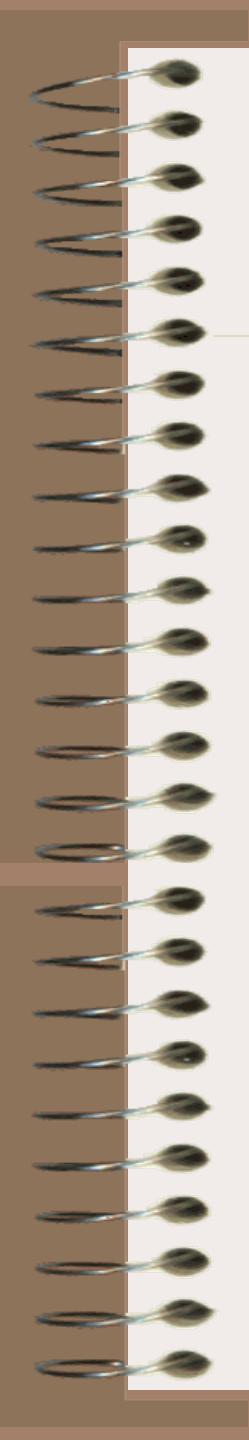
2 km E of San Simon on State Hwy. 83, Pima County, Arizona.

Journal requirements

Weather: Include general description of the weather; **temperature** (hot/cold), **wind**, **cloud cover**, and any **precipitation**

Elevation: Approximate elevation in meters

Description of the locality: Give a description of the landscape and vegetation type, including dominant or important plant species where possible.



Journal requirements

Time: Important for describing how long was spent in a particular location or at a particular activity.

Daily account: This should be a brief record of the main features of the day, and your observations. Include special activities such as an early morning bird walk, and interesting facts. In the narrative, scientific names should be underlined with a straight line, and locality names should be underlined with a wavy line to make them stand out.

S. Greaves
2002
23 Sept.

Journal

1

1330 Harkney Hill Rd. Coventry, RI 02816

Continued survey this morning in an effort to get a grasp of plant species on our property. Mild temp, light breezes, partly cloudy. Very comfortable. Just N. of the back lawn I found small Sassafras (Sassafras albidum) sapling. Also found a third American Chestnut (Castanea dentata) remnant near the large oak visible from the back deck looking NW. Also near the oak is what looks like a grape vine run wild. Very long, meandering, but no fruit. Probably not enough sun, or it was never pollinated.

Last night I also confirmed presence of what appears to be Shagbark Hickory (Carya ovata) and Black Oak (Quercus velutina). There is also a good variety of fungi. Probable identification of Turkeytail (Coriolus versicolor) ~~and~~ on several fallen logs or branches and Beefsteak (Fistulina hepatica) in the crook of a Black Oak near our front door.

28 Sept.

1330 Harkney Hill Rd. Coventry, RI 02816

~1000 AM. Sunny, few clouds. Some breeze 5-10 mph, occasionally stronger.

22°C.

Last night we had rain and strong winds left over from hurricane Isidore. Birds nearly silent; profoundly quiet. Survey to find more species. Found four more Castanea d. for a total of seven so far. #4 was just E. of the driveway about 20'

S. Greaves
2002
23 Sept.

Locality Journal

1

Date

Time

Sp. name

1330 Harkney Hill Rd. Coventry, RI 02816

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page number

common name

narrative



Species account requirements

Must record a list of **5** bird, mammal, and/or invertebrate species observed during the field trips.

Must annotate the species account with location (GPS coordinates and vegetation type), date, time, number observed, and general description.

A Photo or drawing of the species must be included in your account

Species account requirements

Name
Year

Pg. #

Common name (scientific name)

•

##-Month

Locality

Description

Name
Year

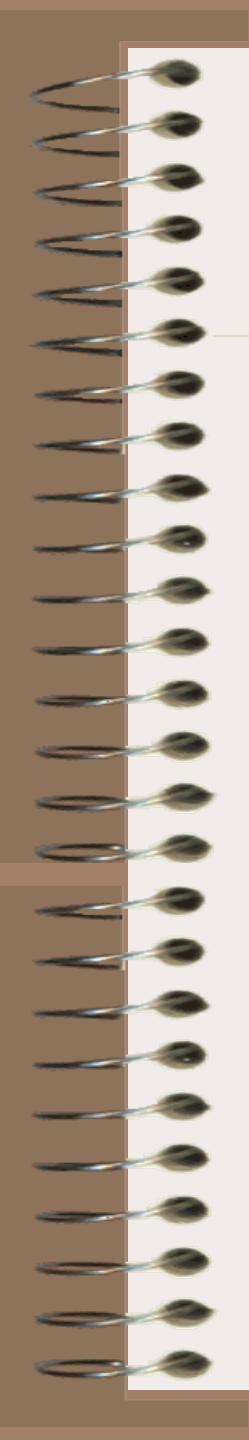
Pg. #

Common name (scientific name)



04/15/2012

##-Month-Year



Species catalog requirements

List all species you wrote about in your journal (scientific names underlined).

Include page number(s) where it is found in journal.

Species catalog requirements

Name Year	Pg. #
● Phlyum Chordata	
Class Mammalia	
Family Echimyidae	
Genus <u>Proechimys</u>	
Species <u>P. semispinosus</u> (pg. #)	
Species <u>P. cuvieri</u> (pg. #)	
Genus <u>Hoplomys</u>	
Species <u>H. gymnurus</u> (pg. #)	
● Family Sciuridae	
Genus <u>Sciurus</u>	
Species <u>S. granatensis</u> (pg. #)	
Phlyum Ascomycota	
Class Eurotiomycetes	
Family Arecaceae	
Genus <u>Astrocaryum</u>	
Species <u>A. standleyanum</u> (pg. #)	