

# Ecology 1

- send answer to iClicker Question 29A now.

- overview

- climate

- Populations I

- Gypsy Moth Intro.

- iClicker Question 29B

Biology Honors Society  
application deadline is monday  
\*info in bio office  
w-3-021

- Due in lab next week:

⇒ Pre-lab for Animal Behavior (Lab Manual p 127 & on-line)

⇒ Animal Diversity Lab Report

Exam 3 Monday - details in Ecology I handout

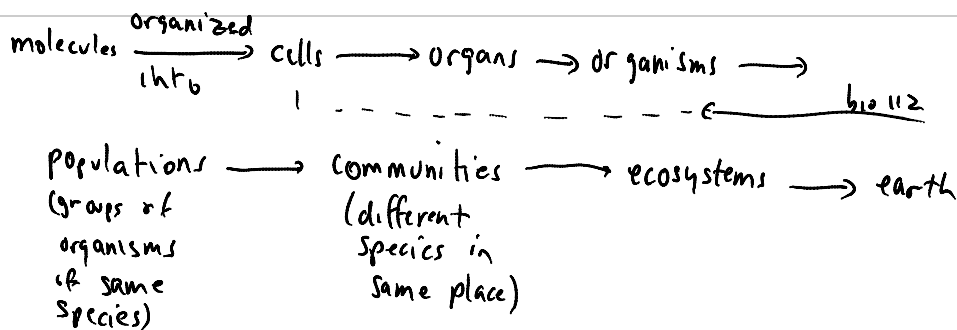
- Last names A - G in McCormack Cafe

- Last names H - Z here (1 bonus point for going to correct place!)

Final Exam Wednesday 5/19 11<sup>30</sup> - 2<sup>30</sup> here (info in Ecology 5)  
(same rooms as usual)

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Ecology - study of organisms & their environment



Bio 112 covers

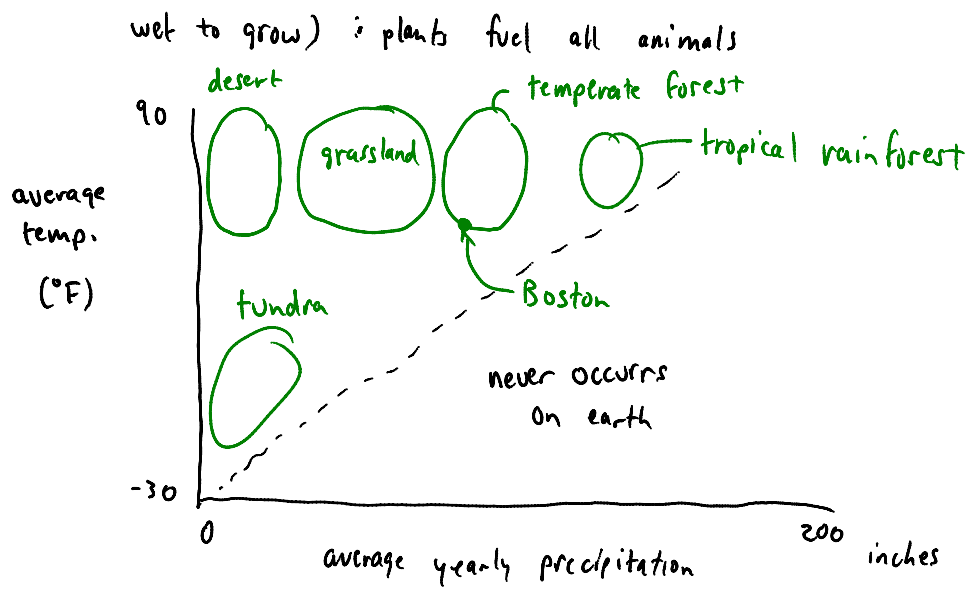
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climate = major factors in environment

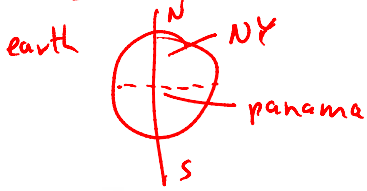
\* precipitation = rain + (melted) snow

\* temperature

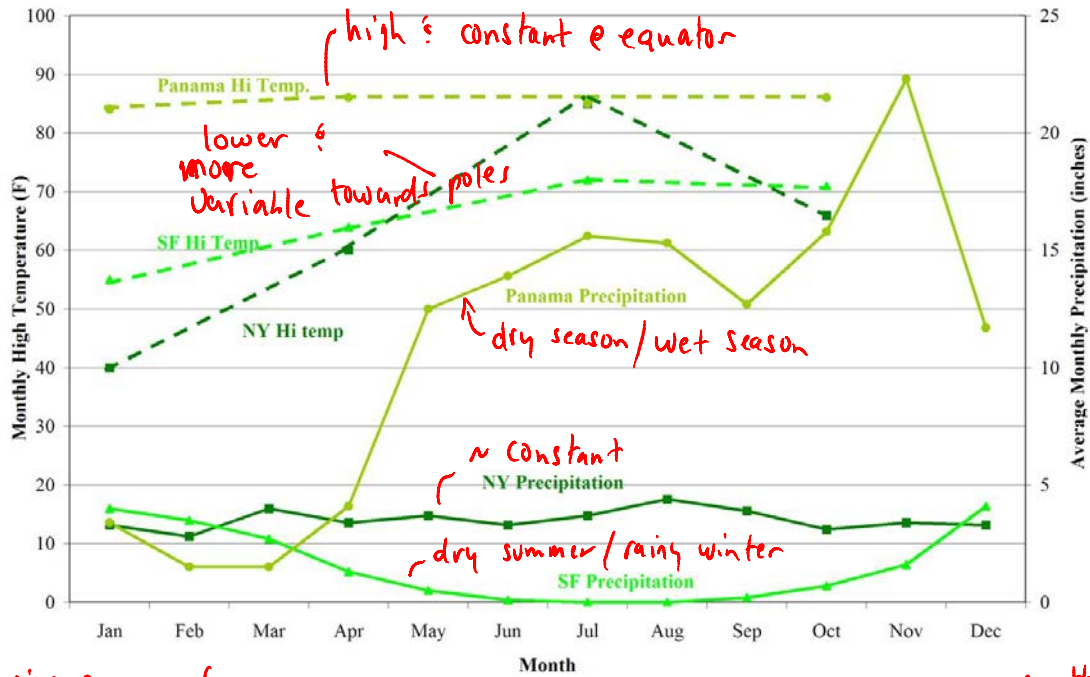
important because they control plant growth (~ plants need warm &



geographically (very roughly)



## Precipitation & Temperature



growing seasons (~ warm & wet)

"tropical"

months/yr

Panama

10-12/12

NY

"temperate"

~ 6/12

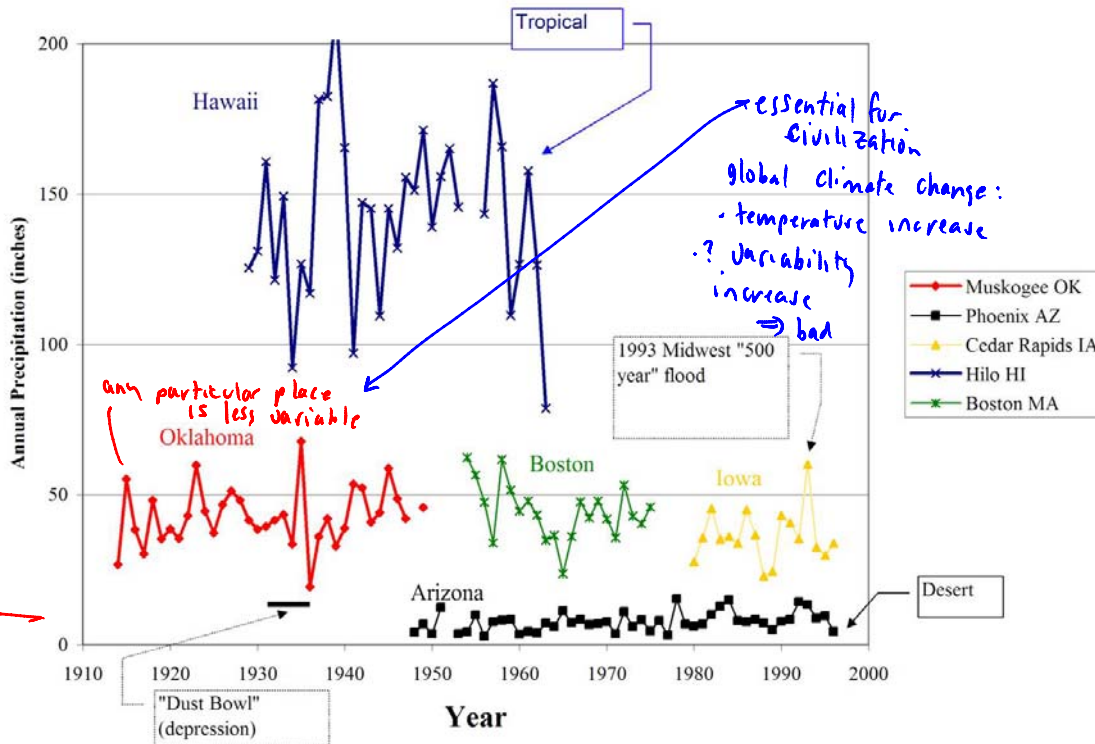
SF

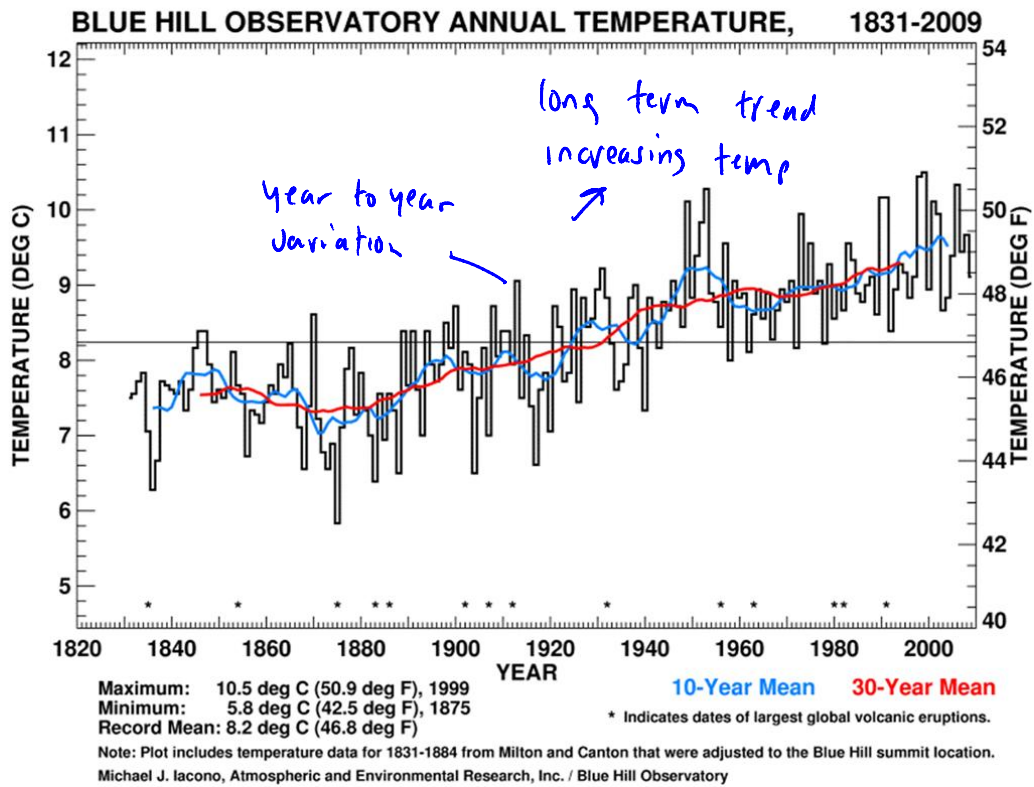
"mediterranean"

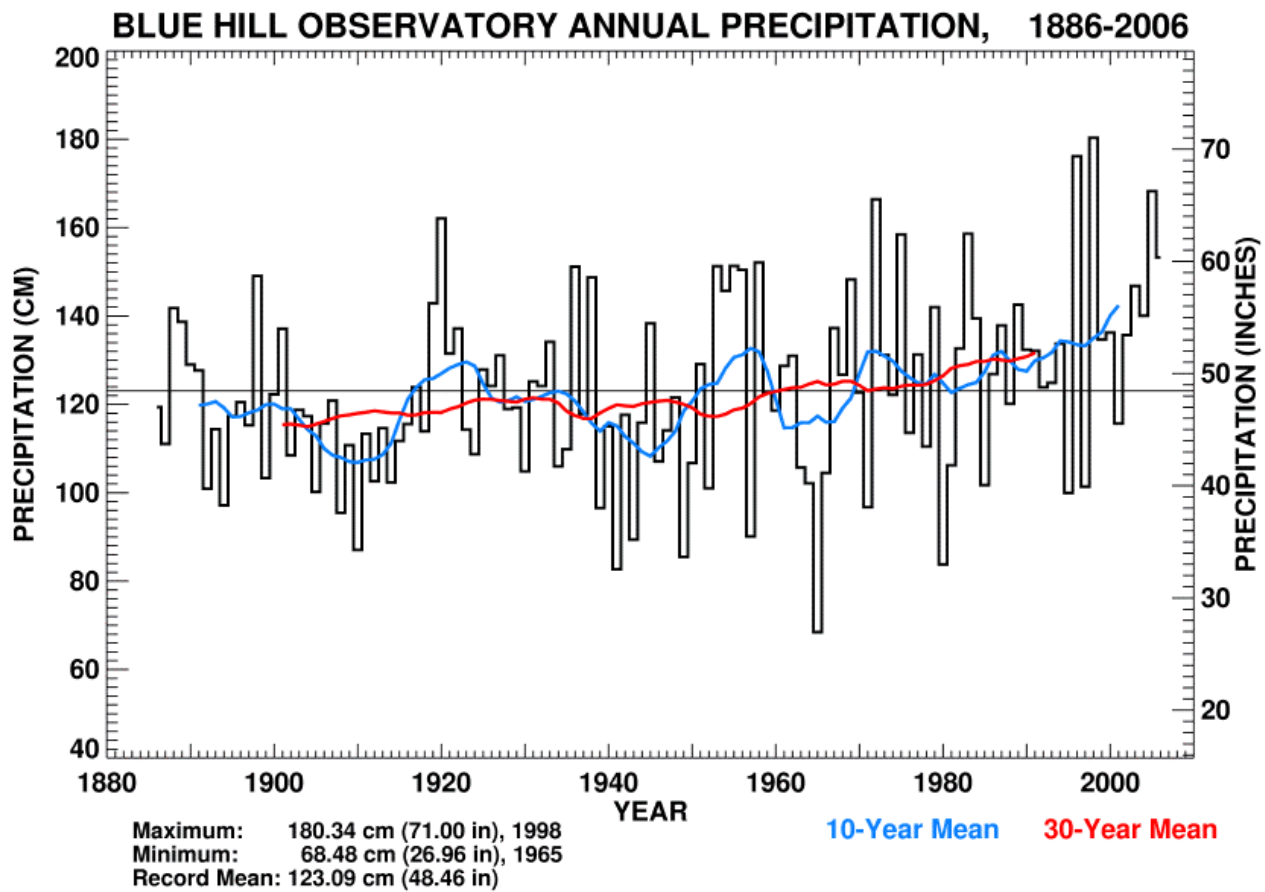
~ 4/12

possible range on earth

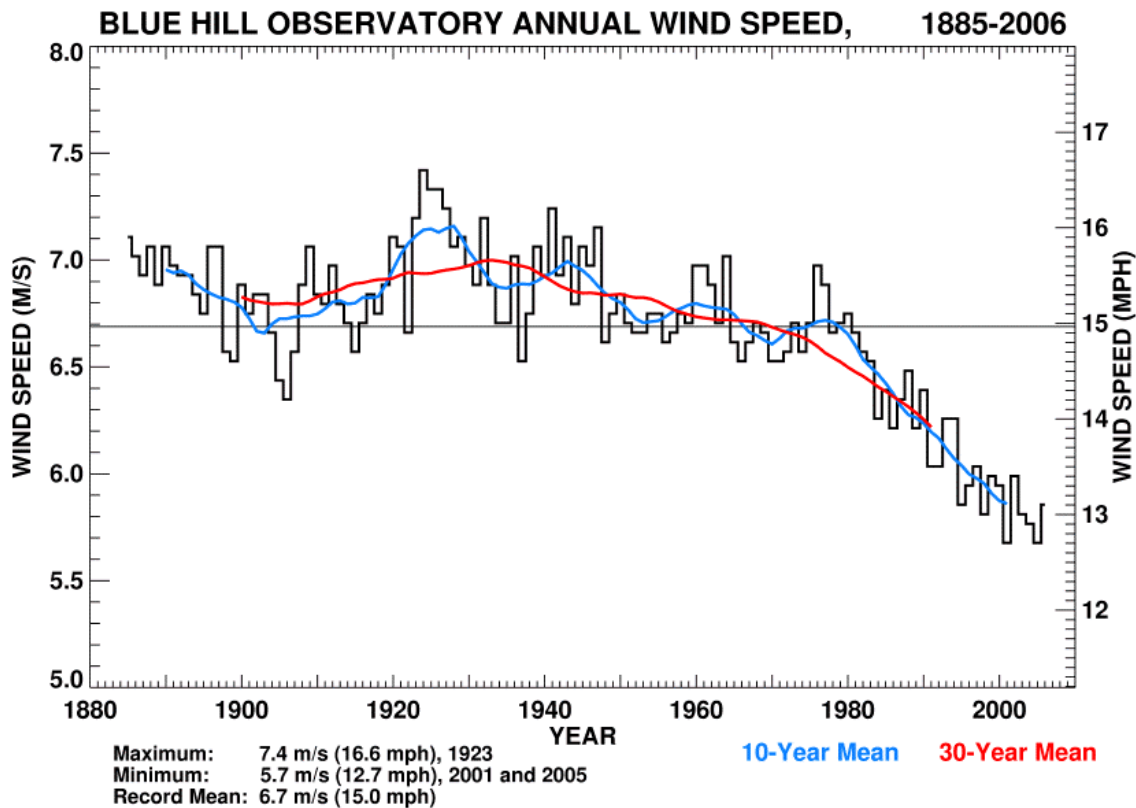
# Annual Precipitation in selected US cities







Michael J. Iacono, Atmospheric and Environmental Research, Inc. / Blue Hill Observatory



Michael J. Iacono, Atmospheric and Environmental Research, Inc. / Blue Hill Observatory

Populations = organisms of same species in same area

population size = # of organisms

density =  $\frac{\# \text{ of organisms}}{\text{area}}$

ex. Gypsy moth (*Lymantria dispar*) phylum arthropoda

life history: May - eggs hatch → caterpillars eat tree leaves

June-July: larvae → pupae  $\frac{7-10}{\text{days}}$  → adults

July-Aug: adults mate, lay eggs & die

\* not native - imported in 1865 to Medford MA

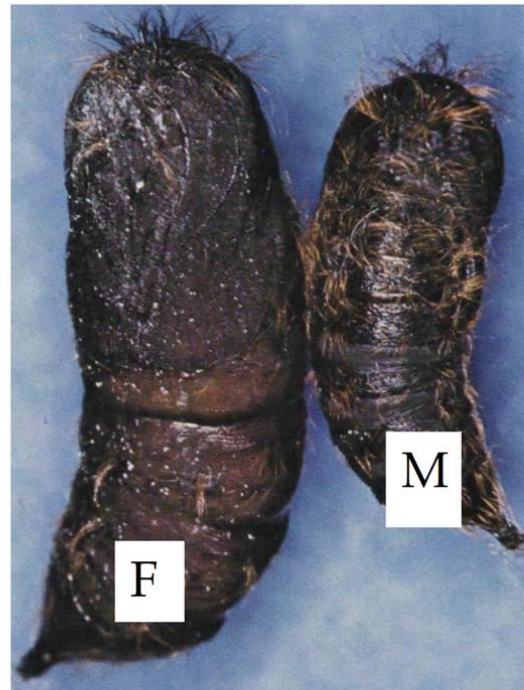


# Gypsy Moth

Caterpillar



Pupae



Female Moth



Male Moth

