

Daily Routine

- Sit in your appropriate seat quietly
- Have all necessary materials out
- All back packs on the floor
- All cell phones on silent and away in backpacks
- All music devices off and headphones out of your ears
- No food or drink except for water



Bell Work

 What are the four factors that affect climate for an area?

 Choose one of the four factors and explain how it impacts climate?



Earth Science Announcements

District Common Assessment Dec 15

Course Final Dec 18th -19th

Climate



Is climate change real?



Finish Yesterday's Climate Graph Lab

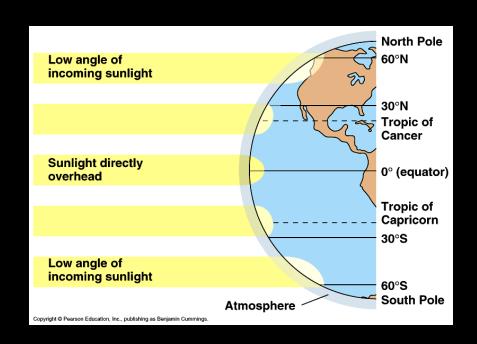
- Complete the graphs
- Answer all questions
- Make sure to answer the last question...question 9...in three thorough sentences on another sheet of paper



Factors Affecting Climate

4. Latitude

- Affected by Earth's axis tilt which creates seasons
- Close to equator = more direct intense sunlight
- Poles = less direct diffused sunlight
- About 12 hour days around equator
- Variable as you get away from the equator



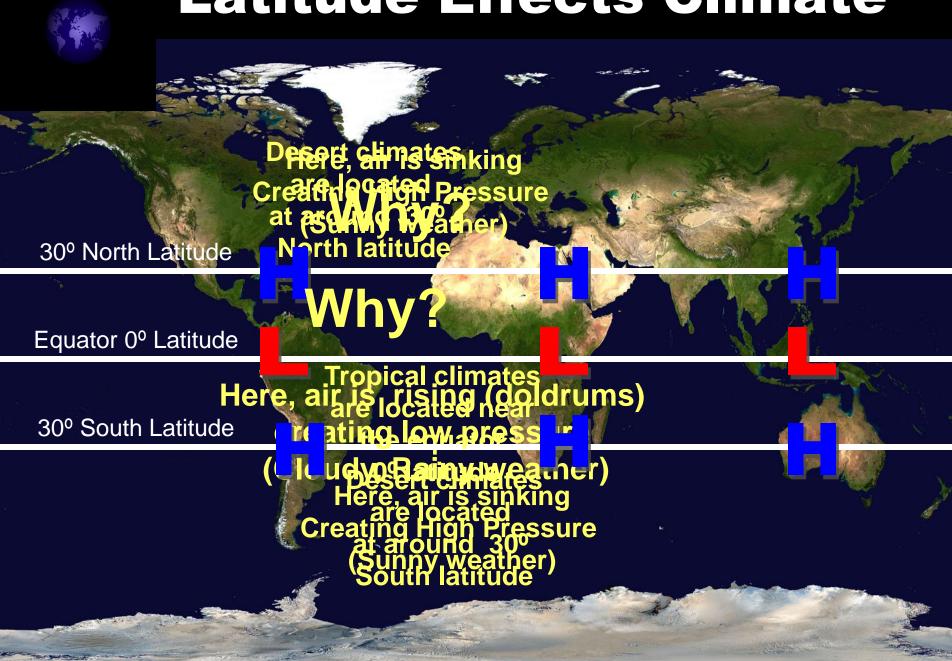


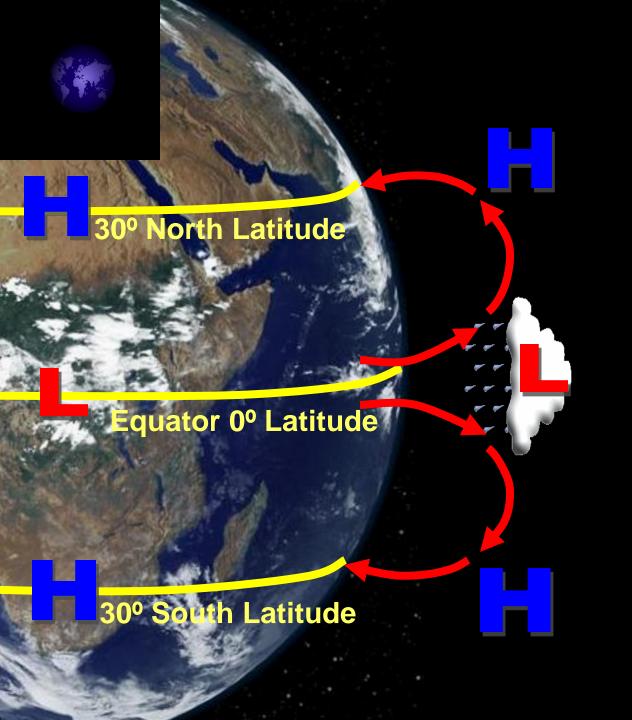
Latitude Affects Climate

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Latitude Effects Climate





Warm Humid Tropical air Rises at the Doldrums Oo latitude -- Equator

Whenever air rises, clouds form and we Get precipitation

Low Pressure

Here we get tropical rainforests

Air sinks at 30°
Latitude creating sunny
High Pressure

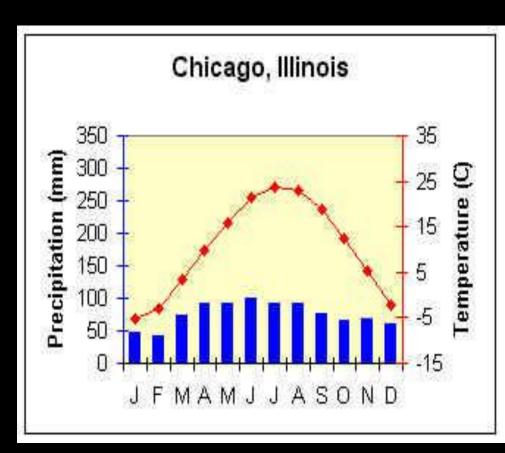
Here we get Deserts



Continental Climates

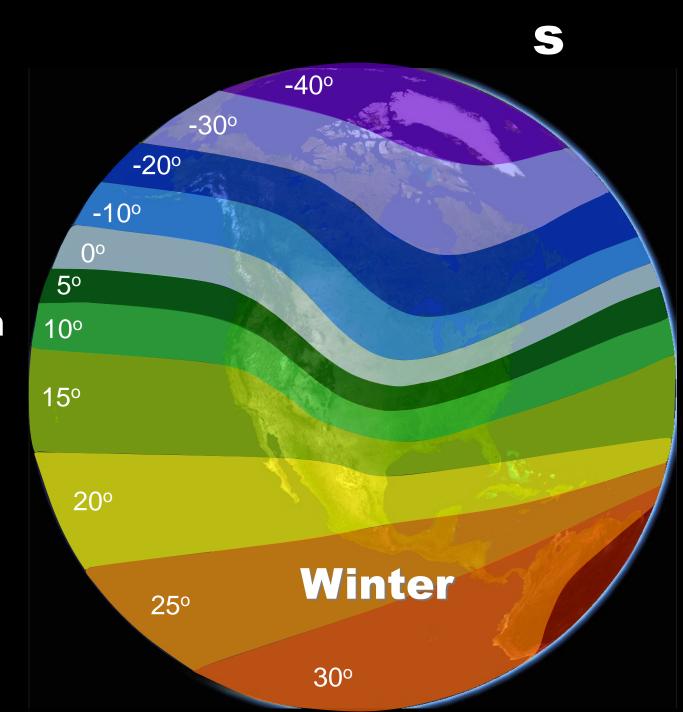
- Cities which are located in the middle of continents experience freezing winters and hot summers
- Therefore, cities like Chicago experience dramatic temperature fluctuations over the coarse of a year:

Hot summers and Cold winters

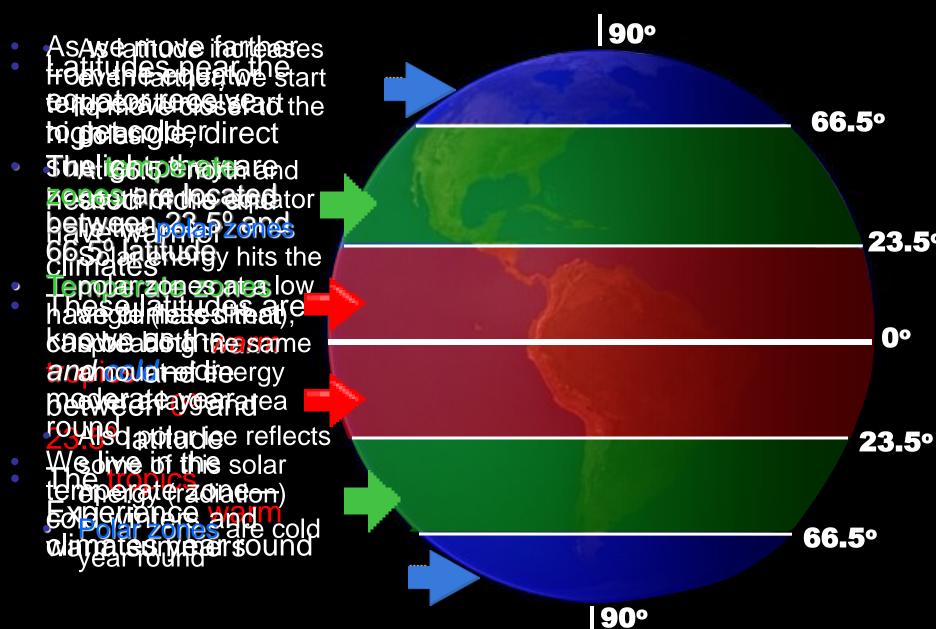




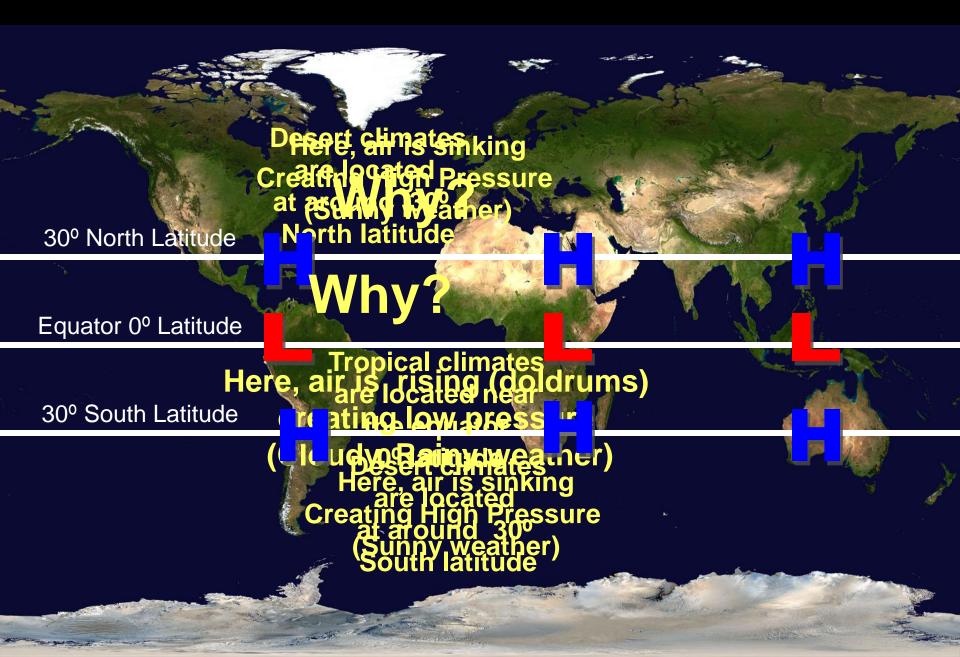
- Observe the behavior of temperatures as they cross over the North American Continent
- How do temperatures increase or decrease as they cross a continent???

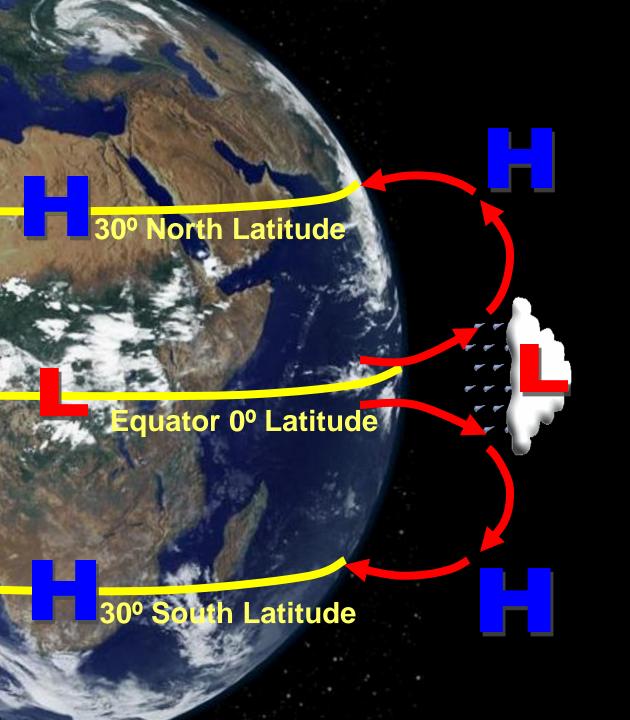


Latitude Affects Climate



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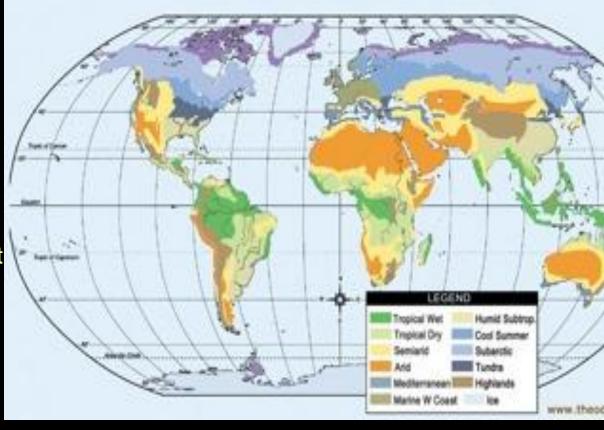
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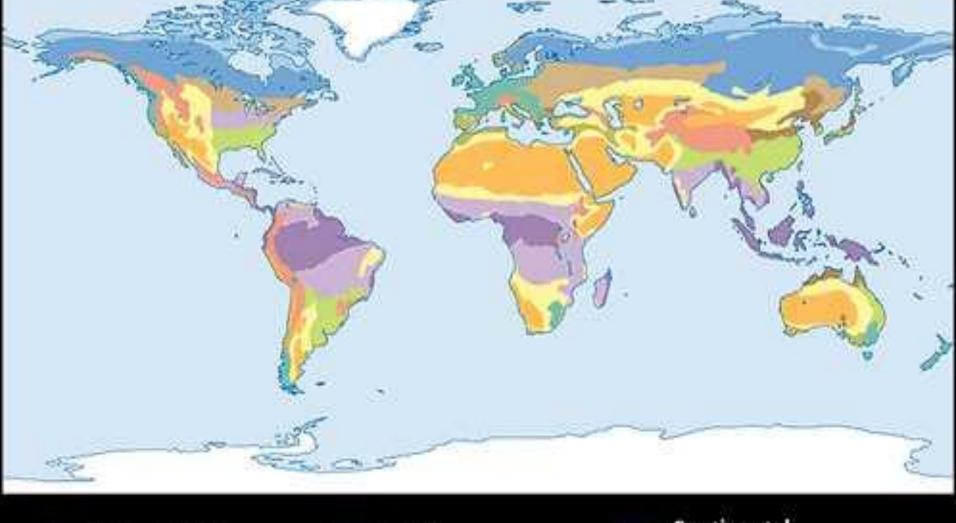
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Climate Classification

- How should we classify climates?
- As it turns out, climates are classified by temperature and precipitation (how hot or wet a place is)
- There are 5 major climate types:



 Climate types include: Tropical Climates, Temperate or Moderate Climates, Arid Dry Climates, Continental Climates, and Polar Climates





Arid Continental Cool summer Mountain Ice cap



Climate Mapping Lab

12/12/2014



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Bell Work

 What type of winters and summers do continental areas experience?

 Why do deserts form at 30 degrees N and S of the Equator?



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Finish Yesterday's Climate Map Lab

- Complete the graphs
- Answer all questions
- Turn in work in the front
- You have 10 minutes to finish this assignment



Climate Lab

12/12/2014