NAME:_____ DATE:_____ CLASS:_____

MY NASA DATA: The Reason for the Seasons

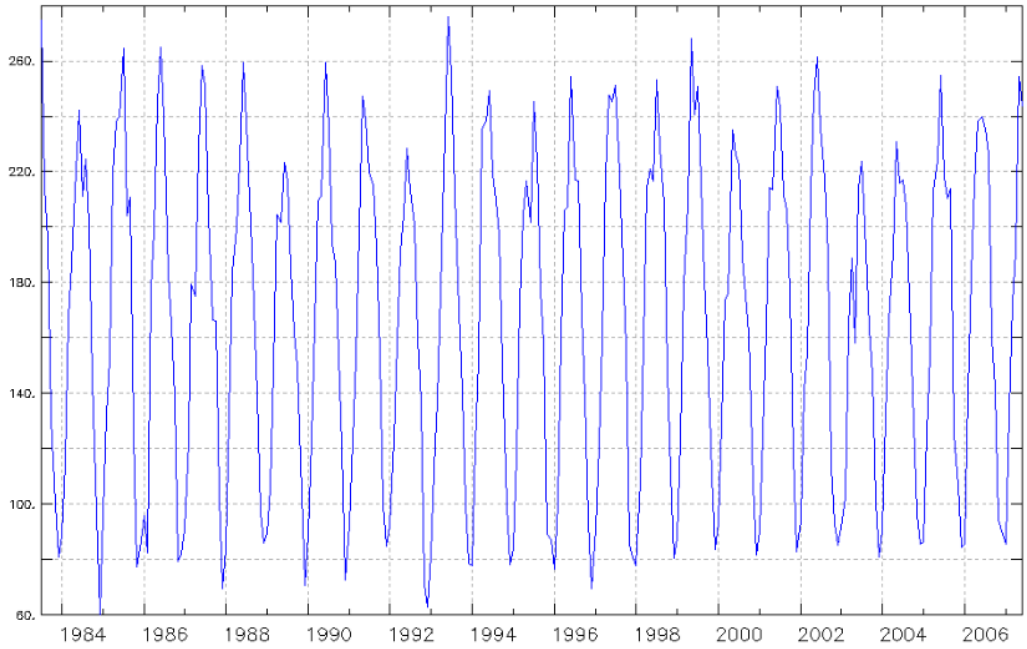
http://mynasadata.larc.nasa.gov/?page_id=474?&passid=12

Part 1: Select one of the following locations and examine the line plots given for your location. Answer the questions at the end of the packet based on the line plots for your location. (Locations: Alexandria, VA, San Diego, CA, St Louis, MS)

Location 1: Alexandria, VA

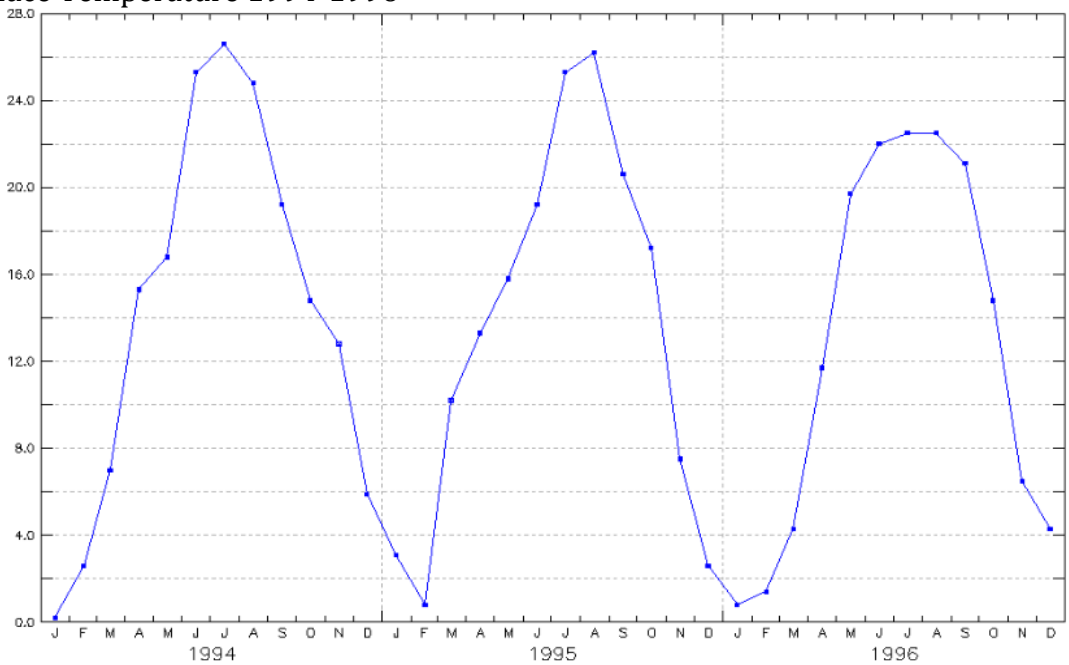
Monthly Surface All-sly SW Downward Flux (SRB)

Surface Radiation 1984-2006



Monthly Surface Clear-Sky Temperature (ISCCP) Celsius

Surface Temperature 1994-1996



NAME:_____ DATE:_____ CLASS:_____

MY NASA DATA: The Reason for the Seasons

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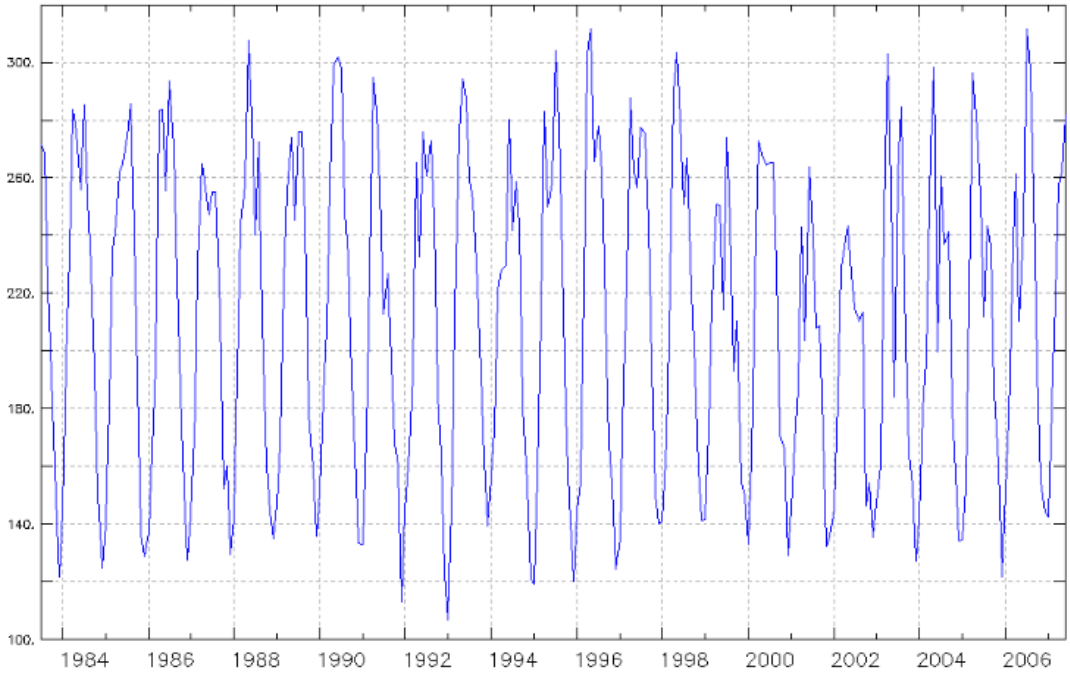
Location 2: San Diego, CA

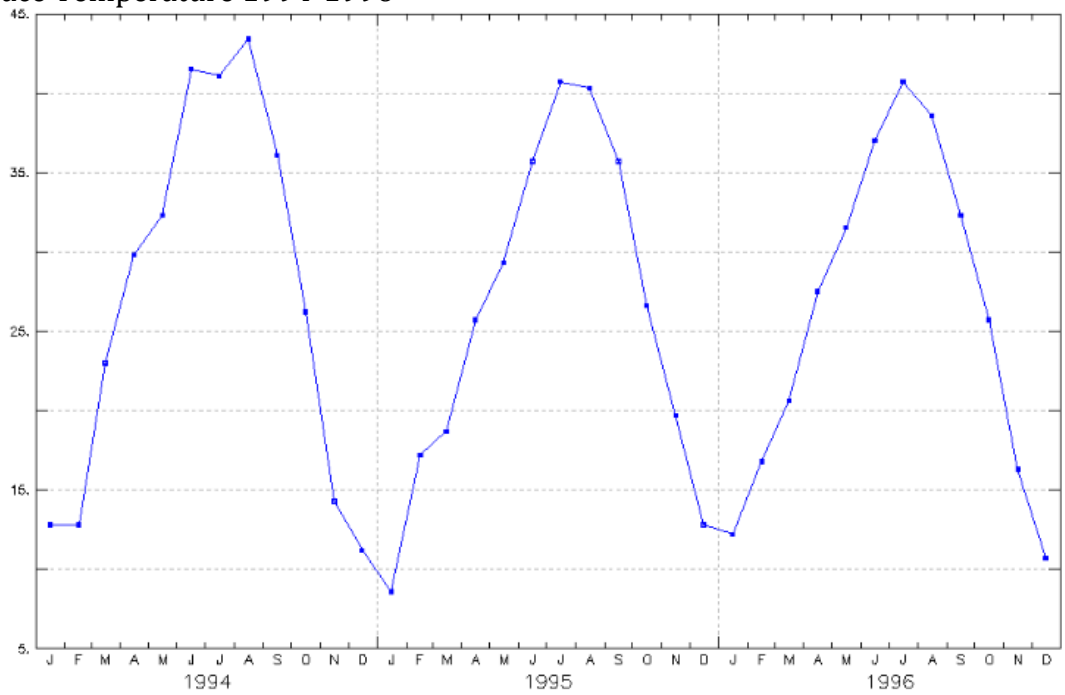
Monthly Surface All-sky SW Downward Flux (SRB)

Surface Radiation 1984-2006



Monthly Surface Clear-Sky Temperature (ISCCP) Celsius

Surface Temperature 1994-1996



NAME:_____ DATE:_____ CLASS:_____

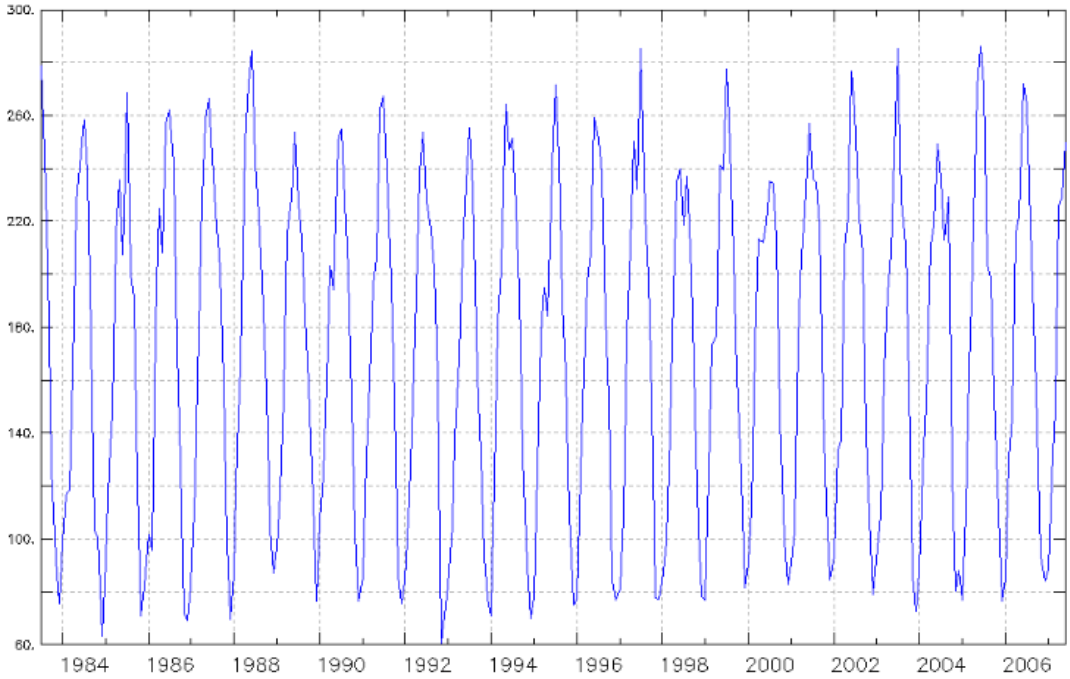
MY NASA DATA: The Reason for the Seasons

http://mynasadata.larc.nasa.gov/?page_id=474?&passid=12

Location 3: St Louis, MS

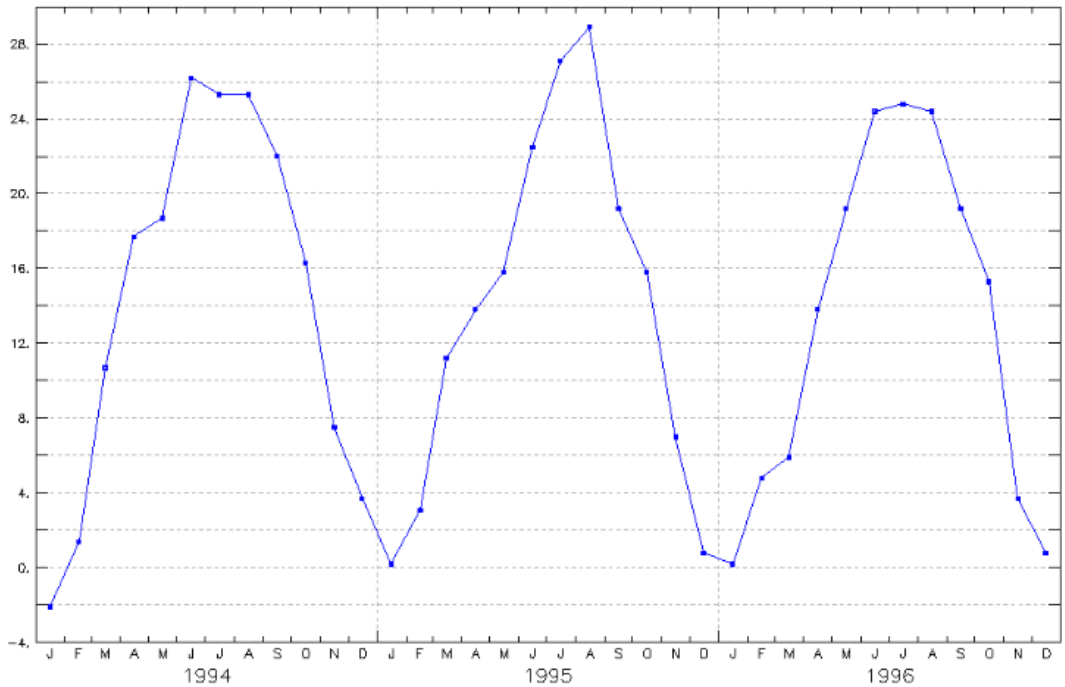
Monthly Surface All-sky SW Downward Flux (SRB)

Surface Radiation 1984-2006



Monthly Surface Clear-sky Temperature (ISCCP) Celsius

Surface Temperature 1994-1996



NAME:_____ DATE:_____ CLASS:_____

MY NASA DATA: The Reason for the Seasons

http://mynasadata.larc.nasa.gov/?page_id=474?&passid=12

Instructions and Questions:

Prepare a class presentation in PowerPoint to show your graphs for the location you selected. Include answers to the questions below.

1. What is the correlation between peaks in temperature and radiation for your region? Estimate from each peak and organize into a data table.
2. How do you explain the correlation or lack thereof?
3. Does correlation necessarily mean cause and effect?
4. Is the same correlation present for every geographic location represented in the class presentations?
5. What is the reason for the seasons?