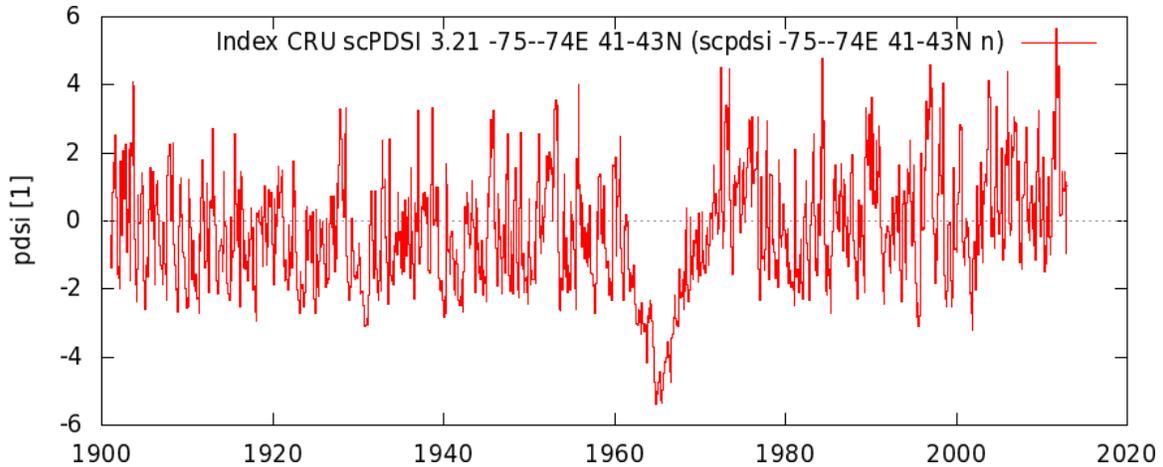


Sample Student Work for PART 3 and Instructor Notes

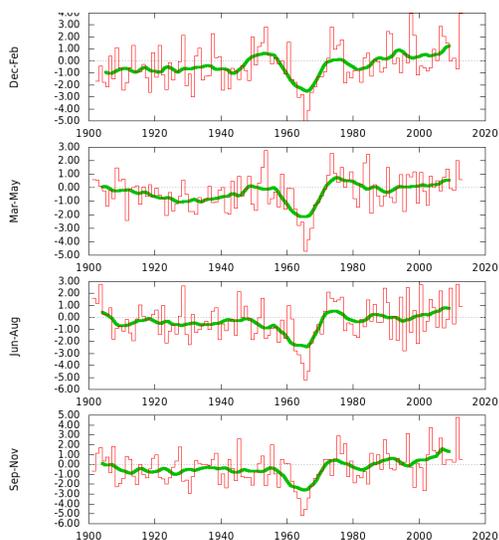
A. TIME SERIES GRAPH



Students should note that there is:

- i. A lot of year-to-year variation.
- ii. A major drought that occurred in 1965/1966.
- iii. Students can note the ranges and extremes.
- iv. It is a bit hard to see, but the mean is higher in recent years (1990s) compared to earlier years (1920s). This will be clearer in the next section when students look at seasonal data.

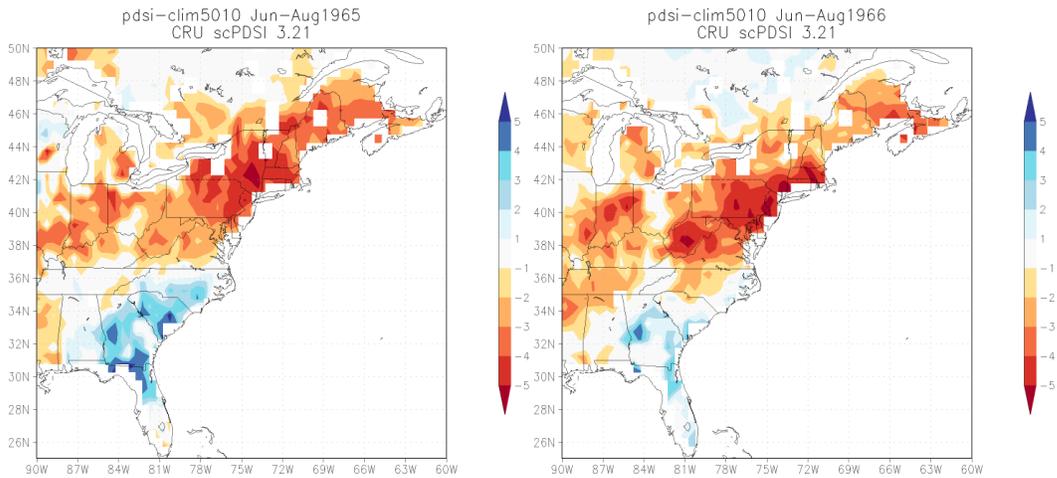
B. SEASONAL DATA



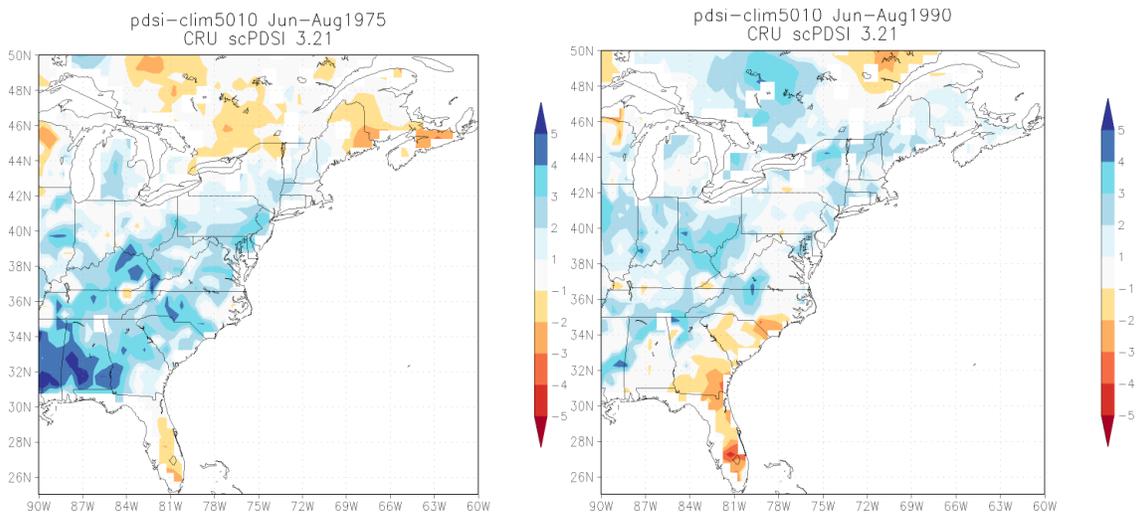
The main trends to take note of are:

- 1) The mid 1960s droughts that occurred in all seasons
- 2) A general increasing trend since the 1980s, meaning that the northeast is generally getting wetter.
- 3) General year-to-year variations.
- 4) Note that the Y-axis varies from season-to-season, and that the majority of rainfall occurs from March to May. This can be verified with Climate Explorer data in Part 3.

C. GRAPHS OF WET AND DRY YEARS



The summer precipitations anomaly maps above show the severity and extent of the drought in the Hudson Valley NY and surrounding region. 1965 and 1966 were extreme events that affected many people over very large spatial areas.



The years 1975 and 1990 are very wide rings and the corresponding drought maps show up as very wet years in the Hudson Valley, NY and surrounding region.

