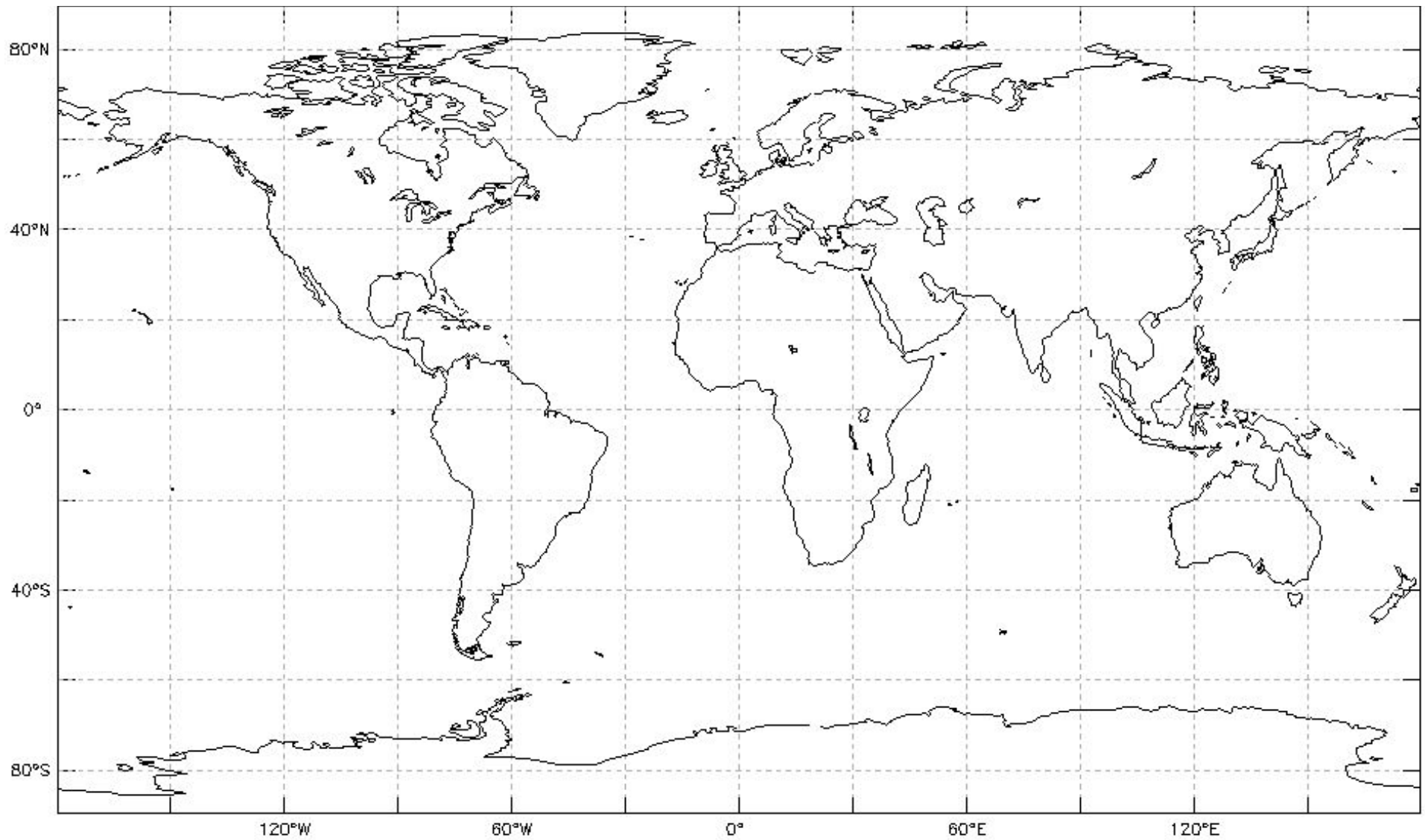Name/s:

Date: Period:

Part 1. <u>Directions</u>: Use the blank map and coloring pencils provided to document areas of activity and/or change.
Note: You should use a different color pencil for each of the six different time periods. Be sure to complete the key
identifying the color to the time in the space to the right.

Key:

my NASA data

Name/s:

Date: Period:

Part 2. Directions: Analyze your mapped plots showing how your variable has changed over time and place.

Variable	
Observations	**Qualitative:** *Ex. "I see a large area showing a high concentration over Asia;" "Between March and November, the areas of greatest concentrations move from West to East; etc."* 1. 2. 3. 4. 5. **Quantitative:** *Ex. "The average concentration from May to Nov. changes from 53 to 24 in coastal Virginia;" "The largest change in concentration occurs around India during the month of July and reaches a peak of 72, etc."* 1. 2. 3. 4. 5.
Questions	*Examples. "I wonder how _____ affects _____?, Why are the values _____ on _____ part of the map? "Why does _____ (month) have the greatest change? Least amount of change?"* 1. 2. 3. 4. 5.

Name/s:

Date: Period:

Part 3. <u>Directions:</u> Work with your teammate to analyze your two science variables. Compare these variables and your key findings from Part 1; document your findings in the Table A below.

Table A. Group Observations

Qualitative:
Quantitative:

Table B. Research Questions

Question Type:	**Create Your Own Questions:**
Descriptive Questions: (describe the variables you are measuring) 1. How many _____ are in an area? 2. How frequently does _____ happen? 3. What is the temperature, height, …. of _____ ? 4. When does _____ happen during the year? 5. Where does _____ happen during the year?	
Comparative Questions: (examine the differences between two or more groups on one or more dependent variables) 1. How does _____ between latitude ____ and latitude ____ differ? Longitude ____ and longitude ____? 2. How do values at different <u>landforms</u> differ? 3. How do values between _____ and _____ differ at various times?	
Correlative Questions (analyze the causal relationships, associations, trends and/or interactions amongst two or more variables on one or more groups) 1. What is the relationship between variable # and variable #2? 2. Does _____ go up when _____ goes down? 3. How does _____ change as _____ changes?	