

Name: \_\_\_\_\_

## Climate Hotspots with Google Earth Investigation Sheet

Complete the data chart below and answer all questions in complete sentences.

1. Analyze the land cover differences between each glacier image pair in Google Earth and complete the chart below.

Climate Hotspot Name	Left Picture Year	Right Picture Year	Total # of Years Between Land Cover Differences
Whitechuck Glacier			
Grinnell Glacier			
Northwestern Glacier			

2. What pattern did you observe in these three glacier “hotspot” locations? That is, what differences did you observe between the past and more recent images at these glacier locations?
3. Examine the Polar Bear Range “hotspot” location. What differences do you observe between the past (blue color) and present (red color) habitat ranges? Note that the red color is overlaid on top of the blue color.
4. Examine the Pika Range “hotspot” location. How has the average pika habitat latitude (location north or south) changed over time between 1900 and 2010?
5. Based on the evidence you have observed in your exploration, what do you think might be causing these changes in the glaciers and habitat ranges? Please record your answer below in complete sentences.