**A guided inquiry – Three months in the life of a volcano – Student worksheet**

**IN PROGRESS**

You have been provided with a set of graphs recorded from volcano monitoring stations on Kilauea during the June 1, 2007 through August 30, 2007 time frame. Maps showing the locations of each of the monitoring stations are also provided.

The graphs include the following:

* Tilt data from June 1 – August 30, 2007
* GPS data from June 1 – August 30, 2007
* RSAM (seismic data) for June 2007
* RSAM (seismic data) for July 2007
* RSAM (seismic data) for July 19 – July 25, 2007

**Small Group Work -** Examine the data provided to your group and discuss/answer each of the following questions.

*Based on your knowledge of volcanic monitoring instrumentation, what is the data showing in each of the graphs? Summarize each in a sentence or two.*

*Are there any specific events that are evident in your graph? Describe what evidence you have observed and provide the dates for each of these events.*

*As a group, can you determine if the events observed in one graph correlate to events seen in any of the other graphs? Describe the correlations (if any)that you see.*

*What possible geologic mechanisms do you suppose are responsible for the trends and correlations that you observe?*

*What other kinds of information (in addition to the graphs provided) would you require to determine what geologic mechanism is responsible for your geologic observations? Where do you suppose you would acquire this information?*

**Classroom discussion**

*What have we learned so far?*

*What do we need to know to proceed and test your hypotheses?*

*Make a list of other information that might be available for use.*

*Where can we access this information?*

Once we have ideas for accessing the above resources, we will work on gathering information to further refine your hypotheses. We will discuss, as a group, all of the available information and concisely summarize our conclusions.

**Individual Assignment**

*Write a paragraph that takes into account all of the information (graphs, ancillary materials) and describe what important events (if any) happened on Kilauea during the June – August 2007 time period.*