**Map Analysis Worksheet Teacher Answer Key**

* Access the National Gap Analysis Program (GAP) Protected Areas Data Viewer.

<http://gis1.usgs.gov/csas/gap/viewer/padus/Map.aspx>

* Click and drag to move to the Hawaiian Islands on the map. Notice its isolated location from all other landmasses. Center the Hawaiian Islands on the map.
* Use the zoom gauge in the upper left area to zoom in and center Maui on the map. Zoom in about half way so that you can view the entire island of Maui.
* Be sure that under the “Build a Map” area on the left:

“Select a Protected Land View” is on “By Owner” (you can also adjust the transparency)

“Select a Base Map” is on “Basic Reference”

1. What is the name of your nearest National Park Service (NPS) site? (Hint: click on it for more

Information.) \_\_\_\_Haleakalā National Park\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. What is the “Ownership Type”? \_\_\_\_\_\_\_Federal\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. What is its “Gap Status”? \_ 2 – Managed for biodiversity - Disturbance events suppressed\_\_\_

4. What is the “Designation type” of this area? (Hint: there are 2, click on a few different areas)

\_\_Wilderness Area and National Park \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. What is the size in acres of each of these protected areas?

\_\_\_\_\_Wilderness = 17,141 \_\_\_\_\_\_\_\_\_\_\_\_ National Park = 12,122\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Scroll down to the bottom of the “build a map” area.
* Under “Select a Base Map” choose “USGS Topographic”
* Zoom in further on Haleakalā National Park. (Hint: Use the toggle on Ownership transparency to see elevation)

6. What is the highest elevation you can find within the park? \_\_\_10,023 feet\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. What is the Hawaiian Name of this location? \_\_\_\_\_Puʻuʻulaʻula\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. What is the lowest elevation found within the park? \_\_0 feet or sea level\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Predict what effect the elevation would have on the biodiversity found in the park. Why?

\_\_\_\_\_\_There would be great biodiversity because of the great range of elevation! \_\_\_\_\_\_\_\_\_\_