Guidelines for final report to be handed in for grading.

1. Introduction: 1 or 2 paragraphs describing access to the area (i.e. how you get there), what the vegetation and climate are like, what topographic quadrangle the area is on.

2. Overview of geological history of the region (use regional references)

3. Stratigraphy: 1 paragraph on each of your major map units (those that are in different colors on your map). Discuss the relative ages of the units and mention any that are lateral equivalents of each other. Discuss any problems that you feel still remain with correlating the stratigraphic units or placing them in stratigraphic order. The stratigraphic units should correspond to the units you have on your map, so they may not be exactly the same for each of the students in the class. For each unit, discuss how you identify it, what its major characteristics are, and if it is conformable or unconformable with respect to the units above and below it. Refer to a figure that represents a stratigraphic column of your map area. If a map unit has a thin section that was available to you, it may be worth commenting on any notable features seen in the thin section.

Include in the stratigraphy your petrographic descriptions of two of the class thin sections. (Don’t use the same thin sections as anybody else is using.)

4. Structure: discuss the major structures you mapped (faults or folds) and their relative ages. Discuss growth faulting or progressive tilting of any of the sequences. Discuss any quantitative observations on the offsets on major faults. Discuss any significant unconformities that you found in the area and what might have caused them.

5. Detailed geological history: use the results of #3 and #4 to summarize specifically the major events, including deposition, volcanism, intrusion, faulting, and tilting, in the geological history of your map area. For example, you may want to include an overview of the stratigraphic sequence in terms of what it implies for the paleogeography of the region or the overall structural evolution you interpret for the area.

6. Conclusions (can be short)

Figures, Tables, References as appropriate

Figures to include in the report (although not necessarily in this order):

- Original field map
- Final version of map, showing strikes/dips etc., with units colored in and labeled to correspond to your stratigraphic column
- Stratigraphic column

11/25/2009
• Cross sections of area (lines A and B on map below, through the Castle and the Ship, respectively). If you do not have data along the entire line, draw all of the topography, but then you can just leave part of the geology blank. Draw these at a 1:1 scale, with no vertical exaggeration. I will email you the shape files for the cross section lines.

• Any other figures of interest, such as ASTER image, regional fault map, whatever you think is relevant to your discussion.

• Description of two of the thin sections

Here is the map with the cross sections: