

**Ge121a. Fall 2011. Guidelines for final report.
to be handed in for grading by the end of the term (Dec. 9th)**

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 (you can use references listed on class web site)
3. Stratigraphy: 1 paragraph on each of your major map units (those that are in different colors on your final map; for some of you this means that you will have to group many small map units together). Discuss any problems that you feel still remain with correlating the stratigraphic units or placing them in chronologic order. The stratigraphic units should correspond to the units you have on your map, so they may be different for each student. For each unit, explain 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 maps, strat column and cross sections as appropriate.)

Include in the stratigraphy your petrographic descriptions of the two class thin sections that you chose to describe. (These can be one paragraph each.)
4. Structure: discuss the major structures you mapped (faults, folds, dikes, joints) and their relative ages. Discuss growth faulting or progressive tilting of any of the sequences. Discuss any quantitative observations on the offsets on important faults, or kinematic conclusions from minor structures. Discuss any significant unconformities that you found in the area and what might have caused them.
5. 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, the existence of prior bodies of water in the region, or the overall structural evolution you interpret for the area.
6. Conclusions (can be short)

Figures, Tables, References as appropriate

Things to hand in with your report

- Original field map (paper copy)
- Final version of map, showing strikes/dips etc., with units colored in and labeled to correspond to your stratigraphic column. You can make this with ArcGIS or hand draft it, as you prefer
- Stratigraphic column

- Cross sections of area (the area you covered from any two of the lines on map below; except that you should not use BOTH C-B and A'-A"). 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 the same horizontal scale as the final map you submit, with no vertical exaggeration.
- Description of two of the thin sections
- Digital copy of your Excel spreadsheet with all of your observations from the 3 field weekends (categories on the spread sheet you received earlier)

Here is the map with the cross sections:

