Problem 2 Hints

You may or may not have noticed that there is missing data. You will need to change Arlequin’s default setting of allowing 5% missing data to allow 10% missing data. Otherwise, your results will only be based on 2 out of the 6 loci. You can do this by going to the General Settings options under the Settings tab.

SD.TAP in the Problem 2 handout should be MB.TAP, which is how this population is labeled in the dataset.

When running Arlequin, under the Setting tab, go to AMOVA settings. Make sure you do a “standard AMOVA” and “locus-by-locus AMOVA”. Include individual level and run the program for 5000 iterations.

Scroll through all of the results from each run and understand the different statistics. Use the correct values for the AMOVA averaged over the 6 loci.

Please include text files of your Arlequin results when you send in your answers on Friday.

There are multiple correct answers to question 2. Whatever K value you choose is the most appropriate for the data, justify your answer.