Page 1:

How does the PCA show 3 populations. Really it just seems like 2 to me, since there is virtually complete overlap between the green and red symbols.

Can you interpret the structure plot a bit more? What does this tell us about the direction of migration? Why would population 3 seem to have some migration if it is so separate on the PCA?

Page 2:

If I recolor your PCA with sampling population patterns become a bit clearer:  


There do seem to be 3 groups here, with one sample from population 3 that looks more like population 1 individuals. Maybe this indicates migration between 3 and 1? But 2 is isolated?

(This does seem to be the case in the end of your model).

Your model also has 1000 generations of no migration right at the end, so this is going to lessen the effects of any migration before that.

Good job digging deeper into some of the results there.

For mystery 2: What does the PCA look like? This data seems a bit messy to me , can you come up with a hypothesis for why the data would look this way?

For mystery3: There doesn’t seem to be much migration on this plot. Keep in mind that migration is indicated when a single bar is made up of multiple colors, all the bars are largely a single color here. The x-axis is arbitrarily sorted by the order the samples are in the file. You may need to rearrange them based on most likely population (the Sort by Q option in your screenshot).