PLSC 731: Paper Review

$\label{eq:main_equation} \begin{tabular}{ll} Matsuoka\ et\ al-A\ single\ domestication\ for\ maize\ shown\ by\ multilocus\ microsatellite\ genotyping \end{tabular}$

Questions (reference pages in parentheses)

- 1. Discuss the theories about the origins of maize and the theories that support them. (6080)
- 2. Are the genotypes used in the study appropriate for this analysis? (6080)
- 3. Is the rationale for markers selection appropriate? (6080)
- 4. Is the phylogenetic approach appropriate for this analysis? If you don't understand the approach, what information would you need to decide that it is appropriate? (6080)
- 5. Is the dating approach appropriate for this analysis? If you don't understand the approach, what information would you need to decide that it is appropriate? (6081)
- 6. What is the purpose of the population structure analysis? (6082)
- 7. What evidence supports the conclusion regarding the number of domestication events? (6082)
- 8. What value is the PCA approach in this study? (6082)
- 9. How was the location of the domestication event determined? (6083)
- 10. Why is the date of the divergence considered an upper limit? (6083)
- 11. Describe the gene flow and early diversification data and how it may conflict with previous determination of the location of the domestication event? (6083)
- 12. What pattern of distribution of maize throughout the Americas is proposed? (6084)
- 13. How would you address the paradox questions raised in the "Perspective" section? (6084)