Appendix 6



Figure 1. Species tree of the *Liolaemus darwinii* group based on 16 loci. Scale bar is in units of substitutions per site.



Figure 2. Species tree of the *Liolaemus darwinii* group based on 12 loci. Scale bar is in units of substitutions per site.



Figure 3. Species tree of the *Liolaemus darwinii* group based on 8 loci. Scale bar is in units of substitutions per site.



Figure 4. Species tree of the *Liolaemus darwinii* group based on 4 loci. Scale bar is in units of substitutions per site.



Figure 5. Accuracy (A) and precision (B) of species trees estimated from different number of loci (4, 8, 12, and 16) using the 16-loci tree as the reference for K scores. Vertical bars represent standard errors.



Figure 6. Accuracy (A) and precision (B) of species trees estimated from different number of loci (4, 8, 12, 16, and 20) using the tree estimated from phased data of 20 loci as the reference for K scores. Vertical bars represent standard errors.

Figure 7. Accuracy of species trees estimated from different number of loci (4, 8, 12, and 16) for 3 individuals and 100% of base-pairs. Vertical bars above mean values represent standard error based on 10 replicates and vertical bars below mean values are standard errors based on 5 replicates.