Additional files

In the main text of this manuscript, we showed the fitting and simulating results for Cat 1. Here, we have the adjusted BIC emission distribution comparisons, adjusted BIC across all FMM and HMM models, diurnal step lengths and autocorrelation plots for Cat 2, 14, and 15. Given we have not account for sex, we can see in that our fitting and predictions are better for male cats (Cat 1 and 2) than female cats (Cat 14, 15).
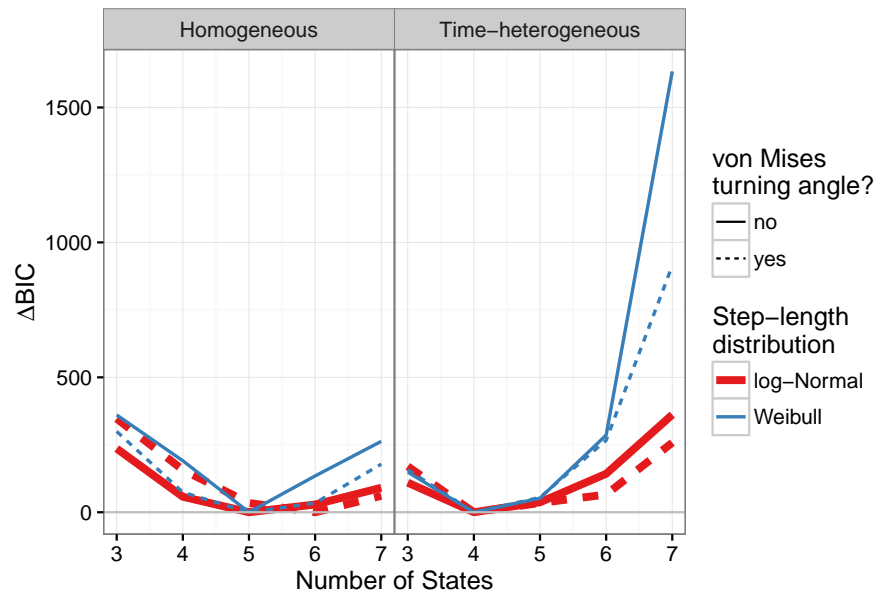
Figure 1: Adjusted BIC Emission Distribution Comparison for Cat 2
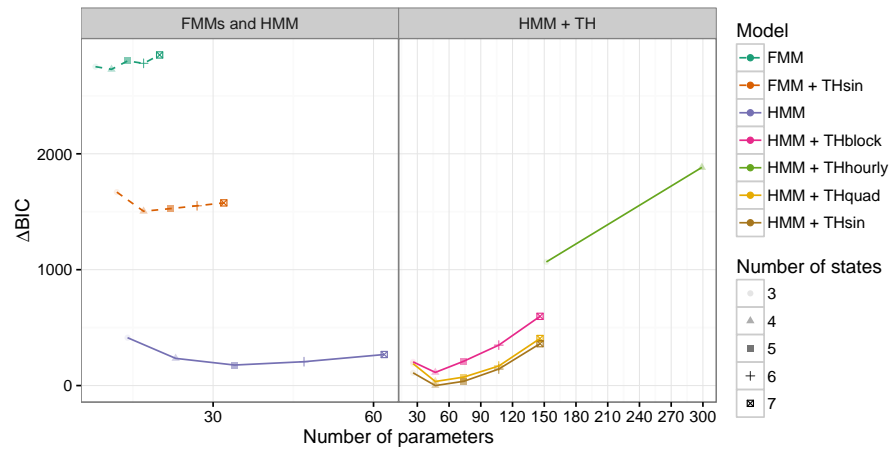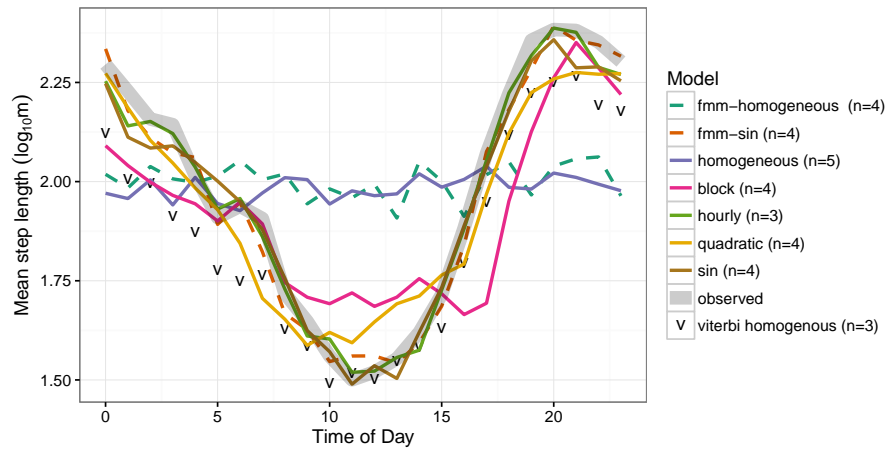
Figure 2: Adjusted BICs Across All Models for Cat 2

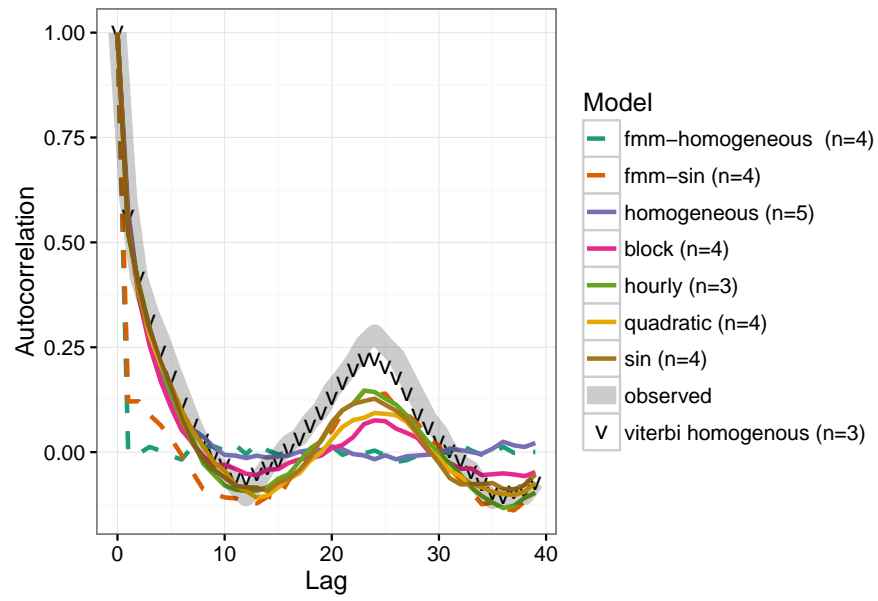Figure 3: Diurnal Step Lengths Plot for Cat 2

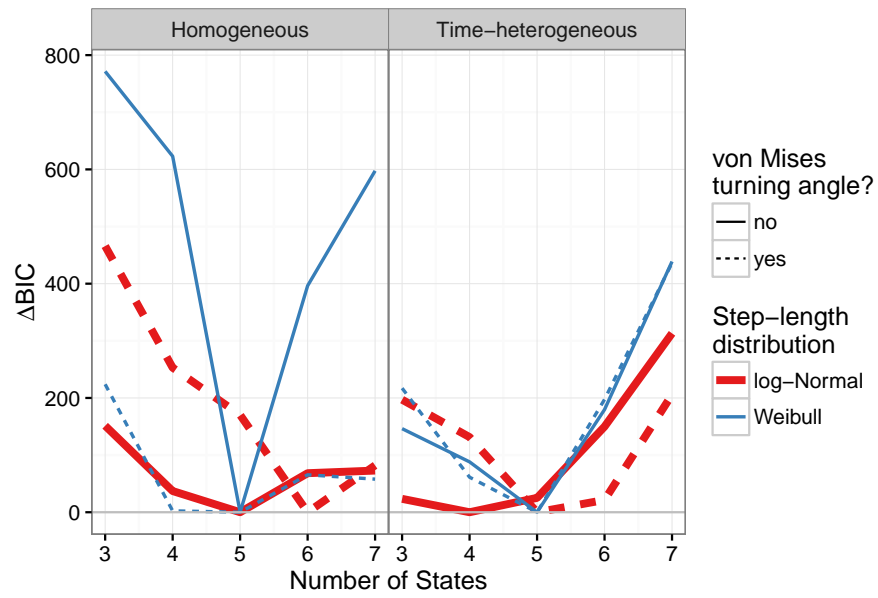Figure 4: Autocorrelation Plot for Cat 2

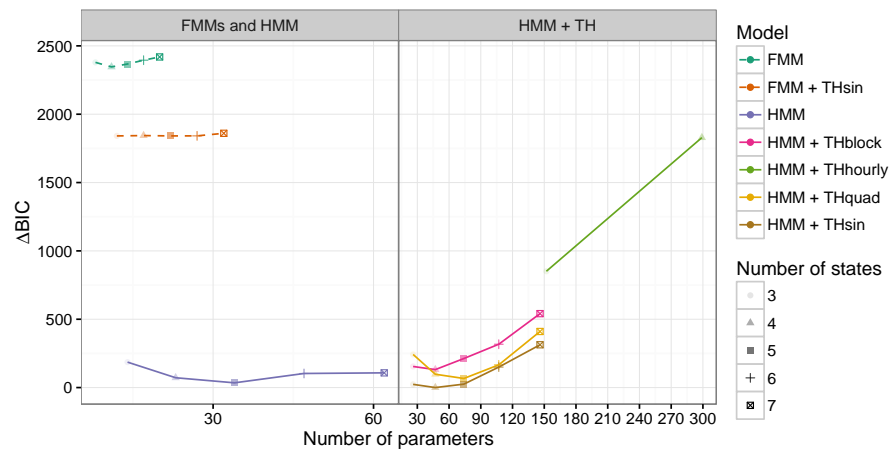Figure 5: Adjusted BIC Emission Distribution Comparison for Cat 14

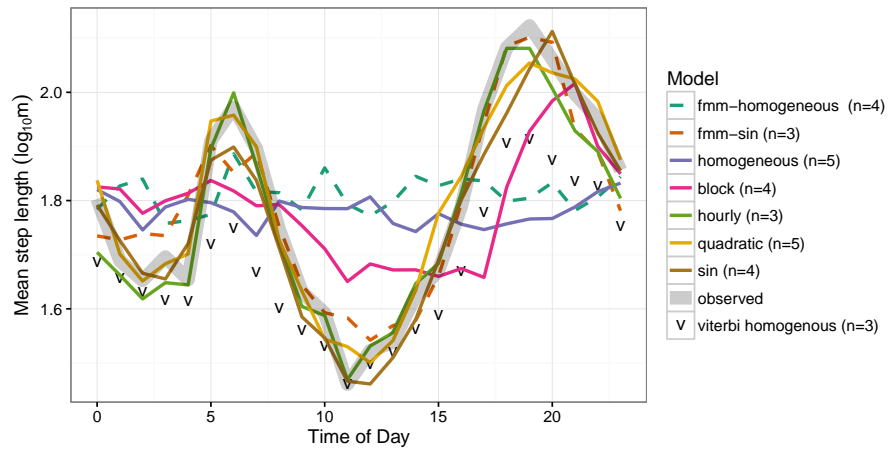Figure 6: Adjusted BICs Across All Models for Cat 14

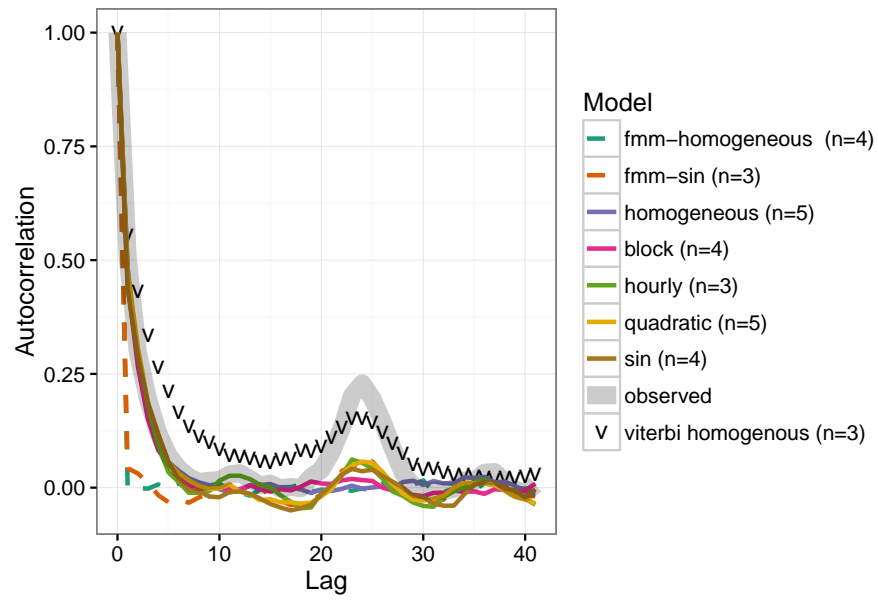Figure 7: Diurnal Step Lengths Plot for Cat 14

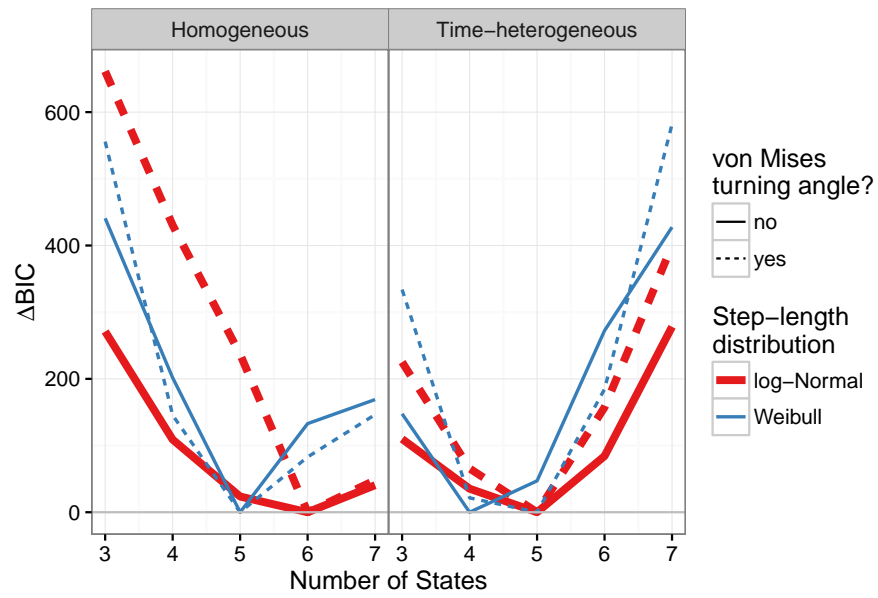Figure 8: Autocorrelation Plot for Cat 14

Figure 9: Adjusted BIC Emission Distribution Comparison for Cat 15
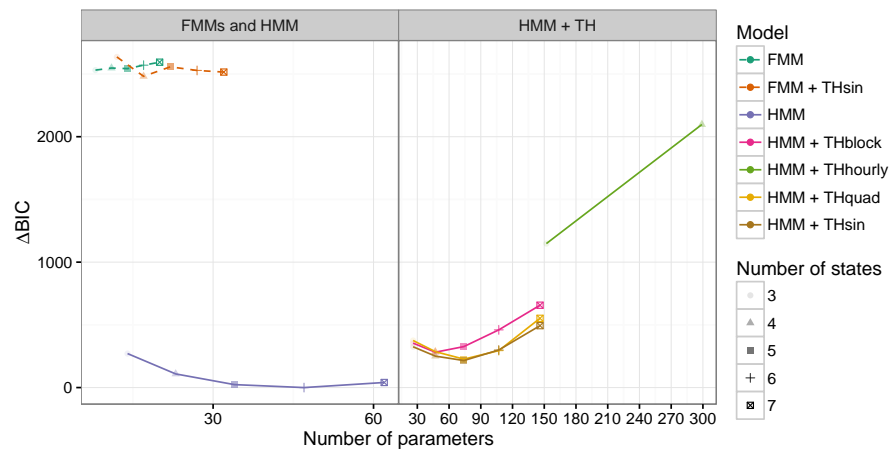
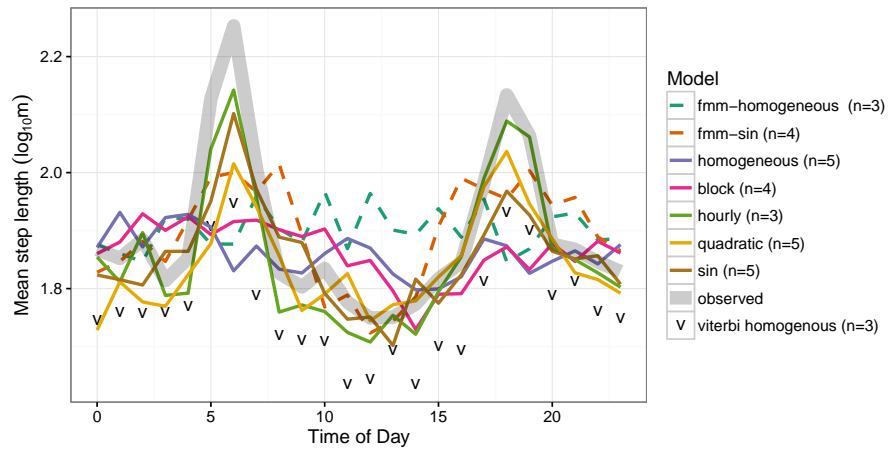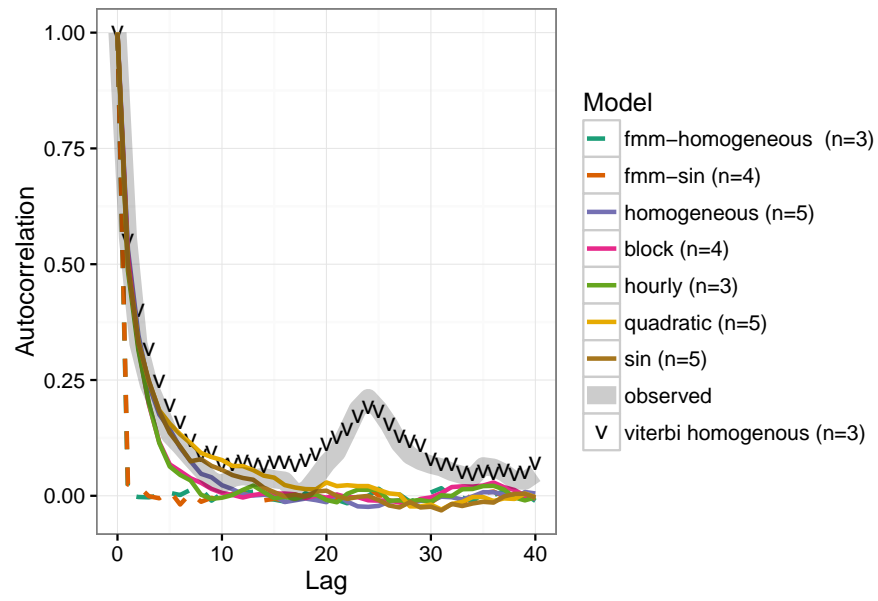Figure 10: Adjusted BICs Across All Models for Cat 15

Figure 11: Diurnal Step Lengths Plot for Cat 15

Figure 12: Autocorrelation Plot for Cat 15