

Supplementary Figures for A Bayesian approach for fitting and  
comparing demographic growth models of radiocarbon dates: a case  
study on the Jomon-Yayoi transition in Kyushu (Japan)

E.Crema

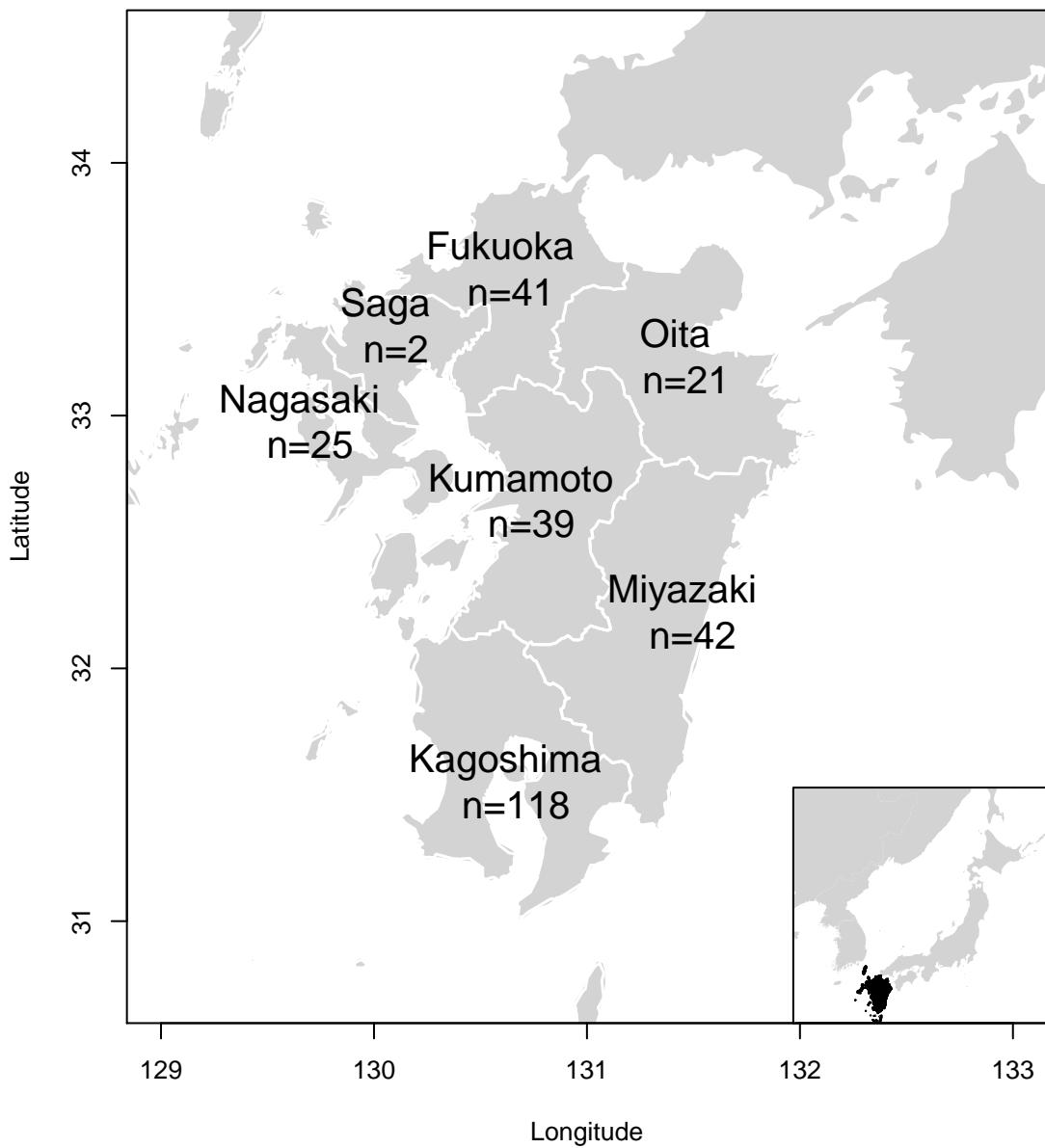


Figure S1: Geographic distribution of radiocarbon dates

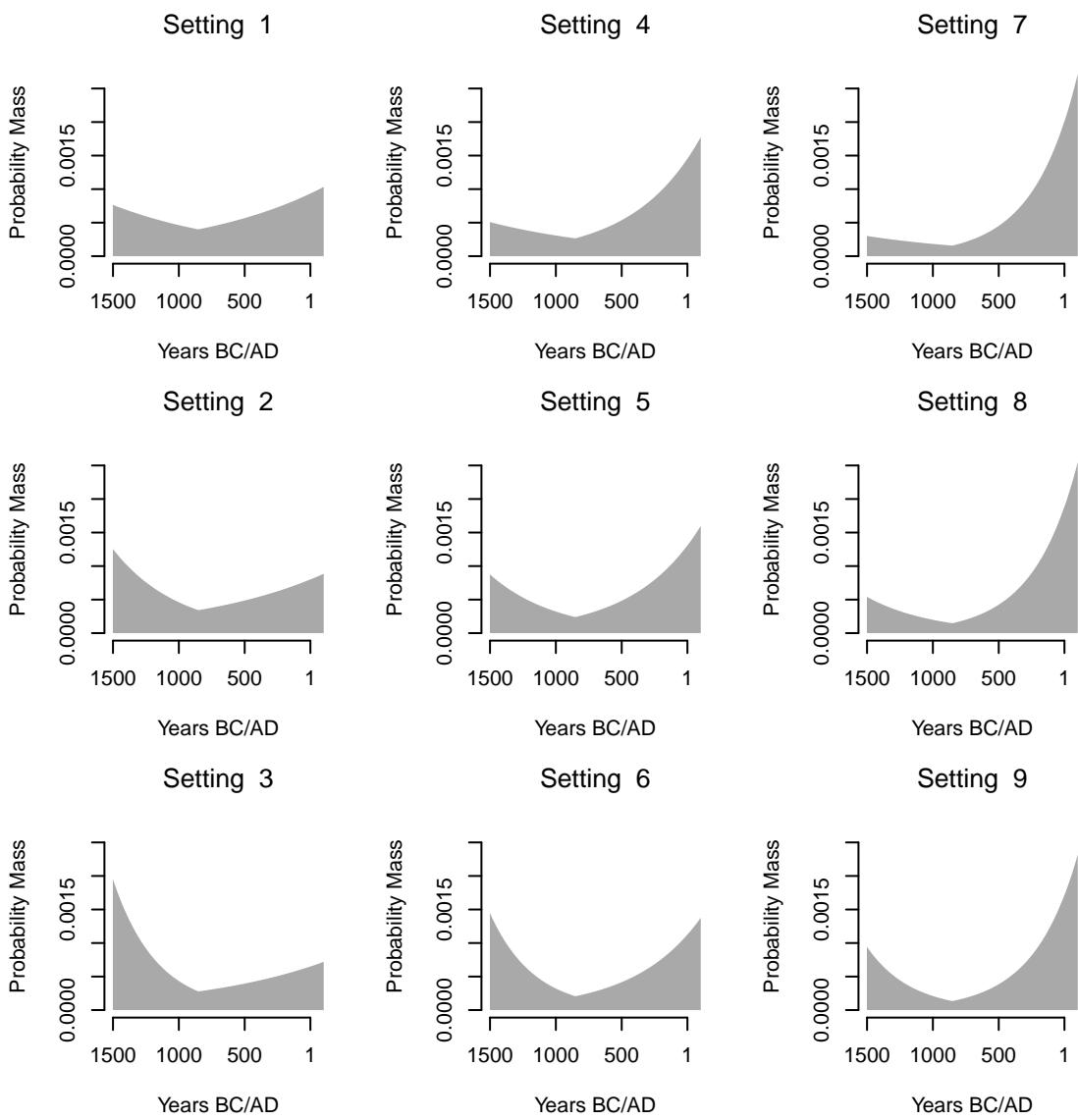


Figure S2: Growth Models for Experiment 4

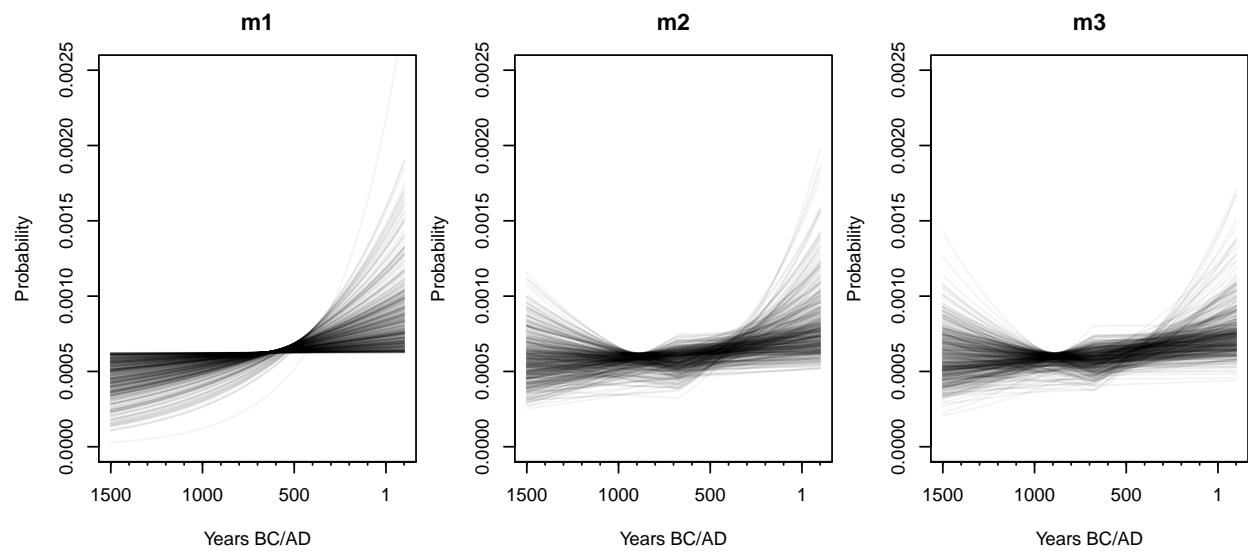


Figure S3: Prior Predictive Checks

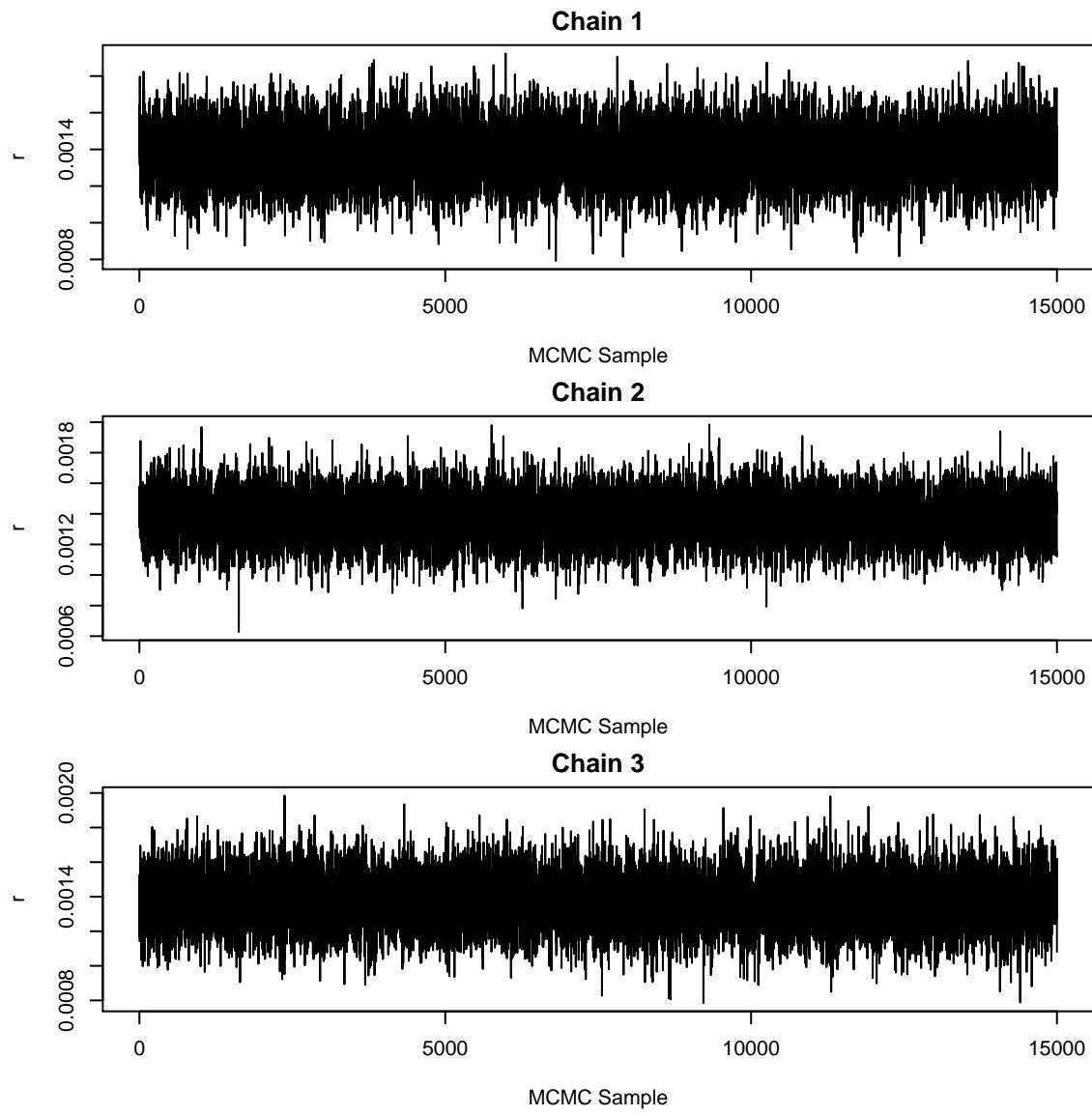


Figure S4: Model 1 Trace Plots

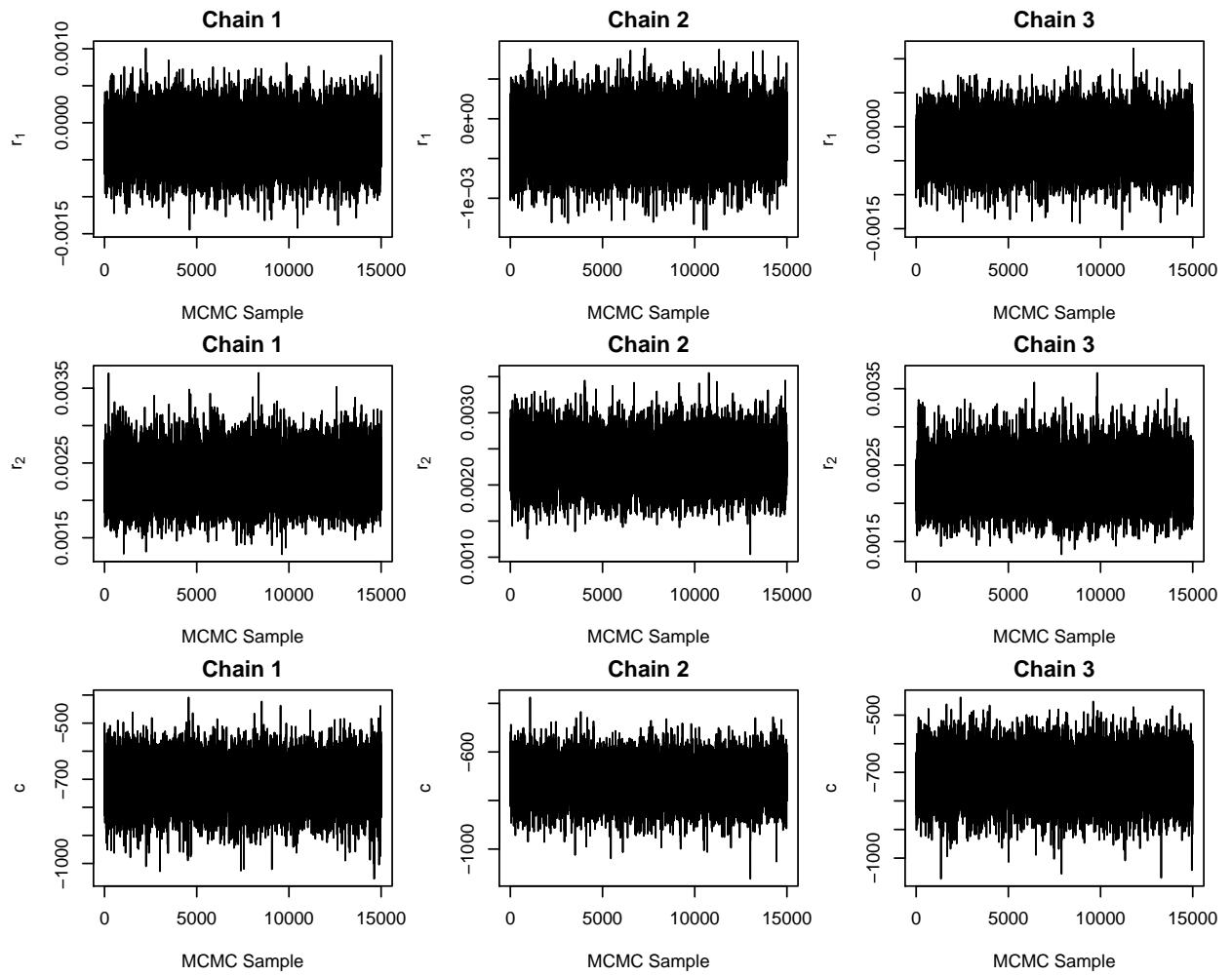


Figure S5: Model 2 Trace Plots

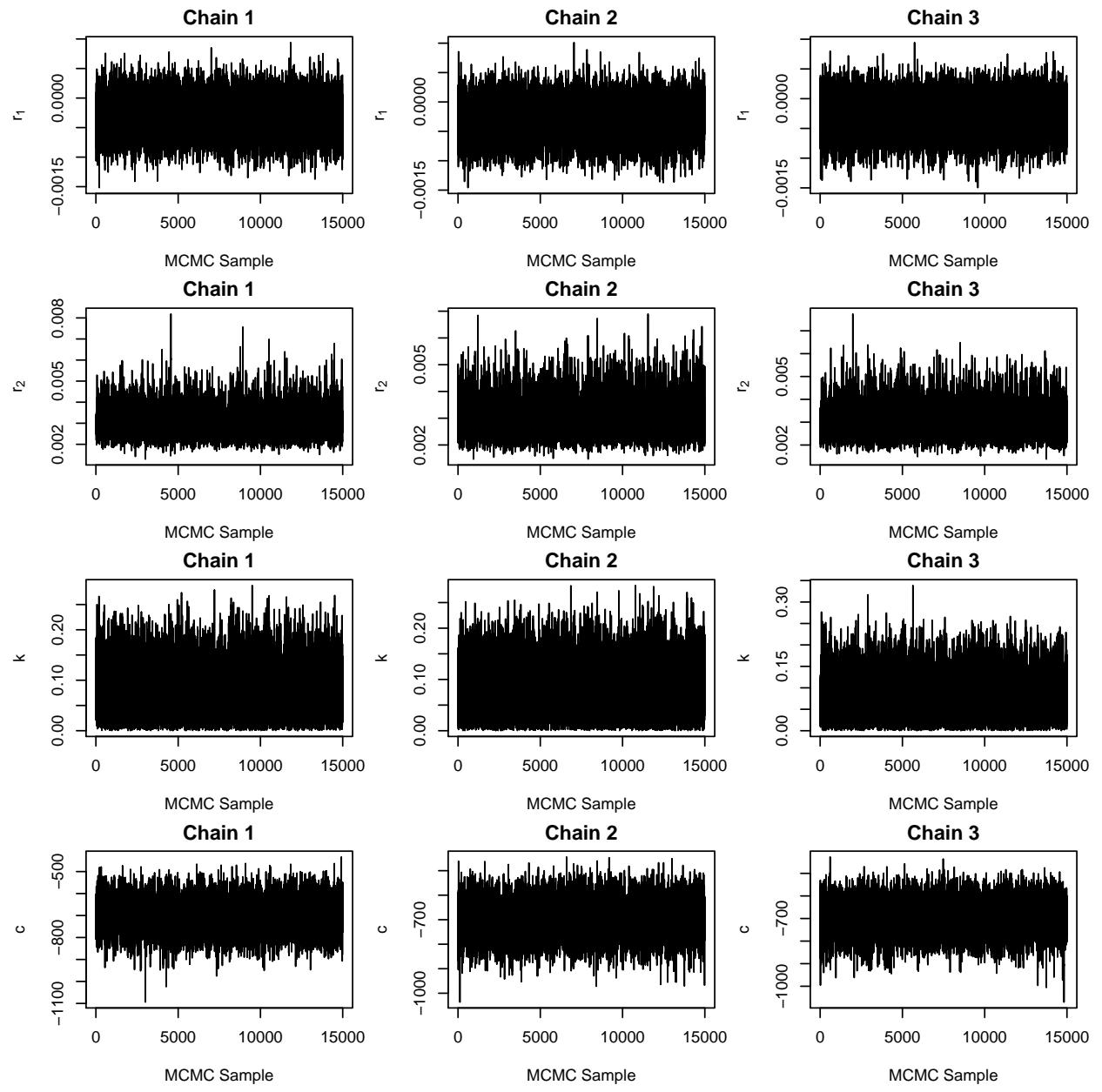
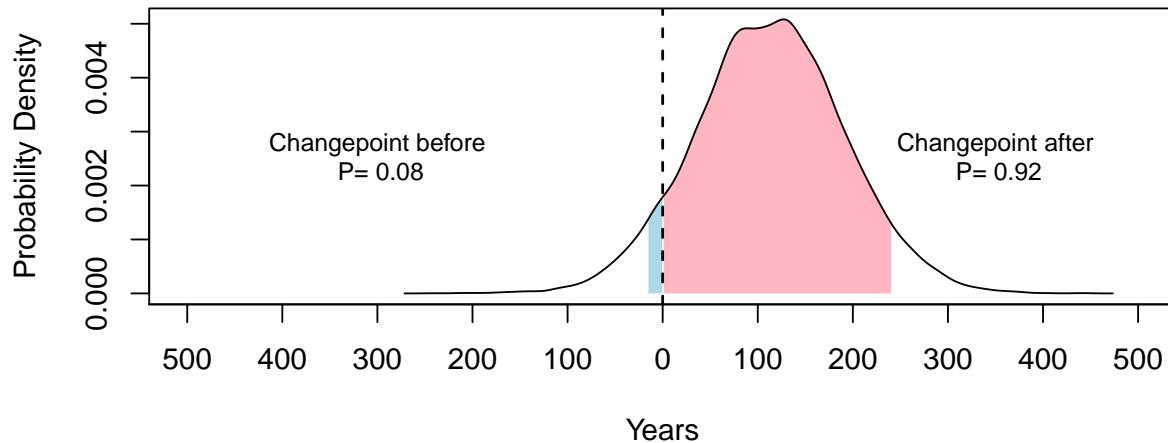


Figure S6: Model 3 Trace Plots

### m2 changepoint vs earliest occurence of rice



### m3 changepoint vs earliest occurence of rice

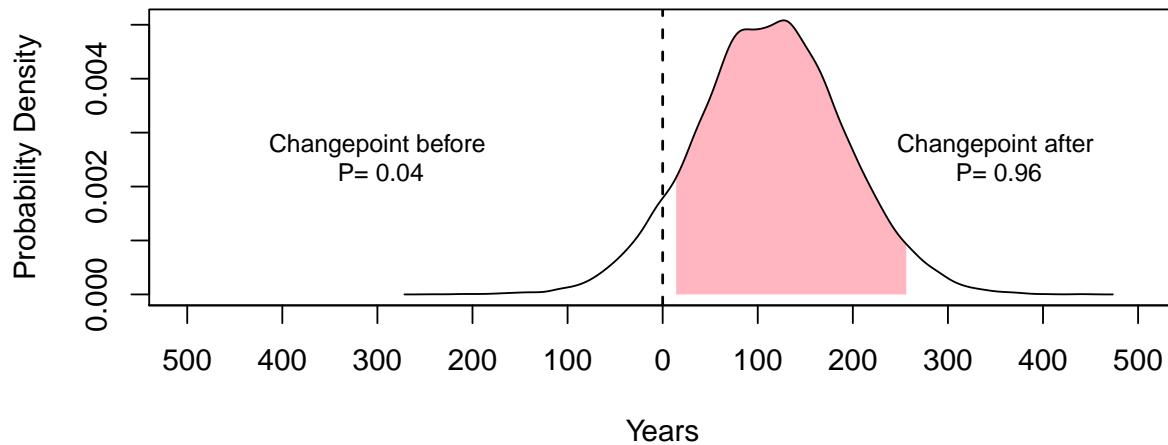


Figure S7: Time difference between earliest dated evidence of charred rice in Kyushu (from Miyamoto 2018) and inferred change-point in growth rate for models 2 and 3. Differences were computed by comparing 15,000 random pairs of posterior samples from the two events. The highlighted region represents the 90% HPD density interval. Rice dates were calibrated using IntCal20 and combined using the R\_Combine function in OxCal (via the OxCAAR R package).