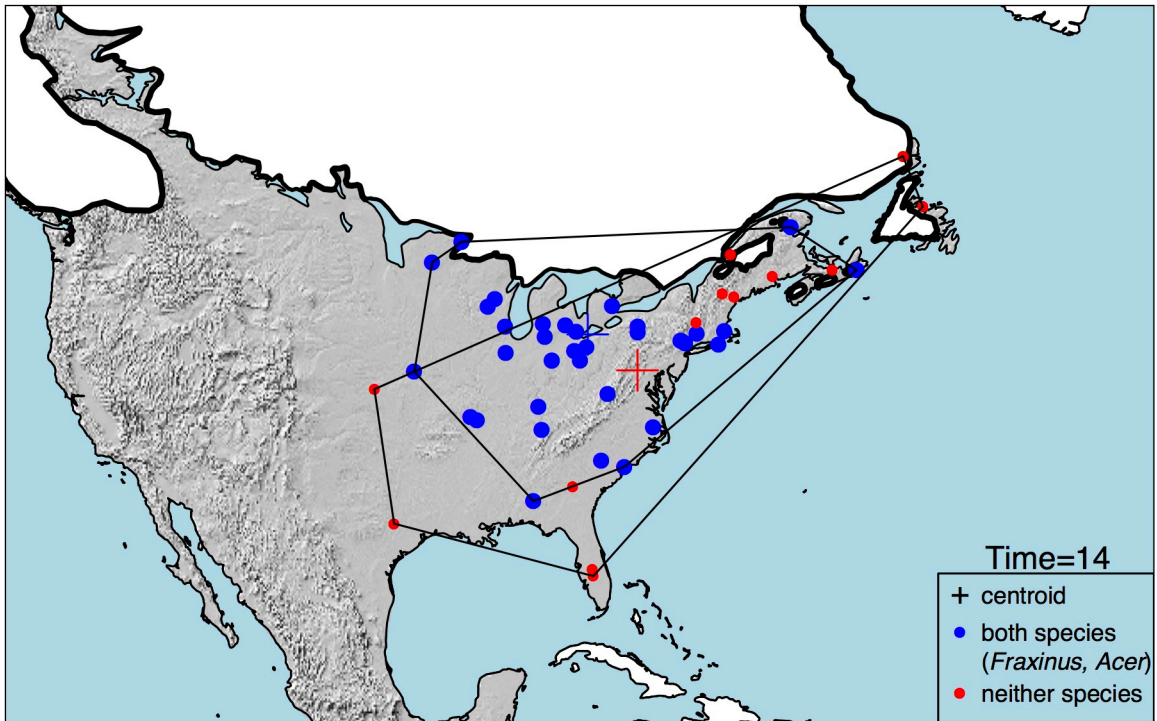


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Supplementary material

A)



B)

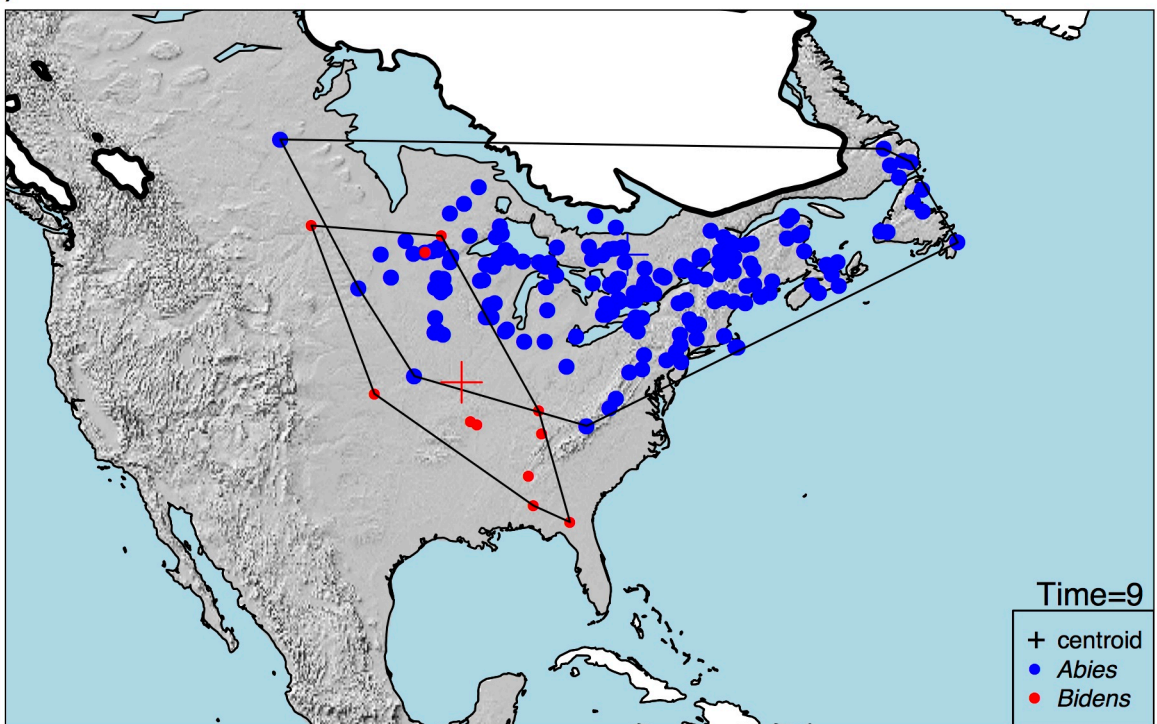


Figure A1. Representative maps showing the spatial pattern of site occupancy for some of the significantly aggregated or segregated taxon pairs. A) Syntopic sites with both members of the

aggregated pair *Fraxinus* and *Acer* at 14 kyr BP (blue) versus empty sites with neither pair (red), showing the centroids (+) for each polygon. This pair represents a potential biotic interaction, so there were no significant differences in either climate or geographic centroid among syntopic vs. empty sites. B) Sites with either *Abies* (blue) or *Bidens* (red), showing the centroids (+) for each polygon. This pair is significantly segregated, and is associated with significant differences in both climate (not shown) and geographic centroids.

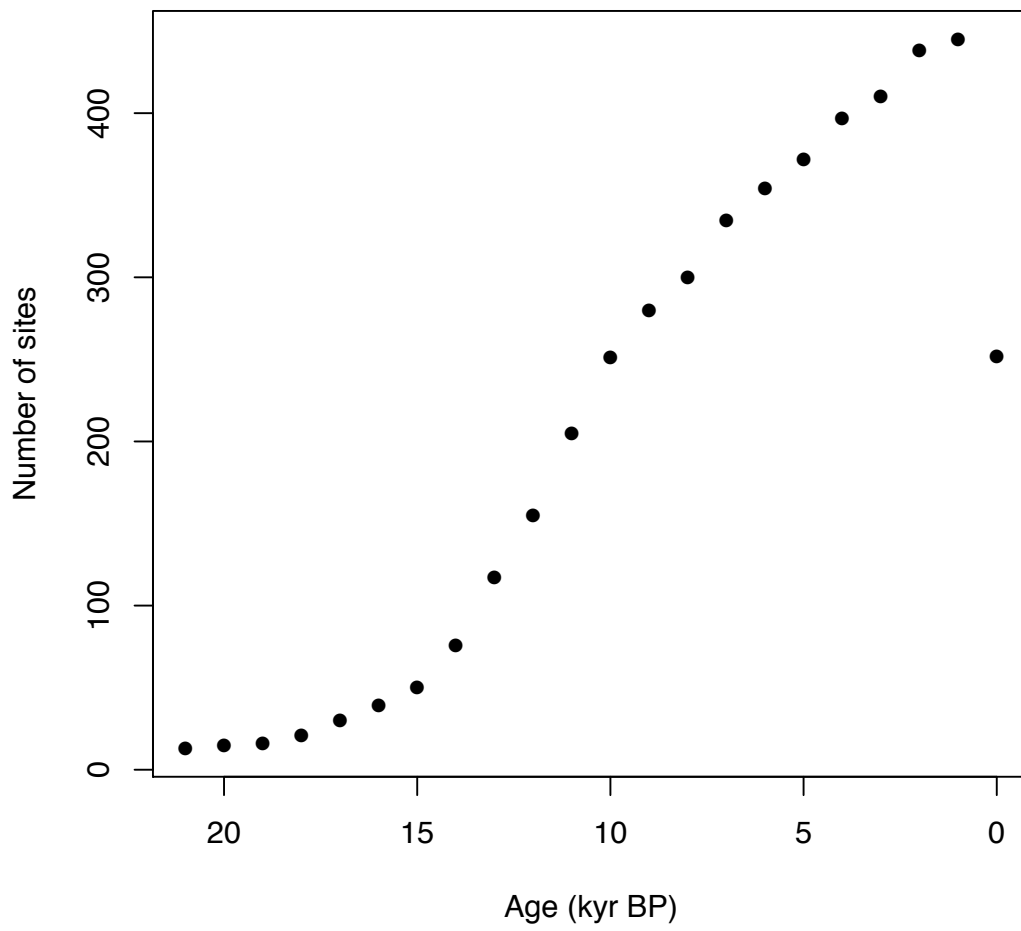


Figure A2. Number of sites through time.