

### Appendix

The complete data sets for the mid-Paleozoic and temperate late Cenozoic are contained in the tab-delimited text files "Bush\_Paleozoic.txt" and "Bush\_CZ\_temperate.txt," and the references for these data are listed below. The paleolatitudes given in these files are averages of minimum and maximum estimates, so some are fractional. The ecologic assignments for the tropical late Cenozoic (Panama Paleontology Project) data are given in the data file "Bush\_CZ\_tropical.txt," and the sample numbers are available at [dx.doi.org/10.1666/06013.s2](http://dx.doi.org/10.1666/06013.s2). Although the ecologic assignments for the other two data sets are written out in words, the tropical late Cenozoic data are coded using the numeric codes given in Table 1 in the main text. The complete sample information (including abundance counts, etc.) for the Panama Paleontology Project data sets are available online from <http://www.fiu.edu/~collinsl/pppimagemapnew.htm>.

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## Panama Paleontology Project Sample Numbers

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mid-Paleozoic and late Cenozoic. *Paleobiology*, 33:76–97.)

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