

SUPPLEMENT

Figure S1: Boxplots comparing the distribution of tree diameters within each plot type show no systematic difference across plot types.

Tree Diameters Across Disturbance Types

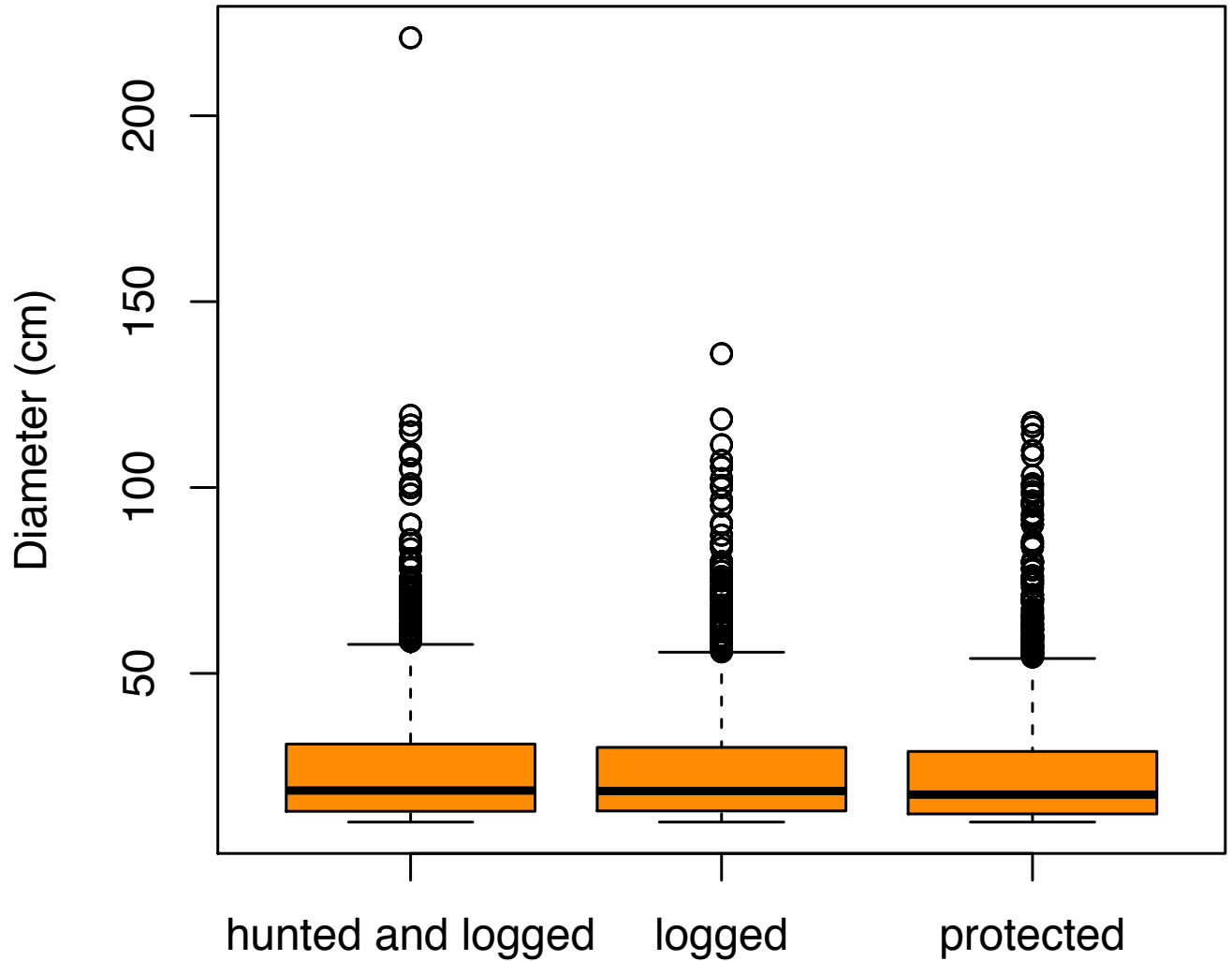


Figure S2: Boxplots comparing the distributions of total stems per plot show significant overlap across plot type.

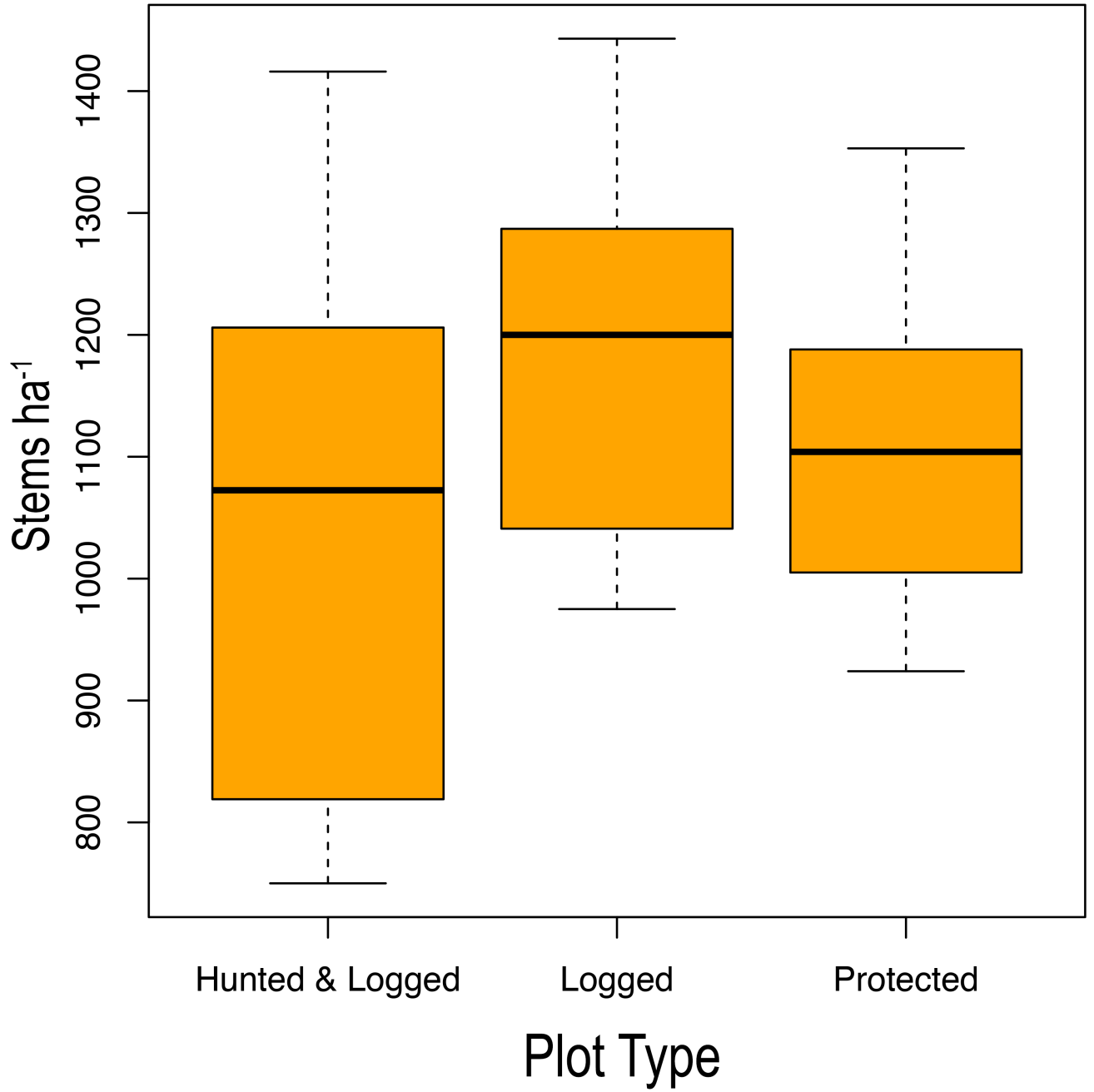


Figure S3: Stacked bar plots comparing community composition show a consistent distribution of 33 focal species across plots.

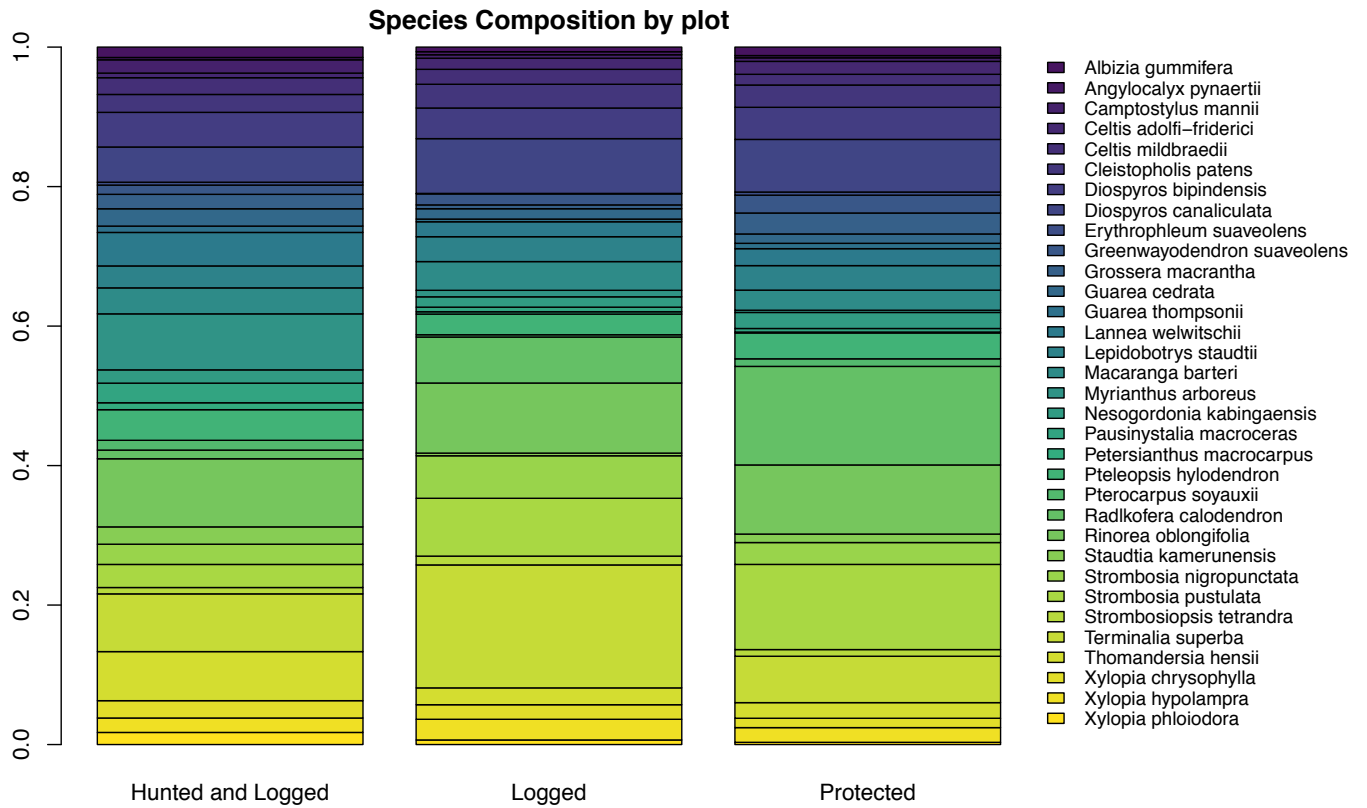


Figure S4: Comparison of standardized root mean squared prediction error (individual RMSPE/average number of seeds per trap) with size of circle indicating relative number of seeds from that species present in the study.

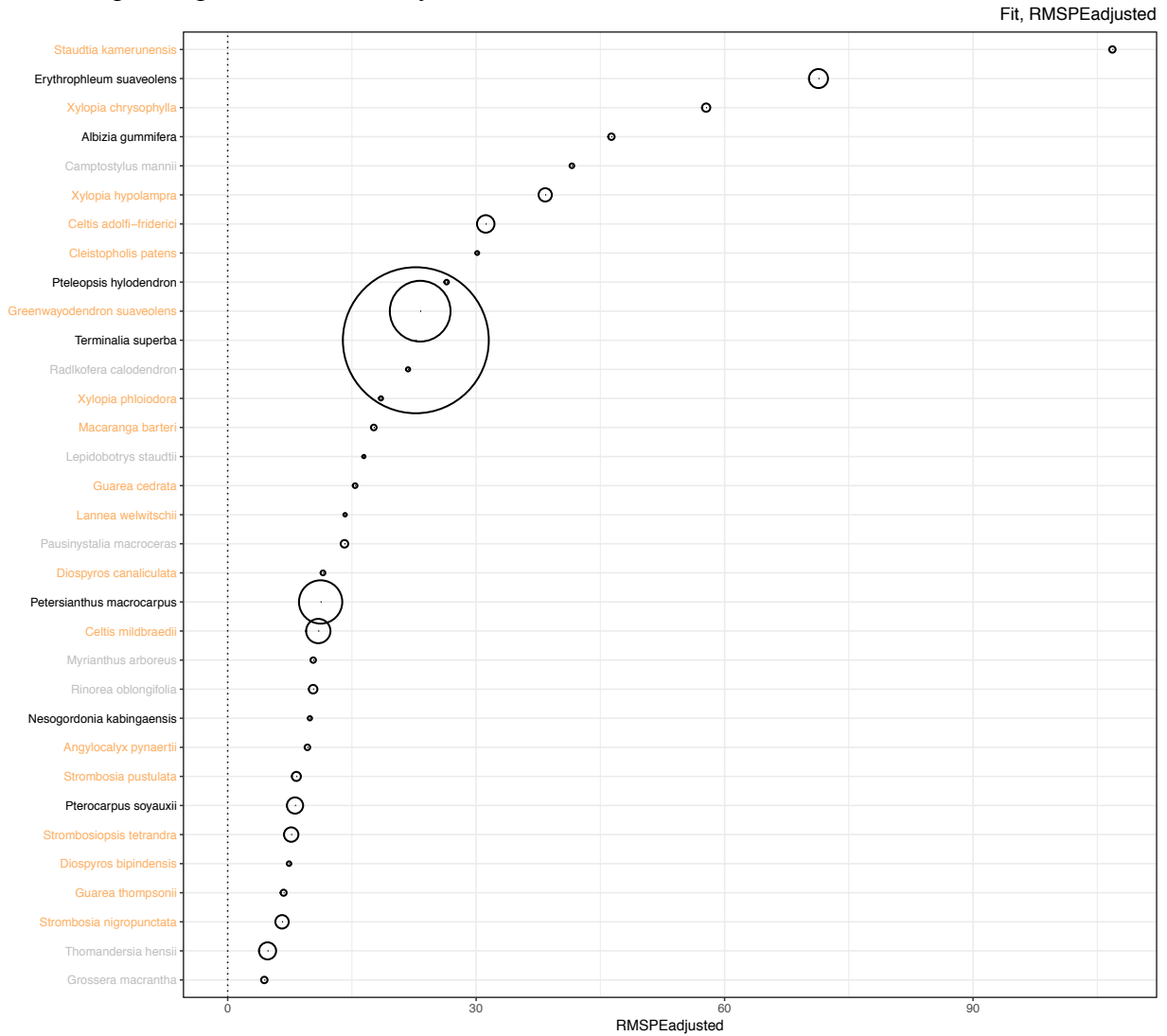
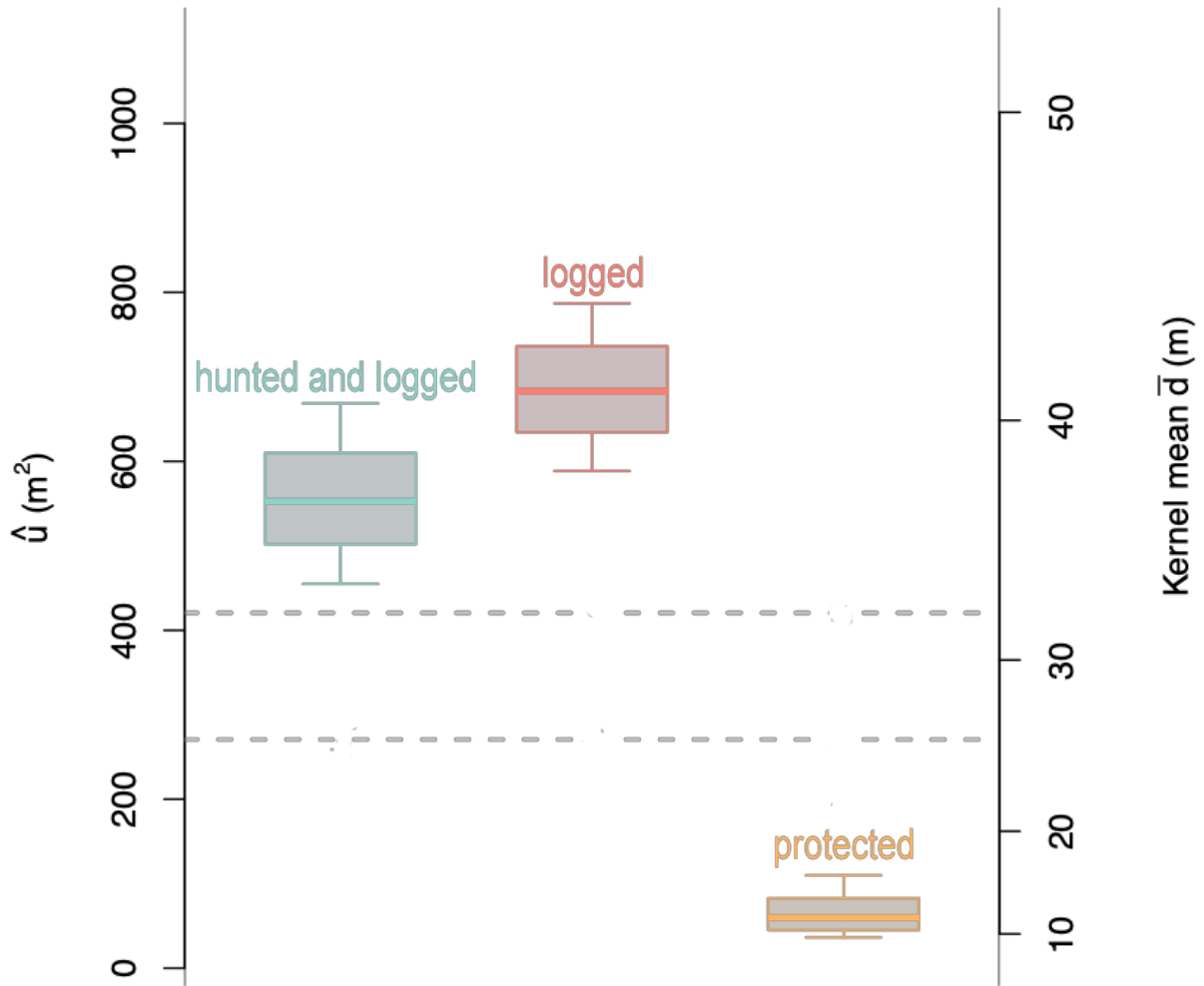
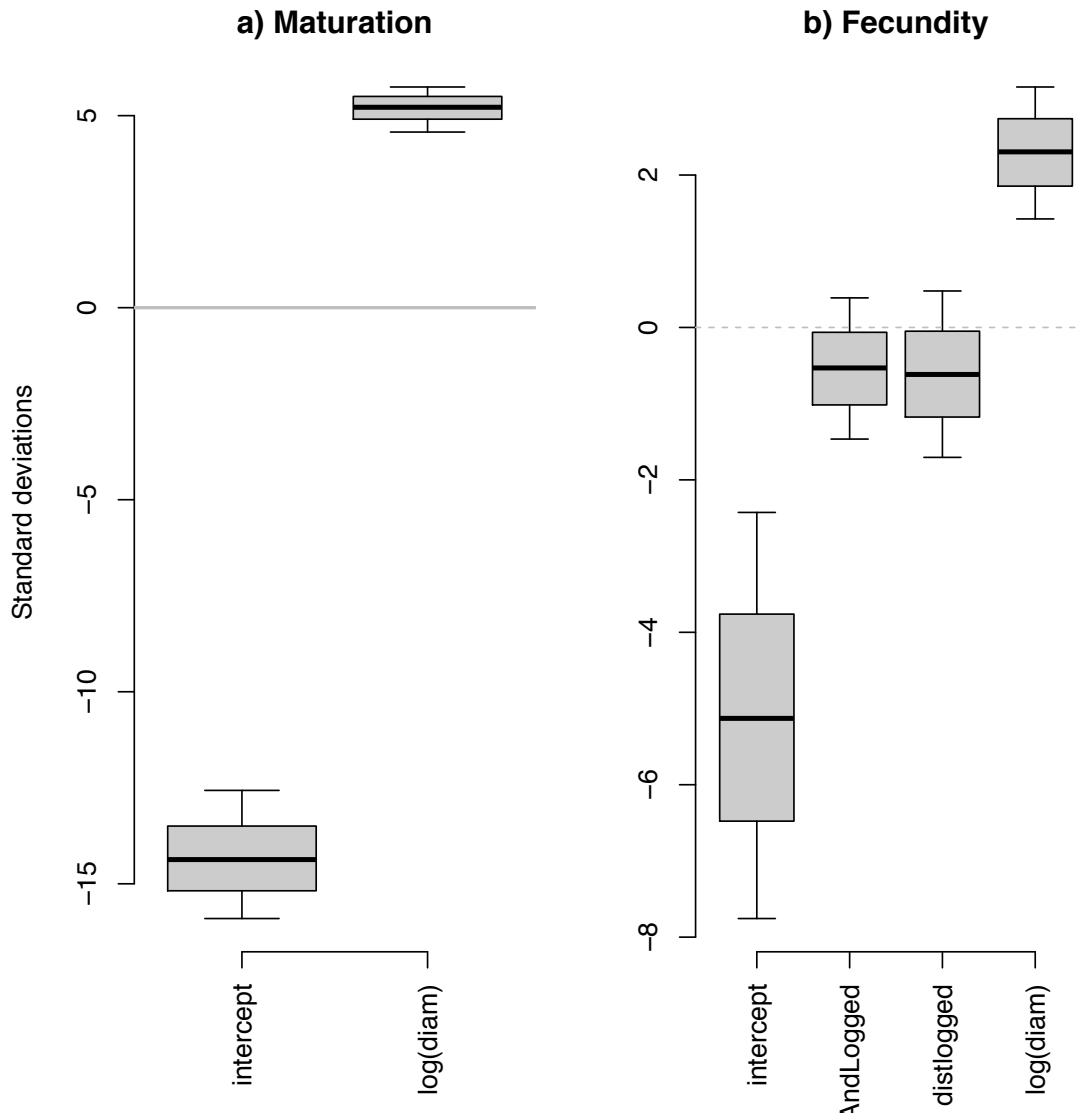


Figure S5 (A-D): Example of individual results (*Nesogordonia kabingaensis*) that were amalgamated across species for in-text summary figures.

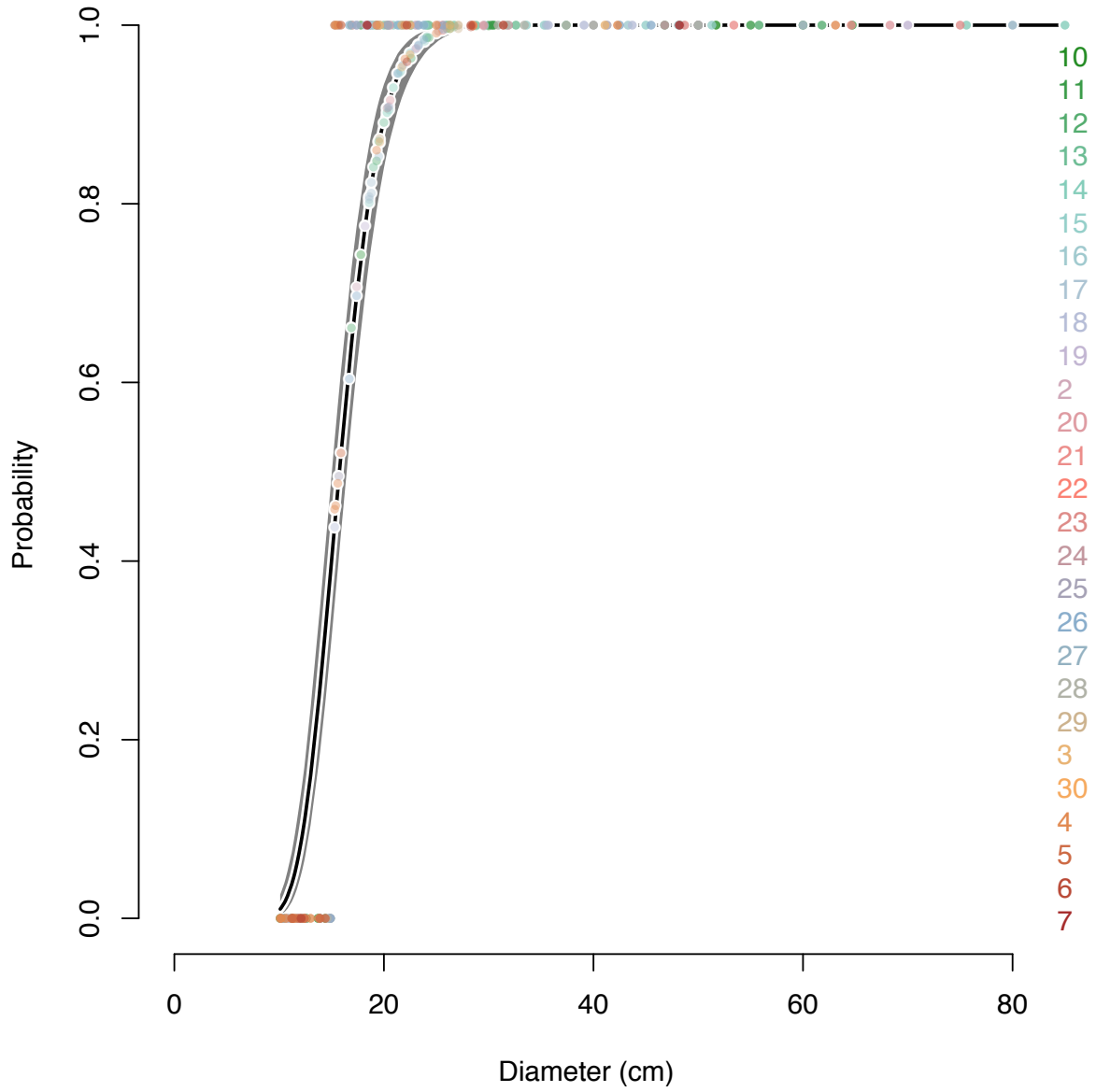
S5A: comparison of the dispersal parameter and kernel mean dispersal distance among plot types.



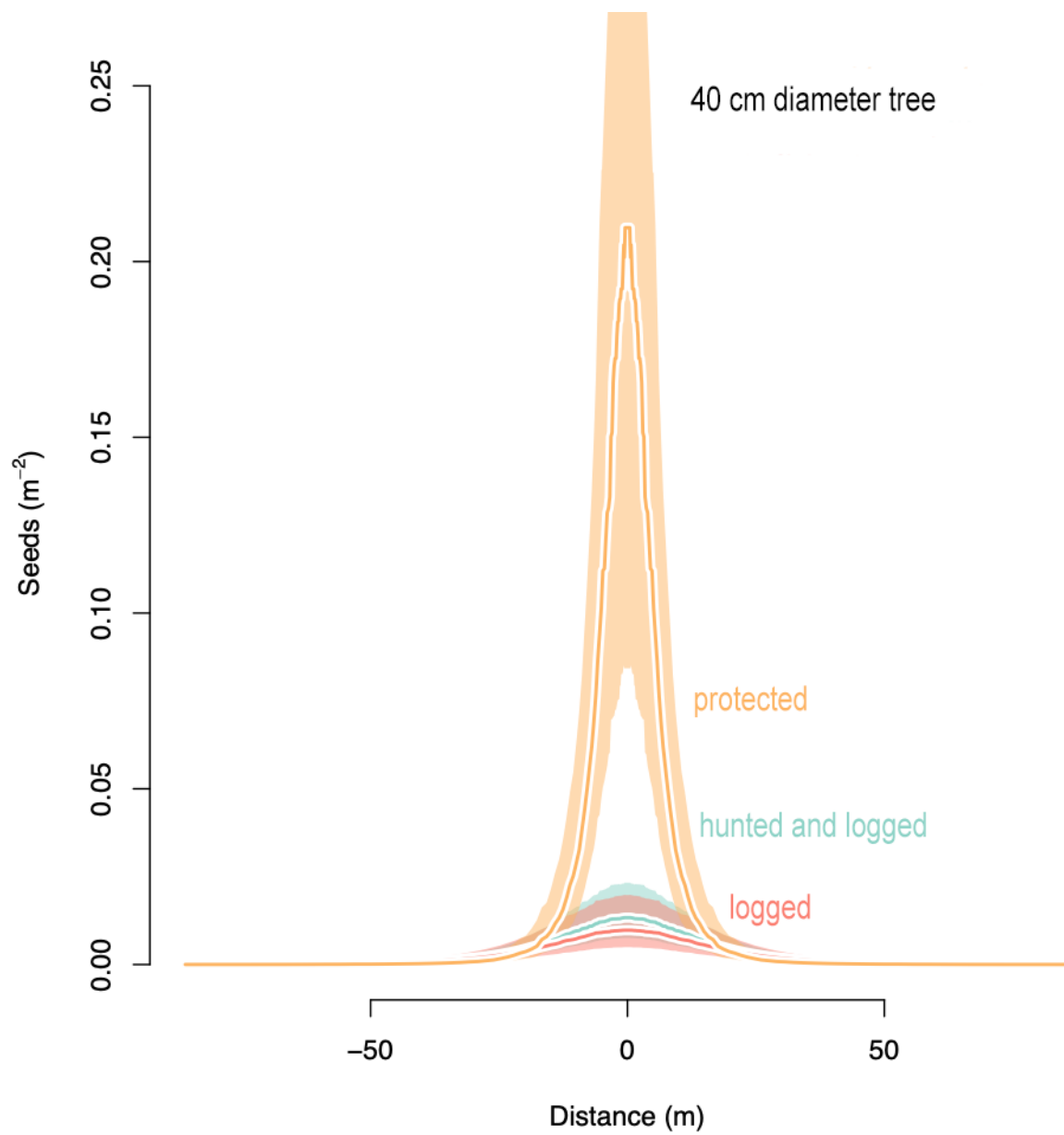
S5B: Posterior parameter estimates of maturation and fecundity for *Nesogordonia kabingaensis*.



S5C: Posterior estimate of maturity as a function of tree diameter for *Nesogordonia kabingaensis*.

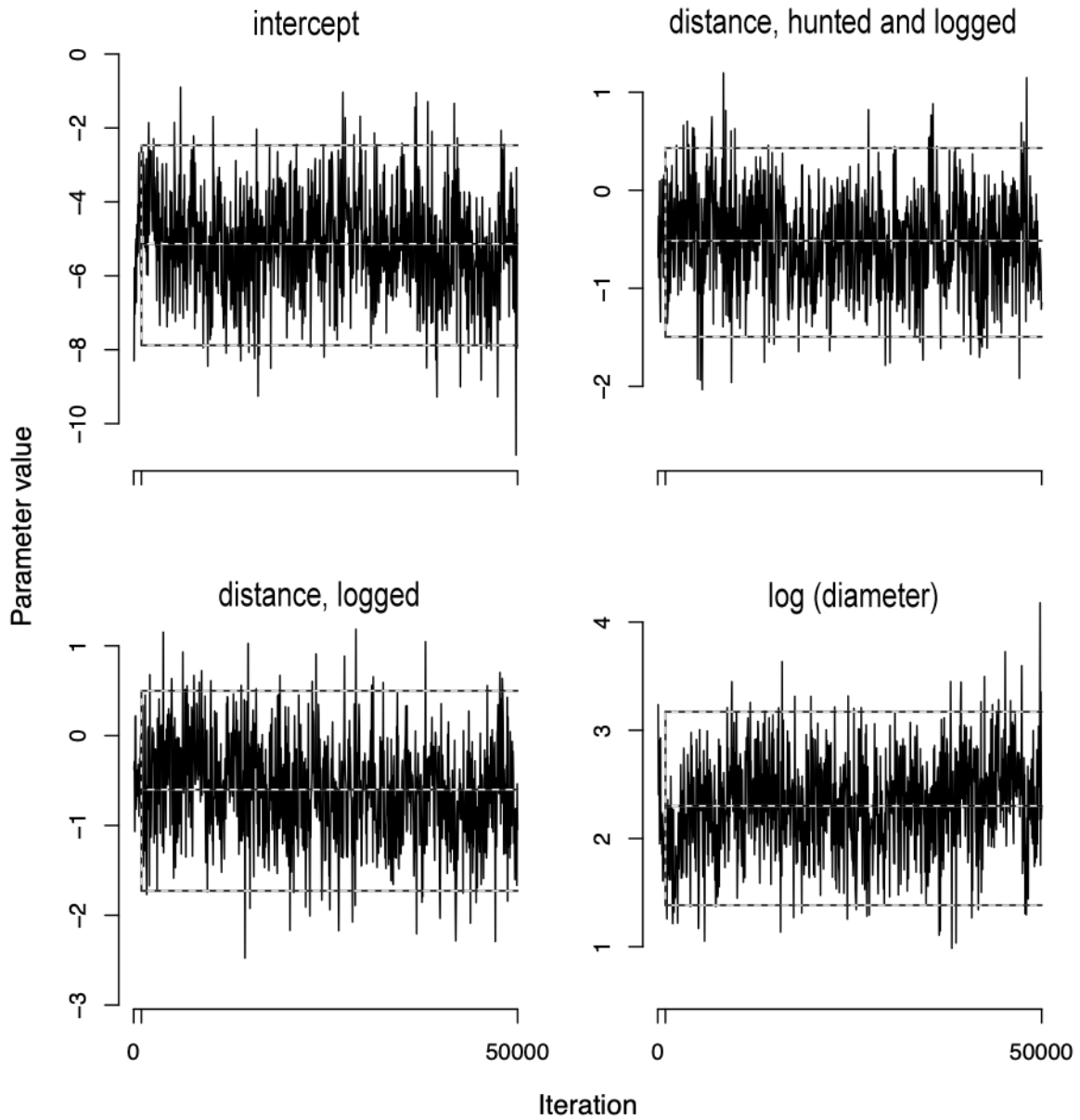


S5D: Comparison of seed dispersal kernels with 95% CI across plot types for *Nesogordonia kabingaensis*.

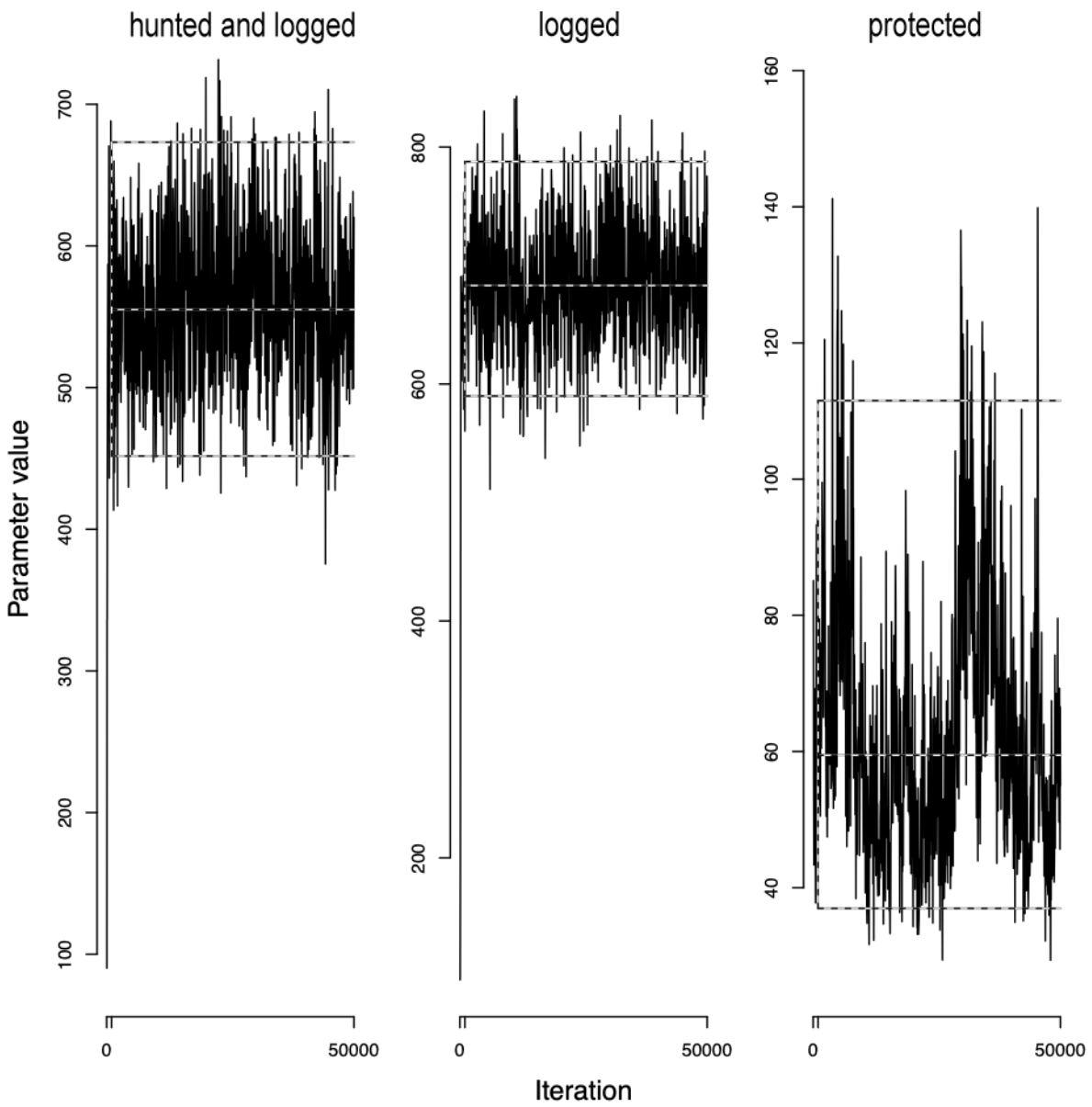


S6 (A-C): Examples of model diagnostics for *Nesogordonia kabingaensis*.

S6A: Trace plots of posterior chain convergence for all parameter values.



S6B: Trace plots of posterior parameter estimates of dispersal distance across disturbance regimes.



S6C: Trace plots of posterior parameter estimates of sigma, root mean squared prediction error (RMSPE), and deviance.

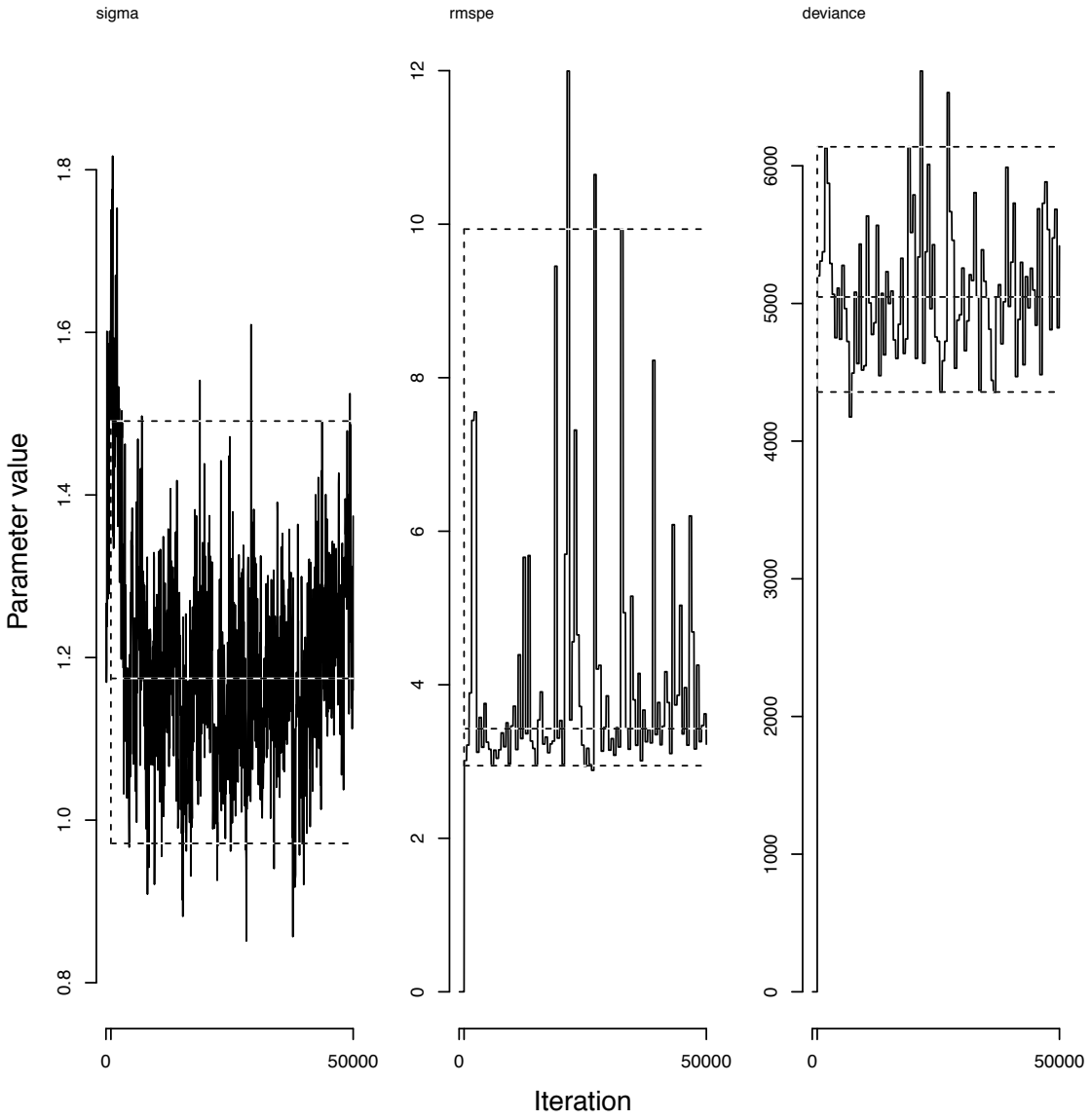


Table S1: Table of species information and dispersal vectors

	<u>Bird Dispersed?</u>	<u>Mammal Dispersed?</u>	<u>Timber Species?</u>
Abiotically Dispersed			
<i>Albizia gummifera</i>	no	no	no
<i>Erythrophleum suaveolens</i>	no	no	yes
<i>Nesogordonia kabingaensis</i>	no	no	yes
<i>Petersianthus macrocarpus</i>	no	no	yes
<i>Pteleopsis hylodendron</i>	no	no	yes
<i>Pterocarpus soyauxii</i>	no	no	yes
<i>Terminalia superba</i>	no	no	yes
Animal Dispersed			
<i>Angylocalyx pynaertii</i>	no	yes	yes
<i>Celtis adolfi-friderici</i>	no	yes	yes
<i>Celtis mildbraedii</i>	yes	yes	yes
<i>Cleistopholis patens</i>	yes	yes	yes
<i>Diospyros bipindensis</i>	no	yes	yes
<i>Diospyros canaliculata</i>	no	yes	yes
<i>Greenwayodendron suaveolens</i>	yes	yes	yes
<i>Guarea cedrata</i>	yes	yes	yes
<i>Guarea thompsonii</i>	yes	no	yes
<i>Lannea welwitschii</i>	yes	yes	yes
<i>Macaranga barteri</i>	yes	yes	yes
<i>Staudtia kamerunensis</i>	yes	yes	yes
<i>Strombosia nigropunctata</i>	yes	yes	yes
<i>Strombosia pustulata</i>	yes	yes	no
<i>Strombosiopsis tetrandra</i>	yes	yes	yes
<i>Xylopia chrysophylla</i>	yes	yes	no
<i>Xylopia hypolampra</i>	yes	yes	no
<i>Xylopia phloiodora</i>	yes	yes	no
Abiotic & Animal Dispersed			
<i>Camptostylus mannii</i>	no	yes	no
<i>Grossera macrantha</i>	no	yes	no
<i>Lepidobotrys staudtii</i>	yes	yes	no
<i>Myrianthus arboreus</i>	no	yes	no
<i>Pausinystalia macroceras</i>	yes	yes	yes
<i>Radlkofera calodendron</i>	yes	yes	yes
<i>Rinorea oblongifolia</i>	no	yes	yes
<i>Thomandersia hensii</i>	no	no	yes