

Intermediate levels of wood extraction may facilitate coexistence of an endemic arboreal marsupial and Indigenous communities

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SUPPLEMENTARY MATERIAL 1 Candidate occupancy models included in the model-based recursive partitioning procedure. We retained the three models in bold for further analysis. Variable abbreviations: biomass.div = fruit biomass diversity, plant.sp.div = plant species diversity, fruit.plant.div = fruiting plant diversity, fruits = fruit biomass, temperature = air temperature, precip = precipitation, drimys = *Drimys winteri* density, l.apicul = *Luma apiculata* density.

mod1 = occu(~1 ~biomass.div + fruit.plant.div + plant.sp.div , se = TRUE, data = oc)

mod2 = occu(~fruits ~biomass.div + fruit.plant.div + plant.sp.div, data = oc)

mod3 = occu(~fruits ~biomass.div + fruit.plant.div + plant.sp.div + drimys + l.apicul, data = oc)

mod4 = occu(~fruits ~biomass.div + fruit.plant.div + plant.sp.div + drimys, data = oc)

mod5 = occu(~fruits ~biomass.div + fruit.plant.div + plant.sp.div + l.apicul, data = oc)

mod6 = occu(~temperature ~biomass.div + fruit.plant.div + plant.sp.div , data = oc)

mod7 = occu(~temperature ~biomass.div + fruit.plant.div + plant.sp.div + l.apicul, data = oc)

mod8 = occu(~temperature ~biomass.div + fruit.plant.div + plant.sp.div, data = oc)

mod9 = occu(~temperature ~biomass.div + fruit.plant.div + plant.sp.div, data = oc)

mod10 = occu(~precip ~biomass.div + fruit.plant.div + plant.sp.div, data = oc)

mod11 = occu(~precip ~biomass.div + fruit.plant.div + plant.sp.div + drimys + l.apicul, data = oc)

mod12 = occu(~precip ~biomass.div + fruit.plant.div + plant.sp.div + drimys, data = oc)

mod13 = occu(~precip ~biomass.div + fruit.plant.div + plant.sp.div + l.apicul, data = oc)

mod14 = occu(~precip + fruits ~ biomass.div + fruit.plant.div + plant.sp.div, data = oc)

mod15 = occu(~precip + fruits~ biomass.div + fruit.plant.div + plant.sp.div + drimys + l.apicul, data = oc)

mod16 = occu(~precip + fruits ~ biomass.div + fruit.plant.div + plant.sp.div + drimys, data = oc)

mod17 = occu(~precip + fruits ~ biomass.div + fruit.plant.div + plant.sp.div + l.apicul, data = oc)

mod18 = occu(~ fruits + temperature ~ biomass.div + fruit.plant.div + plant.sp.div, data = oc)

mod19 = occu(~ fruits + temperature ~ biomass.div + fruit.plant.div + plant.sp.div + drimys + l.apicul, data = oc)

mod20 = occu(~ fruits + temperature ~ biomass.div + fruit.plant.div + plant.sp.div + drimys, data = oc)

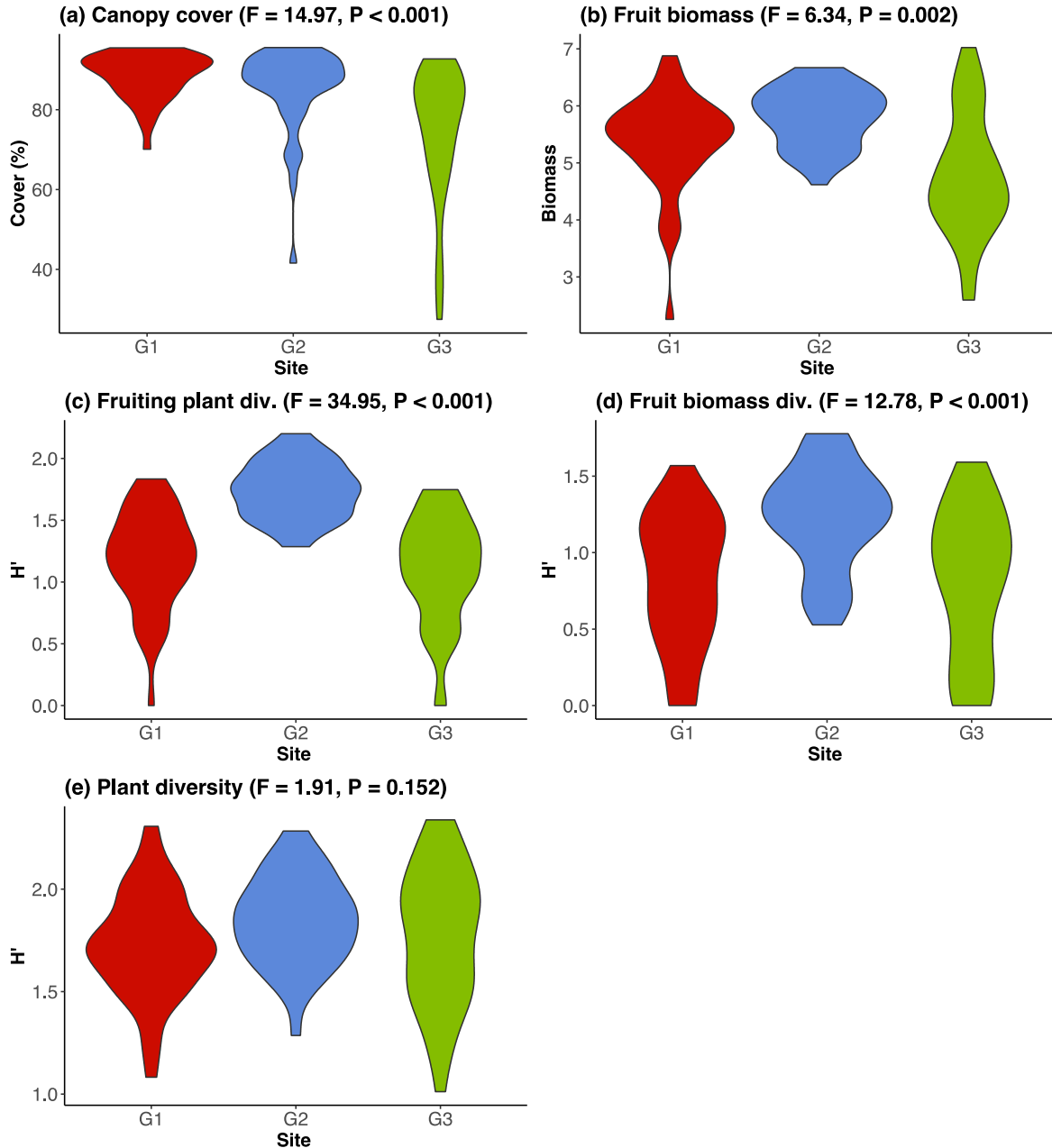
mod21 = occu(~ fruits + temperature ~ biomass.div + fruit.plant.div + plant.sp.div + l.apicul, data = oc)

mod22 = occu(~ precip + temperature ~ biomass.div + fruit.plant.div + plant.sp.div, data = oc)

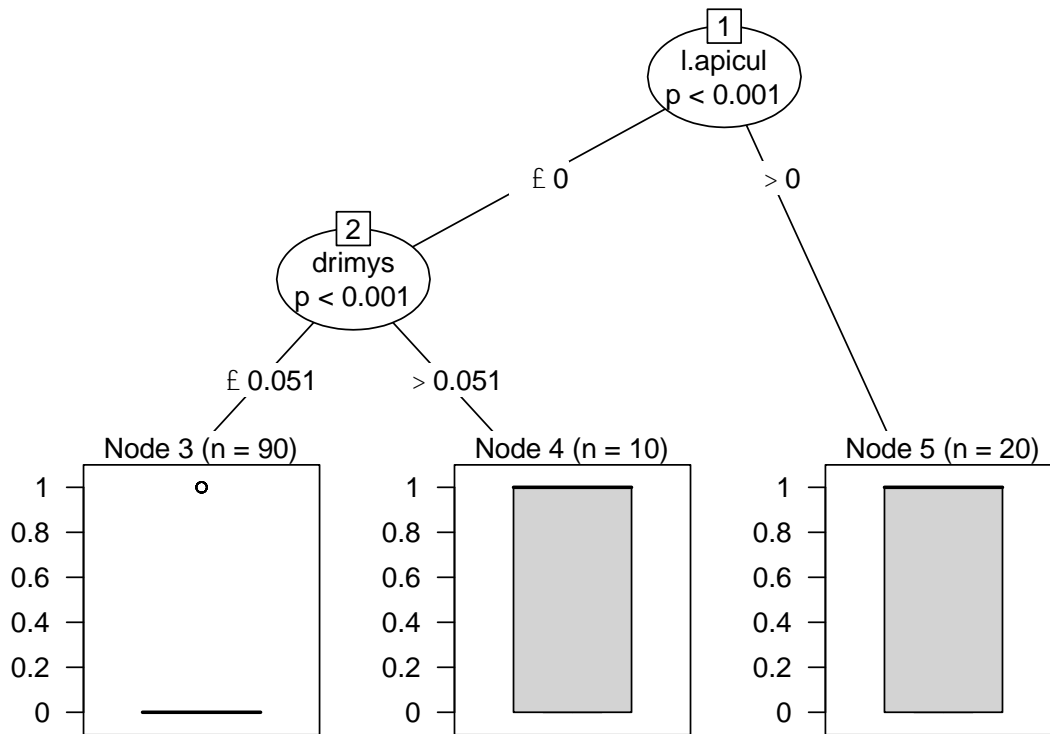
mod23 = occu(~ precip + temperature ~ biomass.div + fruit.plant.div + plant.sp.div + drimys + l.apicul, data = oc)

mod24 = occu(~ precip + temperature ~ biomass.div + fruit.plant.div + plant.sp.div + drimys, data = oc)

mod25 = occu(~ precip + temperature ~ biomass.div + fruit.plant.div + plant.sp.div + l.apicul, data = oc)



SUPPLEMENTARY FIG. 1 Differences in habitat characteristics among the survey sites (1, 2 and 3) in the study area, including: (a) canopy cover, (b) fruit biomass, (c) fruiting plant diversity, (d) fruit biomass diversity, and (e) plant diversity. Statistical differences were assessed using ANOVA ($df_{\text{factor}} = 2, df_{\text{residual}} = 117$ in all cases) tests.



SUPPLEMENTARY FIG. 2 Recursive partitioning tree obtained from the full model. *l.apicul*, *Luma apiculata* density; *drimys*, *Drymis winteri* density.