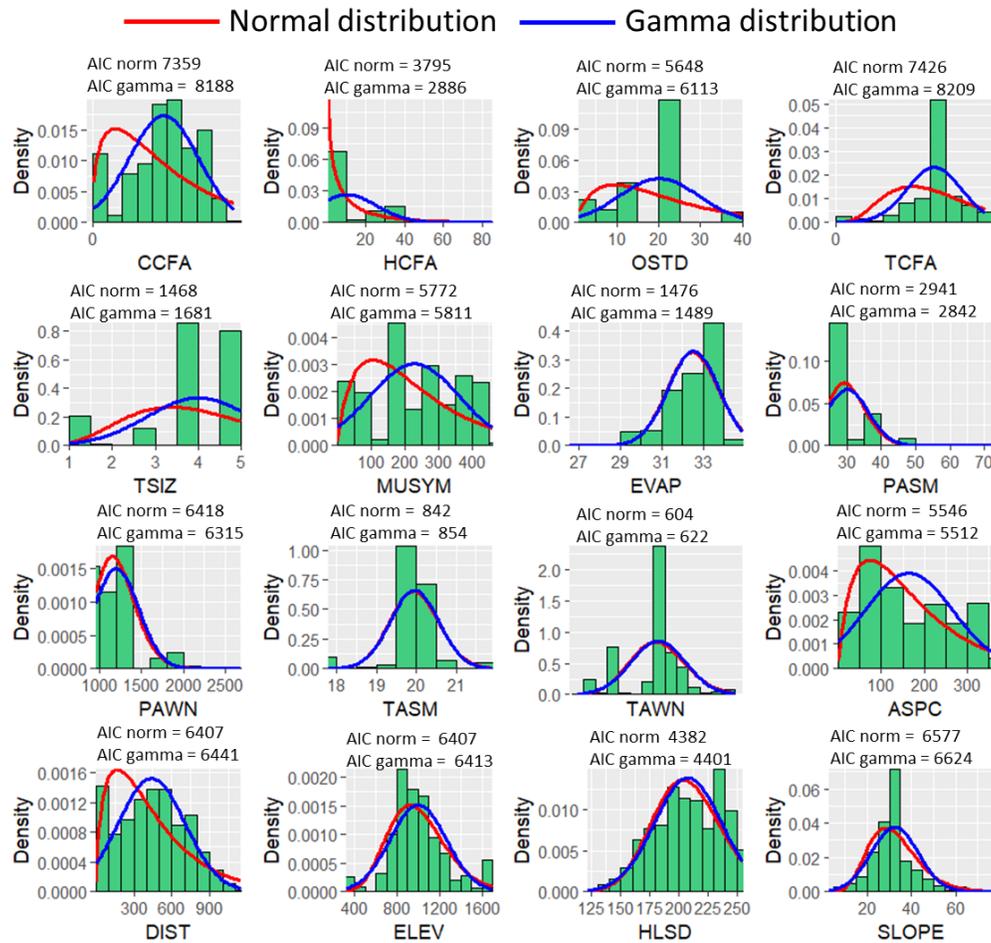
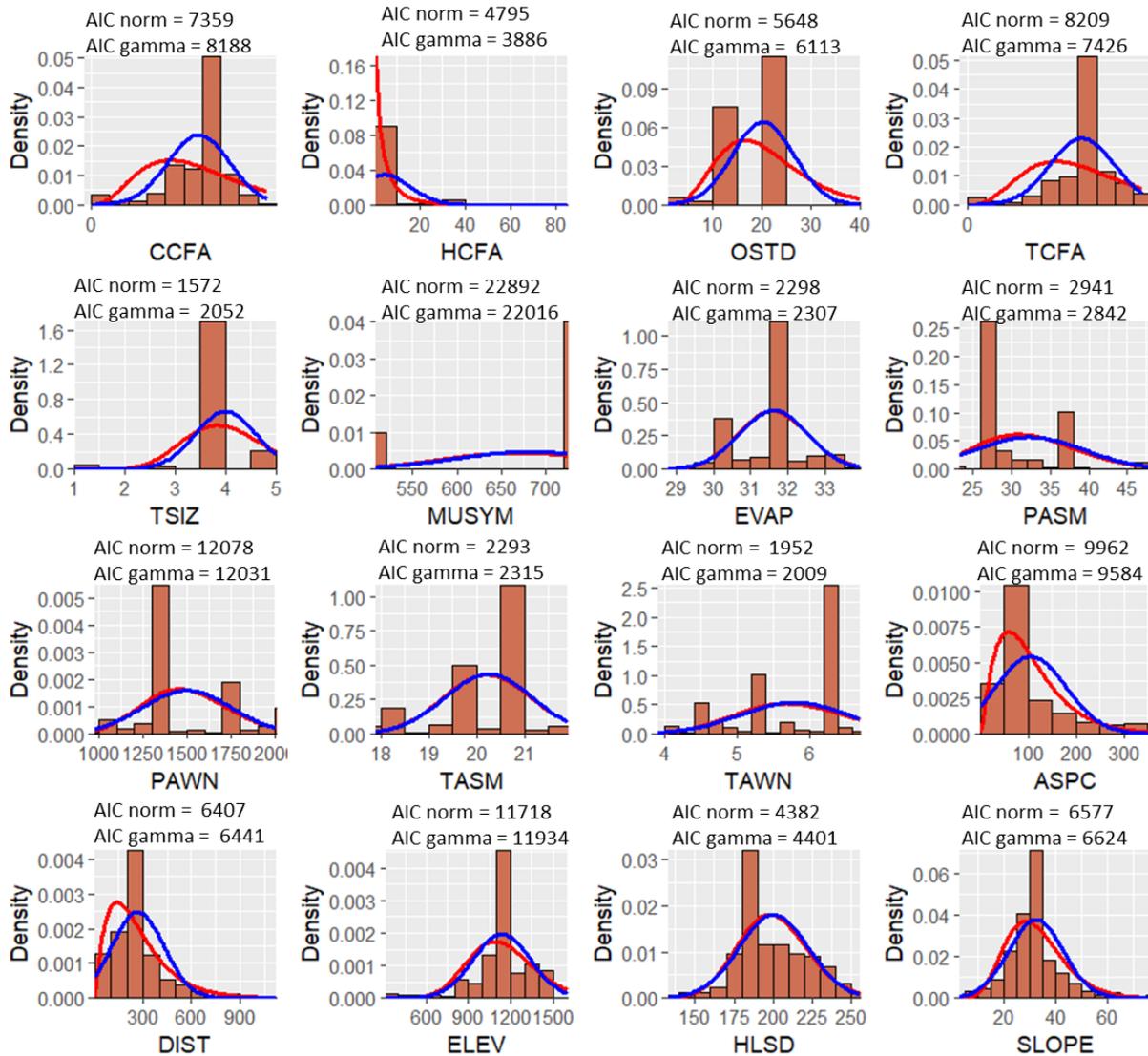


**Appendix I.** Bar graphs of mesoscale environmental variables sampled for *M. churchi*. 1) **Forest Stand and Soil Structure** (CCFA = Conifer Cover from Above, HCFA = Hardwood Cover from Above, OSTD = Over-story Tree Diameter, TCFA = Total Tree Cover from Above, TSIZ = Tree Size Class, and MUSYM = soil-type); 2) **Mesoscale Climate** (EVAP = Evapotranspiration, PASM = Average Annual Summer Precipitation, PAWN = Average Annual Winter Precipitation, TASM = Average Annual Summer Temperature, TAWN = Average Annual Winter Temperature; 3) **Exposure-Distance** (DNST = Distance to Nearest Stream (m), ELEV = Elevation, HLSD = Hill-shade, SLOP = Slope).

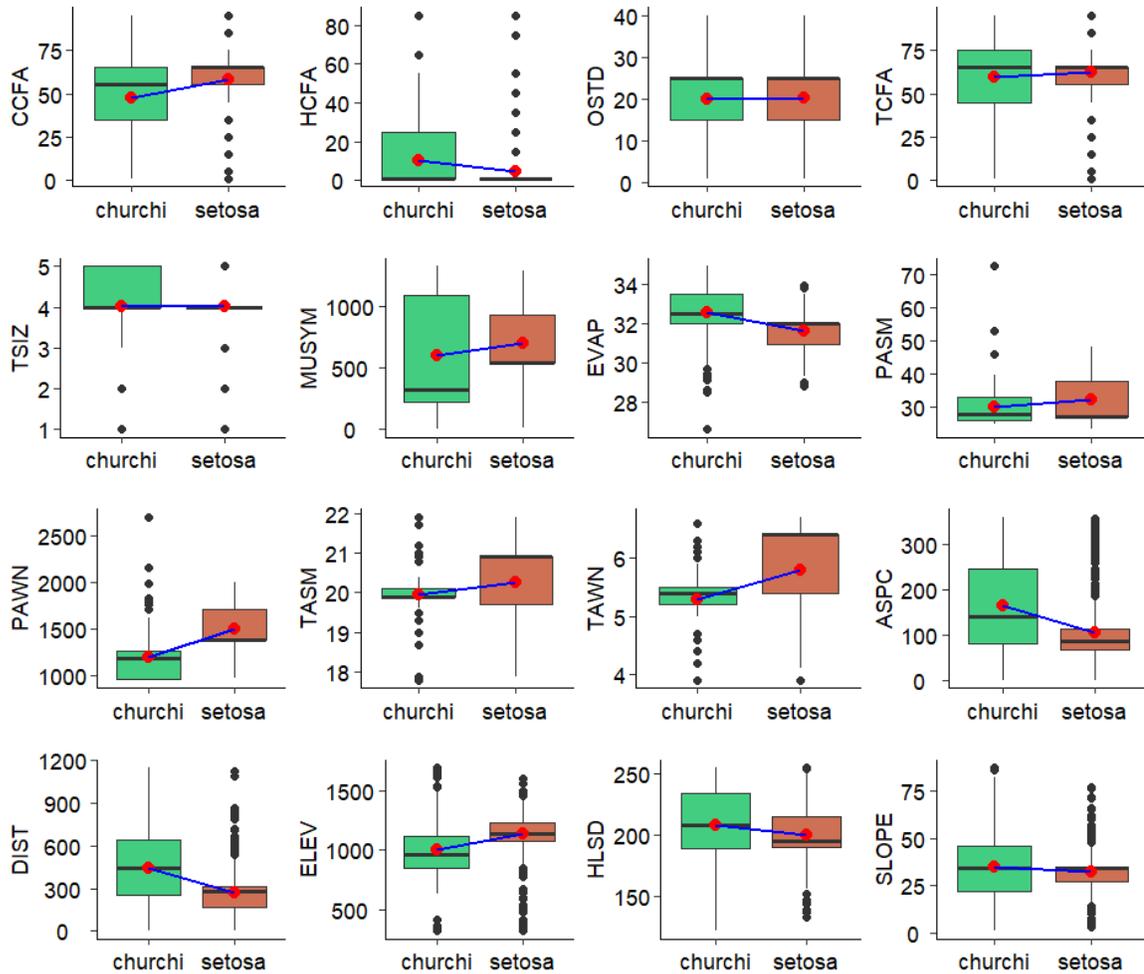


**Appendix II.** Bar graphs of mesoscale environmental variables sampled for *M. setosa*. 1) **Forest Stand and Soil Structure** (CCFA = Conifer Cover from Above, HCFA = Hardwood Cover from Above, OSTD = Over-story Tree Diameter, TCFA = Total Tree Cover from Above, TSIZ = Tree Size Class, and MUSYM = soil-type); 2) **Mesoscale Climate** (EVAP = Evapotranspiration, PASM = Average Annual Summer Precipitation, PAWN = Average Annual Winter Precipitation, TASM = Average Annual Summer Temperature, TAWN = Average Annual Winter Temperature; 3) **Exposure-Distance** (DNST = Distance to Nearest Stream (m), ELEV = Elevation, HLSD = Hill-shade, SLOP = Slope).

— Normal distribution — Gamma distribution



**Appendix III.** Boxplots of mesoscale environmental variables sampled within the range of occurrence between species. 1) **Forest Stand and Soil Structure** CCFA = Conifer Cover from Above, HCFA = Hardwood Cover from Above, OSTD = Over-story Tree Diameter, TCFA = Total Tree Cover from Above, TSIZ = Tree Size Class, and MUSYM = soil-type (rank); 2) **Mesoscale Climate** EVAP = Evapotranspiration, PASM = Average Annual Summer Precipitation, PAWN = Average Annual Winter Precipitation, TASM = Average Annual Summer Temperature, TAWN = Average Annual Winter Temperature; 3) **Exposure-Distance** DNST = Distance to Nearest Stream (m), ELEV = Elevation, HLSD = Hill-shade, SLOP = Slope. (Green = *M. churchi*, brown = *M. setosa*)



**Appendix IV.** Boxplots of seasonal mesoscale climatic variance in Maximum and Minimum Temperature (TMIN1-12 and TMAX1-12) and Precipitation (PPT1-12) for each species within the zone of co-occurrence.

