

Top row: Individual trees (n=121) | Middle row: Species medians (n=10) | Bottom: Model comparison

Individual Tree Level

CH₄ flux (nmol m⁻² s⁻¹)

log₁₀.(area-weighted mcrA)

$r = 0.02$, $p = 0.859$
 $R^2 = 0.000$

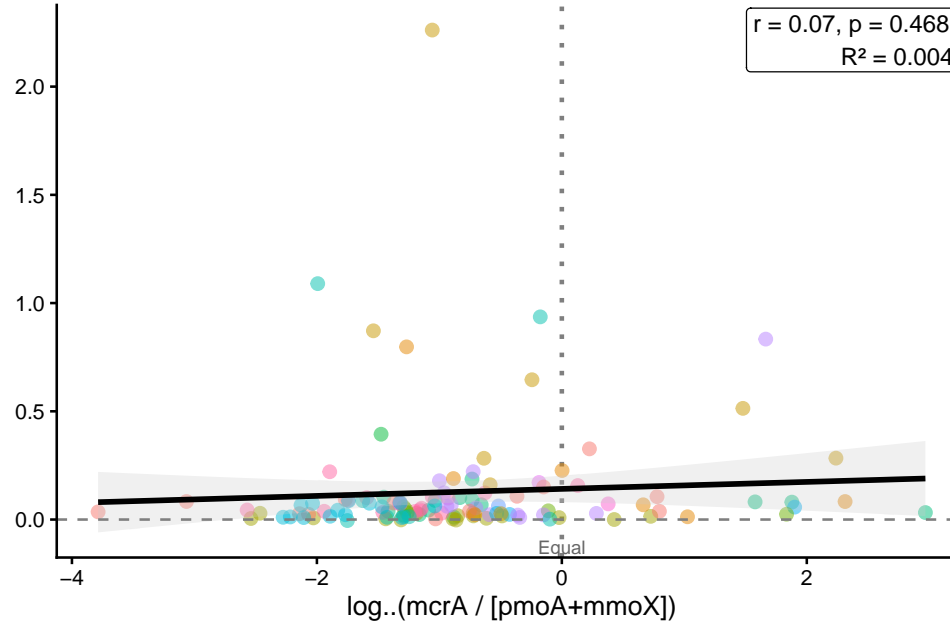
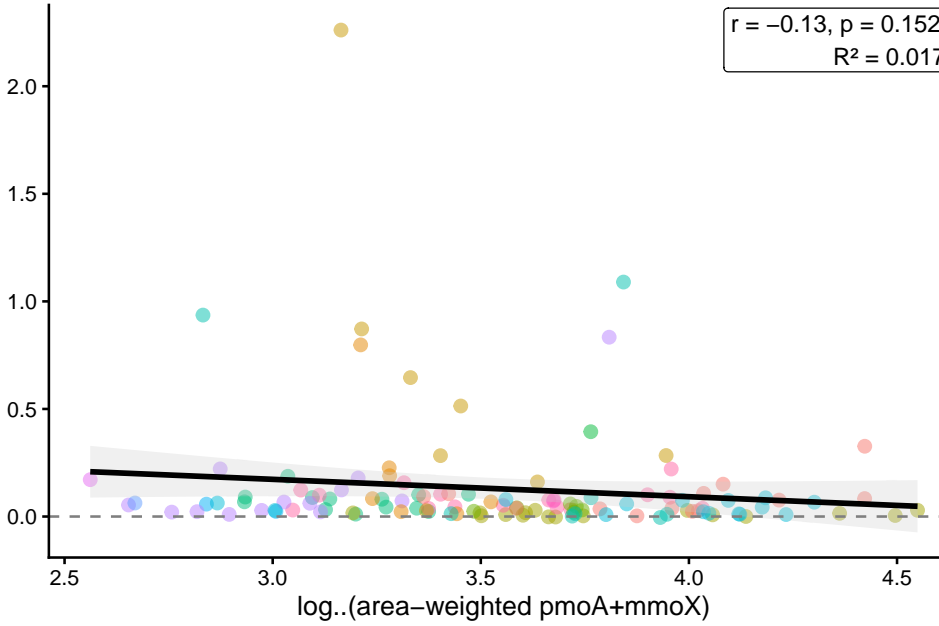
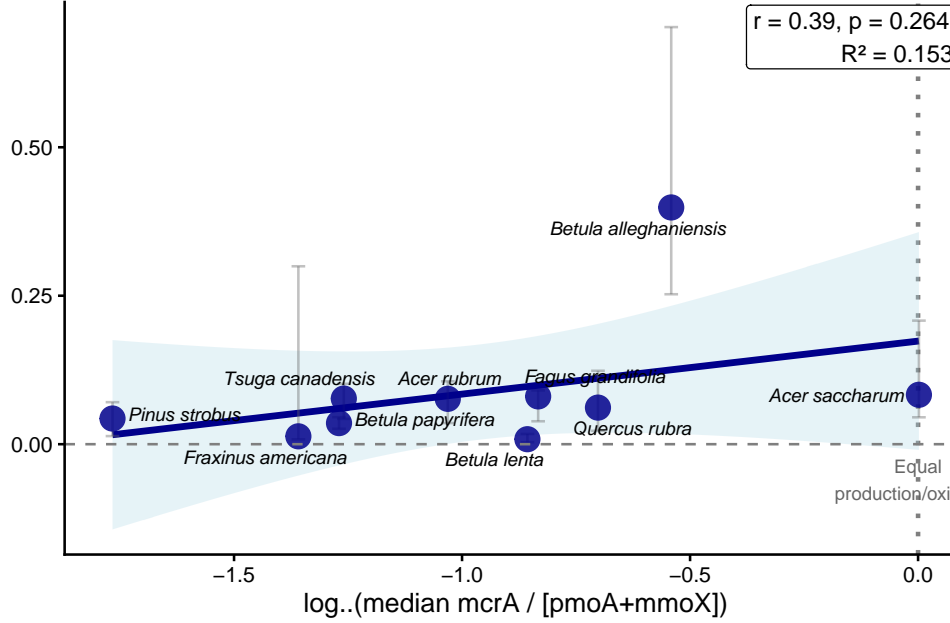
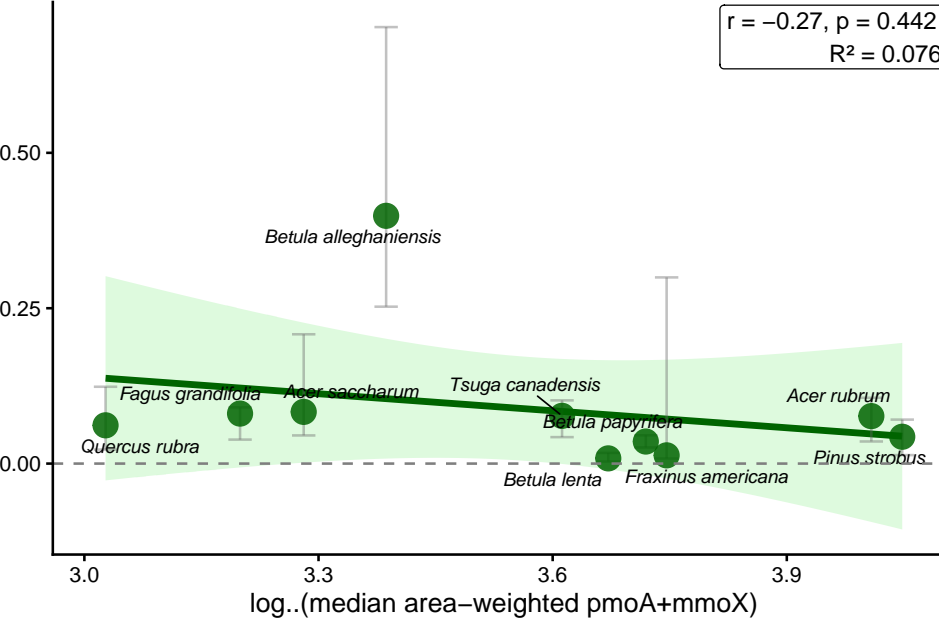


Figure 2 is a scatter plot showing the relationship between the log-transformed median area-weighted *mcrA* (x-axis) and the median CH₄ flux (y-axis) for 11 tree species. The y-axis is labeled "Median CH₄ flux (nmol m⁻² s⁻¹)" and ranges from 0.0 to 0.6. The x-axis is labeled "log..(median area-weighted mcrA)" and ranges from 2.4 to 3.3. A red regression line is shown, with a shaded area representing the confidence interval. The correlation coefficient is $r = 0.41$, $p = 0.237$, and $R^2 = 0.170$. The data points are labeled with the names of the tree species: *Quercus rubra*, *Fraxinus americana*, *Pinus strobus*, *Fagus grandifolia*, *Tsuga canadensis*, *Betula papyrifera*, *Betula lenta*, *Acer rubrum*, *Betula alleghaniensis*, and *Acer saccharum*.



The bar chart displays the coefficient of determination (R^2) for three variables (mcrA, Methanotrophs, and Ratio) at two different levels: Individual Trees and Species Level. The y-axis represents R^2 values from 0.00 to 0.20. The x-axis is divided into two main sections: Individual Trees and Species Level. Each section contains three bars corresponding to the variables. The R^2 values are explicitly labeled above each bar.

Level	Variable	R^2 Value
Individual Trees	mcrA	0.000
	Methanotrophs	0.017
	Ratio	0.004
Species Level	mcrA	0.170
	Methanotrophs	0.076
	Ratio	0.153

$p \geq 0.05$