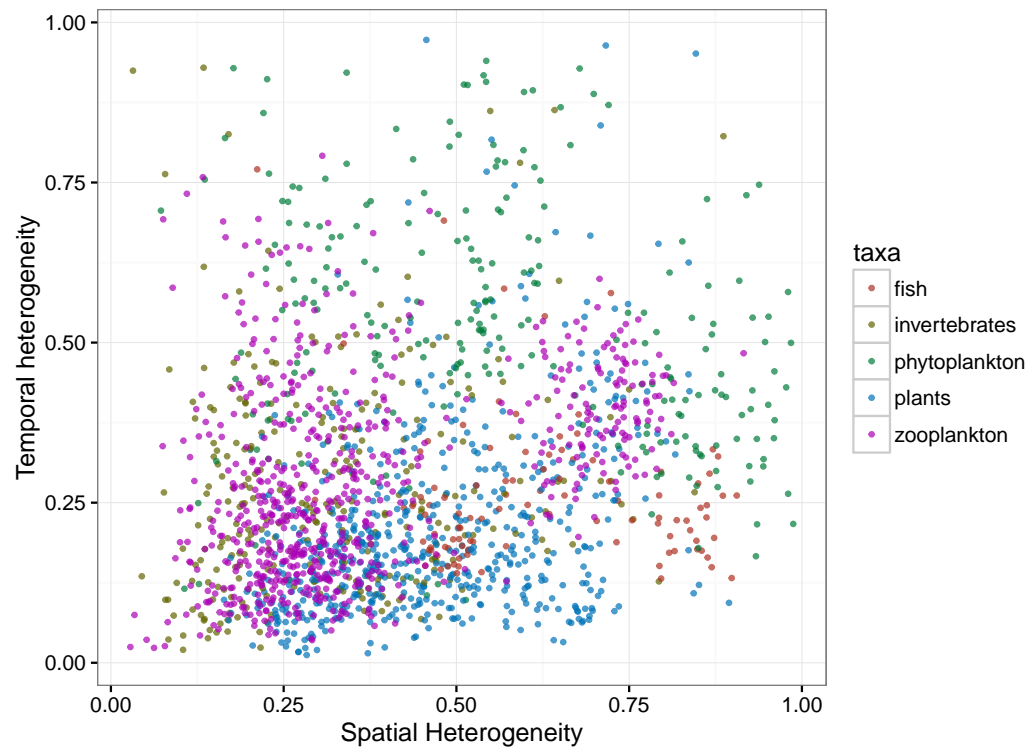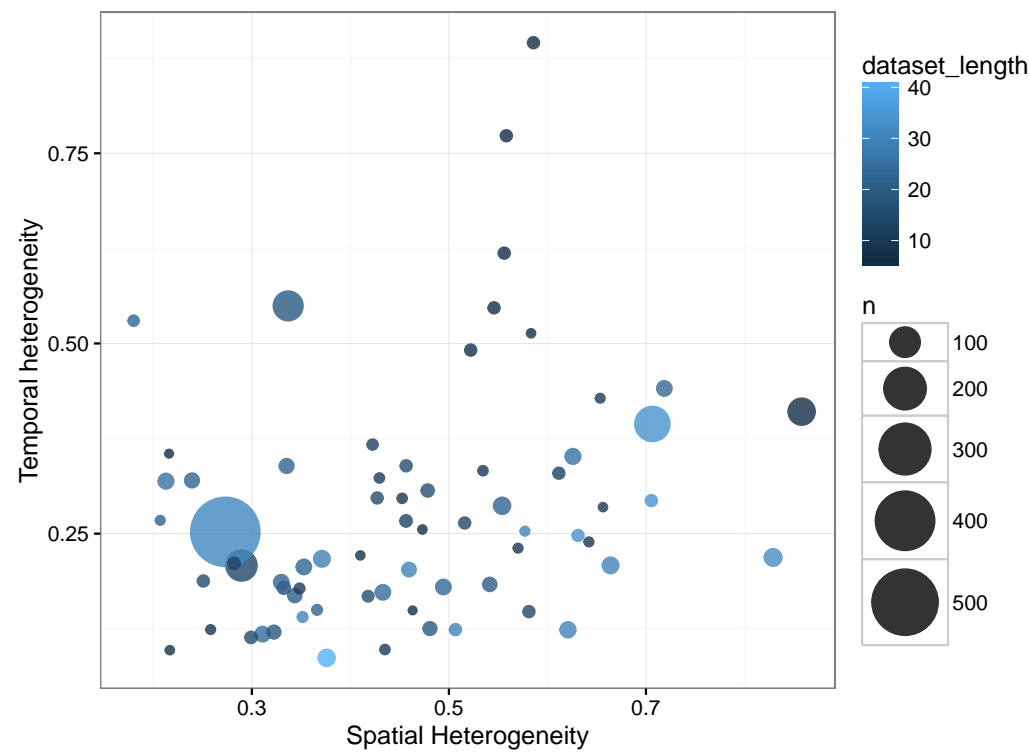# Community Dyanmics meta analysis - Draft

February 26, 2016

1 Results

Overall relationship between spatial and temporal heterogeneity

Overall relationship, aggregated by study.
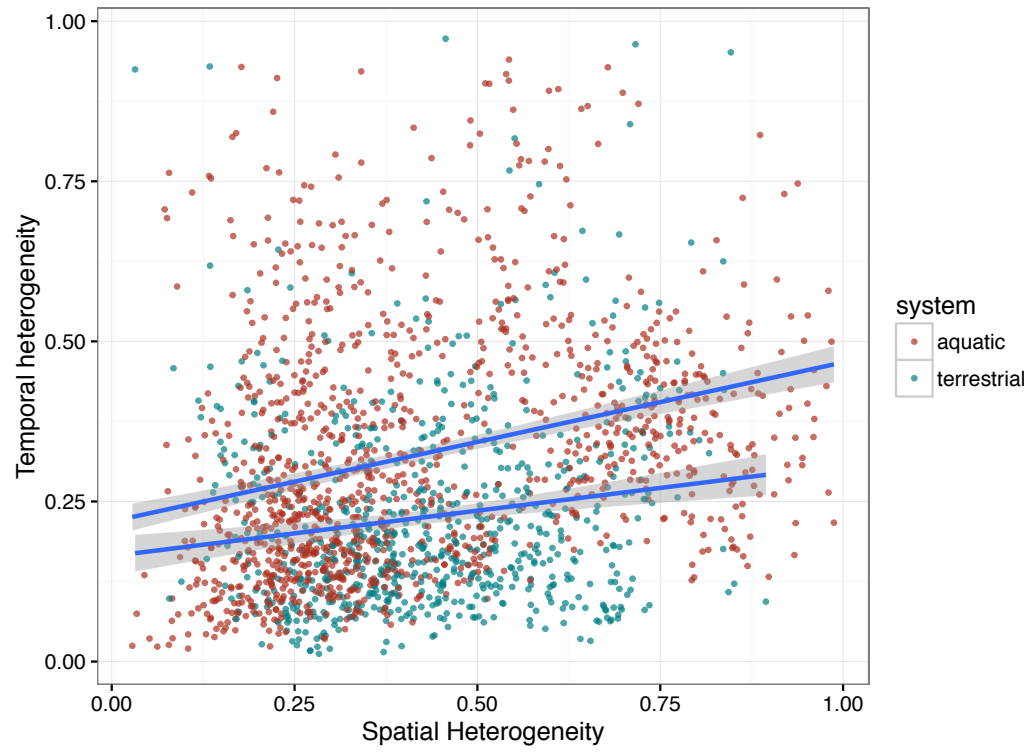
Difference between aquatic and terrestrial studies

Table 1. Summary of mixed effect model of spatial heterogeneity on temporal heterogeneity, with study design features as covariates

	Estimate	Std. Error	t value
(Intercept)	0.29	0.07	4.00
dispersion	0.23	0.08	3.00
plot_size	-0.00	0.00	-0.66
num_plots	0.00	0.00	0.73
spatial_extent	-0.00	0.00	-0.37
dataset_length	-0.00	0.00	-1.79
time_step	-0.07	0.04	-1.67

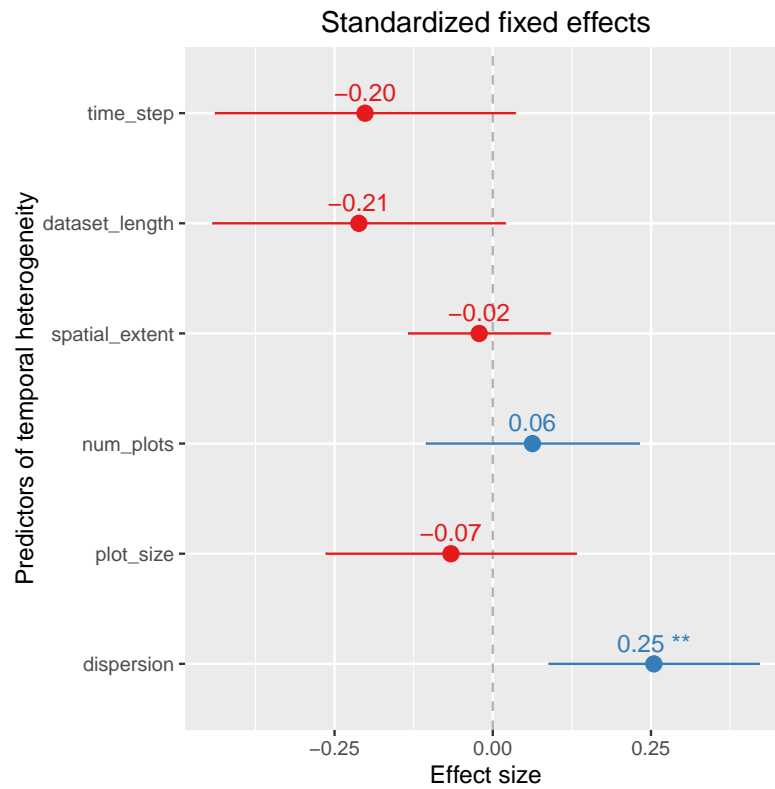Figure 4. Summary of mixed-effect model for study design features

Table 2. System and organism-level features as covariates of effect of spatial heterogeneity on temporal heterogeneity

	Estimate	Std. Error	t value
(Intercept)	0.05	0.15	0.35
dispersion	0.33	0.08	3.99
taxainvertebrates	0.16	0.17	0.95
taxaphytoplankton	0.18	0.17	1.03
taxaplants	0.12	0.17	0.72
taxazooplankton	0.12	0.15	0.78
lifespanlonger	-0.07	0.04	-1.62
S	0.00	0.00	0.64
ANPP	-0.00	0.00	-0.43
successionyes	0.05	0.03	1.84
systemterrestrial	-0.06	0.10	-0.55

Figure 5. Summary of mixed-effect model for taxonomic and ecosystem type system features