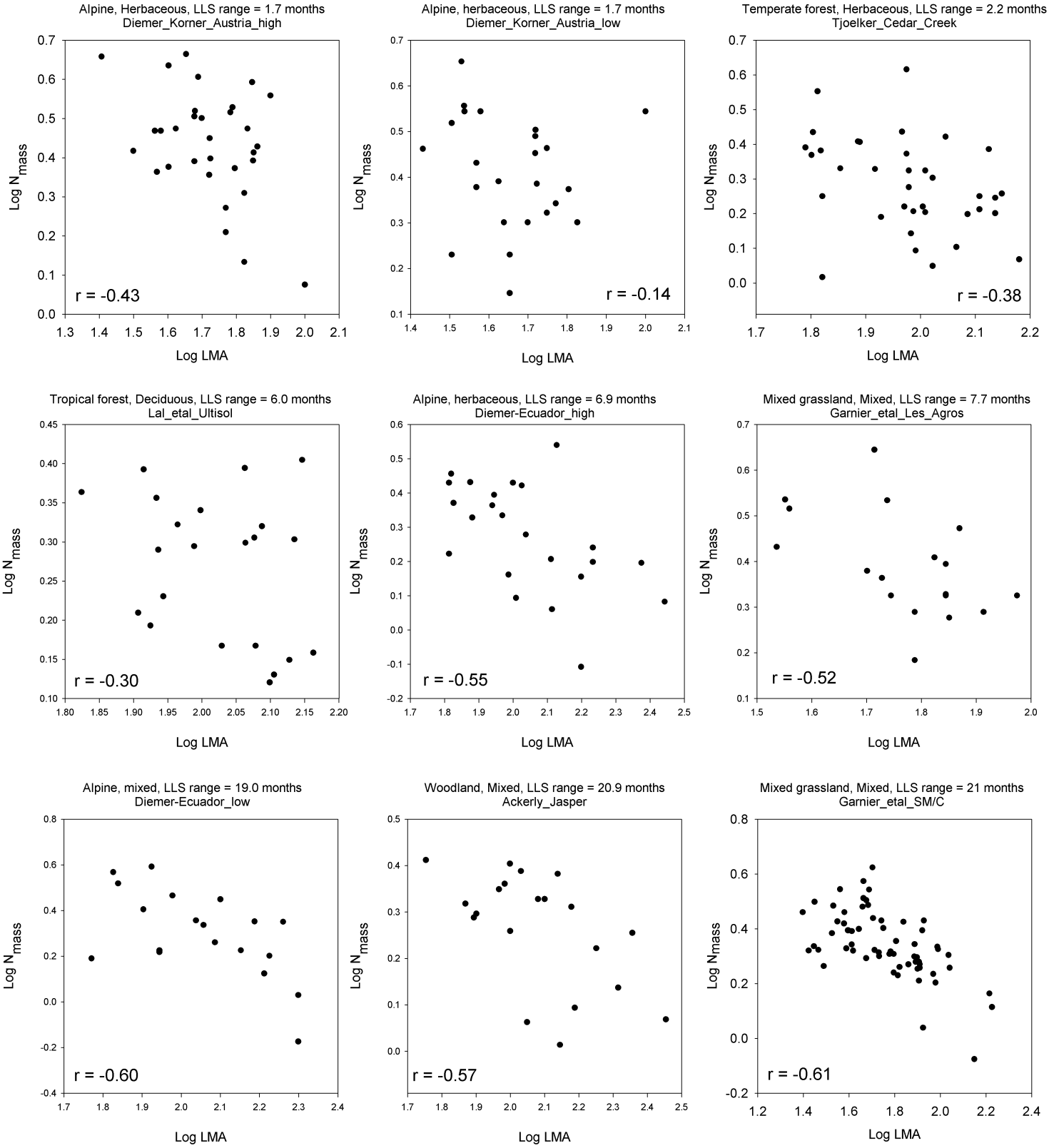
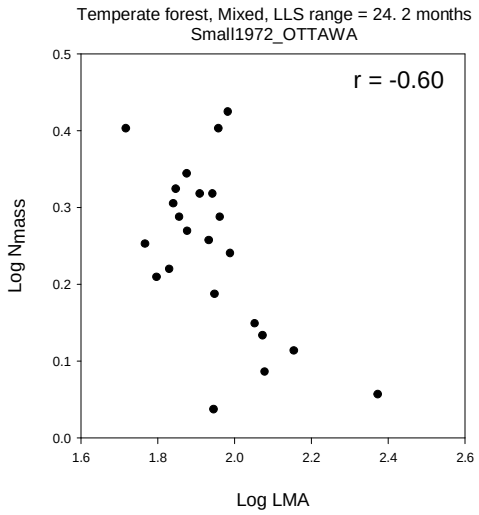
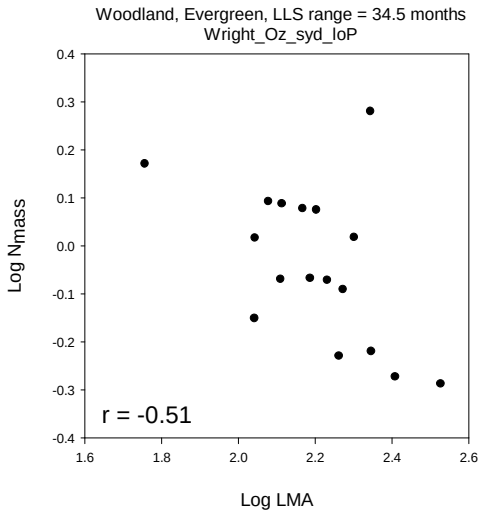
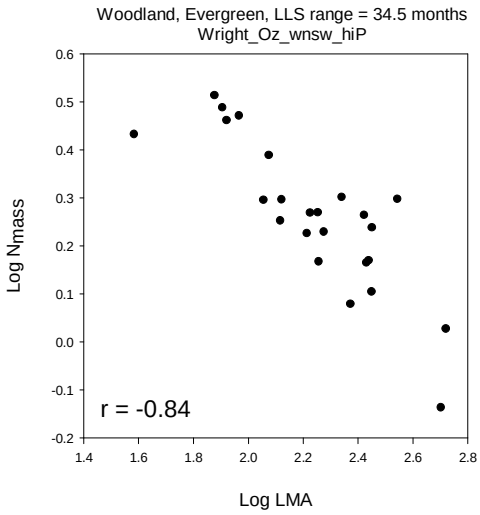
Appendix B - Bivariate relationships for GLOPNET datasets with N > 25 for which leaf lifespan data are available. For each relationship, communities are arranged from low to high variation in LLS. Correlation coefficients are given for each relationship. Community type is given for each community (> 80% herbaceous, deciduous woody, evergreen woody, or mixed).

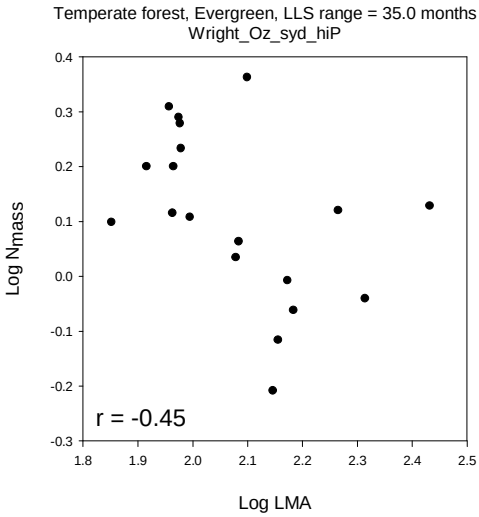
A. LMA-N_{mass} correlations, N = 21 communities

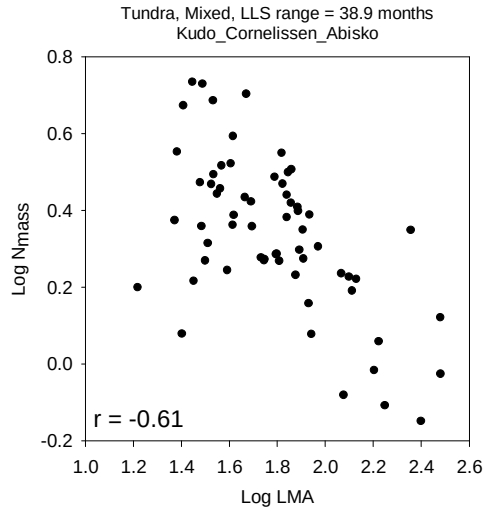


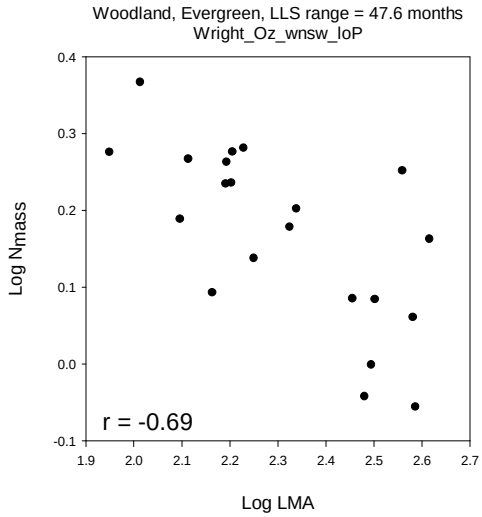

Temperate forest, Mixed, LLS range = 24. 2 months
Small1972_OTTAWA
r = -0.60
Log Nmass
Log LMA

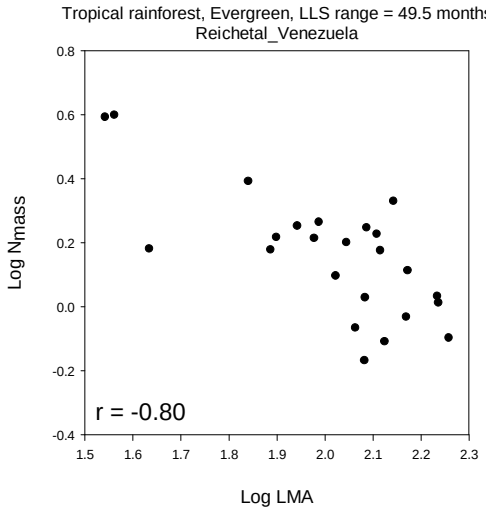

Woodland, Evergreen, LLS range = 34.5 months
Wright_Oz_syd_loP
r = -0.51
Log Nmass
Log LMA

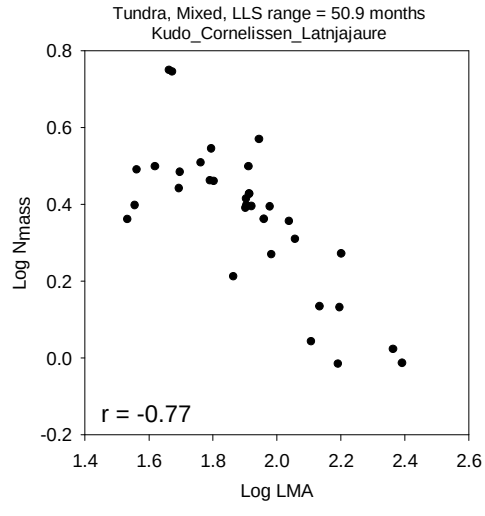

Woodland, Evergreen, LLS range = 34.5 months
Wright_Oz_wnsw_hiP
r = -0.84
Log Nmass
Log LMA

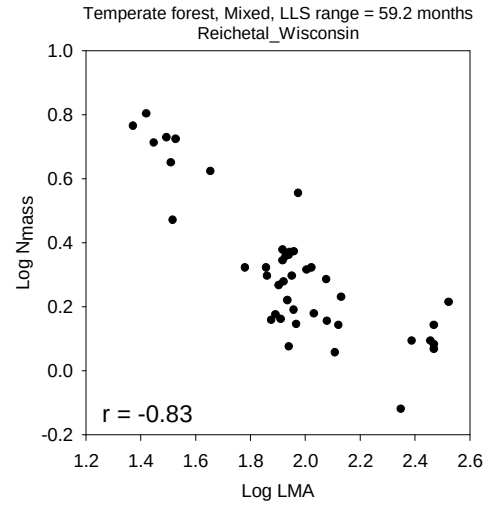

Temperate forest, Evergreen, LLS range = 35.0 months
Wright_Oz_syd_hiP
r = -0.45
Log Nmass
Log LMA

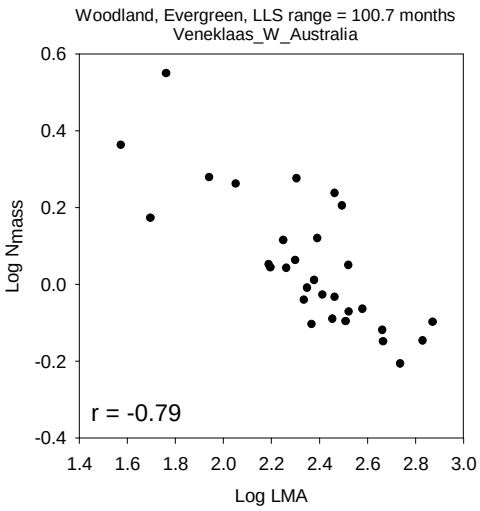

Tundra, Mixed, LLS range = 38.9 months
Kudo_Cornelissen_Abisko
r = -0.61
Log Nmass
Log LMA

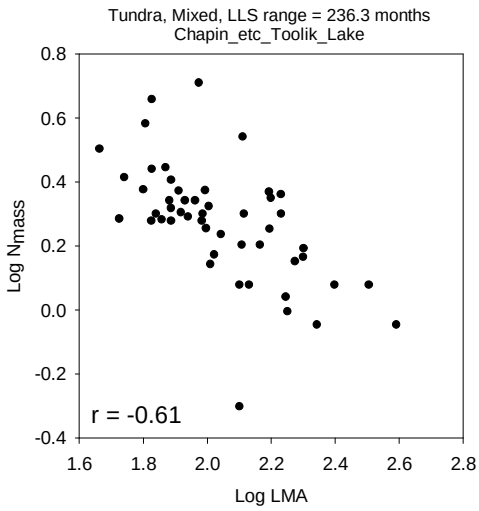

Woodland, Evergreen, LLS range = 47.6 months
Wright_Oz_wnsw_loP
r = -0.69
Log Nmass
Log LMA

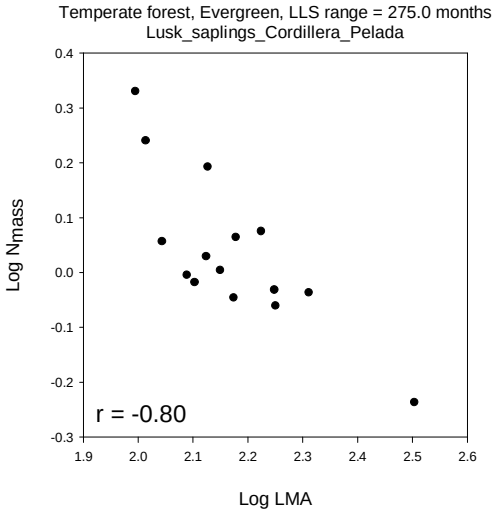

Tropical rainforest, Evergreen, LLS range = 49.5 months
Reichetal_Venezuela
r = -0.80
Log Nmass
Log LMA


Tundra, Mixed, LLS range = 50.9 months
Kudo_Cornelissen_Latnjajaure
r = -0.77
Log Nmass
Log LMA

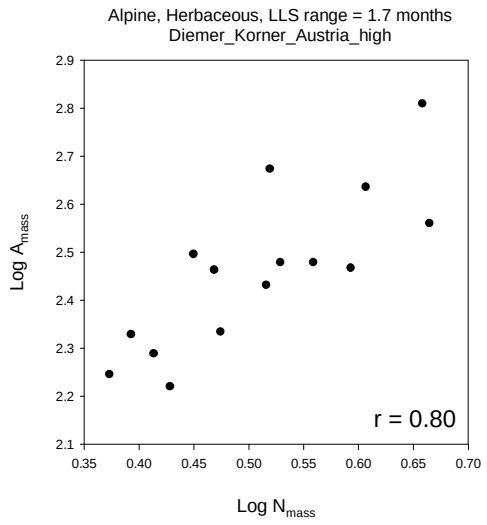

Temperate forest, Mixed, LLS range = 59.2 months
Reichetal_Wisconsin
r = -0.83
Log Nmass
Log LMA

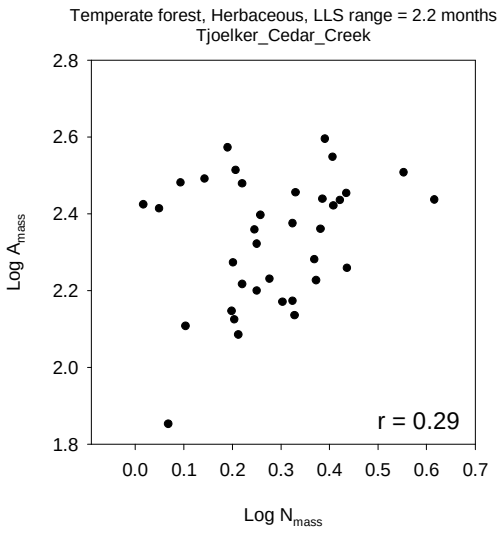

Woodland, Evergreen, LLS range = 100.7 months
Veneklaas_W_Australia
Log Nmass
Log LMA
r = -0.79
0.6
0.4
0.2
0.0
-0.2
-0.4
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0

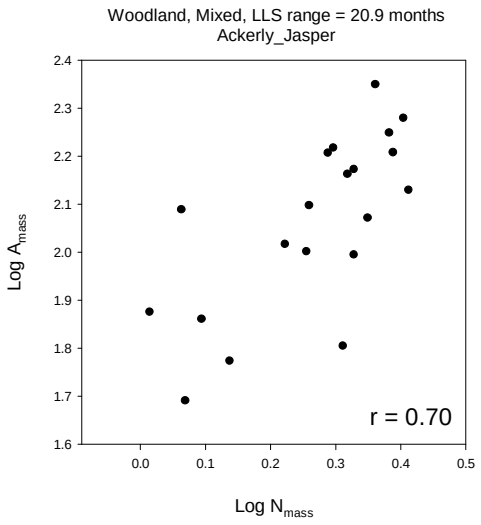

Tundra, Mixed, LLS range = 236.3 months
Chapin_etc_Toolik_Lake
Log Nmass
Log LMA
r = -0.61
0.8
0.6
0.4
0.2
0.0
-0.2
-0.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8

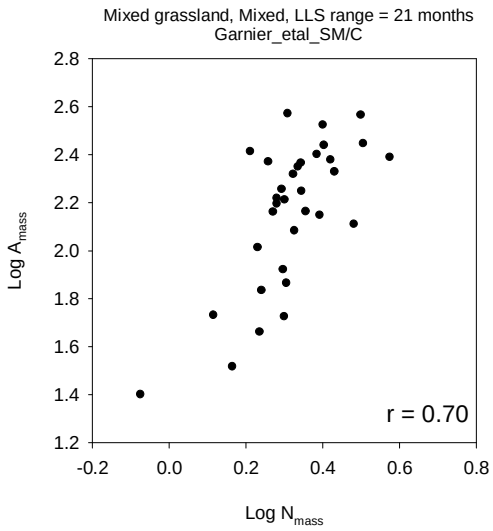

Temperate forest, Evergreen, LLS range = 275.0 months
Lusk_saplings_Cordillera_Pelada
Log Nmass
Log LMA
r = -0.80
0.4
0.3
0.2
0.1
0.0
-0.1
-0.2
-0.3
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6

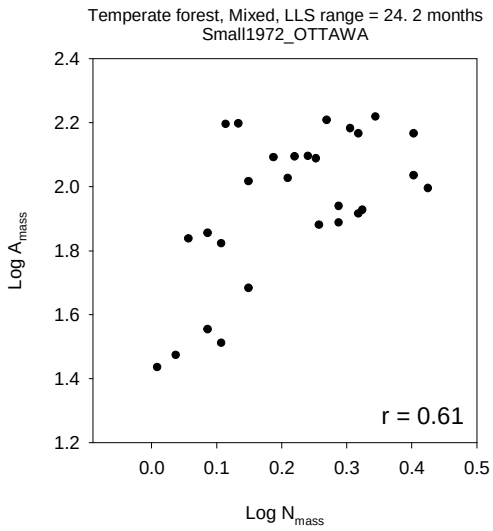
B. A_{mass}-N_{mass} correlations, N = 13 communities

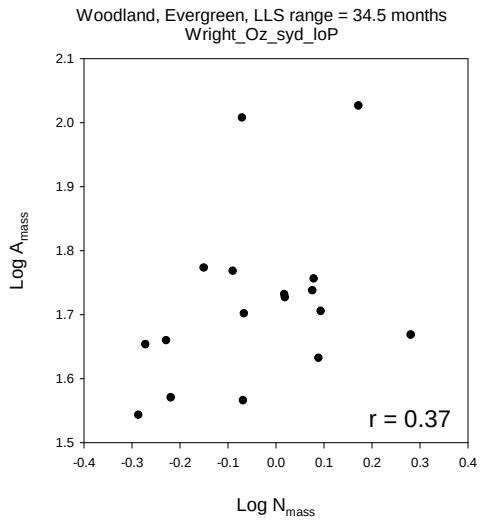


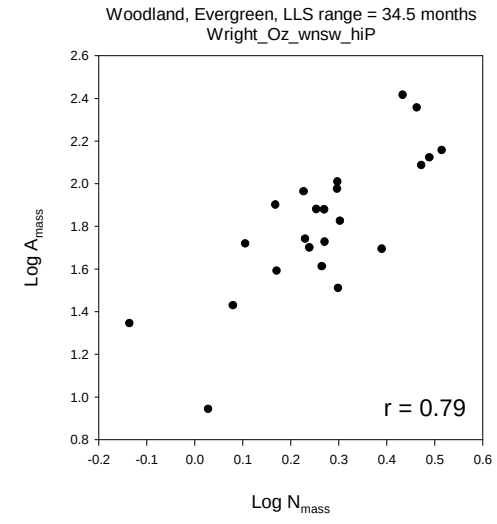


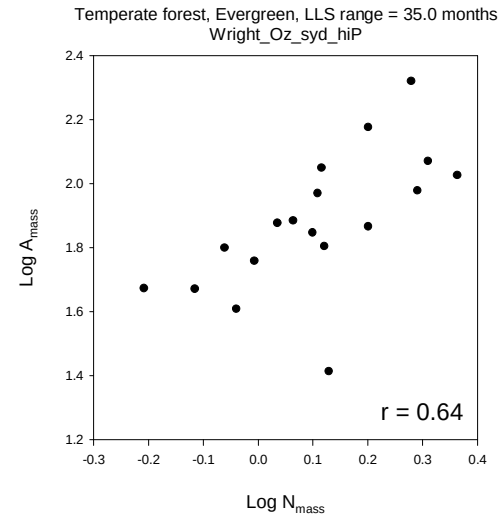


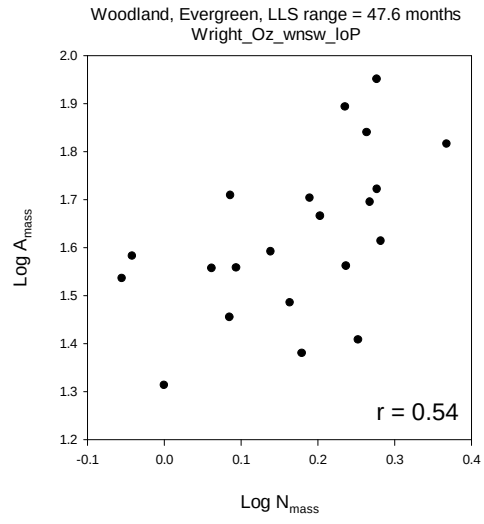


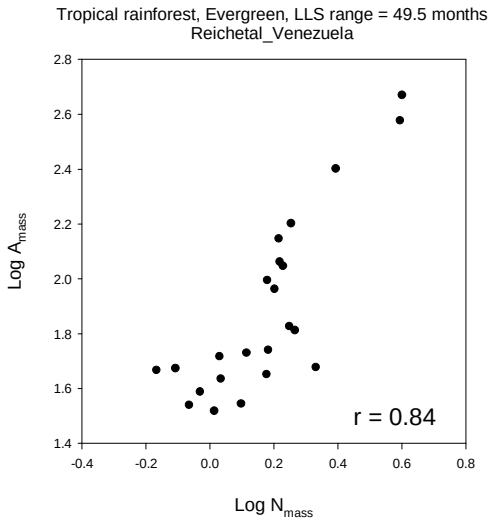


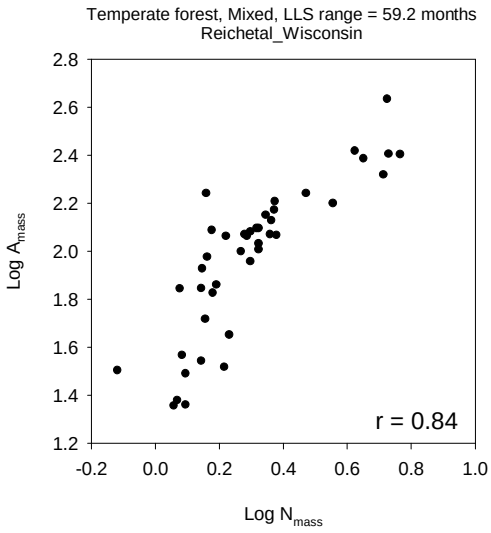


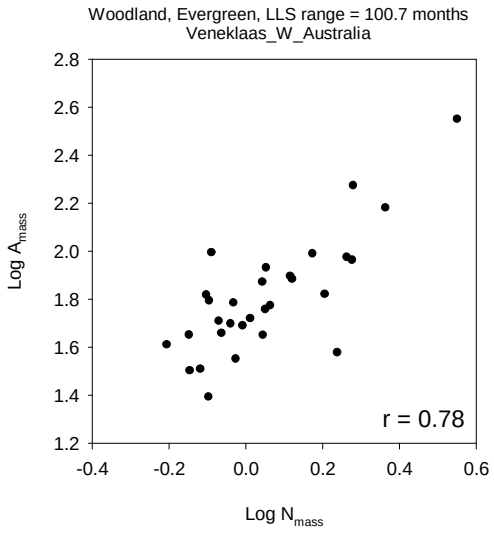


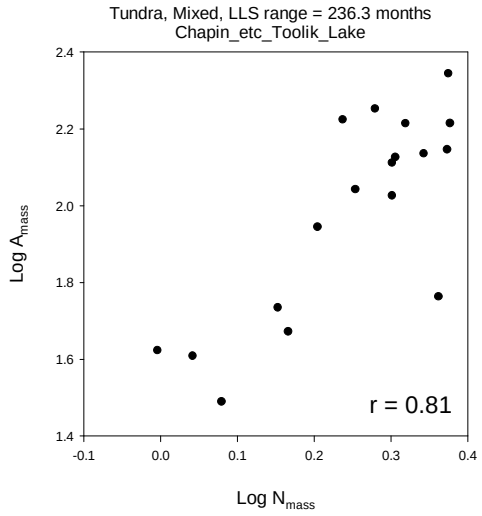




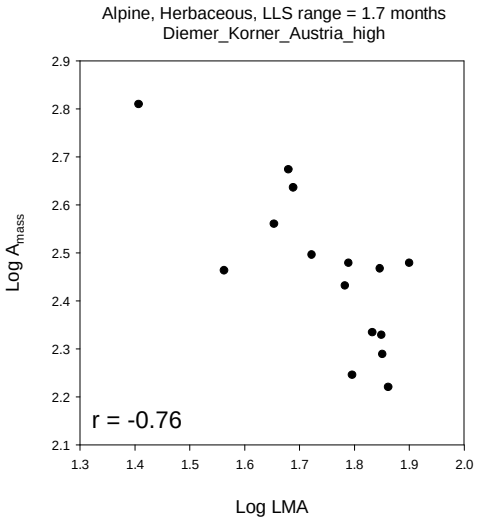

Tropical rainforest, Evergreen, LLS range = 49.5 months
Reichetal_Venezuela
r = 0.84
Log A_{mass}
Log N_{mass}

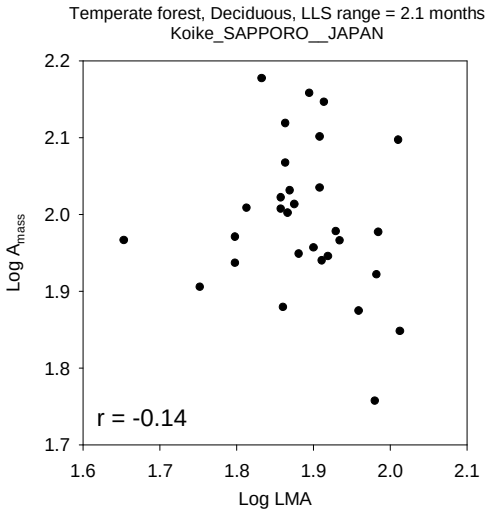

Temperate forest, Mixed, LLS range = 59.2 months
Reichetal_Wisconsin
r = 0.84
Log A_{mass}
Log N_{mass}

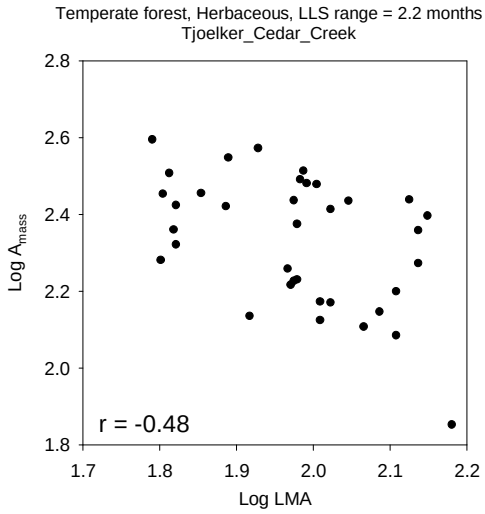

Woodland, Evergreen, LLS range = 100.7 months
Veneklaas_W_Australia
r = 0.78
Log A_{mass}
Log N_{mass}

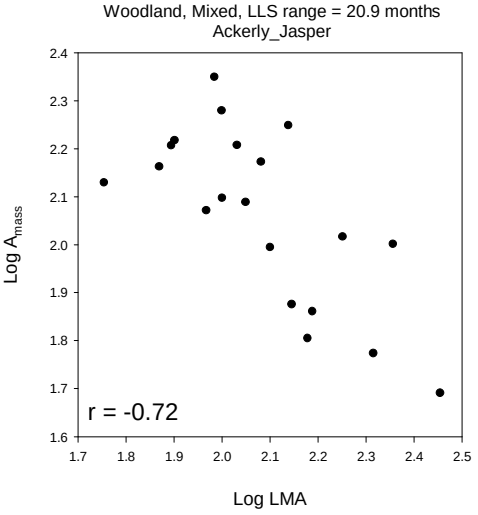

Tundra, Mixed, LLS range = 236.3 months
Chapin_etc_Toolik_Lake
r = 0.81
Log A_{mass}
Log N_{mass}

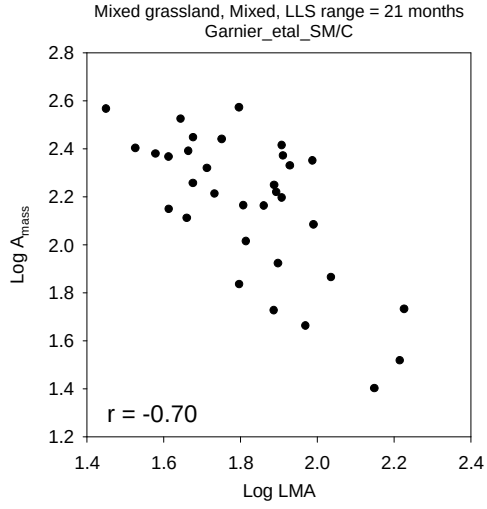
C. LMA-A_{mass} correlations, N = 14 communities

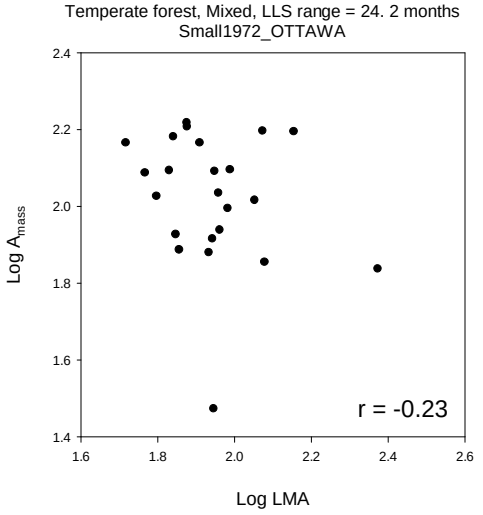


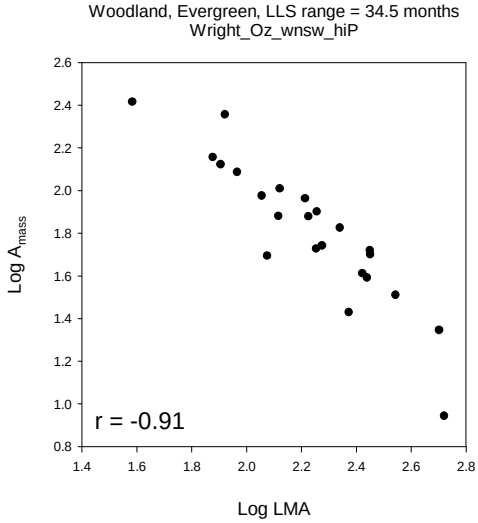


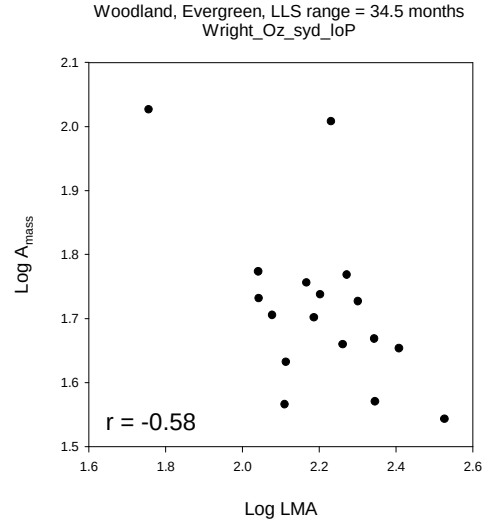


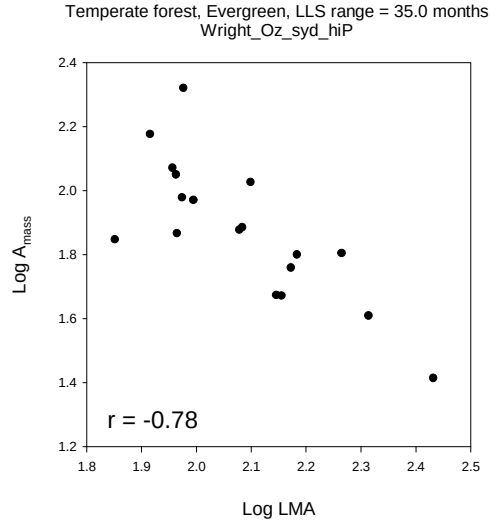


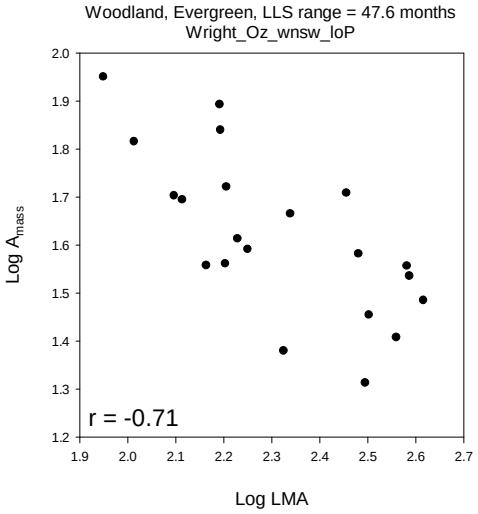


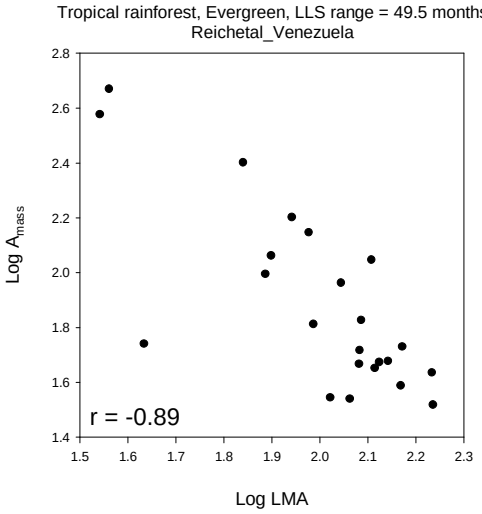


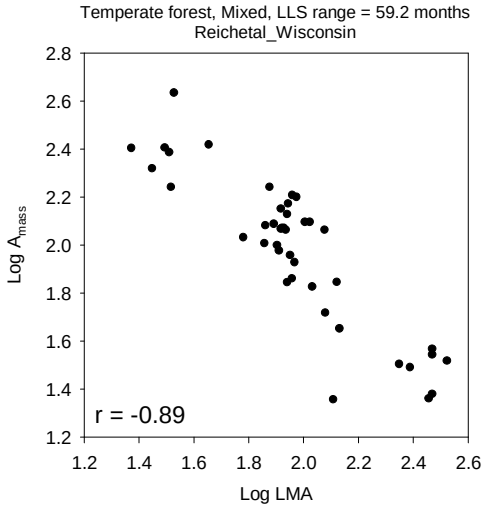


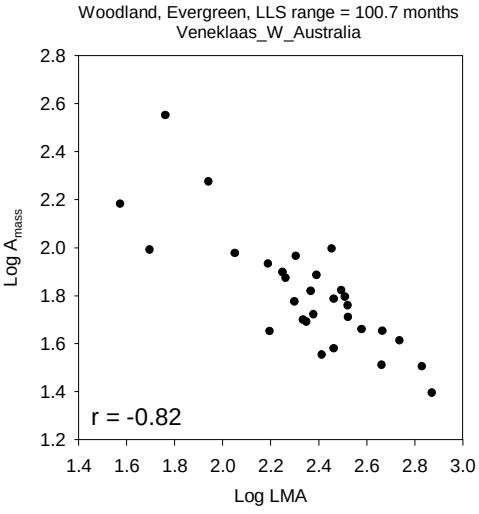


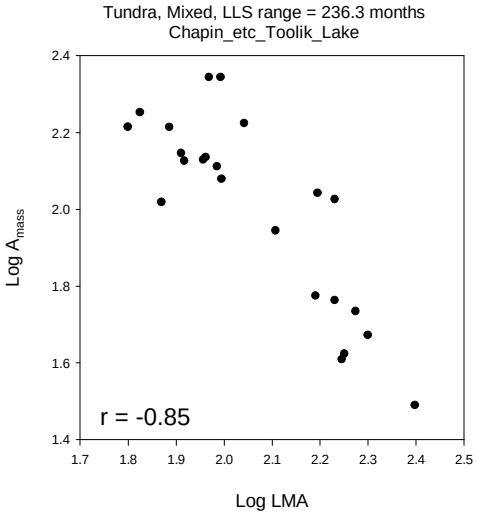



Woodland, Evergreen, LLS range = 47.6 months
Wright_Oz_wnsw_loP
Log A_{mass}
Log LMA
r = -0.71


Tropical rainforest, Evergreen, LLS range = 49.5 months
Reichetal_Venezuela
Log A_{mass}
Log LMA
r = -0.89


Temperate forest, Mixed, LLS range = 59.2 months
Reichetal_Wisconsin
Log A_{mass}
Log LMA
r = -0.89


Woodland, Evergreen, LLS range = 100.7 months
Veneklaas_W_Australia
Log A_{mass}
Log LMA
r = -0.82


Tundra, Mixed, LLS range = 236.3 months
Chapin_etc_Toolik_Lake
Log A_{mass}
Log LMA
r = -0.85