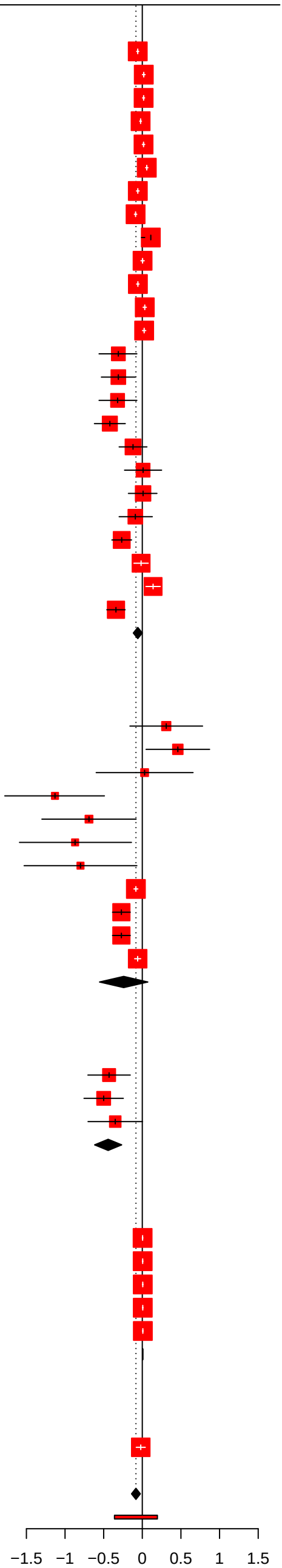
Figure S3

Study or Subgroup	Estimate (ß)	SE	Weight	Estimate (ß) IV, Random, 95% CI
predictor = abundance				
jiang	−0.0590	0.0070	3.0%	−0.06 [−0.07; −0.05]
jiang	0.0190	0.0090	3.0%	0.02 [0.00; 0.04]
jiang	0.0170	0.0070	3.0%	0.02 [0.00; 0.03]
jiang	−0.0220	0.0060	3.0%	−0.02 [−0.03; −0.01]
jiang	0.0160	0.0080	3.0%	0.02 [0.00; 0.03]
jiang	0.0580	0.0080	3.0%	0.06 [0.04; 0.07]
jiang	−0.0580	0.0090	3.0%	−0.06 [−0.08; −0.04]
jiang	−0.0870	0.0080	3.0%	−0.09 [−0.10; −0.07]
johnson	0.1100	0.0110	3.0%	0.11 [−0.01; 0.03]
johnson	0.0035	0.0110	3.0%	0.00 [−0.02; 0.02]
johnson	−0.0570	0.0084	3.0%	−0.06 [−0.07; −0.04]
johnson	0.0320	0.0110	3.0%	0.03 [0.01; 0.05]
johnson	0.0240	0.0108	3.0%	0.02 [0.00; 0.04]
lu	−0.3100	0.1250	1.6%	−0.31 [−0.56; −0.07]
lu	−0.3100	0.1122	1.8%	−0.31 [−0.53; −0.09]
lu	−0.3200	0.1250	1.6%	−0.32 [−0.56; −0.07]
lu	−0.4200	0.1020	1.9%	−0.42 [−0.62; −0.22]
lu	−0.1200	0.0918	2.1%	−0.12 [−0.30; 0.06]
lu	0.0100	0.1225	1.6%	0.01 [−0.23; 0.25]
lu	0.0100	0.0944	2.0%	0.01 [−0.18; 0.19]
lu	−0.0900	0.1097	1.8%	−0.09 [−0.30; 0.13]
phogole	−0.2665	0.0651	2.4%	−0.27 [−0.39; −0.14]
phogole	−0.0158	0.0473	2.7%	−0.02 [−0.11; 0.08]
phogole	0.1397	0.0473	2.7%	0.14 [0.05; 0.23]
phogole	−0.3410	0.0605	2.5%	−0.34 [−0.46; −0.22]
Total (95% CI)			**63.5%**	**−0.06 [−0.12; −0.00]**
Heterogeneity: $Tau^2 = 0.0144$; $Chi^2 = 551.62$, df = 24 ($P < 0.01$); $I^2 = 96\%$				
predictor = ndvi				
grigsby_toussaint	0.3100	0.2400	0.7%	0.31 [−0.16; 0.78]
grigsby_toussaint	0.4600	0.2100	0.9%	0.46 [0.05; 0.87]
grigsby_toussaint	0.0300	0.3200	0.5%	0.03 [−0.60; 0.66]
lin	−1.1300	0.3291	0.4%	−1.13 [−1.78; −0.49]
lin	−0.6900	0.3112	0.5%	−0.69 [−1.30; −0.08]
lin	−0.8700	0.3699	0.4%	−0.87 [−1.59; −0.14]
lin	−0.8000	0.3725	0.4%	−0.80 [−1.53; −0.07]
peng	−0.0830	0.0130	3.0%	−0.08 [−0.11; −0.06]
phogole	−0.2707	0.0588	2.5%	−0.27 [−0.39; −0.16]
phogole	−0.2707	0.0588	2.5%	−0.27 [−0.39; −0.16]
spotswood	−0.0600	0.0200	2.9%	−0.06 [−0.10; −0.02]
Total (95% CI)			**14.6%**	**−0.24 [−0.55; 0.07]**
Heterogeneity: $Tau^2 = 0.1378$; $Chi^2 = 53$, df = 10 ($P < 0.01$); $I^2 = 81\%$				
predictor = canopy				
grigsby_toussaint	−0.4300	0.1400	1.4%	−0.43 [−0.70; −0.16]
grigsby_toussaint	−0.5000	0.1300	1.6%	−0.50 [−0.75; −0.25]
grigsby_toussaint	−0.3500	0.1800	1.1%	−0.35 [−0.70; 0.00]
Total (95% CI)			**4.1%**	**−0.44 [−0.62; −0.27]**
Heterogeneity: $Tau^2 = 0$; $Chi^2 = 0.47$, df = 2 ($P = 0.79$); $I^2 = 0\%$				
predictor = visitation				
zhai	0.0040	0.0020	3.0%	0.00 [0.00; 0.01]
zhai	0.0050	0.0020	3.0%	0.00 [0.00; 0.01]
zhai	0.0060	0.0020	3.0%	0.01 [0.00; 0.01]
zhai	0.0060	0.0020	3.0%	0.01 [0.00; 0.01]
zhai	0.0070	0.0020	3.0%	0.01 [0.00; 0.01]
Total (95% CI)			**15.0%**	**0.01 [0.00; 0.01]**
Heterogeneity: $Tau^2 = 0$; $Chi^2 = 1.3$, df = 4 ($P = 0.86$); $I^2 = 0\%$				
predictor = proximity				
spotswood	−0.0200	0.0300	2.9%	−0.02 [−0.08; 0.04]
Total (95% CI)			**100.0%**	**−0.08 [−0.14; −0.03]**
Prediction interval				**[−0.36; 0.20]**

Heterogeneity: $Tau^2 = 0.0184$; $Chi^2 = 749.60$, df = 44 ($P < 0.01$); $I^2 = 94\%$

Test for subgroup differences: $Chi^2 = 129.68$, df = 4 ($P < 0.01$)