**Fig. S1.** Coefficients of stochastic rainfall generator as a function of mean annual precipitation (MAP) across four North American LTER sites: (a) rate λ of the exponential distribution describing interarrival tS1imes between precipitation events, (b) mean μ and (c) standard deviation σ of the lognormal distribution describing event size. Key to LTER sites: J=Jornada, S=Shortgrass, CC=Cedar Creek, and K=Kellog.

