Parameters used in simulations

a.intra = -3.5

a.gen.mean = -7

a.diff.range = ±(1.5, 3.2)

a.env.range = ±(.5, 1.5)

focal species: 1

[1] "a.diff" "3" "7" "9" "8" "2" "13" "15"

[1] 1.961396

[1] 3.129007

[1] 2.648101

[1] -2.396445

[1] 3.130379

[1] -2.828948

[1] 3.03599

[1] "a.env.id" "1" "13" "5" "12" "14" "15" "6"

**perturb\_2**

Run to equilibrium and perturbed with random noise (mean and sd of the current population size, then rounded and truncated at 0)

**perburb2\_const**

Same df as pertub2 (based on the original test\_5 dataframe) but without alpha x env interactions

**perturb\_opt\_const**

different dataset with an optimum lambda-env relationship, constant alpha-env for simplicity, and updated perturbations with the same approach as perturb2

Focal species: 8

[1] "a.diff" "15" "6" "5" "11" "7" "8" "12"

[1] -2.576325

[1] 1.607529

[1] 2.826379

[1] 2.895728

[1] -3.155454

[1] 2.615059

[1] -2.026238