**Spatial asynchrony**

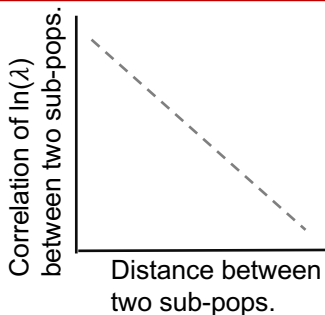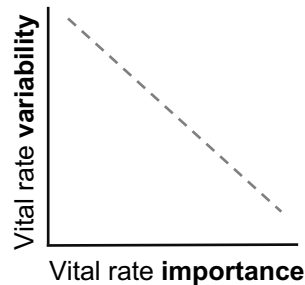Correlation of ln($\lambda$) between two sub-pops.

Distance between two sub-pops.

**Fine-scale source-sink dynamics**

No direct evidence without geneflow or dispersal data, but variation in ln($\lambda$) across space (as tested in "Spatial Asynchrony") is a necessary pre-requisite.

**Vital rate buffering**

Vital rate **variability**

Vital rate **importance**

**Long-term persistence of *O. coloradensis* populations**

**Demographic compensation**

**Correlation matrix** of environmental covariate effect sizes in different vital rate models

| | Growth model | Surv. model | Repro. model |
|---|---|---|---|
| Growth model | 1 | < 0* (P<0.05) | < 0* (P<0.05) |
| Surv. model | | 1 | < 0* (P<0.05) |
| Repro. model | | | 1 |

\* At least one significant negative correlation

**Negative density dependence**

**ln($\lambda$)** in year *t*

**Pop. size** in year *t*-1