Population Dynamics Exam 2

Lecture 8-12, Study Guide

Interspecific Interactions

Lotka-Volterra Predator-Prey Model

= predator and prey limit each other's growth potential

Model for prey

$$N_{t+1}^{prey} = N_t^{prey} + N_t^{prey}(r^{prey} - k^{pred}N_t^{pred})$$

Model for predator

$$N_{t+1}^{pred} = N_t^{pred} + N_t^{pred} (b^{pred} N_t^{prey} - d^{pred})$$

→ the model is based on geometric growth!!!

- r^{prey} = growth rate of prey (in the absence of predators)
- keres = kill rate
- b^{pred} = effect of prey on predator birth rate
- dired = predator mortality rate

Equilibrium

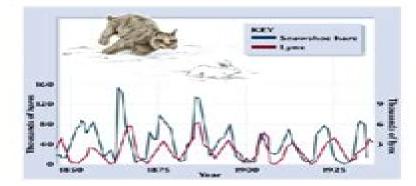
Equilibrium for prey occurs when:

Equilibrium for predators occurs when:

$$N^{pred} = \frac{r^{prey}}{k^{pred}}$$

$$N^{prey} = \frac{d^{pred}}{b^{pred}}$$

*** It is rare the both equilibrium conditions will be met at the same time
— populations will cycle!!!



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