

Lecture 16 – Predator Prey Interactions

Predation

Smith & Smith Ch 15 p. 265-283 (whole chapter); Ch 16 p. 300-304

Gilg et al, Science 302:866 (2003); Hudson, Science 302:797 (perspective)

Turchin Nature 405:562 (2000)

READINGS FOR NEXT LECTURE:

Today:

Predation

terminology

modeling predator-prey interactions – Lotka Volterra and Rosenweig/McArthur

Functional response curves

laboratory studies

field studies

Five general types of predation:

- **Herbivores (eat leaves, seeds, fruits - don't necessarily kill prey)**
- **Carnivores (eat herbivores or other carnivores)**
- **Cannibalisms**
- **Parasitoids (host killed or eaten)**
- **Parasites (live in or on hosts that provide them with nutrition)**

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1.018J / 7.30J Ecology I: The Earth
Fall 2009

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