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)

READINGS FOR NEXT LECTURE:

Today:
Predation
terminology
modeling predator-prey interactions – Lotka Voltterra 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)