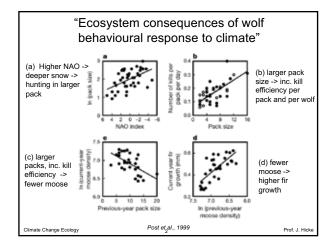
Section 5: Habitats, Communities, Ecosystems

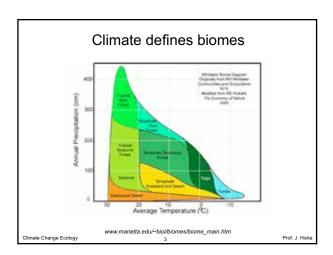
Reading: Ch 3 (coral bleaching, ocean acidification, polar bear habitat); Ch 5

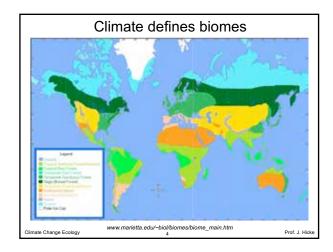
## Learning outcomes

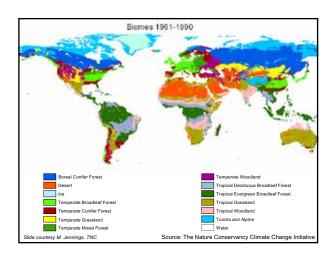
- · understand definitions related to ecosystems
- explain how climate change affects biomes, and what the impacts are to ecosystem processes
- discuss examples of how climate change affects tropical, temperate, polar, freshwater, and marine ecosystems, and what the consequences of these changes are

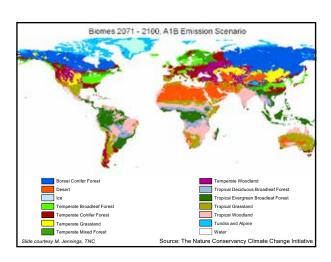
imate Change Ecology 1

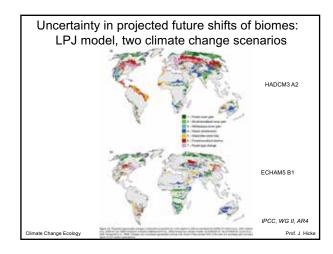


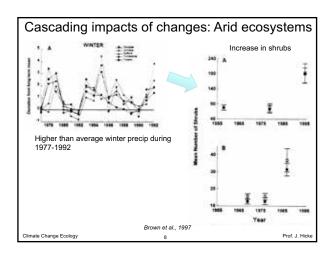


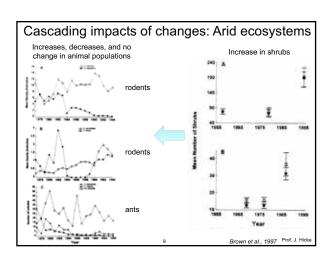


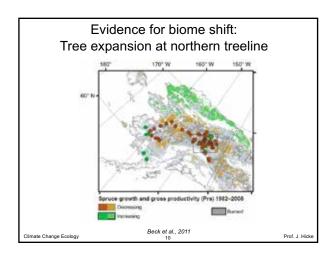


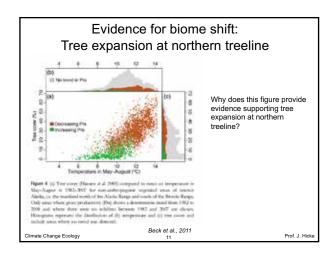












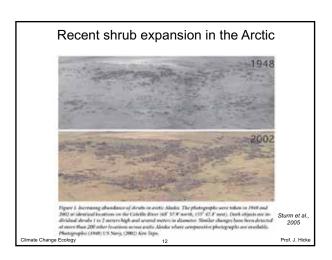


Table 2. Key differences in properties between shrubby and nonskrubby tundra.		
Properties	Nominab tundra	Shrub tundra
Snow-pegity/duration	Shallower/shorter	Desperolonger, more array runuff
Abeco	Higher	Lowery
butterer active layer depth	Despir	Sharlower (because of shading)
Summer active-layer temperature	Warner	Cooler
Self temperature	regner in numerical lower in winter	Lower in bullished, higher in winter
Nutrient intropers cesting	Finder	Stower
Carbon cycring	restor	Skower
Carbou forage access and quality	Higher	Lower
Winter CO, No.	Lower	Higher
Summer CO, eveninge	LOWOF	Higher
CO <sub>n</sub> carbon distribs		

