Senita cactus - senita moth A pollination-seed predator mutualism...





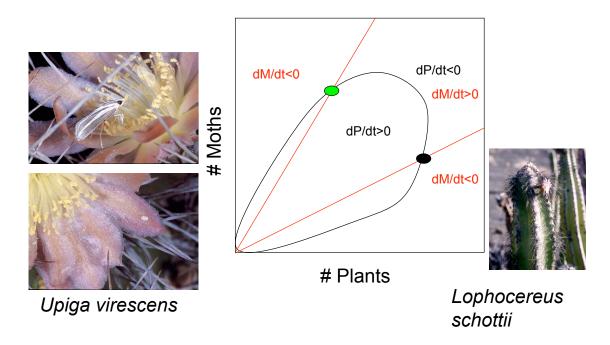
Lophocereus schotii



Upiga virescens

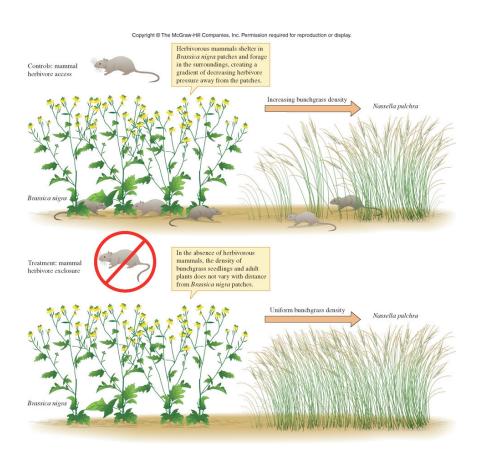
egg

Holland and DeAngelis (2002) model of the *Lophocereus-Upiga* mutualism



competition?





By providing cover, Brassica nigra fosters increases in populations of small mammalian herbivores, which reduce the density of nearby Nassella pulchra populations.

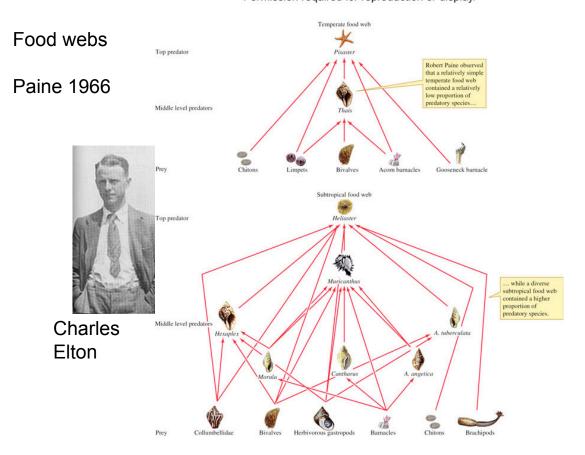
Small herbivorous mammals

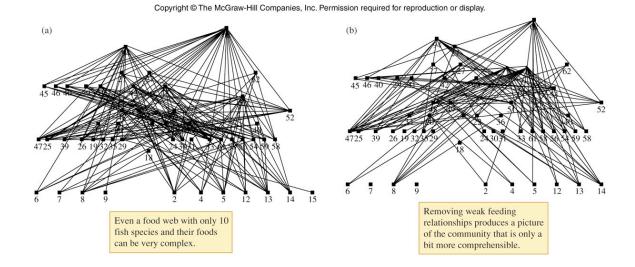
Apparent competition

Brassica nigra

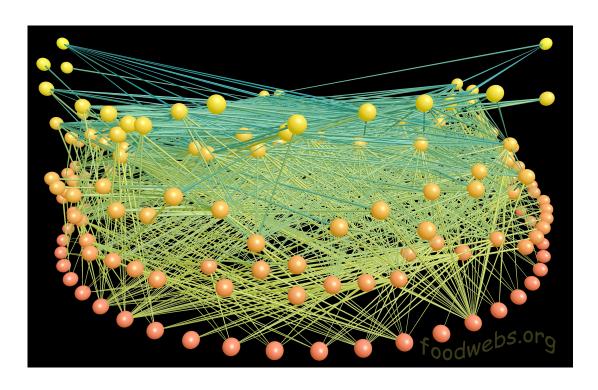
Nassella pulchra

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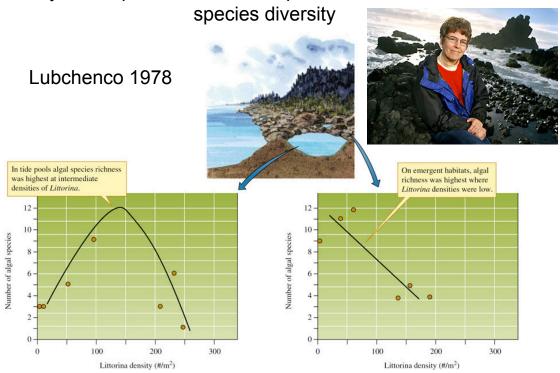


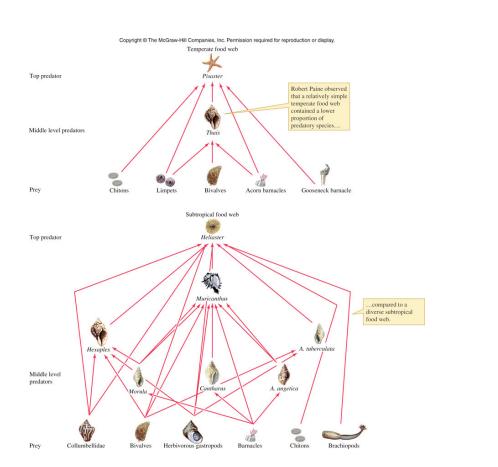


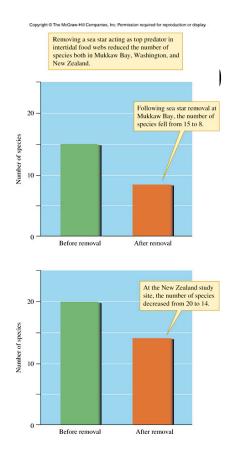
El Verde rainforest web - <u>trophic</u> (not taxonomic) species



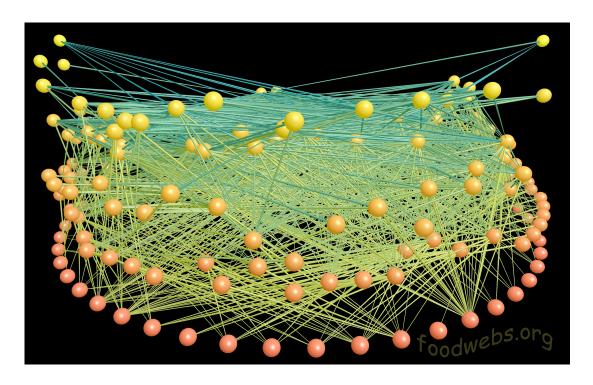
"Keystone species" effect of trophic structure on





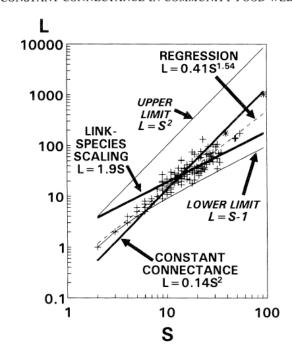


El Verde rainforest web - <u>trophic</u> (not taxonomic) species



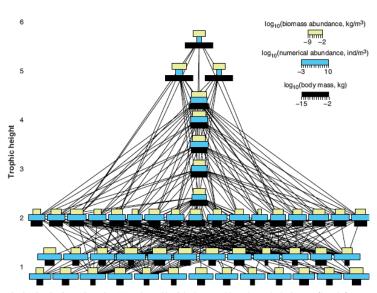
Patterns of connectance in food webs (Martinez 1992)

CONSTANT CONNECTANCE IN COMMUNITY FOOD WEBS



More detailed, dynamical foodwebs

Jonsson, Cohen, Carpenter (2005)



The food web of Tuesday Lake, 1984. The width of the horizontal bars shows the body mass (\log_{10} kg), number (\log_{10} individuals per m³), and biomass (\log_{10} kg/m³), respectively, of each species. The vertical positions of the species show trophic height (20). Despite a major change in species composition, following a manipulation, this energetic setup of the food web remained roughly the same (19).