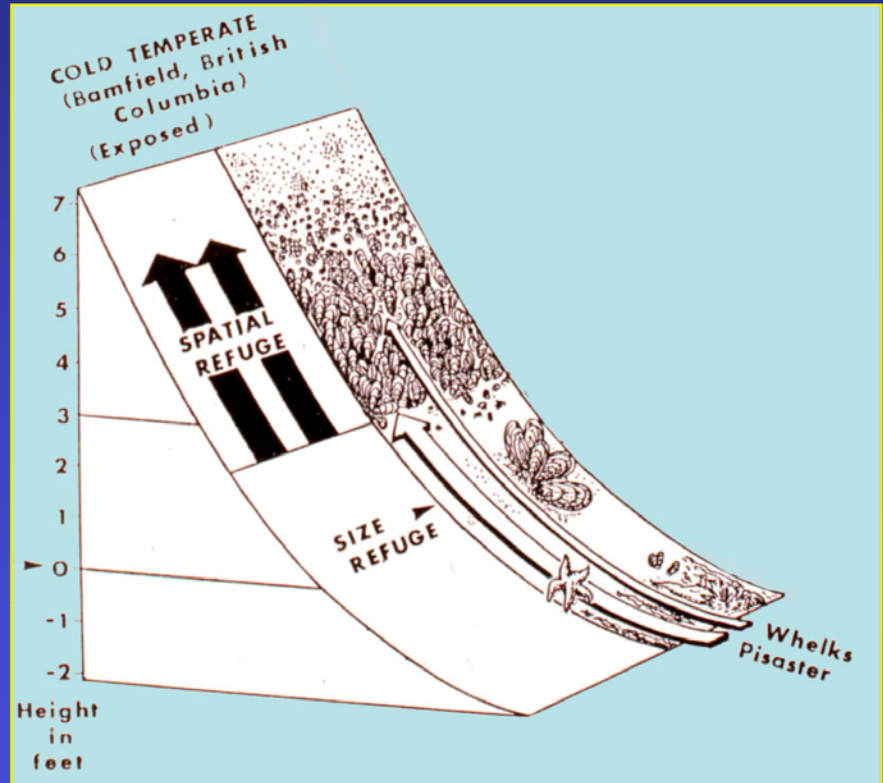
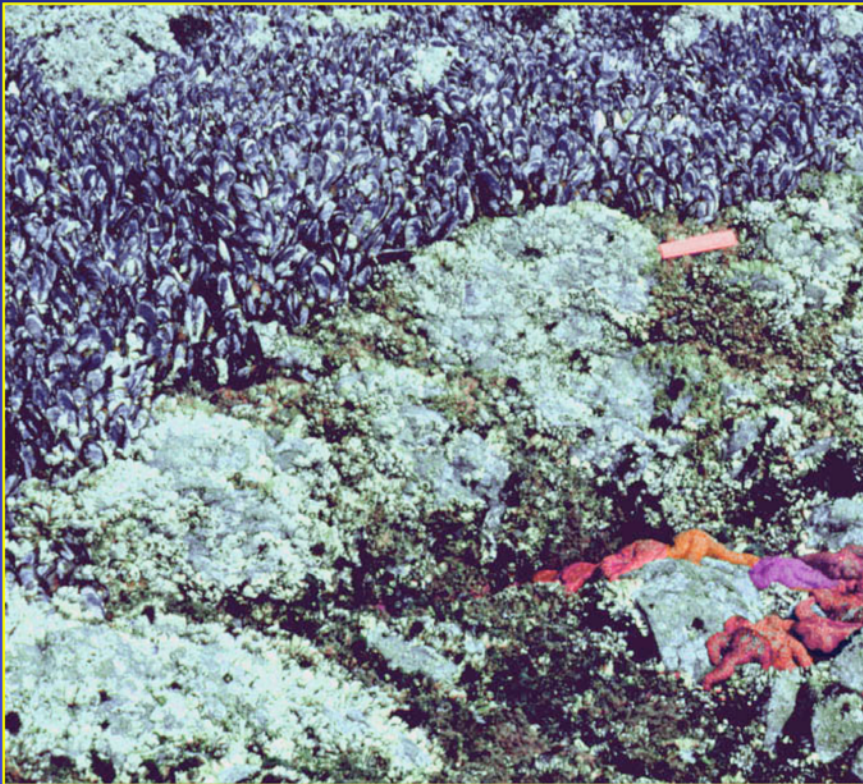


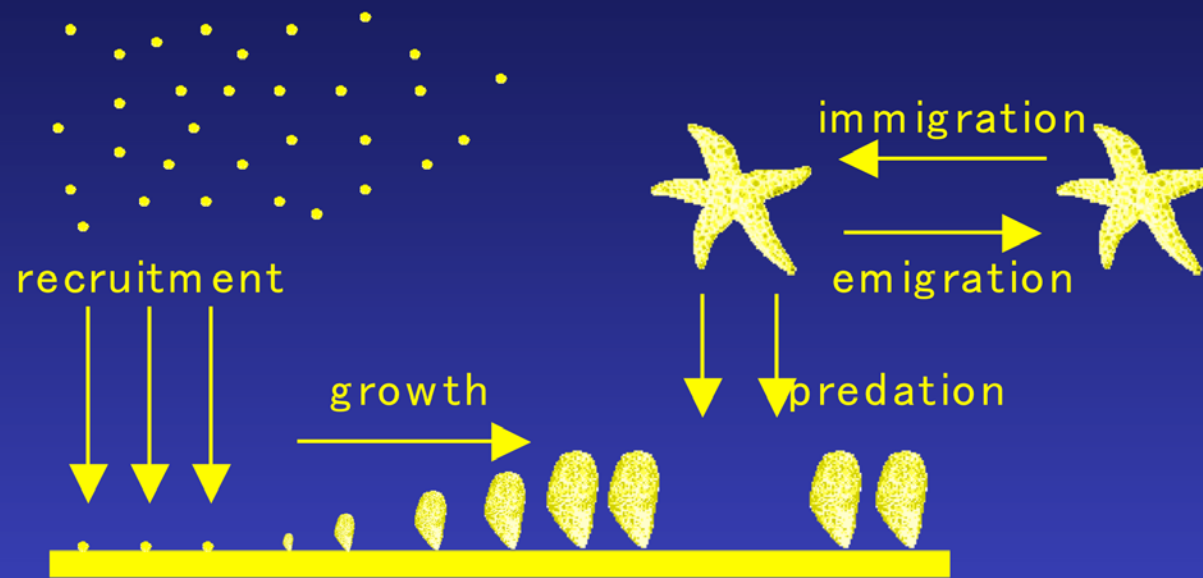
Observation: mussel beds exhibit an abrupt lower boundary

Old paradigm: tides provide a spatial refuge from predation; large mussels are in a “size refuge”

New evidence: predators can take prey at varying rates throughout the intertidal zone; largest predators can take largest prey



Ecological processes involved beg a dynamic model.



$x - h,$ $y + h$	$x,$ $y + h$	$x + h,$ $y + h$
$x - h,$ y	x, y	$x + h,$ y
$x - h,$ $y - h$	$x,$ $y - h$	$x + h,$ $y - h$

Observations suggest that rates of recruitment and predation depend on configuration of prey. This suggests a spatially explicit model.