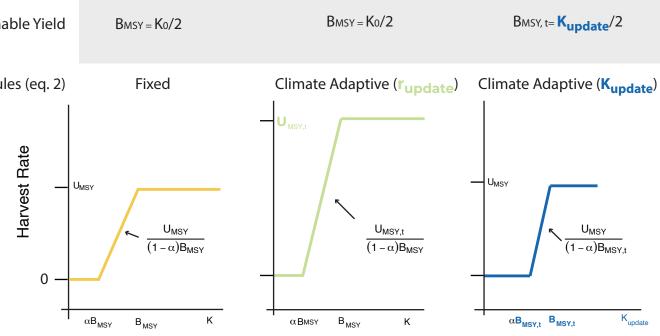


time-varying surplus production model (eq. 1)

$$B_{t+1} = B_t + r_t B_t \left( 1 - \frac{B_t}{K_t} \right) - U_t B_t$$

	Fixed Managment	Climate Adaptive Managment	Climate Adaptive Managment
Harvest rate at Maximum Sustainable Yield Umsy	Umsy = ro/2	Umsy,t= r <sub>update</sub> /2	Umsy = ro/2
Biomass at Maximum Sustainable Yield B <sub>MSY</sub>	$B_{MSY} = K_0/2$	BMSY = K0/2	BMSY, t= <b>K</b> update/2
Harvest Control Rules (eq. 2)	Fixed	Climate Adaptive (r <sub>update</sub> )	Climate Adaptive ( <b>K</b> <sub>update</sub> )



**Biomass**