Effects on population biomass Gradual decrease in Gradual increase in Gradual decrease in Gradual decrease in Gradual increase in Gradual increase in carrying capacity and carrying capacity and productivity carrying capacity productivity carrying capacity productivity productivity 700+ 700 700 700-Biomass Mean Population Biomass 600 600 600 600 Population 1 500 500 500 500 400 400 400 400 300 300 300 300 -300 Mean 300-Initial biomass 200 200 200 200 25 75 **Effects on cumulative harvest** Gradual decrease in c Gradual increase in 300 Gradual decrease in Gradual decrease in Gradual increase in Gradual increase in **500** carrying capacity and carrying capacity and productivity productivity carrying capacity carrying capacity productivity productivity Harvest 1500 Harvest 1500 2000 2000 2000 2000 1500 1500 1500 1500· 1500 Cumulative 1000 **Cumulative** 1000 1000 1000 1000 1000 500 500 500 500 500 Climate Climate Climate Fixed Climate Climate Fixed Fixed Fixed Fixed Climate **Fixed** adaptive adaptive adaptive adaptive adaptive adaptive (no (no (no (no (no (no update) (annual) update) (annual) update) (annual) update) (annual) update) (annual) update) (annual)