Fishery Model

2018-11-15

Objective: Step through optimal aggregate harvest in an open access fishery.

Swap out toy model for INAPESCA's age-structured model. Sort out selectivity and dam problems.

Toy Model (Conrad):

Stock

$$X_{t+1} = X_t(1 + r - rX_t/K - qE_t)$$

Yield-Effort

$$Y_t = qX_tE_t$$

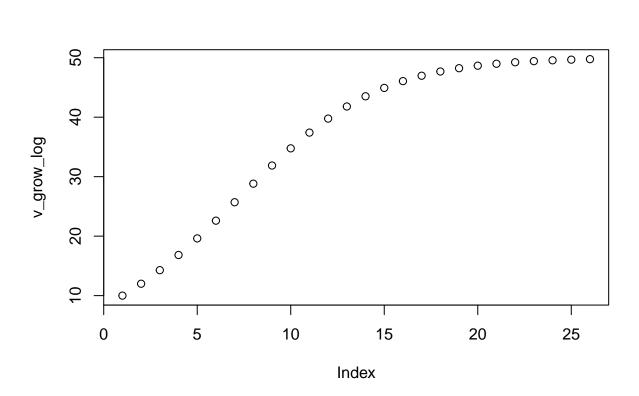
Dynamic Effort

$$E_{t+1} = E_t(1 + \eta(pqX_t - c))$$

1. Deterministic Logistic Growth Demo

$$N_t = N_t + rN_t(1 - N_t/K)$$

plot(v_grow_log)



Appendix: LaTeX Demo

$$d_i = \alpha_{0,i} - \alpha_{1,i} * x_{emissions} + u_i$$