

WKHELP: Scenarios

- i. Current HCR with new candidate F_{MSY} values
- ii. Current HCR with new candidate F_{MSY} values and no TAC stability mechanism
- iii.1. Current HCR with new candidate F_{MSY} values and F 3years TAC stability mechanism
- iii.2. Current HCR with new candidate F_{MSY} values and 50:50 rule TAC stability mechanism
- iii.3. Current HCR with new candidate F_{MSY} values and FIAV TAC stability mechanism
- iv. Current HCR with new candidate F_{MSY} values and a quota flexibility of +10% (banking)
- v. Current HCR with new candidate F_{MSY} values and a quota flexibility of +10% (banking and borrowing)
- vi. Current HCR with new candidate F_{MSY} values and changing the target fishing mortality for 0-1 ringers over a range of values from 0.0375 to 0.05

Current HCR with new candidate F_{MSY} values

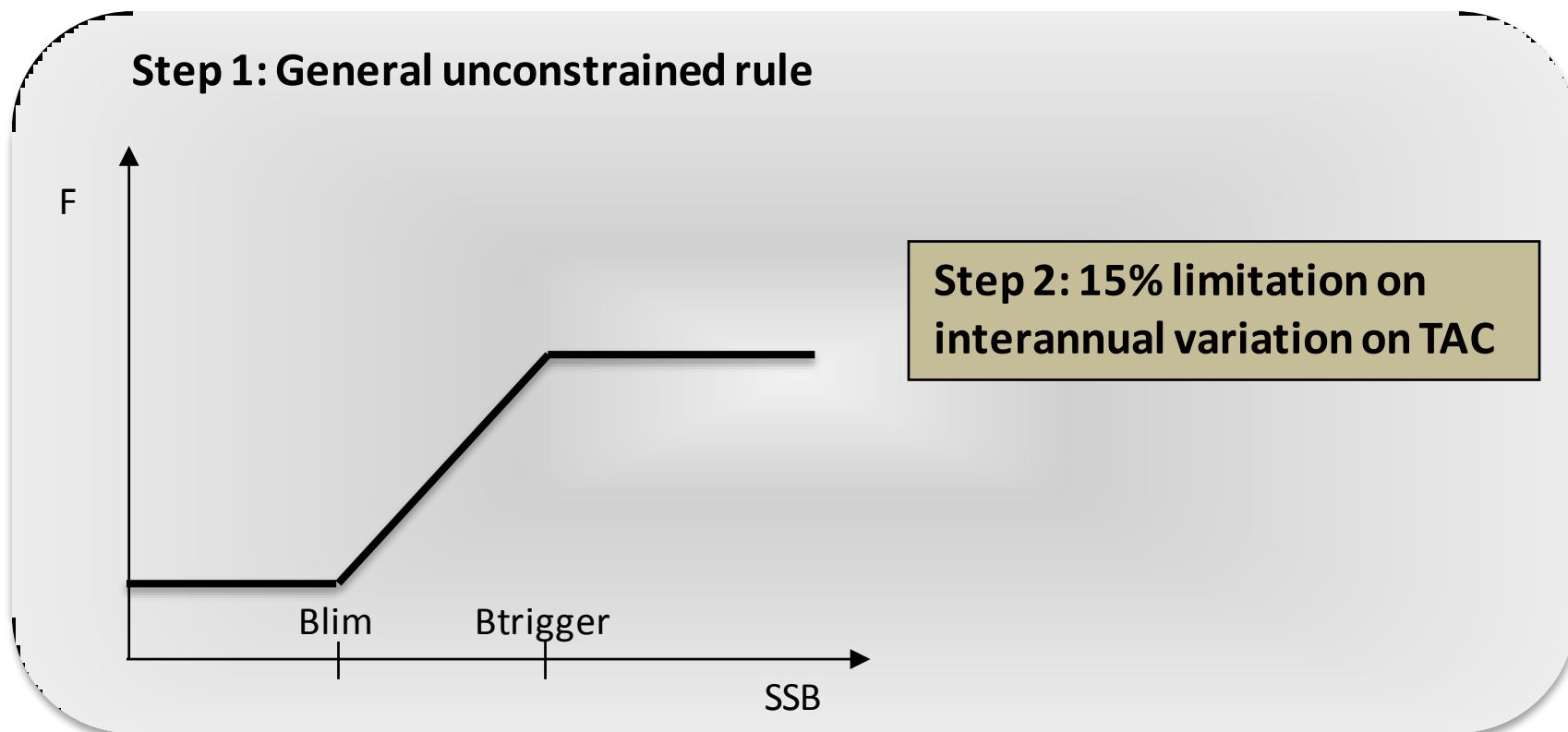
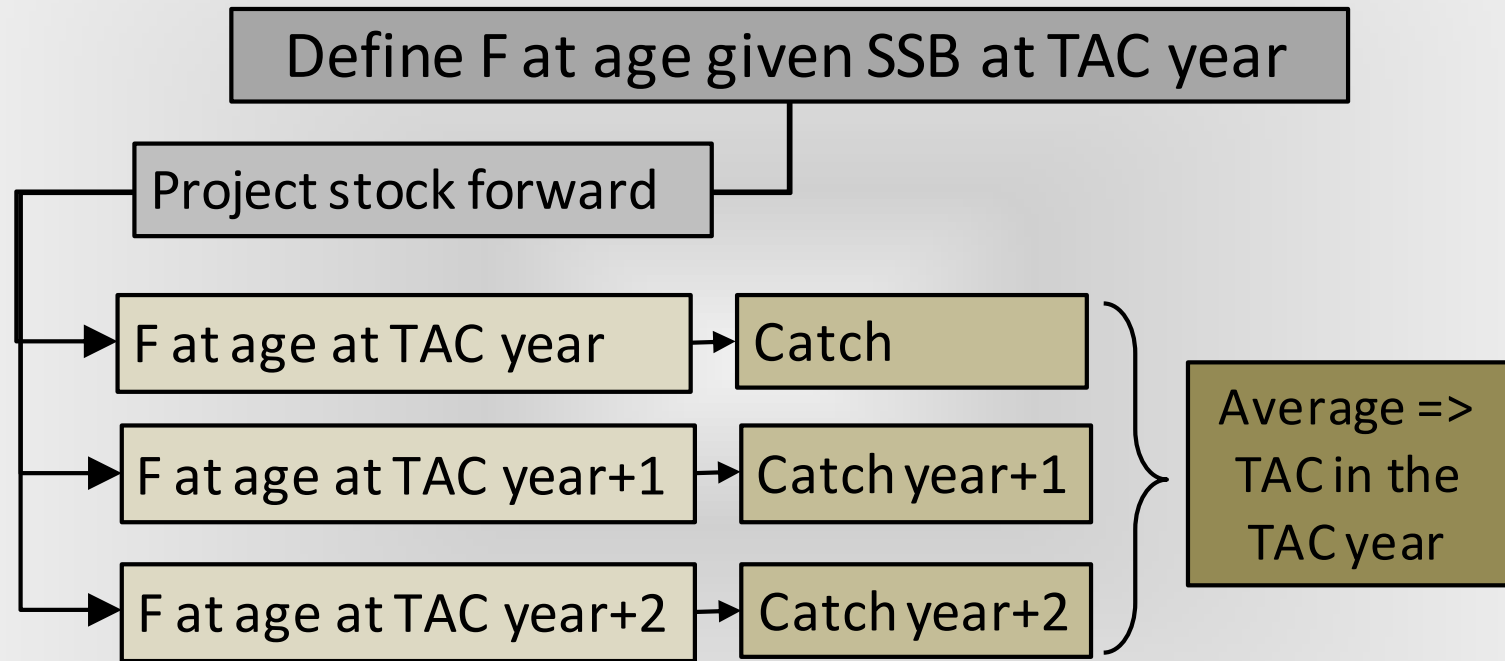


Figure 1. The current harvest control rule but with the new candidate F_{MSY} values

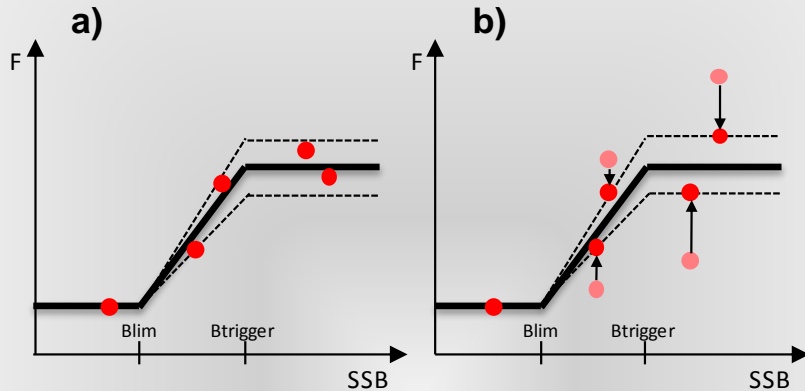
Current HCR with new candidate F_{MSY} values and F 3years TAC stability mechanism

iii. 1. F3years

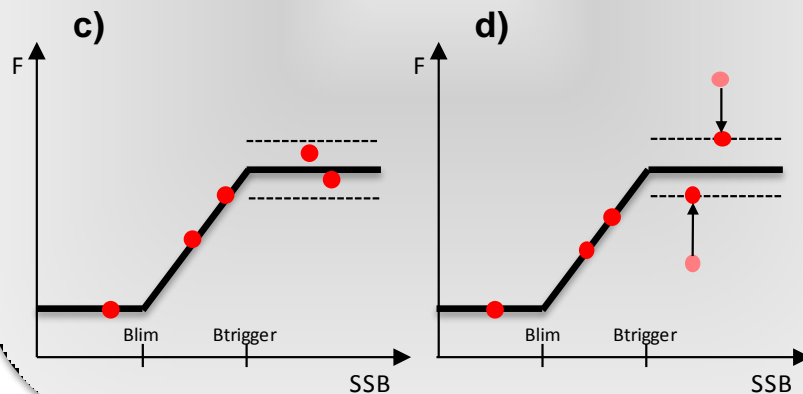


Current HCR with new candidate F_{MSY} values and FIAV TAC stability mechanism

iii. 3. F variability constrained above B_{lim}



iii. 3. F variability constrained above $B_{trigger}$



The current harvest control rule with the new candidate F_{MSY} values and the FIAV and TAC stability mechanisms. Both stability mechanisms (15% constraint on TAC interannual variability and 15% constraint in F variability) were applied either above B_{lim} or above $B_{trigger}$.

If the preliminary F value was inside the 15% limits from the F_{HCR} (panels a and c) it was directly applied.

If the preliminary F value was outside the 15% limits (pink dots in panels b and d), they were constrained to be within 15% from the F_{HCR} .

Below B_{lim} no stability mechanisms were used.

WKHELP: Results

HCR option	Btrigger ('000 t)	F adults	Risk % <Blim	Stock performance (SSB 2022, '000 t)	Mean F2-6	Mean yield ('000 t)	Mean TAC change (%)
1.HCR with max 15% IAV in TAC	1300	0.24	4.6	1220	0.224	327	13.0
2.HCR with max 15% IAV in TAC and FIAV	1300	0.30	4.5	1153	0.246	348	20.5
3.HCR with mean TAC	1300	0.24	2.7	1219	0.226	329	11.9
4.HCR with max 15% IAV in TAC and banking	1600	0.24	4.3	1266	0.212	315	11.2
5.HCR with max 15% IAV in TAC and banking & borrowing	1600	0.24	4.3	1284	0.220	322	14.9