

Comisión Interamericana del Atún Tropical
Inter-American Tropical Tuna Commission



Candidate Harvest Strategies discussed during WSMSE-05 and WGMSE-01

Estrategias de ordenación candidatas para la EEO de patudo discutidas durante WSMSE-05 y WGMSE-01

Candidate HS: combining HS elements, HCR, EM, Data

(Working table from [WSMSE-05-01](#))

Component of HCR	Staff	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	C 13
F_{\max}	$F_{30\%}$	$F_{25\%}$	$F_{30\%}$	$F_{35\%}$	$F_{40\%}$	$F_{25\%}$	$F_{30\%}$	$F_{35\%}$	$F_{40\%}$	$F_{25\%}$	$F_{30\%}$	$F_{35\%}$	$F_{40\%}$	$F_{40\%}$
S_{Control}	$S_{20\%}$	$S_{20\%}$	$S_{25\%}$	$S_{30\%}$	$S_{20\%}$	$S_{25\%}$	$S_{30\%}$	$S_{20\%}$	$S_{25\%}$	$S_{30\%}$	$S_{20\%}$	$S_{25\%}$	$S_{30\%}$	$S_{40\%}$
$S_{F=0}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$S_{F_{\min}}$	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
F_{\min}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Stability	10-day cap above $S_{\text{cont.}}$	10-day cap above $S_{\text{cont.}}$	10-day cap above $S_{\text{cont.}}$	10-day cap above $S_{\text{cont.}}$	10-day cap above $S_{\text{cont.}}$	10-day cap above $S_{\text{cont.}}$	10-day cap above $S_{\text{cont.}}$	10-day cap above $S_{\text{cont.}}$	10-day cap above $S_{\text{cont.}}$	10-day cap above $S_{\text{cont.}}$	10-day cap above $S_{\text{cont.}}$	10-day cap above $S_{\text{cont.}}$	10-day cap above $S_{\text{cont.}}$	10-day cap above $S_{\text{cont.}}$
LRP (exc. Circ. rebuild)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%) $0.5B_{\text{MSY}}$ (P<20%)	$7.7B_0$ (P<10%) $0.5B_{\text{MSY}}$ (P<20%)	$7.7B_0$ (P<10%) $0.5B_{\text{MSY}}$ (P<20%)	$7.7B_0$ (P<10%) $0.5B_{\text{MSY}}$ (P<20%)	$7.7B_0$ (P<10%) $0.5B_{\text{MSY}}$ (P<20%)	$7.7B_0$ (P<10%) $0.5B_{\text{MSY}}$ (P<20%)	$7.7B_0$ (P<10%) $0.5B_{\text{MSY}}$ (P<20%)	$7.7B_0$ (P<10%) $0.5B_{\text{MSY}}$ (P<20%)	$7.7B_0$ (P<10%) $0.5B_{\text{MSY}}$ (P<20%)	$7.7B_0$ (P<10%) $0.5B_{\text{MSY}}$ (P<20%)	$7.7B_0$ (P<10%) $0.5B_{\text{MSY}}$ (P<20%)	$7.7B_0$ (P<10%) $0.5B_{\text{MSY}}$ (P<20%)	$7.7B_0$ (P<10%) $0.5B_{\text{MSY}}$ (P<20%)
EM														
Model type	ASPM-Rdev+													
Model	Base reference 2024													
Data	Catch, CPUE, LF index + LL													



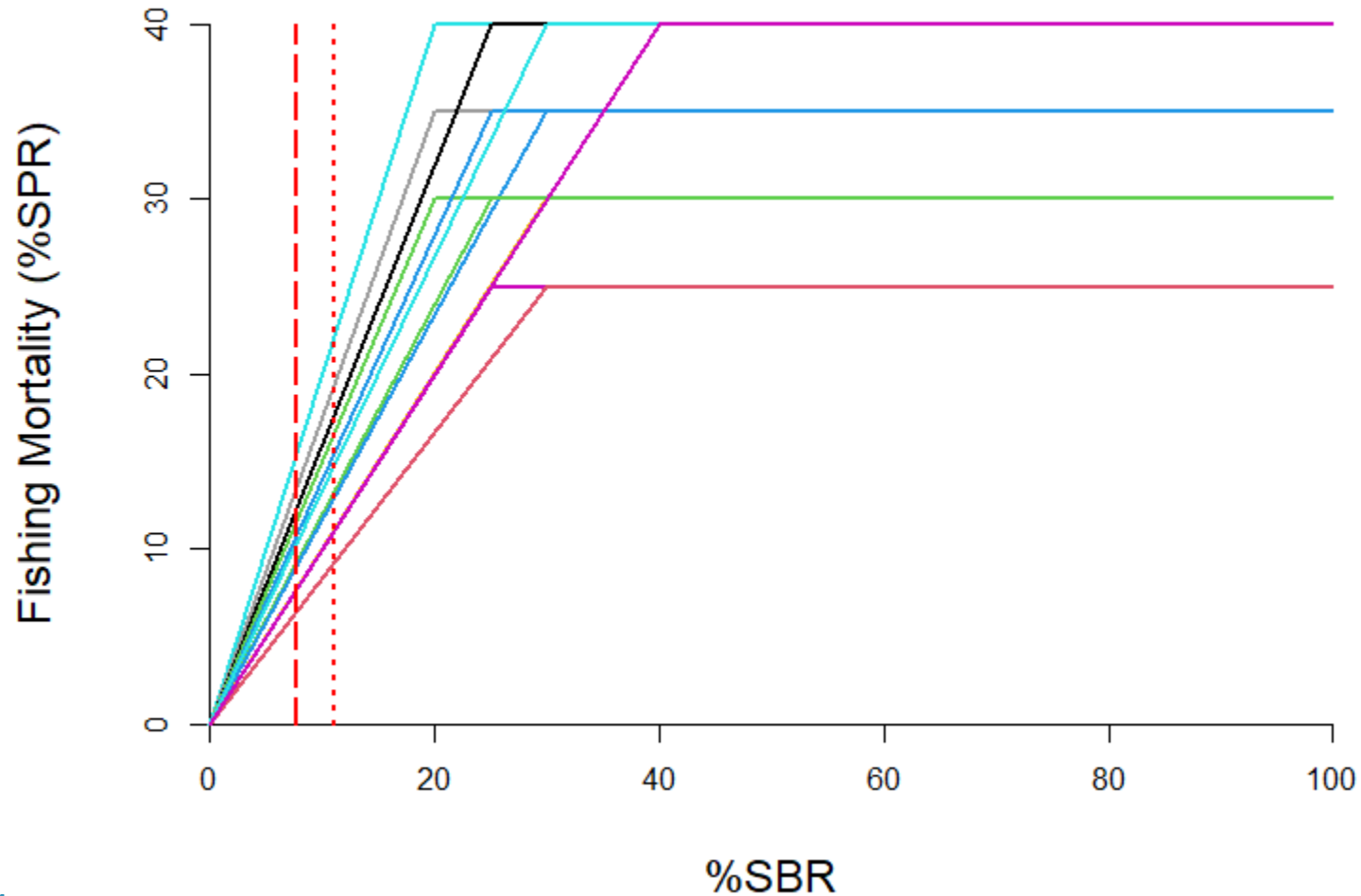
Candidate HS: combining HS elements, HCR, EM, Data

(Working table from [WSMSE-05-01](#))

Component of HCR	Staff	C 14	C 15	C 16	C 17	C 18	C 19	C 20	C 21	C 22	C 23	C 24	C 25	C 26
F_{\max}	$F_{30\%}$	$F_{25\%}$	$F_{30\%}$	$F_{35\%}$	$F_{40\%}$	$F_{25\%}$	$F_{30\%}$	$F_{35\%}$	$F_{40\%}$	$F_{25\%}$	$F_{30\%}$	$F_{35\%}$	$F_{40\%}$	$F_{40\%}$
S_{Control}	$S_{20\%}$	$S_{20\%}$	$S_{25\%}$	$S_{30\%}$	$S_{20\%}$	$S_{25\%}$	$S_{30\%}$	$S_{20\%}$	$S_{25\%}$	$S_{30\%}$	$S_{20\%}$	$S_{25\%}$	$S_{30\%}$	$S_{40\%}$
$S_{F=0}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$S_{F\min}$	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
F_{\min}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Stability	10-day cap above $S_{\text{cont.}}$	Always	Always	Always	Always	Always	Always	Always	Always	Always	Always	Always	Always	Always
LRP (exc. Circ. rebuild)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%)	$7.7B_0$ (P<10%)
		$0.5B_{\text{MSY}}$ (P<20%)	$0.5B_{\text{MSY}}$ (P<20%)	$0.5B_{\text{MSY}}$ (P<20%)	$0.5B_{\text{MSY}}$ (P<20%)	$0.5B_{\text{MSY}}$ (P<20%)	$0.5B_{\text{MSY}}$ (P<20%)	$0.5B_{\text{MSY}}$ (P<20%)	$0.5B_{\text{MSY}}$ (P<20%)	$0.5B_{\text{MSY}}$ (P<20%)	$0.5B_{\text{MSY}}$ (P<20%)	$0.5B_{\text{MSY}}$ (P<20%)	$0.5B_{\text{MSY}}$ (P<20%)	$0.5B_{\text{MSY}}$ (P<20%)
EM														
Model type	ASPM-Rdev+													
Model	Base reference 2024													
Data	Catch, CPUE, LF index + LL													



HCRs discussed during WSMSE-05-01 and WGMSE-01



Vertical dashed line LRP = 7.7%SBR
Vertical dotted line LRP = $0.5S_{MSY} = 11.1\%SBR$
With median SBR_{MSY} of 22.2%, SAC-15-02