



COMMISSION

SECOND BIGEYE TUNA MANAGEMENT WORKSHOP (BMW02)

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Honolulu, Hawaii (Hybrid)

SUPPORTING INFORMATION: PERFORMANCE INDICATOR RESULTS TABLES

WCPFC-BMW02-2026-IP02

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SPC-OFP¹

¹ Oceanic Fisheries Programme, The Pacific Community

1 Introduction

This document contains the tables of performance indicator results from the bigeye management procedure evaluations (SPC-OFP, 2026).

Relative performance of the candidate MPs is evaluated by comparing calculated performance indicators. BMW01 agreed that the following candidate performance indicators should be used for the bigeye MP evaluations:

1. Stock status ($SB/SB_{F=0}$) in the WCPFC-CA, (measured as $SB_{\text{latest}}/SB_{F=0}$, i.e. SB in year y relative to the average $SB_{F=0}$ in years $y-10$ to $y-1$);
2. Proximity to the TRP, with threshold TRPs reported as probability of being above the TRP;
3. Probability that $SB/SB_{F=0}$ is above the Limit Reference Point, noting that the WCPFC requires the probability to be greater than 0.8;
4. Expected bigeye catch for fisheries managed through the bigeye MP, reported separately for longline and purse seine where feasible;
5. Expected vulnerable biomass for longline fisheries managed through the bigeye MP, as a proxy for catch rates. Here it is calculated as the vulnerable biomass in the tropical regions relative to the average vulnerable biomass in the period 2019-2021. The expected relative vulnerable biomass for the FAD-associated purse seine fisheries is also presented;
6. Catch variability for fisheries managed through the bigeye MP, separated for longline and purse seine where feasible;
7. Effort variability for fisheries managed through the bigeye MP, separated for longline and purse seine where feasible;
8. F relative to F_{MSY} ; and
9. MSY .

The MSY based performance indicators are not yet available but will be in the future.

The average values of the performance indicators are calculated over three time periods:

- Short (2028-2036)
- Medium (2037-2045)
- Long (2046-2054)

References

SPC-OFP (2026). Bigeye tuna management procedure evaluations for BMW02. Technical Report BMW02-2026-WP05, Honolulu, Hawaii, 1 - 2 October 2026.

2 Appendix: Results tables

This appendix presents tables of the performance indicators. The tables are separated by time period (short-term: 2028-2036; medium-term: 2037-2045; long-term: 2046-2054), and also by bigeye MP spatial scenario. For each MP there are three sets of results for each of the HCR pair scenarios that were run.

Table 1: Performance indicators in the short-term (2028-2036) for the bigeye MP spatial scenario where the MP manages the longline fisheries in the WCPO, excluding SIDS. SB/SB_{F=0} is presented as relative to the TRP, i.e. relative to the average depletion in 2012-2015. The value shown is the median, or the probability. Values in parenthesis are the 95th percentile range.

MP (target)	HCR scenario	Biological				Purse seine				Longline			
		Prob. > LRP	Prob. > ITRP	Prob. > uTRP	Relative SB/SB _{F=0}	Catch (000s t)	Catch var. (000s t)	Effort var. (000s sets)	Rel. vuln. biomass	Catch (000s t)	Catch var. (000s t)	Effort var. (mil. hooks)	Rel. vuln. biomass
MP 5 (ITRP HCR form 1)	FAD favoured	0.88	0.57	0.43	1 (0.51,1.62)	39 (21,51)	3.9	1.5e-10	0.54 (0.38,0.68)	53 (32,53)	5.8e-10	110	0.4 (0.14,0.64)
	LL favoured	0.88	0.58	0.44	1.01 (0.51,1.62)	34 (17,44)	3.5	1.1e-10	0.61 (0.42,0.75)	58 (35,58)	6.7e-10	120	0.44 (0.19,0.65)
	Random	0.88	0.58	0.44	1.01 (0.51,1.63)	37 (19,48)	4.5	1.4	0.57 (0.4,0.71)	55 (34,55)	0.94	130	0.42 (0.17,0.65)
MP 6 (60% > ITRP HCR form 1)	FAD favoured	0.9	0.64	0.49	1.05 (0.55,1.68)	39 (21,51)	4	0.006	0.55 (0.39,0.69)	45 (27,45)	0.14	65	0.45 (0.18,0.68)
	LL favoured	0.9	0.62	0.48	1.04 (0.54,1.66)	34 (17,44)	3.6	1.6e-10	0.61 (0.43,0.75)	53 (32,53)	8.8e-10	84	0.47 (0.21,0.69)
	Random	0.9	0.63	0.49	1.05 (0.54,1.68)	37 (19,48)	4.3	1.4	0.58 (0.41,0.72)	48 (29,48)	1.3	100	0.46 (0.2,0.69)
MP 7 (70% > ITRP HCR form 1)	FAD favoured	0.91	0.68	0.53	1.09 (0.56,1.72)	40 (21,52)	4	0.29	0.56 (0.4,0.69)	39 (24,40)	0.4	53	0.48 (0.21,0.71)
	LL favoured	0.92	0.69	0.54	1.09 (0.57,1.72)	34 (18,44)	3.6	0.28	0.62 (0.45,0.76)	44 (27,45)	0.56	62	0.52 (0.26,0.74)
	Random	0.92	0.69	0.53	1.09 (0.56,1.72)	37 (20,48)	4.4	1.3	0.59 (0.43,0.72)	42 (26,43)	1.2	74	0.5 (0.23,0.73)
MP 8 (uTRP HCR form 1)	FAD favoured	0.91	0.66	0.51	1.07 (0.55,1.7)	40 (21,52)	4	0.17	0.56 (0.39,0.69)	42 (26,43)	0.27	57	0.46 (0.19,0.69)
	LL favoured	0.91	0.67	0.52	1.08 (0.56,1.7)	34 (17,44)	3.6	0.2	0.62 (0.44,0.75)	47 (29,48)	0.45	68	0.51 (0.24,0.72)
	Random	0.91	0.66	0.51	1.07 (0.56,1.7)	37 (20,48)	4.4	1.4	0.59 (0.42,0.72)	44 (27,45)	1.1	79	0.48 (0.22,0.71)
MP 21 (ITRP HCR form 2)	FAD favoured	0.87	0.57	0.43	1 (0.48,1.62)	39 (23,51)	3.8	1.5e-10	0.54 (0.36,0.68)	53 (39,53)	5.8e-10	100	0.39 (0.13,0.64)
	LL favoured	0.87	0.57	0.43	1 (0.48,1.62)	34 (21,44)	3.4	1.1e-10	0.6 (0.39,0.74)	58 (41,58)	6.7e-10	120	0.42 (0.16,0.65)
	Random	0.87	0.57	0.43	1 (0.48,1.63)	37 (22,48)	4.4	1.4	0.57 (0.37,0.71)	55 (41,55)	0.94	130	0.41 (0.15,0.65)
MP 24 (uTRP HCR form 2)	FAD favoured	0.9	0.64	0.5	1.06 (0.52,1.7)	40 (24,52)	3.9	0.093	0.55 (0.37,0.68)	42 (36,43)	0.12	51	0.45 (0.17,0.69)
	LL favoured	0.9	0.65	0.5	1.06 (0.52,1.7)	35 (22,44)	3.4	0.036	0.61 (0.4,0.75)	47 (37,48)	0.25	61	0.49 (0.2,0.72)
	Random	0.9	0.65	0.5	1.06 (0.52,1.7)	37 (23,48)	4.3	1.4	0.58 (0.39,0.72)	45 (37,45)	0.98	73	0.47 (0.19,0.71)

Table 2: Performance indicators in the medium-term (2037-2045) for the bigeye MP spatial scenario where the MP manages the longline fisheries in the WCPO, excluding SIDS. $SB/SB_{F=0}$ is presented as relative to the TRP, i.e. relative to the average depletion in 2012-2015. The value shown is the median, or the probability. Values in parenthesis are the 95th percentile range.

MP (target)	HCR scenario	Biological				Purse seine				Longline			
		Prob. > LRP	Prob. > ITRP	Prob. > uTRP	Relative $SB/SB_{F=0}$	Catch (000s t)	Catch var. (000s t)	Effort var. (000s sets)	Rel. vuln. biomass	Catch (000s t)	Catch var. (000s t)	Effort var. (mil. hooks)	Rel. vuln. biomass
MP 5 (ITRP HCR form 1)	FAD favoured	0.89	0.58	0.42	1 (0.52,1.55)	39 (18,52)	3.9	1.6e-10	0.52 (0.34,0.67)	53 (31,53)	7.1e-10	140	0.32 (0.04,0.58)
	LL favoured	0.9	0.6	0.44	1.02 (0.53,1.57)	35 (15,45)	3.5	1.2e-10	0.58 (0.38,0.75)	58 (34,58)	7.4e-10	140	0.38 (0.08,0.64)
	Random	0.89	0.59	0.43	1.01 (0.52,1.55)	37 (16,49)	4.6	1.7	0.55 (0.36,0.71)	55 (32,55)	1.1	160	0.34 (0.05,0.61)
MP 6 (60% > ITRP HCR form 1)	FAD favoured	0.94	0.69	0.53	1.08 (0.59,1.65)	40 (21,53)	3.9	1.9e-10	0.53 (0.36,0.68)	45 (29,45)	6.9e-10	65	0.39 (0.09,0.65)
	LL favoured	0.93	0.68	0.51	1.08 (0.57,1.63)	35 (18,46)	3.5	1.3e-10	0.59 (0.4,0.75)	53 (32,53)	7.1e-10	84	0.43 (0.13,0.69)
	Random	0.93	0.69	0.52	1.08 (0.58,1.63)	38 (20,49)	4.7	1.7	0.56 (0.38,0.71)	48 (30,48)	1.7	92	0.41 (0.1,0.67)
MP 7 (70% > ITRP HCR form 1)	FAD favoured	0.96	0.76	0.6	1.14 (0.63,1.71)	40 (24,53)	3.9	2e-06	0.54 (0.37,0.69)	40 (28,40)	0.066	45	0.43 (0.12,0.7)
	LL favoured	0.96	0.79	0.63	1.16 (0.64,1.72)	36 (22,47)	3.5	1.4e-06	0.6 (0.42,0.76)	45 (34,45)	0.057	47	0.5 (0.18,0.76)
	Random	0.96	0.77	0.61	1.15 (0.64,1.71)	38 (23,50)	4.7	1.7	0.57 (0.4,0.72)	42 (31,43)	1.1	55	0.46 (0.15,0.72)
MP 8 (uTRP HCR form 1)	FAD favoured	0.95	0.73	0.56	1.11 (0.61,1.68)	40 (23,53)	3.9	2.2e-10	0.53 (0.37,0.68)	43 (29,43)	8.7e-10	53	0.41 (0.1,0.68)
	LL favoured	0.95	0.75	0.59	1.14 (0.62,1.69)	36 (20,46)	3.5	1.1e-08	0.6 (0.42,0.76)	48 (34,48)	0.0037	56	0.48 (0.16,0.74)
	Random	0.95	0.73	0.57	1.12 (0.62,1.68)	38 (21,49)	4.7	1.7	0.56 (0.39,0.72)	45 (31,45)	1.1	64	0.44 (0.13,0.7)
MP 21 (ITRP HCR form 2)	FAD favoured	0.87	0.57	0.41	0.99 (0.48,1.55)	39 (18,52)	3.8	1.6e-10	0.51 (0.3,0.67)	53 (37,53)	7.1e-10	140	0.3 (0.03,0.58)
	LL favoured	0.88	0.59	0.43	1.01 (0.48,1.56)	35 (18,45)	3.4	1.2e-10	0.58 (0.34,0.74)	58 (39,58)	7.5e-10	140	0.36 (0.04,0.63)
	Random	0.87	0.57	0.42	1 (0.48,1.55)	37 (18,49)	4.5	1.7	0.54 (0.32,0.7)	55 (38,55)	1.1	160	0.32 (0.03,0.6)
MP 24 (uTRP HCR form 2)	FAD favoured	0.93	0.71	0.55	1.1 (0.55,1.66)	40 (22,53)	3.8	2.6e-10	0.53 (0.34,0.68)	43 (36,43)	0.0053	51	0.4 (0.06,0.68)
	LL favoured	0.93	0.73	0.57	1.12 (0.54,1.68)	36 (22,47)	3.4	1.5e-07	0.59 (0.37,0.75)	48 (37,48)	0.024	54	0.46 (0.11,0.74)
	Random	0.93	0.71	0.55	1.1 (0.55,1.66)	38 (22,50)	4.5	1.7	0.56 (0.36,0.72)	45 (36,45)	1.1	64	0.42 (0.08,0.7)

Table 3: Performance indicators in the long-term (2046-2054) for the bigeye MP spatial scenario where the MP manages the longline fisheries in the WCPO, excluding SIDS. SB/SB_{F=0} is presented as relative to the TRP, i.e. relative to the average depletion in 2012-2015. The value shown is the median, or the probability. Values in parenthesis are the 95th percentile range.

MP (target)	HCR scenario	Biological				Purse seine				Longline			
		Prob. > LRP	Prob. > ITRP	Prob. > uTRP	Relative SB/SB _{F=0}	Catch (000s t)	Catch var. (000s t)	Effort var. (000s sets)	Rel. vuln. biomass	Catch (000s t)	Catch var. (000s t)	Effort var. (mil. hooks)	Rel. vuln. biomass
MP 5 (ITRP HCR form 1)	FAD favoured	0.88	0.55	0.37	0.97 (0.52,1.54)	39 (19,52)	3.9	1.5e-10	0.5 (0.3,0.66)	53 (38,53)	8.2e-10	160	0.28 (0.02,0.58)
	LL favoured	0.89	0.57	0.4	0.99 (0.53,1.56)	35 (17,46)	3.5	1.7e-10	0.56 (0.34,0.74)	58 (42,58)	1e-09	160	0.33 (0.03,0.64)
	Random	0.88	0.55	0.38	0.98 (0.52,1.55)	37 (18,49)	4.4	1.3	0.53 (0.32,0.7)	55 (40,56)	0.83	180	0.3 (0.02,0.61)
MP 6 (60% > ITRP HCR form 1)	FAD favoured	0.94	0.67	0.5	1.06 (0.59,1.62)	40 (22,53)	3.9	1.5e-10	0.51 (0.32,0.67)	45 (36,45)	6.9e-10	64	0.35 (0.04,0.65)
	LL favoured	0.92	0.65	0.48	1.05 (0.56,1.61)	36 (19,47)	3.5	1.4e-10	0.57 (0.36,0.75)	53 (41,53)	8e-10	85	0.39 (0.05,0.69)
	Random	0.93	0.67	0.5	1.06 (0.59,1.63)	38 (21,50)	4.5	1.3	0.54 (0.33,0.71)	48 (38,49)	1.1	95	0.37 (0.04,0.68)
MP 7 (70% > ITRP HCR form 1)	FAD favoured	0.96	0.75	0.58	1.12 (0.63,1.69)	41 (24,53)	3.9	1.6e-10	0.51 (0.33,0.68)	40 (34,40)	6.6e-10	43	0.4 (0.06,0.69)
	LL favoured	0.96	0.77	0.6	1.13 (0.63,1.71)	36 (22,47)	3.5	1.8e-10	0.58 (0.37,0.76)	45 (39,45)	8.1e-10	45	0.46 (0.1,0.76)
	Random	0.96	0.76	0.59	1.12 (0.63,1.7)	38 (23,50)	4.5	1.3	0.54 (0.35,0.72)	43 (36,43)	0.83	55	0.42 (0.07,0.72)
MP 8 (uTRP HCR form 1)	FAD favoured	0.95	0.71	0.54	1.09 (0.61,1.65)	40 (23,53)	3.9	1.5e-10	0.51 (0.32,0.68)	43 (35,43)	6.7e-10	52	0.38 (0.05,0.67)
	LL favoured	0.95	0.73	0.57	1.11 (0.59,1.68)	36 (21,47)	3.5	1.7e-10	0.57 (0.37,0.76)	48 (39,48)	8.2e-10	54	0.44 (0.08,0.74)
	Random	0.95	0.72	0.55	1.09 (0.6,1.66)	38 (22,50)	4.5	1.3	0.54 (0.34,0.71)	45 (37,45)	0.83	65	0.4 (0.06,0.7)
MP 21 (ITRP HCR form 2)	FAD favoured	0.87	0.53	0.37	0.96 (0.46,1.52)	39 (17,52)	3.9	1.5e-10	0.49 (0.27,0.66)	53 (35,53)	8.3e-10	160	0.27 (0.02,0.57)
	LL favoured	0.87	0.55	0.39	0.98 (0.44,1.54)	35 (17,46)	3.5	1.9e-10	0.56 (0.29,0.74)	58 (36,58)	1.1e-09	160	0.32 (0.02,0.62)
	Random	0.86	0.54	0.37	0.97 (0.45,1.52)	37 (17,49)	4.3	1.3	0.52 (0.28,0.7)	55 (35,55)	0.83	180	0.28 (0.02,0.59)
MP 24 (uTRP HCR form 2)	FAD favoured	0.93	0.69	0.52	1.08 (0.52,1.65)	40 (21,53)	3.8	1.5e-10	0.51 (0.3,0.68)	43 (36,43)	7e-10	52	0.37 (0.03,0.66)
	LL favoured	0.93	0.71	0.55	1.1 (0.52,1.66)	36 (20,47)	3.5	1.9e-10	0.57 (0.33,0.75)	48 (38,48)	8.5e-10	54	0.42 (0.05,0.72)
	Random	0.93	0.7	0.54	1.08 (0.52,1.65)	38 (20,50)	4.4	1.3	0.54 (0.31,0.71)	45 (37,45)	0.83	64	0.39 (0.04,0.69)

Table 4: Performance indicators in the short-term (2028-2036) for the bigeye MP spatial scenario where the MP manages the longline fisheries in the WCPO. $SB/SB_{F=0}$ is presented as relative to the TRP, i.e. relative to the average depletion in 2012-2015. The value shown is the median, or the probability. Values in parenthesis are the 95th percentile range.

MP (target)	HCR scenario	Biological				Purse seine				Longline			
		Prob. > LRP	Prob. > ITRP	Prob. > uTRP	Relative $SB/SB_{F=0}$	Catch (000s t)	Catch var. (000s t)	Effort var. (000s sets)	Rel. vuln. biomass	Catch (000s t)	Catch var. (000s t)	Effort var. (mil. hooks)	Rel. vuln. biomass
MP 9 (ITRP HCR form 1)	FAD favoured	0.88	0.58	0.44	1.01 (0.52,1.63)	39 (22,51)	3.9	1.5e-10	0.55 (0.38,0.68)	63 (38,63)	5.9e-10	110	0.4 (0.14,0.64)
	LL favoured	0.88	0.58	0.44	1.01 (0.52,1.62)	34 (17,44)	3.5	1.1e-10	0.61 (0.43,0.75)	68 (41,68)	6.8e-10	120	0.44 (0.19,0.65)
	Random	0.88	0.58	0.44	1.01 (0.52,1.63)	37 (19,48)	4.5	1.4	0.58 (0.4,0.71)	65 (40,65)	0.94	130	0.42 (0.17,0.65)
MP 10 (60% > ITRP HCR form 1)	FAD favoured	0.9	0.64	0.49	1.05 (0.55,1.68)	40 (22,51)	4	0.0059	0.55 (0.39,0.69)	55 (33,55)	0.16	65	0.45 (0.18,0.68)
	LL favoured	0.9	0.63	0.48	1.05 (0.55,1.67)	34 (18,44)	3.6	1.7e-10	0.61 (0.43,0.75)	63 (38,63)	9.6e-10	85	0.48 (0.22,0.69)
	Random	0.9	0.64	0.49	1.05 (0.55,1.68)	37 (20,48)	4.4	1.4	0.58 (0.41,0.72)	58 (35,58)	1.3	100	0.46 (0.2,0.69)
MP 11 (70% > ITRP HCR form 1)	FAD favoured	0.92	0.69	0.53	1.09 (0.57,1.72)	40 (22,52)	4	0.3	0.56 (0.4,0.69)	49 (30,50)	0.51	55	0.48 (0.21,0.71)
	LL favoured	0.92	0.7	0.54	1.1 (0.58,1.72)	34 (18,44)	3.6	0.28	0.62 (0.45,0.76)	54 (33,55)	0.68	65	0.53 (0.27,0.74)
	Random	0.92	0.69	0.54	1.09 (0.58,1.72)	37 (20,48)	4.4	1.3	0.59 (0.43,0.72)	51 (32,53)	1.3	78	0.51 (0.25,0.73)
MP 12 (uTRP HCR form 1)	FAD favoured	0.91	0.66	0.51	1.07 (0.57,1.7)	40 (22,52)	4	0.19	0.56 (0.4,0.69)	52 (32,53)	0.35	60	0.47 (0.2,0.69)
	LL favoured	0.91	0.68	0.52	1.08 (0.57,1.7)	34 (18,44)	3.6	0.2	0.62 (0.44,0.76)	56 (35,58)	0.54	71	0.51 (0.25,0.72)
	Random	0.91	0.67	0.52	1.07 (0.57,1.7)	37 (20,48)	4.4	1.4	0.59 (0.42,0.72)	54 (34,55)	1.2	83	0.49 (0.23,0.71)
MP 25 (ITRP HCR form 2)	FAD favoured	0.87	0.57	0.43	1 (0.49,1.63)	39 (23,51)	3.8	1.5e-10	0.54 (0.36,0.68)	63 (48,63)	5.9e-10	100	0.39 (0.13,0.64)
	LL favoured	0.87	0.57	0.44	1.01 (0.49,1.62)	34 (21,44)	3.4	1.1e-10	0.6 (0.39,0.74)	68 (50,68)	6.8e-10	120	0.42 (0.16,0.65)
	Random	0.87	0.57	0.43	1 (0.49,1.63)	37 (22,48)	4.4	1.4	0.57 (0.38,0.71)	65 (49,65)	0.94	120	0.41 (0.15,0.65)
MP 28 (uTRP HCR form 2)	FAD favoured	0.9	0.64	0.5	1.06 (0.52,1.7)	40 (24,52)	3.9	0.11	0.55 (0.37,0.68)	52 (44,53)	0.16	52	0.45 (0.18,0.69)
	LL favoured	0.9	0.65	0.5	1.07 (0.52,1.7)	35 (22,44)	3.4	0.037	0.61 (0.4,0.75)	57 (45,58)	0.29	61	0.49 (0.21,0.72)
	Random	0.9	0.65	0.5	1.06 (0.52,1.7)	37 (23,48)	4.3	1.3	0.58 (0.39,0.72)	55 (45,55)	1	74	0.47 (0.2,0.71)

Table 5: Performance indicators in the medium-term (2037-2045) for the bigeye MP spatial scenario where the MP manages the longline fisheries in the WCPO. $SB/SB_{F=0}$ is presented as relative to the TRP, i.e. relative to the average depletion in 2012-2015. The value shown is the median, or the probability. Values in parenthesis are the 95th percentile range.

		Biological				Purse seine				Longline			
MP (target)	HCR scenario	Prob. > LRP	Prob. > ITRP	Prob. > uTRP	Relative $SB/SB_{F=0}$	Catch (000s t)	Catch var. (000s t)	Effort var. (000s sets)	Rel. vuln. biomass	Catch (000s t)	Catch var. (000s t)	Effort var. (mil. hooks)	Rel. vuln. biomass
MP 9 (ITRP HCR form 1)	FAD favoured	0.9	0.59	0.43	1.01 (0.54,1.56)	39 (19,52)	3.9	1.6e-10	0.52 (0.34,0.67)	63 (37,63)	7.1e-10	140	0.32 (0.04,0.58)
	LL favoured	0.9	0.61	0.45	1.03 (0.54,1.57)	35 (16,45)	3.5	1.2e-10	0.59 (0.39,0.75)	68 (41,68)	7.3e-10	140	0.38 (0.08,0.64)
	Random	0.9	0.59	0.43	1.01 (0.54,1.56)	37 (17,49)	4.6	1.7	0.55 (0.36,0.71)	65 (39,65)	1.1	160	0.34 (0.06,0.61)
MP 10 (60% > ITRP HCR form 1)	FAD favoured	0.94	0.7	0.53	1.09 (0.6,1.65)	40 (22,53)	3.9	1.9e-10	0.53 (0.37,0.68)	55 (36,55)	6.9e-10	66	0.39 (0.09,0.66)
	LL favoured	0.93	0.69	0.52	1.08 (0.58,1.63)	35 (19,46)	3.5	1.3e-10	0.59 (0.41,0.75)	63 (41,63)	7.2e-10	84	0.43 (0.13,0.69)
	Random	0.94	0.69	0.53	1.09 (0.59,1.64)	38 (20,49)	4.7	1.7	0.56 (0.39,0.71)	58 (38,58)	1.7	92	0.41 (0.11,0.67)
MP 11 (70% > ITRP HCR form 1)	FAD favoured	0.96	0.77	0.61	1.15 (0.64,1.71)	40 (24,53)	3.9	2.6e-06	0.54 (0.37,0.69)	50 (37,50)	0.086	45	0.44 (0.13,0.71)
	LL favoured	0.96	0.79	0.64	1.17 (0.65,1.72)	36 (22,47)	3.5	4e-07	0.6 (0.43,0.76)	55 (43,55)	0.053	47	0.51 (0.19,0.76)
	Random	0.96	0.78	0.62	1.15 (0.65,1.71)	38 (23,50)	4.7	1.7	0.57 (0.4,0.72)	52 (39,53)	1.1	55	0.46 (0.15,0.73)
MP 12 (uTRP HCR form 1)	FAD favoured	0.95	0.74	0.57	1.12 (0.62,1.68)	40 (24,53)	3.9	2.3e-10	0.53 (0.37,0.68)	53 (37,53)	7.4e-05	54	0.42 (0.11,0.68)
	LL favoured	0.95	0.76	0.6	1.14 (0.63,1.69)	36 (21,46)	3.5	1.9e-10	0.6 (0.42,0.76)	58 (42,58)	9.7e-10	55	0.48 (0.17,0.74)
	Random	0.95	0.74	0.58	1.13 (0.62,1.68)	38 (22,50)	4.7	1.7	0.57 (0.4,0.72)	55 (39,55)	1.1	64	0.44 (0.13,0.7)
MP 25 (ITRP HCR form 2)	FAD favoured	0.88	0.57	0.42	1 (0.5,1.55)	39 (19,52)	3.8	1.6e-10	0.52 (0.31,0.67)	63 (46,63)	7.1e-10	140	0.3 (0.03,0.58)
	LL favoured	0.88	0.59	0.44	1.02 (0.49,1.57)	35 (19,45)	3.4	1.2e-10	0.58 (0.34,0.74)	68 (48,68)	7.5e-10	140	0.36 (0.04,0.63)
	Random	0.88	0.58	0.42	1 (0.5,1.55)	37 (19,49)	4.5	1.7	0.54 (0.33,0.7)	65 (47,65)	1.1	160	0.32 (0.03,0.6)
MP 28 (uTRP HCR form 2)	FAD favoured	0.93	0.71	0.55	1.1 (0.56,1.66)	40 (22,53)	3.8	2e-07	0.53 (0.34,0.68)	53 (44,53)	0.017	51	0.4 (0.07,0.68)
	LL favoured	0.93	0.73	0.58	1.12 (0.55,1.68)	36 (22,47)	3.4	1.9e-07	0.59 (0.38,0.75)	58 (46,58)	0.025	54	0.46 (0.11,0.74)
	Random	0.93	0.72	0.56	1.11 (0.56,1.66)	38 (22,50)	4.5	1.7	0.56 (0.36,0.72)	55 (44,55)	1.1	64	0.42 (0.08,0.7)

Table 6: Performance indicators in the long-term (2046-2054) for the bigeye MP spatial scenario where the MP manages the longline fisheries in the WCPO. $SB/SB_{F=0}$ is presented as relative to the TRP, i.e. relative to the average depletion in 2012-2015. The value shown is the median, or the probability. Values in parenthesis are the 95th percentile range.

MP (target)	HCR scenario	Biological				Purse seine				Longline			
		Prob. > LRP	Prob. > ITRP	Prob. > uTRP	Relative $SB/SB_{F=0}$	Catch (000s t)	Catch var. (000s t)	Effort var. (000s sets)	Rel. vuln. biomass	Catch (000s t)	Catch var. (000s t)	Effort var. (mil. hooks)	Rel. vuln. biomass
MP 9 (ITRP HCR form 1)	FAD favoured	0.89	0.55	0.38	0.98 (0.55,1.55)	39 (20,52)	3.9	1.6e-10	0.5 (0.3,0.66)	63 (47,63)	8e-10	160	0.28 (0.02,0.59)
	LL favoured	0.89	0.57	0.4	1 (0.54,1.56)	35 (18,46)	3.5	1.8e-10	0.56 (0.34,0.74)	68 (51,68)	1e-09	150	0.34 (0.03,0.65)
	Random	0.89	0.56	0.39	0.99 (0.55,1.56)	37 (19,49)	4.4	1.3	0.53 (0.32,0.7)	65 (49,66)	0.83	180	0.3 (0.02,0.61)
MP 10 (60% > ITRP HCR form 1)	FAD favoured	0.94	0.68	0.5	1.06 (0.6,1.63)	40 (22,53)	3.9	1.5e-10	0.51 (0.32,0.67)	55 (44,55)	6.9e-10	63	0.36 (0.04,0.65)
	LL favoured	0.93	0.65	0.49	1.06 (0.58,1.62)	36 (19,47)	3.5	1.4e-10	0.57 (0.36,0.75)	63 (49,63)	7.8e-10	83	0.39 (0.04,0.69)
	Random	0.94	0.67	0.5	1.06 (0.6,1.63)	38 (21,50)	4.5	1.3	0.54 (0.33,0.71)	58 (47,59)	1.1	94	0.37 (0.04,0.68)
MP 11 (70% > ITRP HCR form 1)	FAD favoured	0.96	0.75	0.58	1.12 (0.64,1.69)	41 (24,53)	3.9	1.6e-10	0.51 (0.33,0.68)	50 (43,50)	6.7e-10	42	0.4 (0.06,0.7)
	LL favoured	0.96	0.77	0.61	1.14 (0.63,1.71)	36 (23,47)	3.5	1.6e-10	0.58 (0.37,0.76)	55 (49,55)	8e-10	44	0.46 (0.1,0.76)
	Random	0.96	0.76	0.59	1.13 (0.64,1.7)	39 (23,50)	4.5	1.3	0.54 (0.35,0.72)	53 (46,53)	0.83	55	0.42 (0.08,0.72)
MP 12 (uTRP HCR form 1)	FAD favoured	0.95	0.72	0.54	1.09 (0.62,1.66)	40 (23,53)	3.9	1.5e-10	0.51 (0.32,0.68)	53 (44,53)	6.7e-10	51	0.38 (0.04,0.68)
	LL favoured	0.95	0.74	0.57	1.11 (0.61,1.68)	36 (21,47)	3.5	1.6e-10	0.57 (0.37,0.76)	58 (49,58)	8.1e-10	53	0.44 (0.08,0.74)
	Random	0.95	0.72	0.55	1.1 (0.63,1.67)	38 (23,50)	4.5	1.3	0.54 (0.34,0.71)	55 (46,55)	0.83	64	0.4 (0.06,0.71)
MP 25 (ITRP HCR form 2)	FAD favoured	0.87	0.54	0.37	0.97 (0.47,1.52)	39 (18,52)	3.9	1.6e-10	0.49 (0.28,0.66)	63 (45,63)	8.4e-10	160	0.27 (0.02,0.58)
	LL favoured	0.87	0.56	0.39	0.99 (0.46,1.54)	35 (17,46)	3.5	2e-10	0.56 (0.3,0.74)	68 (47,68)	1.2e-09	150	0.32 (0.02,0.62)
	Random	0.87	0.54	0.38	0.97 (0.46,1.53)	37 (18,49)	4.3	1.3	0.52 (0.29,0.7)	65 (45,66)	0.83	180	0.29 (0.02,0.6)
MP 28 (uTRP HCR form 2)	FAD favoured	0.94	0.7	0.53	1.08 (0.54,1.65)	40 (21,53)	3.9	1.6e-10	0.51 (0.31,0.68)	53 (45,53)	7.2e-10	51	0.37 (0.03,0.66)
	LL favoured	0.94	0.72	0.56	1.1 (0.53,1.66)	36 (20,47)	3.5	1.9e-10	0.57 (0.34,0.75)	58 (48,58)	1.1e-09	53	0.43 (0.06,0.72)
	Random	0.94	0.71	0.54	1.09 (0.54,1.65)	38 (21,50)	4.4	1.3	0.54 (0.32,0.71)	55 (46,55)	0.83	64	0.39 (0.04,0.69)

Table 7: Performance indicators in the short-term (2028-2036) for the bigeye MP spatial scenario where the MP manages the tropical longline fisheries, including the Hawaiian longline fleet. $SB/SB_{F=0}$ is presented as relative to the TRP, i.e. relative to the average depletion in 2012-2015. The value shown is the median, or the probability. Values in parenthesis are the 95th percentile range.

MP (target)	HCR scenario	Biological				Purse seine				Longline			
		Prob. > LRP	Prob. > ITRP	Prob. > uTRP	Relative $SB/SB_{F=0}$	Catch (000s t)	Catch var. (000s t)	Effort var. (000s sets)	Rel. vuln. biomass	Catch (000s t)	Catch var. (000s t)	Effort var. (mil. hooks)	Rel. vuln. biomass
MP 13 (ITRP HCR form 1)	FAD favoured	0.88	0.58	0.44	1.01 (0.51,1.64)	40 (21,51)	3.9	1.6e-10	0.55 (0.38,0.68)	43 (26,43)	4.7e-10	63	0.43 (0.16,0.67)
	LL favoured	0.88	0.59	0.45	1.02 (0.51,1.63)	34 (17,44)	3.5	1.2e-10	0.61 (0.43,0.75)	48 (29,48)	5.7e-10	78	0.46 (0.21,0.68)
	Random	0.88	0.59	0.45	1.02 (0.51,1.64)	37 (19,48)	4.5	1.4	0.58 (0.41,0.71)	45 (28,45)	0.94	86	0.45 (0.18,0.67)
MP 14 (60% > ITRP HCR form 1)	FAD favoured	0.9	0.64	0.49	1.06 (0.54,1.69)	40 (21,52)	4	0.031	0.56 (0.39,0.69)	35 (21,35)	0.087	40	0.48 (0.21,0.72)
	LL favoured	0.9	0.63	0.49	1.05 (0.54,1.68)	34 (17,44)	3.6	1.5e-07	0.61 (0.44,0.75)	42 (26,43)	0.032	54	0.5 (0.24,0.72)
	Random	0.9	0.63	0.49	1.05 (0.54,1.68)	37 (20,48)	4.4	1.4	0.58 (0.41,0.72)	39 (24,39)	1.6	83	0.49 (0.23,0.72)
MP 15 (70% > ITRP HCR form 1)	FAD favoured	0.91	0.68	0.53	1.09 (0.57,1.74)	40 (22,52)	4	0.31	0.56 (0.4,0.69)	29 (18,30)	0.31	32	0.52 (0.25,0.76)
	LL favoured	0.92	0.69	0.54	1.1 (0.57,1.73)	35 (18,44)	3.6	0.27	0.62 (0.45,0.76)	34 (21,35)	0.43	40	0.56 (0.3,0.78)
	Random	0.92	0.69	0.54	1.1 (0.56,1.74)	37 (20,48)	4.4	1.3	0.59 (0.43,0.72)	32 (20,33)	1.2	53	0.54 (0.28,0.77)
MP 16 (uTRP HCR form 1)	FAD favoured	0.91	0.66	0.51	1.08 (0.55,1.71)	40 (21,52)	4	0.21	0.56 (0.4,0.69)	32 (20,33)	0.23	35	0.5 (0.23,0.74)
	LL favoured	0.91	0.65	0.5	1.07 (0.55,1.7)	34 (17,44)	3.6	0.11	0.62 (0.44,0.75)	40 (24,40)	0.22	48	0.52 (0.26,0.74)
	Random	0.91	0.66	0.51	1.07 (0.55,1.71)	37 (20,48)	4.3	1.4	0.59 (0.42,0.72)	35 (22,36)	1.4	67	0.51 (0.25,0.74)
MP 29 (ITRP HCR form 2)	FAD favoured	0.87	0.57	0.44	1 (0.49,1.64)	40 (23,51)	3.8	1.6e-10	0.54 (0.36,0.68)	43 (35,43)	4.7e-10	60	0.42 (0.15,0.67)
	LL favoured	0.87	0.58	0.44	1.01 (0.49,1.64)	34 (22,44)	3.4	1.2e-10	0.6 (0.4,0.74)	48 (36,48)	5.7e-10	76	0.45 (0.18,0.68)
	Random	0.87	0.58	0.44	1.01 (0.49,1.64)	37 (23,48)	4.3	1.4	0.57 (0.38,0.71)	45 (36,45)	0.94	85	0.44 (0.17,0.67)
MP 32 (uTRP HCR form 2)	FAD favoured	0.9	0.65	0.5	1.06 (0.51,1.71)	40 (24,52)	3.9	0.12	0.55 (0.37,0.68)	32 (31,33)	0.025	28	0.49 (0.2,0.74)
	LL favoured	0.89	0.63	0.49	1.05 (0.51,1.7)	35 (22,44)	3.4	0.02	0.61 (0.4,0.75)	40 (33,40)	0.1	43	0.5 (0.22,0.74)
	Random	0.9	0.64	0.5	1.06 (0.51,1.7)	37 (23,48)	4.3	1.3	0.58 (0.39,0.72)	36 (32,36)	1.3	58	0.5 (0.21,0.74)

Table 8: Performance indicators in the medium-term (2037-2045) for the bigeye MP spatial scenario where the MP manages the tropical longline fisheries, including the Hawaiian longline fleet. $SB/SB_{F=0}$ is presented as relative to the TRP, i.e. relative to the average depletion in 2012-2015. The value shown is the median, or the probability. Values in parenthesis are the 95th percentile range.

MP (target)	HCR scenario	Biological				Purse seine				Longline			
		Prob. > LRP	Prob. > ITRP	Prob. > uTRP	Relative $SB/SB_{F=0}$	Catch (000s t)	Catch var. (000s t)	Effort var. (000s sets)	Rel. vuln. biomass	Catch (000s t)	Catch var. (000s t)	Effort var. (mil. hooks)	Rel. vuln. biomass
MP 13 (ITRP HCR form 1)	FAD favoured	0.89	0.59	0.43	1.01 (0.53,1.57)	39 (19,52)	3.9	1.6e-10	0.52 (0.35,0.68)	43 (26,43)	5.3e-10	76	0.36 (0.06,0.63)
	LL favoured	0.9	0.62	0.46	1.03 (0.53,1.58)	35 (16,46)	3.5	1.2e-10	0.59 (0.39,0.75)	48 (29,48)	5.8e-10	82	0.41 (0.11,0.68)
	Random	0.89	0.6	0.44	1.01 (0.53,1.57)	37 (17,49)	4.6	1.7	0.55 (0.37,0.71)	45 (27,45)	1.1	93	0.38 (0.08,0.64)
MP 14 (60% > ITRP HCR form 1)	FAD favoured	0.93	0.69	0.53	1.09 (0.59,1.66)	40 (23,53)	3.8	1.9e-10	0.53 (0.37,0.68)	35 (23,35)	4.5e-10	34	0.44 (0.13,0.71)
	LL favoured	0.93	0.69	0.53	1.08 (0.58,1.64)	36 (19,46)	3.5	1.3e-10	0.59 (0.41,0.76)	43 (29,43)	5.2e-10	47	0.47 (0.15,0.73)
	Random	0.93	0.68	0.52	1.08 (0.58,1.65)	38 (21,50)	4.7	1.7	0.56 (0.39,0.72)	39 (26,39)	1.7	67	0.45 (0.14,0.71)
MP 15 (70% > ITRP HCR form 1)	FAD favoured	0.95	0.76	0.6	1.15 (0.63,1.72)	40 (24,54)	3.8	1.2e-07	0.54 (0.38,0.69)	30 (21,30)	0.016	22	0.49 (0.19,0.77)
	LL favoured	0.96	0.79	0.63	1.17 (0.64,1.73)	36 (22,47)	3.5	2e-10	0.6 (0.43,0.76)	35 (27,35)	7e-10	25	0.56 (0.24,0.82)
	Random	0.96	0.77	0.61	1.15 (0.63,1.72)	38 (23,50)	4.7	1.7	0.57 (0.4,0.72)	32 (23,33)	1.1	36	0.52 (0.21,0.78)
MP 16 (uTRP HCR form 1)	FAD favoured	0.95	0.73	0.57	1.12 (0.61,1.69)	40 (24,53)	3.9	2e-10	0.54 (0.37,0.68)	33 (23,33)	5e-10	27	0.47 (0.16,0.74)
	LL favoured	0.94	0.72	0.56	1.11 (0.6,1.67)	36 (20,46)	3.5	1.3e-10	0.6 (0.42,0.76)	40 (28,40)	5.3e-10	37	0.5 (0.18,0.76)
	Random	0.94	0.73	0.57	1.12 (0.61,1.69)	38 (22,50)	4.7	1.7	0.57 (0.4,0.72)	36 (25,36)	1.7	56	0.48 (0.17,0.75)
MP 29 (ITRP HCR form 2)	FAD favoured	0.88	0.58	0.42	1 (0.48,1.57)	39 (19,52)	3.8	1.7e-10	0.52 (0.32,0.67)	43 (33,43)	5.3e-10	72	0.34 (0.04,0.62)
	LL favoured	0.88	0.6	0.45	1.02 (0.47,1.58)	35 (19,46)	3.4	1.2e-10	0.58 (0.35,0.74)	48 (35,48)	5.9e-10	81	0.4 (0.06,0.67)
	Random	0.88	0.58	0.43	1.01 (0.47,1.57)	37 (19,49)	4.5	1.7	0.55 (0.33,0.7)	45 (34,45)	1.1	93	0.36 (0.04,0.64)
MP 32 (uTRP HCR form 2)	FAD favoured	0.93	0.71	0.55	1.1 (0.53,1.68)	40 (23,53)	3.8	2.2e-10	0.53 (0.34,0.68)	33 (31,33)	5.6e-10	24	0.45 (0.11,0.73)
	LL favoured	0.92	0.7	0.55	1.1 (0.52,1.67)	36 (22,47)	3.4	1.4e-10	0.59 (0.37,0.75)	40 (33,40)	5.7e-10	36	0.48 (0.12,0.76)
	Random	0.92	0.7	0.55	1.1 (0.53,1.67)	38 (23,50)	4.5	1.7	0.56 (0.36,0.72)	36 (31,36)	1.7	56	0.46 (0.12,0.74)

Table 9: Performance indicators in the long-term (2046-2054) for the bigeye MP spatial scenario where the MP manages the tropical longline fisheries, including the Hawaiian longline fleet. $SB/SB_{F=0}$ is presented as relative to the TRP, i.e. relative to the average depletion in 2012-2015. The value shown is the median, or the probability. Values in parenthesis are the 95th percentile range.

MP (target)	HCR scenario	Biological				Purse seine				Longline			
		Prob. > LRP	Prob. > ITRP	Prob. > uTRP	Relative $SB/SB_{F=0}$	Catch (000s t)	Catch var. (000s t)	Effort var. (000s sets)	Rel. vuln. biomass	Catch (000s t)	Catch var. (000s t)	Effort var. (mil. hooks)	Rel. vuln. biomass
MP 13 (ITRP HCR form 1)	FAD favoured	0.88	0.56	0.39	0.98 (0.51,1.56)	39 (20,52)	3.9	1.6e-10	0.5 (0.31,0.67)	43 (31,43)	5.9e-10	81	0.32 (0.03,0.62)
	LL favoured	0.89	0.58	0.42	1 (0.52,1.58)	35 (18,46)	3.5	1.4e-10	0.56 (0.35,0.74)	48 (35,48)	6.9e-10	88	0.37 (0.03,0.67)
	Random	0.88	0.57	0.4	0.99 (0.51,1.57)	37 (19,49)	4.4	1.3	0.53 (0.32,0.7)	45 (34,45)	0.83	110	0.34 (0.03,0.65)
MP 14 (60% > ITRP HCR form 1)	FAD favoured	0.94	0.67	0.5	1.07 (0.58,1.65)	40 (23,53)	3.9	1.6e-10	0.51 (0.32,0.67)	35 (28,35)	4.4e-10	33	0.4 (0.08,0.71)
	LL favoured	0.92	0.65	0.49	1.05 (0.56,1.64)	36 (20,47)	3.5	1.4e-10	0.57 (0.36,0.75)	43 (34,43)	5.5e-10	47	0.43 (0.08,0.73)
	Random	0.92	0.65	0.48	1.05 (0.56,1.63)	38 (22,50)	4.5	1.3	0.54 (0.34,0.71)	39 (31,39)	1.4	70	0.4 (0.06,0.71)
MP 15 (70% > ITRP HCR form 1)	FAD favoured	0.96	0.74	0.58	1.12 (0.62,1.71)	41 (25,54)	3.9	1.5e-10	0.51 (0.33,0.68)	30 (26,30)	3.5e-10	20	0.46 (0.13,0.75)
	LL favoured	0.96	0.77	0.61	1.14 (0.62,1.73)	37 (23,48)	3.5	1.3e-10	0.58 (0.38,0.76)	35 (31,35)	4.6e-10	24	0.51 (0.16,0.81)
	Random	0.96	0.75	0.59	1.13 (0.62,1.72)	39 (24,50)	4.5	1.3	0.54 (0.36,0.72)	33 (28,33)	0.83	34	0.48 (0.14,0.78)
MP 16 (uTRP HCR form 1)	FAD favoured	0.95	0.71	0.54	1.09 (0.6,1.68)	41 (24,53)	3.9	1.5e-10	0.51 (0.33,0.68)	33 (27,33)	4e-10	26	0.43 (0.1,0.73)
	LL favoured	0.94	0.69	0.53	1.08 (0.58,1.67)	36 (21,47)	3.5	1.4e-10	0.57 (0.37,0.75)	40 (33,40)	5.3e-10	37	0.45 (0.1,0.76)
	Random	0.94	0.71	0.55	1.09 (0.6,1.68)	38 (23,50)	4.5	1.3	0.54 (0.35,0.71)	36 (30,36)	1.1	50	0.44 (0.11,0.75)
MP 29 (ITRP HCR form 2)	FAD favoured	0.86	0.54	0.38	0.97 (0.44,1.54)	39 (18,52)	3.8	1.6e-10	0.5 (0.27,0.67)	43 (31,43)	6e-10	79	0.31 (0.02,0.61)
	LL favoured	0.87	0.57	0.41	0.99 (0.43,1.57)	35 (17,46)	3.5	1.5e-10	0.56 (0.29,0.74)	48 (33,48)	7.1e-10	89	0.35 (0.02,0.66)
	Random	0.86	0.55	0.39	0.98 (0.43,1.55)	37 (17,49)	4.3	1.3	0.52 (0.28,0.7)	45 (32,45)	0.83	110	0.32 (0.02,0.63)
MP 32 (uTRP HCR form 2)	FAD favoured	0.93	0.69	0.53	1.08 (0.5,1.67)	41 (21,53)	3.9	1.6e-10	0.51 (0.31,0.68)	33 (30,33)	4e-10	25	0.42 (0.05,0.72)
	LL favoured	0.92	0.68	0.52	1.08 (0.49,1.66)	36 (19,47)	3.5	1.4e-10	0.57 (0.33,0.75)	40 (33,40)	5.4e-10	37	0.44 (0.05,0.75)
	Random	0.92	0.69	0.53	1.09 (0.51,1.67)	38 (20,50)	4.4	1.3	0.54 (0.32,0.71)	36 (31,36)	1.1	50	0.43 (0.06,0.74)

Table 10: Performance indicators in the short-term (2028-2036) for the bigeye MP spatial scenario where the MP manages the tropical longline fisheries, excluding the Hawaiian longline fleet. $SB/SB_{F=0}$ is presented as relative to the TRP, i.e. relative to the average depletion in 2012-2015. The value shown is the median, or the probability. Values in parenthesis are the 95th percentile range.

MP (target)	HCR scenario	Biological				Purse seine				Longline			
		Prob. > LRP	Prob. > ITRP	Prob. > uTRP	Relative $SB/SB_{F=0}$	Catch (000s t)	Catch var. (000s t)	Effort var. (000s sets)	Rel. vuln. biomass	Catch (000s t)	Catch var. (000s t)	Effort var. (mil. hooks)	Rel. vuln. biomass
MP 17 (ITRP HCR form 1)	FAD favoured	0.88	0.58	0.44	1.01 (0.51,1.63)	40 (21,51)	3.9	1.6e-10	0.55 (0.38,0.68)	40 (24,40)	4.6e-10	62	0.43 (0.16,0.67)
	LL favoured	0.88	0.59	0.45	1.02 (0.51,1.63)	34 (17,44)	3.5	1.2e-10	0.61 (0.43,0.75)	45 (27,45)	5.5e-10	79	0.46 (0.21,0.68)
	Random	0.88	0.58	0.44	1.01 (0.51,1.64)	37 (19,48)	4.5	1.4	0.58 (0.41,0.71)	43 (26,43)	0.94	87	0.45 (0.18,0.67)
MP 18 (60% > ITRP HCR form 1)	FAD favoured	0.9	0.64	0.49	1.06 (0.54,1.69)	40 (21,52)	4	0.015	0.56 (0.39,0.69)	32 (20,33)	0.068	38	0.49 (0.21,0.72)
	LL favoured	0.9	0.63	0.48	1.05 (0.54,1.68)	34 (17,44)	3.6	1.4e-07	0.61 (0.44,0.75)	40 (24,40)	0.036	53	0.5 (0.24,0.72)
	Random	0.9	0.63	0.49	1.05 (0.54,1.69)	37 (19,48)	4.4	1.4	0.58 (0.41,0.72)	36 (22,36)	1.3	73	0.5 (0.23,0.73)
MP 19 (70% > ITRP HCR form 1)	FAD favoured	0.91	0.68	0.53	1.09 (0.56,1.74)	40 (21,52)	4	0.32	0.56 (0.4,0.69)	27 (17,28)	0.29	30	0.52 (0.26,0.76)
	LL favoured	0.92	0.69	0.54	1.1 (0.56,1.73)	35 (18,44)	3.6	0.27	0.62 (0.45,0.76)	32 (20,33)	0.39	39	0.56 (0.3,0.78)
	Random	0.91	0.68	0.54	1.1 (0.56,1.73)	37 (20,48)	4.4	1.3	0.59 (0.43,0.72)	29 (18,30)	1.2	52	0.55 (0.28,0.77)
MP 20 (uTRP HCR form 1)	FAD favoured	0.91	0.66	0.51	1.07 (0.55,1.71)	40 (21,52)	4	0.21	0.56 (0.4,0.69)	30 (18,30)	0.21	34	0.51 (0.24,0.74)
	LL favoured	0.91	0.67	0.52	1.08 (0.55,1.71)	35 (18,44)	3.6	0.2	0.62 (0.44,0.76)	34 (21,35)	0.33	42	0.54 (0.28,0.77)
	Random	0.91	0.67	0.52	1.08 (0.55,1.71)	37 (20,48)	4.4	1.4	0.59 (0.42,0.72)	32 (20,33)	1.1	56	0.53 (0.26,0.75)
MP 33 (ITRP HCR form 2)	FAD favoured	0.87	0.57	0.43	1 (0.49,1.63)	40 (23,51)	3.8	1.6e-10	0.54 (0.36,0.68)	40 (33,40)	4.6e-10	60	0.42 (0.15,0.67)
	LL favoured	0.87	0.58	0.44	1.01 (0.48,1.63)	34 (21,44)	3.4	1.2e-10	0.6 (0.4,0.74)	45 (34,45)	5.5e-10	78	0.45 (0.18,0.68)
	Random	0.87	0.58	0.44	1.01 (0.49,1.64)	37 (22,48)	4.3	1.4	0.57 (0.38,0.71)	43 (34,43)	0.94	87	0.44 (0.17,0.67)
MP 36 (uTRP HCR form 2)	FAD favoured	0.9	0.64	0.5	1.06 (0.52,1.71)	40 (24,52)	3.9	0.12	0.55 (0.37,0.68)	30 (29,30)	0.015	27	0.49 (0.2,0.74)
	LL favoured	0.9	0.65	0.5	1.07 (0.52,1.71)	35 (22,44)	3.4	0.036	0.61 (0.41,0.75)	35 (31,35)	0.11	36	0.52 (0.23,0.76)
	Random	0.9	0.65	0.5	1.06 (0.52,1.71)	37 (23,48)	4.3	1.3	0.58 (0.39,0.72)	32 (30,33)	0.94	48	0.51 (0.22,0.75)

Table 11: Performance indicators in the medium-term (2037-2045) for the bigeye MP spatial scenario where the MP manages the tropical longline fisheries, excluding the Hawaiian longline fleet. $SB/SB_{F=0}$ is presented as relative to the TRP, i.e. relative to the average depletion in 2012-2015. The value shown is the median, or the probability. Values in parenthesis are the 95th percentile range.

MP (target)	HCR scenario	Biological				Purse seine				Longline			
		Prob. > LRP	Prob. > ITRP	Prob. > uTRP	Relative $SB/SB_{F=0}$	Catch (000s t)	Catch var. (000s t)	Effort var. (000s sets)	Rel. vuln. biomass	Catch (000s t)	Catch var. (000s t)	Effort var. (mil. hooks)	Rel. vuln. biomass
MP 17 (ITRP HCR form 1)	FAD favoured	0.89	0.59	0.43	1 (0.52,1.57)	39 (19,52)	3.9	1.7e-10	0.52 (0.34,0.68)	40 (24,40)	5.1e-10	75	0.36 (0.06,0.63)
	LL favoured	0.9	0.62	0.45	1.03 (0.53,1.58)	35 (16,46)	3.5	1.2e-10	0.59 (0.39,0.75)	45 (27,45)	5.9e-10	83	0.41 (0.11,0.67)
	Random	0.89	0.59	0.44	1.01 (0.52,1.57)	37 (17,49)	4.6	1.7	0.55 (0.37,0.71)	43 (25,43)	1.1	95	0.38 (0.08,0.65)
MP 18 (60% > ITRP HCR form 1)	FAD favoured	0.93	0.69	0.53	1.09 (0.58,1.66)	40 (22,53)	3.8	1.8e-10	0.53 (0.37,0.68)	33 (21,33)	4.3e-10	32	0.45 (0.14,0.71)
	LL favoured	0.93	0.68	0.52	1.08 (0.58,1.64)	36 (19,46)	3.5	1.3e-10	0.59 (0.41,0.76)	40 (27,40)	5.1e-10	47	0.47 (0.15,0.73)
	Random	0.93	0.69	0.53	1.09 (0.58,1.65)	38 (21,50)	4.7	1.7	0.56 (0.39,0.72)	36 (23,36)	1.7	65	0.46 (0.15,0.72)
MP 19 (70% > ITRP HCR form 1)	FAD favoured	0.95	0.76	0.6	1.14 (0.63,1.72)	40 (24,54)	3.9	0.015	0.54 (0.38,0.69)	28 (19,28)	0.023	20	0.5 (0.2,0.77)
	LL favoured	0.96	0.78	0.63	1.17 (0.63,1.73)	36 (22,47)	3.5	1.7e-10	0.6 (0.43,0.76)	33 (25,33)	5.7e-10	23	0.56 (0.25,0.82)
	Random	0.95	0.76	0.61	1.15 (0.63,1.72)	38 (23,50)	4.7	1.7	0.57 (0.4,0.72)	30 (21,30)	1.1	35	0.52 (0.22,0.79)
MP 20 (uTRP HCR form 1)	FAD favoured	0.94	0.72	0.57	1.12 (0.61,1.69)	40 (24,53)	3.9	2.1e-10	0.54 (0.37,0.68)	30 (21,30)	4.6e-10	25	0.47 (0.17,0.74)
	LL favoured	0.95	0.75	0.59	1.14 (0.61,1.7)	36 (21,47)	3.5	1.4e-10	0.6 (0.42,0.76)	35 (25,35)	5.1e-10	29	0.53 (0.22,0.79)
	Random	0.95	0.73	0.57	1.12 (0.61,1.69)	38 (22,50)	4.7	1.7	0.57 (0.4,0.72)	33 (22,33)	1.1	41	0.49 (0.19,0.76)
MP 33 (ITRP HCR form 2)	FAD favoured	0.87	0.57	0.42	1 (0.47,1.57)	39 (19,52)	3.8	1.7e-10	0.52 (0.32,0.67)	40 (31,40)	5.2e-10	71	0.34 (0.04,0.62)
	LL favoured	0.88	0.6	0.44	1.02 (0.46,1.58)	35 (19,46)	3.4	1.2e-10	0.58 (0.35,0.74)	45 (33,45)	6e-10	82	0.39 (0.06,0.67)
	Random	0.88	0.58	0.43	1 (0.47,1.57)	37 (19,49)	4.5	1.7	0.55 (0.32,0.7)	43 (32,43)	1.1	94	0.36 (0.04,0.64)
MP 36 (uTRP HCR form 2)	FAD favoured	0.92	0.7	0.55	1.1 (0.53,1.67)	40 (24,53)	3.8	2.3e-10	0.53 (0.35,0.68)	30 (29,30)	5.3e-10	22	0.46 (0.11,0.74)
	LL favoured	0.93	0.72	0.58	1.12 (0.53,1.69)	36 (22,47)	3.4	1.7e-10	0.59 (0.38,0.76)	35 (30,35)	5.8e-10	28	0.51 (0.14,0.79)
	Random	0.93	0.71	0.56	1.11 (0.53,1.68)	38 (23,50)	4.5	1.7	0.56 (0.36,0.72)	32 (29,33)	1.1	42	0.47 (0.12,0.75)

Table 12: Performance indicators in the long-term (2046-2054) for the bigeye MP spatial scenario where the MP manages the tropical longline fisheries, excluding the Hawaiian longline fleet. $SB/SB_{F=0}$ is presented as relative to the TRP, i.e. relative to the average depletion in 2012-2015. The value shown is the median, or the probability. Values in parenthesis are the 95th percentile range.

MP (target)	HCR scenario	Biological				Purse seine				Longline			
		Prob. > LRP	Prob. > ITRP	Prob. > uTRP	Relative $SB/SB_{F=0}$	Catch (000s t)	Catch var. (000s t)	Effort var. (000s sets)	Rel. vuln. biomass	Catch (000s t)	Catch var. (000s t)	Effort var. (mil. hooks)	Rel. vuln. biomass
MP 17 (ITRP HCR form 1)	FAD favoured	0.88	0.55	0.39	0.98 (0.51,1.55)	39 (20,52)	3.9	1.6e-10	0.5 (0.31,0.67)	40 (29,40)	5.6e-10	79	0.32 (0.03,0.63)
	LL favoured	0.88	0.58	0.41	1 (0.51,1.58)	35 (18,46)	3.6	1.4e-10	0.56 (0.35,0.74)	45 (34,45)	6.7e-10	89	0.36 (0.03,0.67)
	Random	0.88	0.56	0.39	0.99 (0.51,1.57)	37 (19,49)	4.4	1.3	0.53 (0.32,0.7)	43 (31,43)	0.83	110	0.33 (0.03,0.64)
MP 18 (60% > ITRP HCR form 1)	FAD favoured	0.93	0.67	0.5	1.06 (0.57,1.65)	40 (23,53)	3.9	1.5e-10	0.51 (0.32,0.67)	33 (26,33)	4.1e-10	31	0.41 (0.08,0.71)
	LL favoured	0.92	0.65	0.49	1.05 (0.55,1.64)	36 (20,47)	3.5	1.4e-10	0.57 (0.36,0.75)	40 (31,40)	5.7e-10	46	0.43 (0.08,0.73)
	Random	0.93	0.66	0.5	1.06 (0.57,1.65)	38 (22,50)	4.5	1.3	0.54 (0.34,0.71)	36 (28,36)	1.1	60	0.42 (0.08,0.73)
MP 19 (70% > ITRP HCR form 1)	FAD favoured	0.95	0.74	0.58	1.12 (0.61,1.71)	41 (25,54)	3.9	1.6e-10	0.52 (0.33,0.68)	28 (23,28)	3.5e-10	19	0.47 (0.14,0.76)
	LL favoured	0.96	0.76	0.6	1.14 (0.62,1.73)	37 (23,48)	3.5	1.3e-10	0.58 (0.38,0.76)	33 (29,33)	4.2e-10	22	0.52 (0.16,0.82)
	Random	0.95	0.75	0.59	1.12 (0.61,1.71)	39 (24,50)	4.5	1.3	0.54 (0.35,0.72)	30 (26,30)	0.83	33	0.49 (0.15,0.78)
MP 20 (uTRP HCR form 1)	FAD favoured	0.94	0.7	0.54	1.09 (0.59,1.68)	41 (24,53)	3.9	1.6e-10	0.51 (0.33,0.68)	30 (25,30)	3.7e-10	24	0.44 (0.11,0.74)
	LL favoured	0.95	0.73	0.57	1.11 (0.6,1.7)	36 (22,47)	3.5	1.4e-10	0.58 (0.37,0.76)	35 (30,35)	4.8e-10	28	0.49 (0.13,0.79)
	Random	0.95	0.71	0.55	1.1 (0.59,1.68)	39 (23,50)	4.5	1.3	0.54 (0.35,0.71)	33 (27,33)	0.83	40	0.46 (0.12,0.76)
MP 33 (ITRP HCR form 2)	FAD favoured	0.86	0.54	0.38	0.97 (0.43,1.54)	39 (17,52)	3.8	1.6e-10	0.5 (0.27,0.67)	40 (29,40)	5.8e-10	78	0.31 (0.02,0.62)
	LL favoured	0.86	0.56	0.41	0.99 (0.42,1.57)	35 (17,46)	3.5	1.4e-10	0.56 (0.29,0.74)	45 (30,45)	7.2e-10	91	0.35 (0.02,0.66)
	Random	0.86	0.55	0.39	0.98 (0.43,1.55)	37 (17,49)	4.3	1.3	0.52 (0.28,0.7)	43 (30,43)	0.83	110	0.32 (0.02,0.63)
MP 36 (uTRP HCR form 2)	FAD favoured	0.93	0.69	0.53	1.08 (0.5,1.67)	41 (21,53)	3.9	1.6e-10	0.51 (0.31,0.68)	30 (28,30)	3.8e-10	24	0.43 (0.06,0.73)
	LL favoured	0.93	0.71	0.55	1.1 (0.5,1.69)	36 (20,47)	3.5	1.4e-10	0.57 (0.33,0.76)	35 (30,35)	5.2e-10	28	0.48 (0.07,0.78)
	Random	0.93	0.7	0.54	1.09 (0.5,1.67)	39 (21,50)	4.4	1.3	0.54 (0.31,0.71)	33 (29,33)	0.83	40	0.44 (0.06,0.75)