

Eleventh Joint IATTC–NC Working Group Meeting on PBF Management

Report of the ISC Bluefin Working Group (PBFWG)

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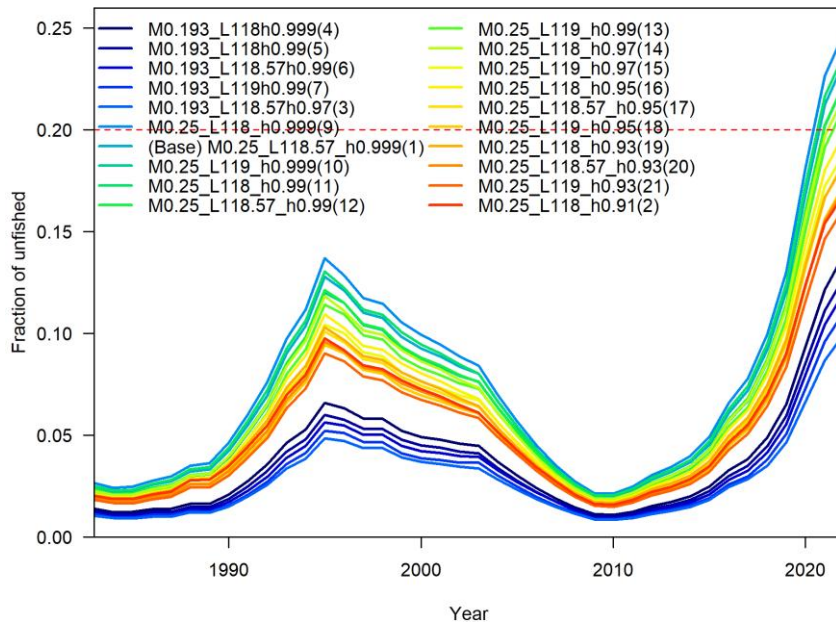


Progress on MSE

Progress on MSE

- ❖ PBFWG completed PBFMSE in 2025, which was approved by ISC25.
- ❖ Results were presented to IATTC–WCPFC NC JWG in 2025 but it did not reach an agreement on selecting MP.
- ❖ Meanwhile, miscalculation of TAC1 was identified and PBFWG held an online meeting to revise calculation. The revised TAC1 was presented to JWG (March 2026).
- ❖ JWG in March requested TAC calculation of a new HCR, review of recruitment index, and provision of draft Exceptional Circumstance Provision.
- ❖ PBFWG completed tasks requested by JWG and presented here.
(IATTC–NC–JWG11–2026–IP04, Appendix 4)

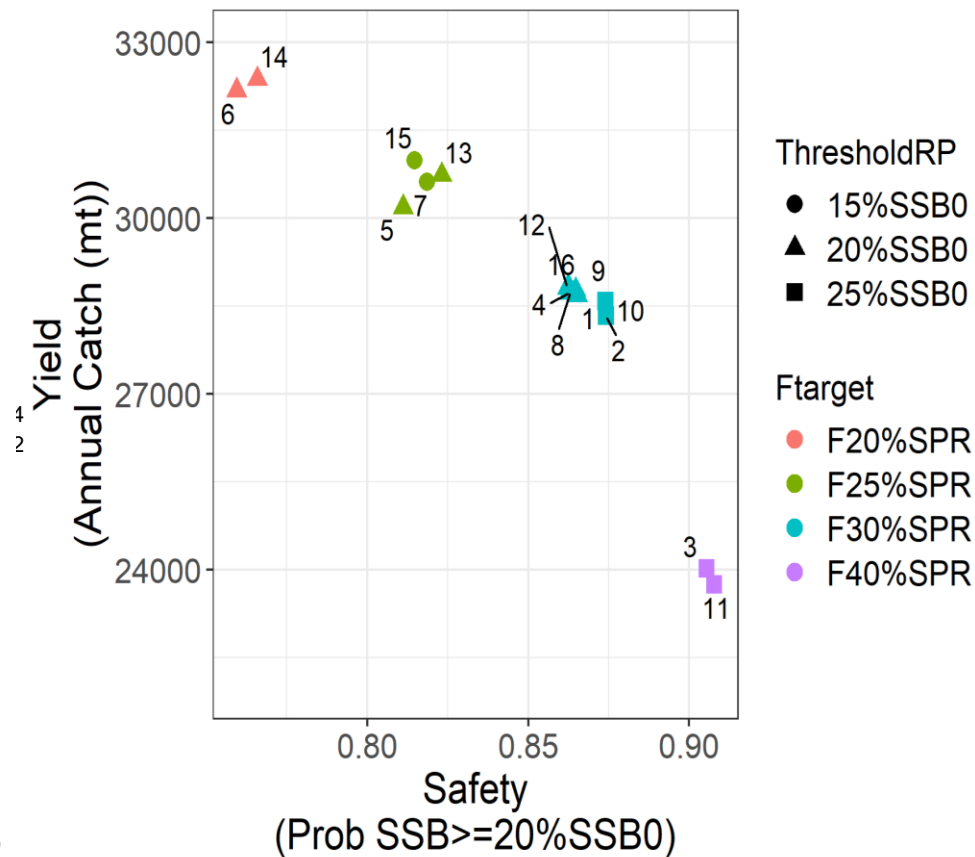
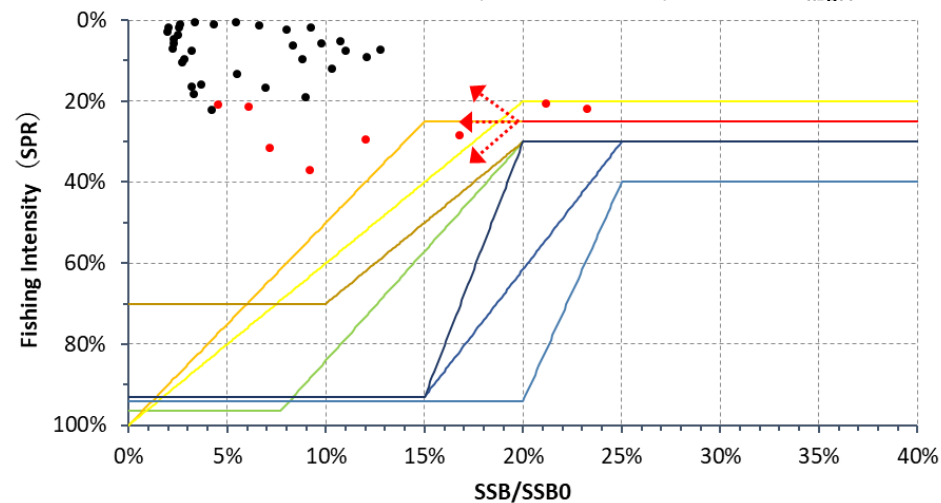
Operating Model (Lee and Tommasi, 2024)



OM	M	Length _{age3}	Steepness
1	0.25	118.57	0.999
2	0.25	118	0.91
3	0.193	118.57	0.97
4	0.193	118	0.999
5	0.193	118	0.99
6	0.193	118.57	0.99
7	0.193	119	0.99
8	0.193	118	0.97
9	0.25	118	0.999
10	0.25	119	0.999
11	0.25	118	0.99
12	0.25	118.57	0.99
13	0.25	119	0.99
14	0.25	118	0.97
15	0.25	119	0.97
16	0.25	118	0.95
17	0.25	118.57	0.95
18	0.25	119	0.95
19	0.25	118	0.93
20	0.25	118.57	0.93
21	0.25	119	0.93

HCR and Performance evaluation

HCR	Target F	Threshold RP	Limit RP	F _{min}
1, 9	FSPR30%	20%SSB ₀	15%SSB ₀	10%F _{target}
2, 10	FSPR30%	25%SSB ₀	15%SSB ₀	10%F _{target}
3, 11	FSPR40%	25%SSB ₀	20%SSB ₀	10%F _{target}
4, 12	FSPR30%	20%SSB ₀	10%SSB ₀	FSPR70%
5, 13	FSPR25%	20%SSB ₀	NA	Constant Catch CMM2021-02 C-21-05
6, 14	FSPR20%	20%SSB ₀	NA	NA
7, 15	FSPR25%	15%SS ₀	NA	NA
8, 16	FSPR30%	20%SSB ₀	7.7%SSB ₀	5%F _{target}



Revision of MP-TAC



Performance Indicators

Reference Set

	Prob SSB => LRP	Prob SSB => 20%SSBo	Prob F <= Ftarget	Prob SSB => SSBtarget	% change TAC +	% change TAC -	EPO Impact	Median annual catch	Median years 5-10 annual catch	Median years 11-23 annual catch	Median WCPO large fish annual TAC	Median WCPO small fish annual TAC	Median EPO annual TAC	2026 TAC	2026 TAC WCPO large fish	2026 TAC WCPO small fish	2026 TAC EPO
1	93	87	81	62	-14	-11	23	28685	26744	31094	16174	4093	6794	25868	14836	4512	6520
2	94	87	84	64	-15	-14	23	28330	26054	30691	15618	4069	6794	25868	14836	4512	6520
3	91	91	85	56	-17	-9	24	24026	21135	26361	13472	3346	5971	24366	14836	3844	5686
4	99	86	80	61	-13	-11	23	28722	26745	31124	16221	4102	6794	25868	14836	4512	6520
5	100	81	78	66	-13	-12	22	30183	28894	32227	16965	4617	7054	27485	14836	5161	7488
6	99	76	79	76	-14	-14	22	32174	31286	34249	18243	5063	7609	29437	14836	5939	8662
7	100	82	79	67	-13	-11	23	30616	28940	32814	17330	4557	7192	27485	14836	5161	7488
8	100	86	80	61	-14	-11	23	28741	26746	31127	16222	4101	6794	25868	14836	4512	6520
9	93	86	83	63	-13	-10	32	28773	26503	30537	13378	3722	10528	28156	14836	3844	9476
10	93	87	85	65	-16	-12	32	28582	25973	30368	13242	3722	10433	28156	14836	3844	9476
11	91	91	86	56	-16	-8	32	23748	21378	26147	10877	3023	8632	25451	13031	3844	8576
12	99	86	82	62	-12	-10	33	28812	26505	30572	13414	3722	10568	28156	14836	3844	9476
13	100	82	81	68	-13	-12	30	30735	29380	31768	14567	4160	11175	28674	14836	4362	9476
14	99	77	81	77	-15	-13	31	32369	32077	33617	15040	4592	11323	29335	14836	5023	9476
15	100	81	80	67	-12	-10	32	30988	29413	32137	14567	4108	11323	28674	14836	4362	9476
16	100	86	82	62	-12	-10	33	28826	26507	30582	13413	3722	10565	28156	14836	3844	9476

Newport beach proposal (NPB proposal)

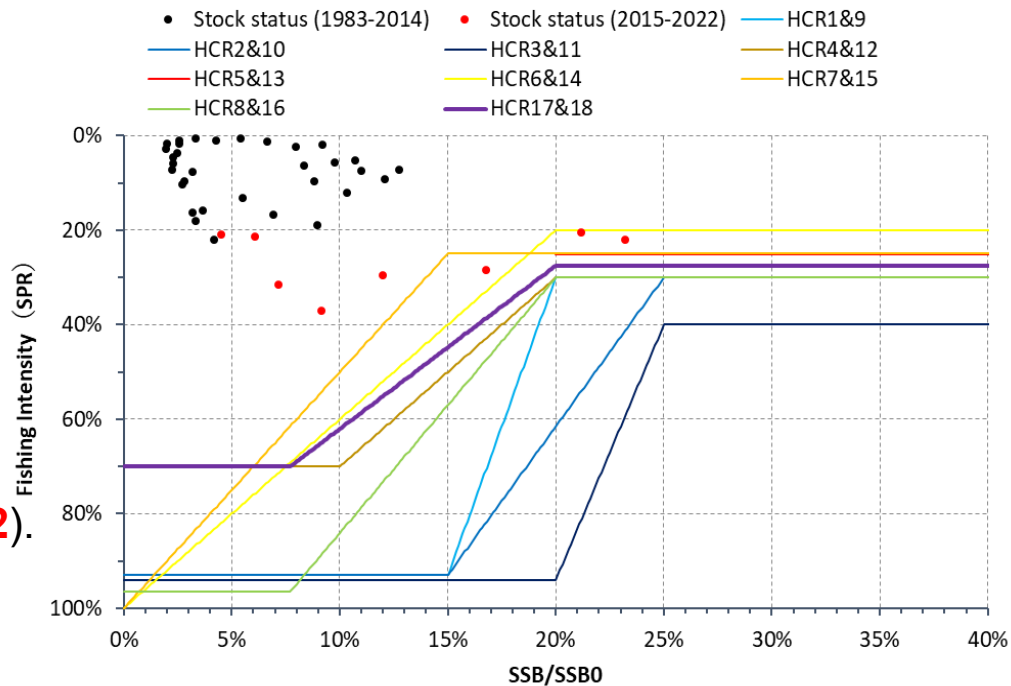


❖ March 2026 PBF JWG intersessional meeting 03

- Joint proposal on New MP candidate
 - TRP: $F_{27.5\%SPR}$
 - Control point 1: $20\%SSB_{F=0}$
 - Control point 2: $7.7\%SSB_{F=0}$
 - F_{min} : $F_{70\%SPR}$
 - MP update cycle: 2 years
 - WCPO:EPO impact ratio
 - ✓ 80:20 (MP 17)
 - ✓ 70:30 (MP 18)

❖ Evaluation of performance

- PBFWG calculated only TAC1 (**Table 2**).
- No formal MSE yet.
- Performance metrics may fall between those of MP7 and MP8.
- Upon adoption of the MP, PBFWG will conduct the formal MSE.





Exceptional Circumstance Protocol

Exceptional circumstance protocol



Element	Indicator	Range	Evaluation Schedule
Stock and Fleet Dynamics	Depletion of stock biomass	In any year estimates fall outside the range of uncertainty simulated by the operating models (OMs) used in the MSE.	EM update or stock assessment
	Fishing intensity ($F_{\%SPR}$) where SPR is the spawning potential ratio		
	Longline CPUE	In any year estimates fall outside the range of uncertainty simulated by the MSE.	Every year when CPUE is updated.
	Changes in fleet dynamics or selectivity	Any substantial differences from the structure and parameterization used in the OMs of the most recent MSE	As new evidence and research is presented and accepted by the PBFWG
	Biological parameters		
	Recruitment drop	Recruitment index shows low trend persistently.	Every year when CPUE is updated.
Application	EM or Stock assessment	EM or Stock assessment is not producible or estimates are unreliable.	EM update or stock assessment
Implementation	Realized catch or effort	If there is evidence that catch or effort outside of management, such as discard mortality or by new fleets, is greater than assumed in the MSE.	As new evidence and research is presented and accepted by the PBFWG



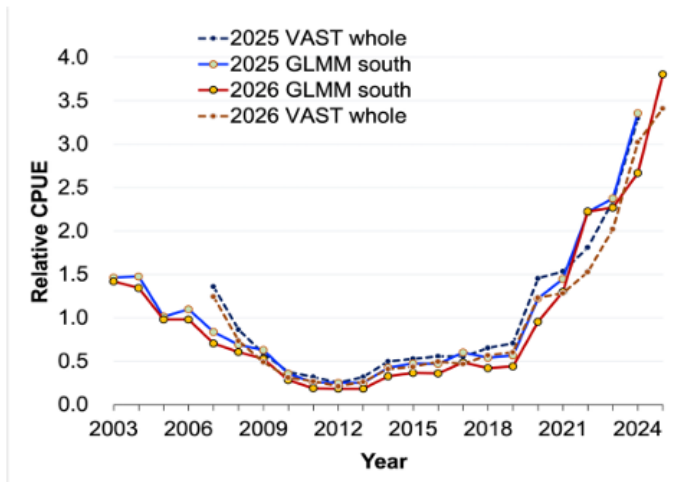
Review of Recruitment Index

Update of abundance index



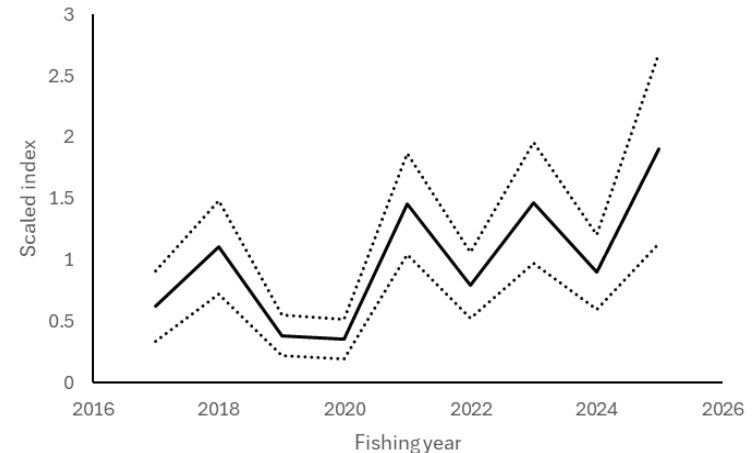
Large adult abundance index

- ✓ Standardized Taiwanese longline CPUE.
- ✓ 200 cm or larger PBF was caught.
- ✓ Both GLMM and VAST models showed a good recovery of PBF, as expected in the projection.



Recruitment monitoring index

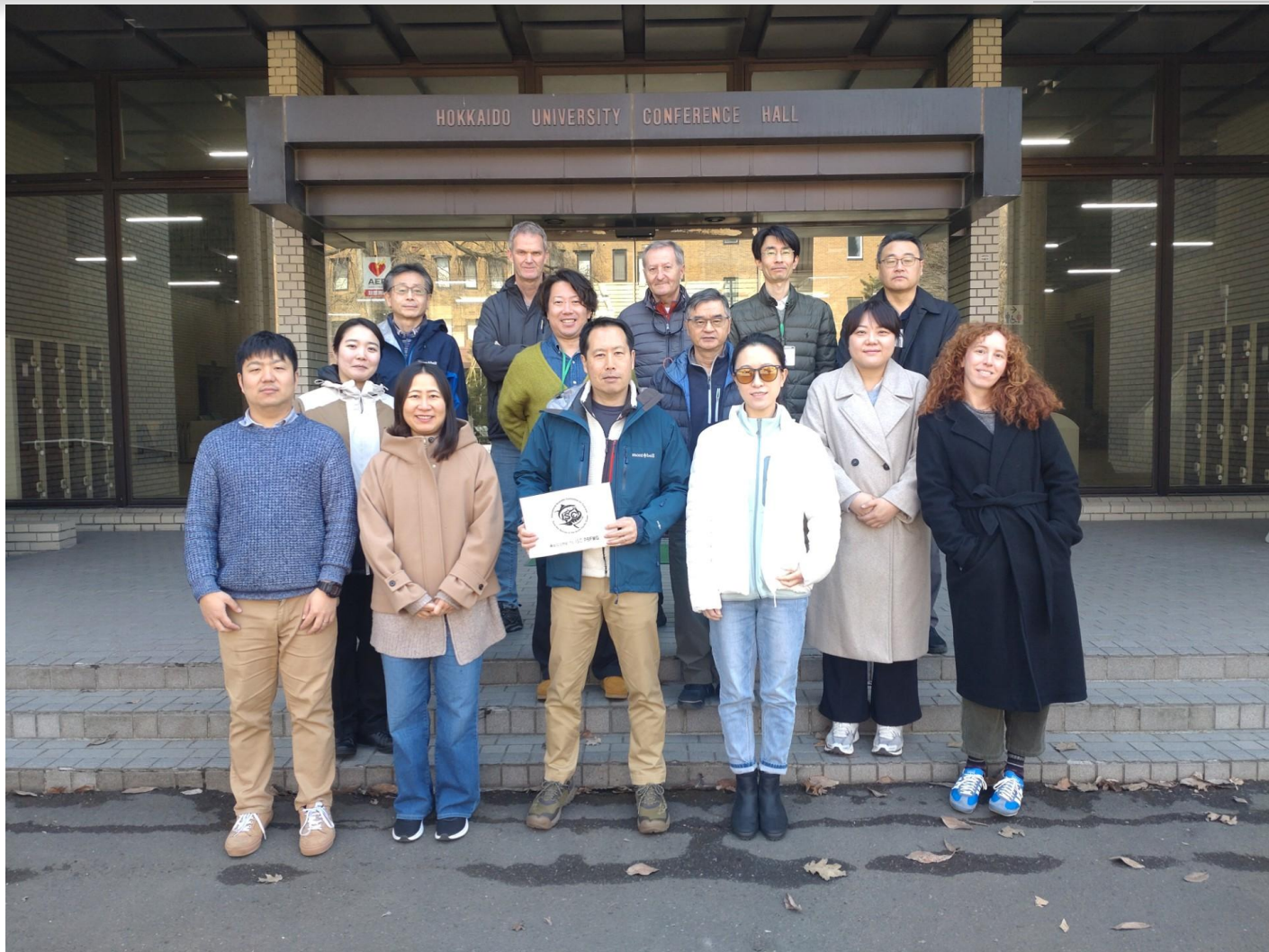
- ✓ Real-time monitoring of troll vessel.
- ✓ About 300 commercial and chartered operations per year.
- ✓ Spatial and temporal standardization.
- ✓ No indication of serious recruitment decline in recent years.



Schedules

- July: JWG11 (Nagasaki, Japan)
 - Adoption of MP
- Nov. 17-24 2026 (TBC) : data prep meeting (online)
- Mar. 15-20 2027 (TBC) : health check (stock assessment) (physical)

	2027	2028	2029	2030	2031	2032
MP	Adopted MP simulation	MP run		MP run	MSE review	New MP run
assessment	Health Check			Benchmark		



Thank you for your attention.