South Atlantic Golden Tilefish SEDAR 89 Correction

Overview of Landings Issue and Model Changes

SAFMC Meeting December 2025

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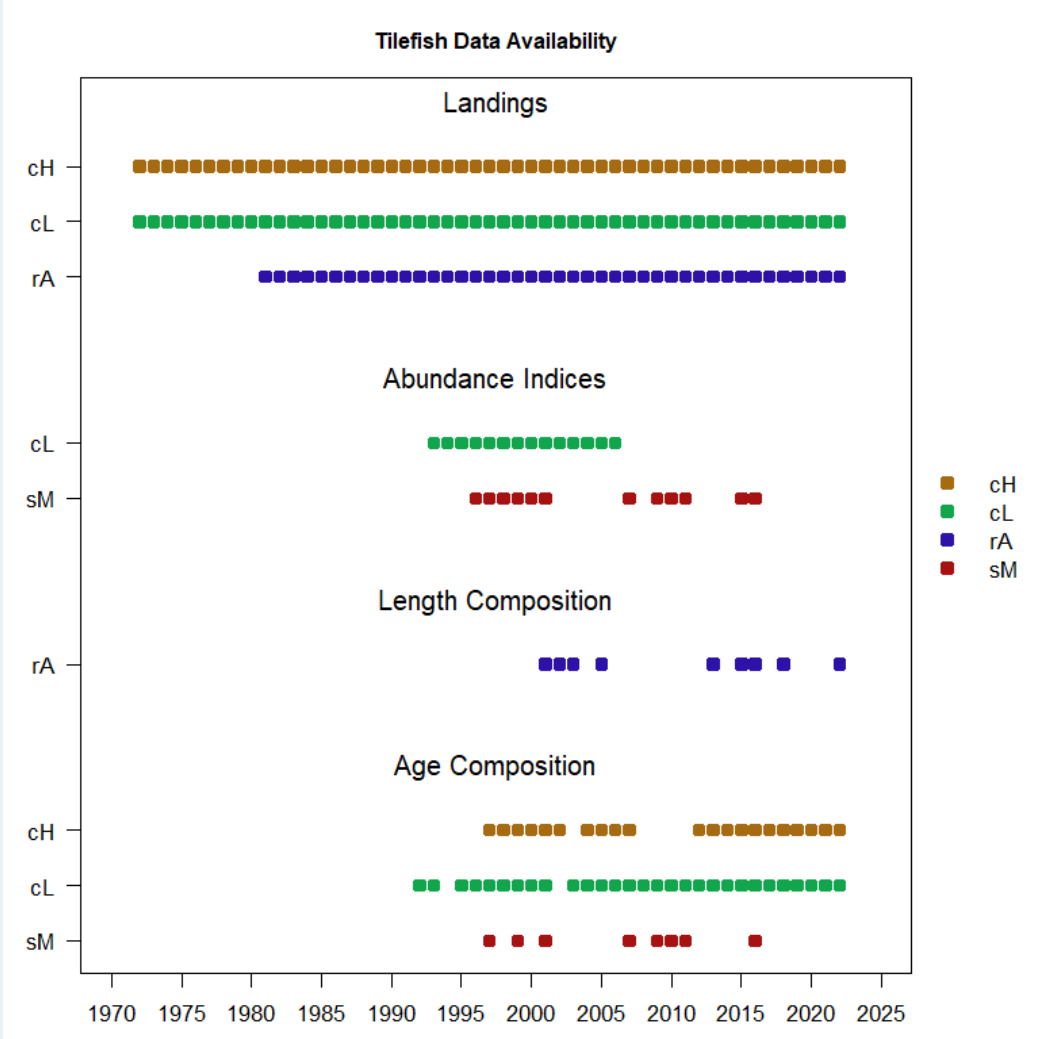
Background

- SEDAR 89 was presented to SSC in October 2024
- A discrepancy between commercial landings included in the assessment and quota monitoring was identified in April 2025.
- ACCSP revised the previously provided estimates
- Assessment was rerun with corrected data

Model Changes and Data

- Initial F value was modified
  - Previously very low 0.01
  - Fixed at 1
- Landings were revised based on corrected data



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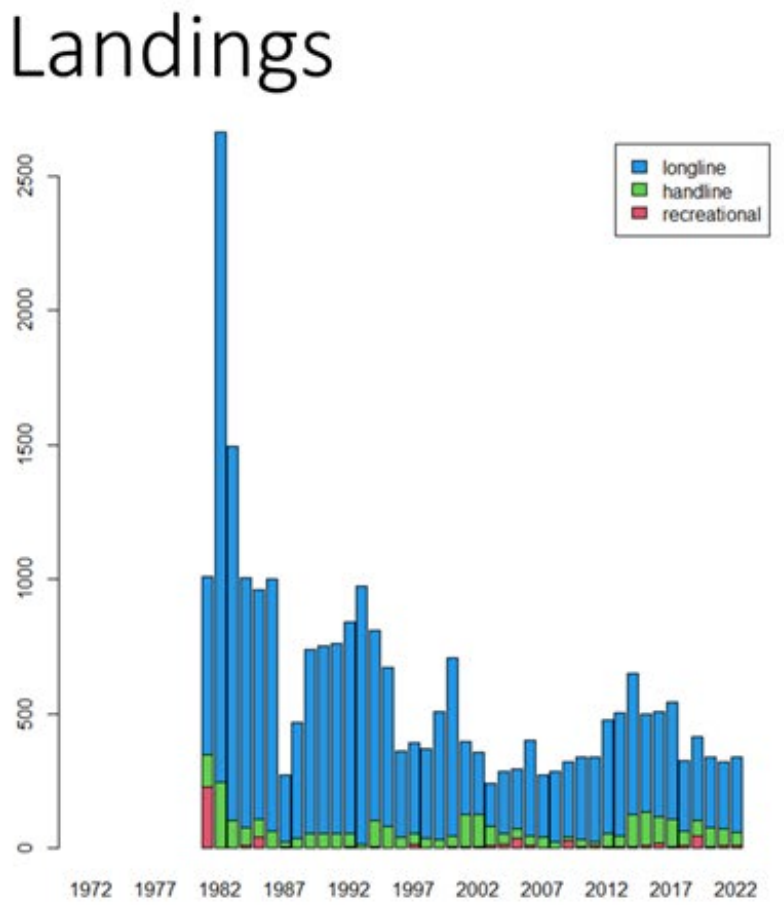
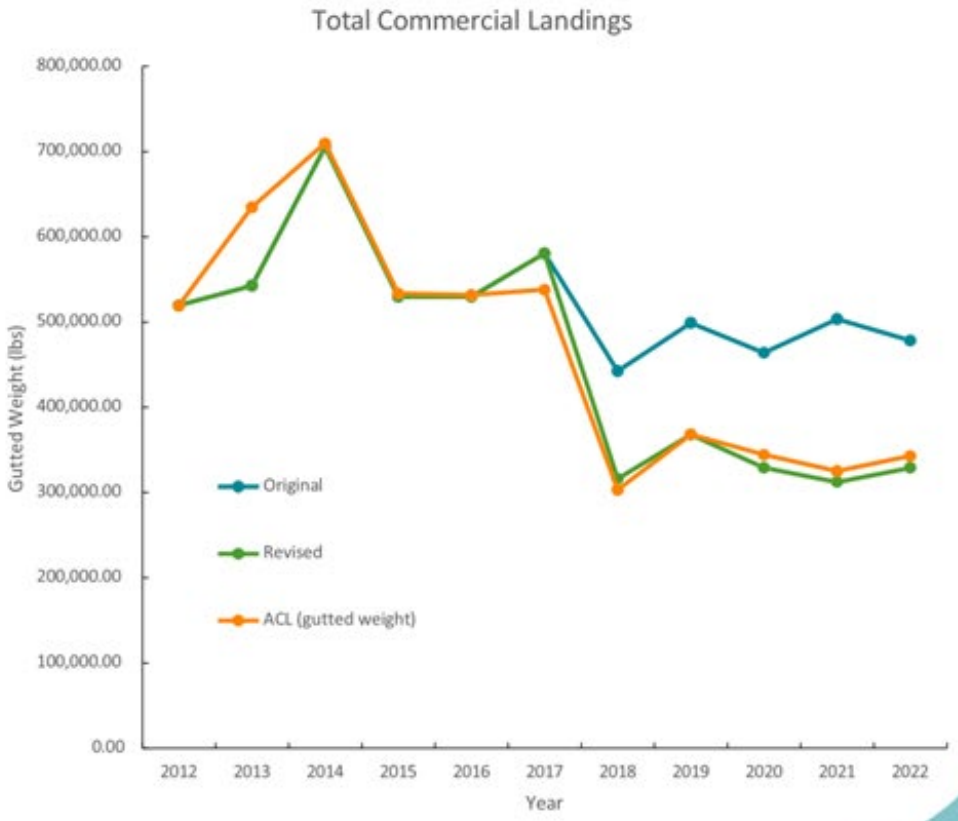
Data and Model Changes





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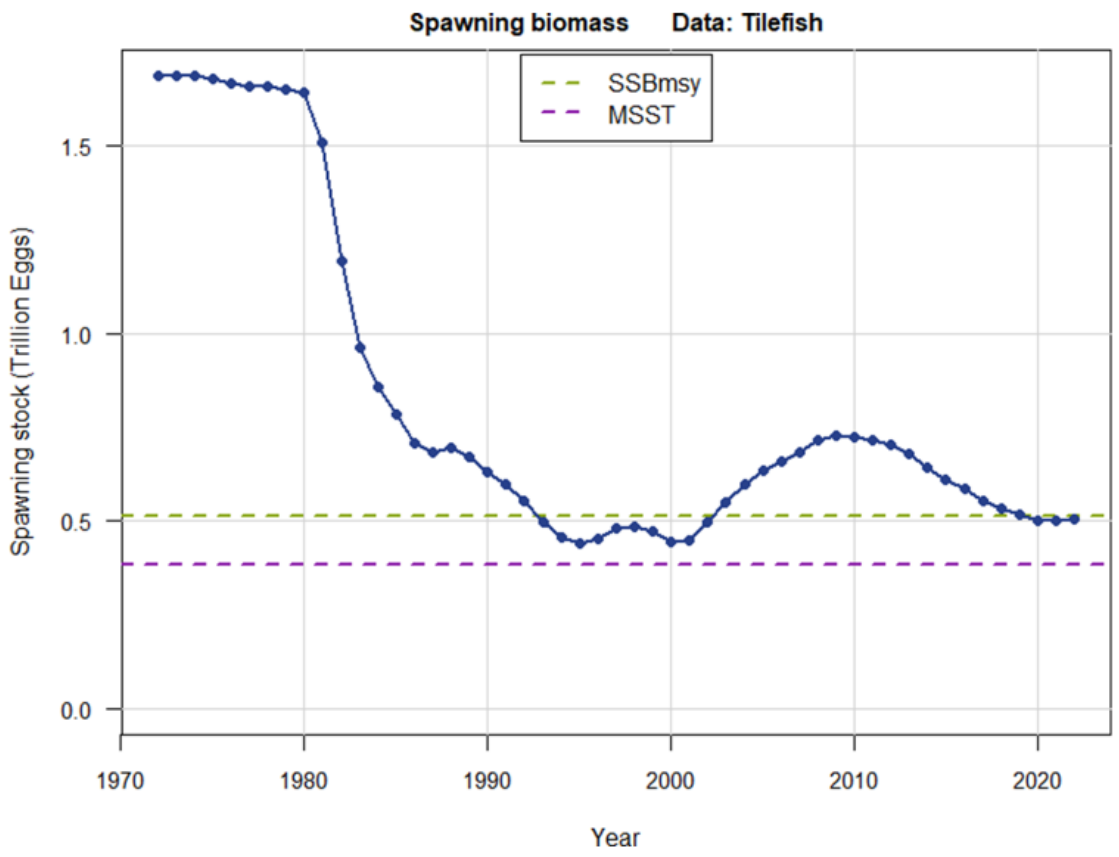
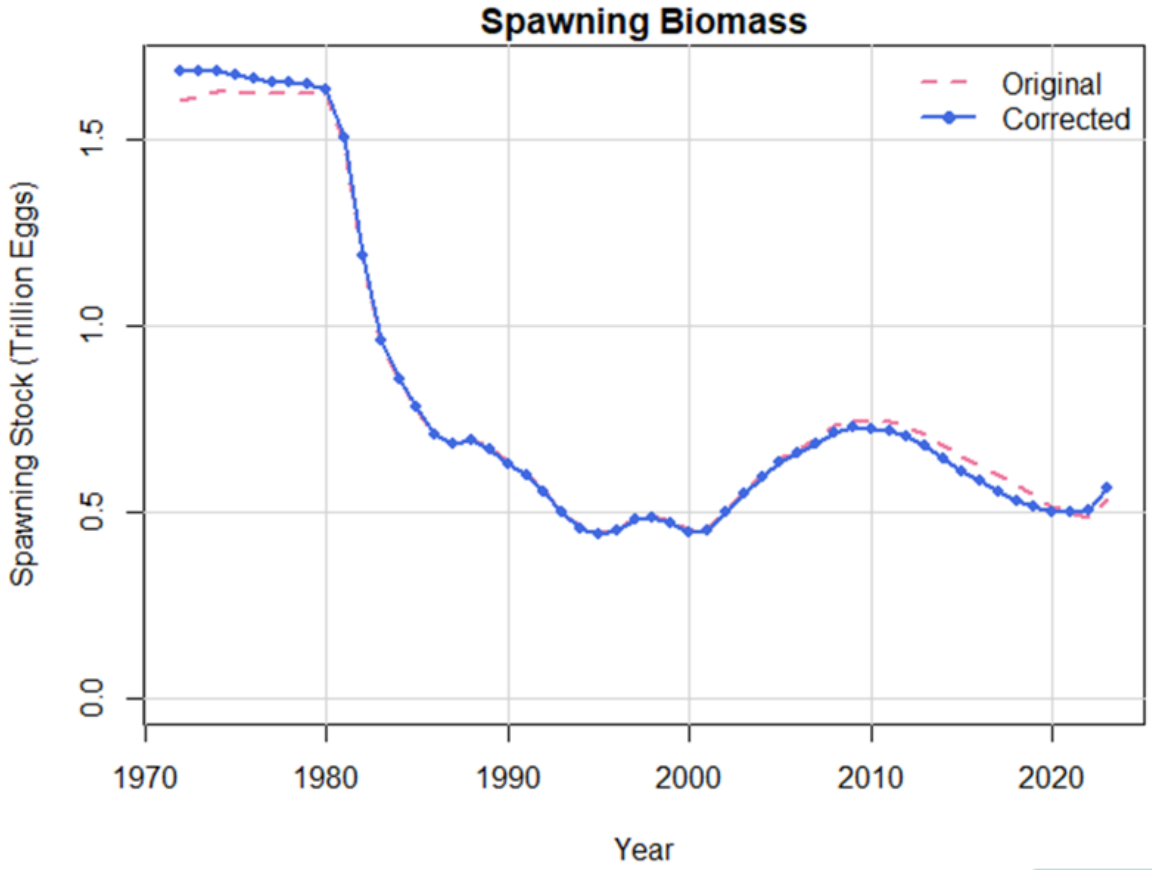
Assessment Results

BAM base model – Spawning stock biomass





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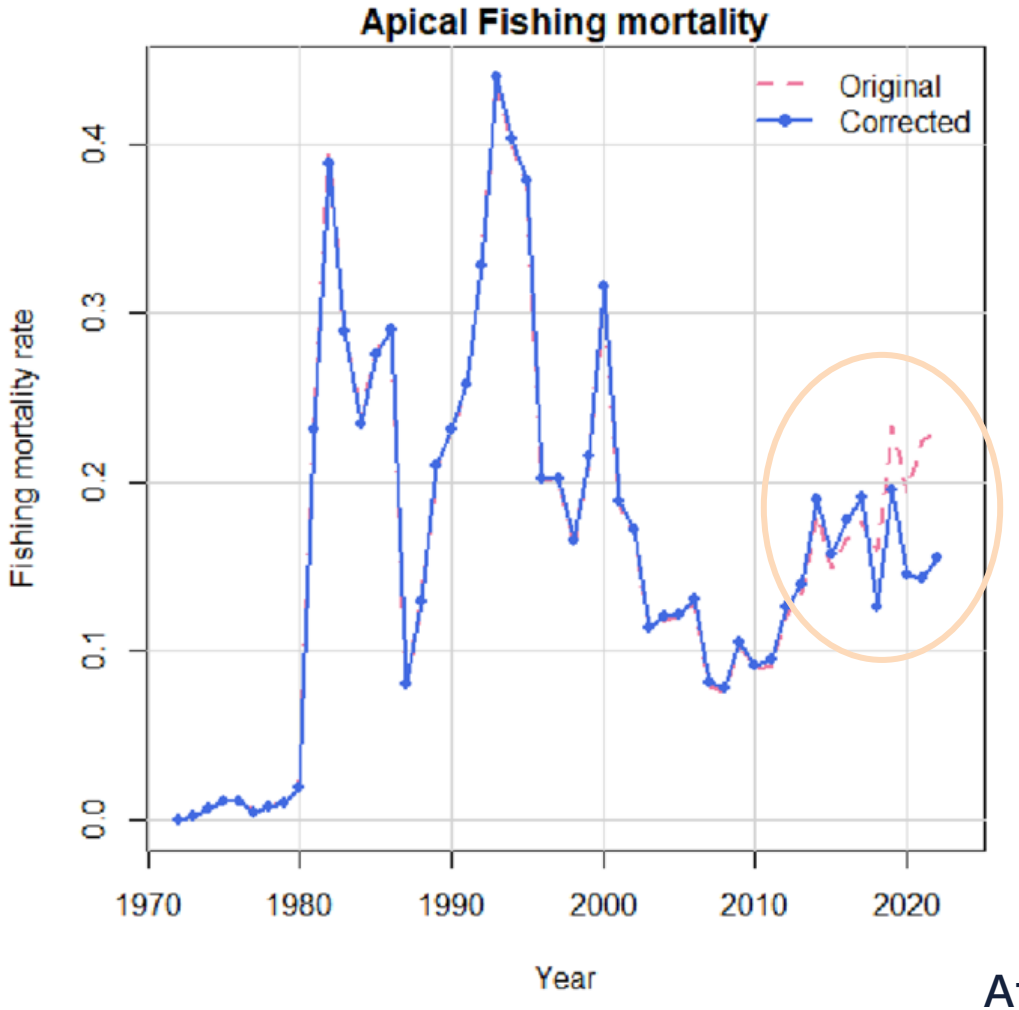
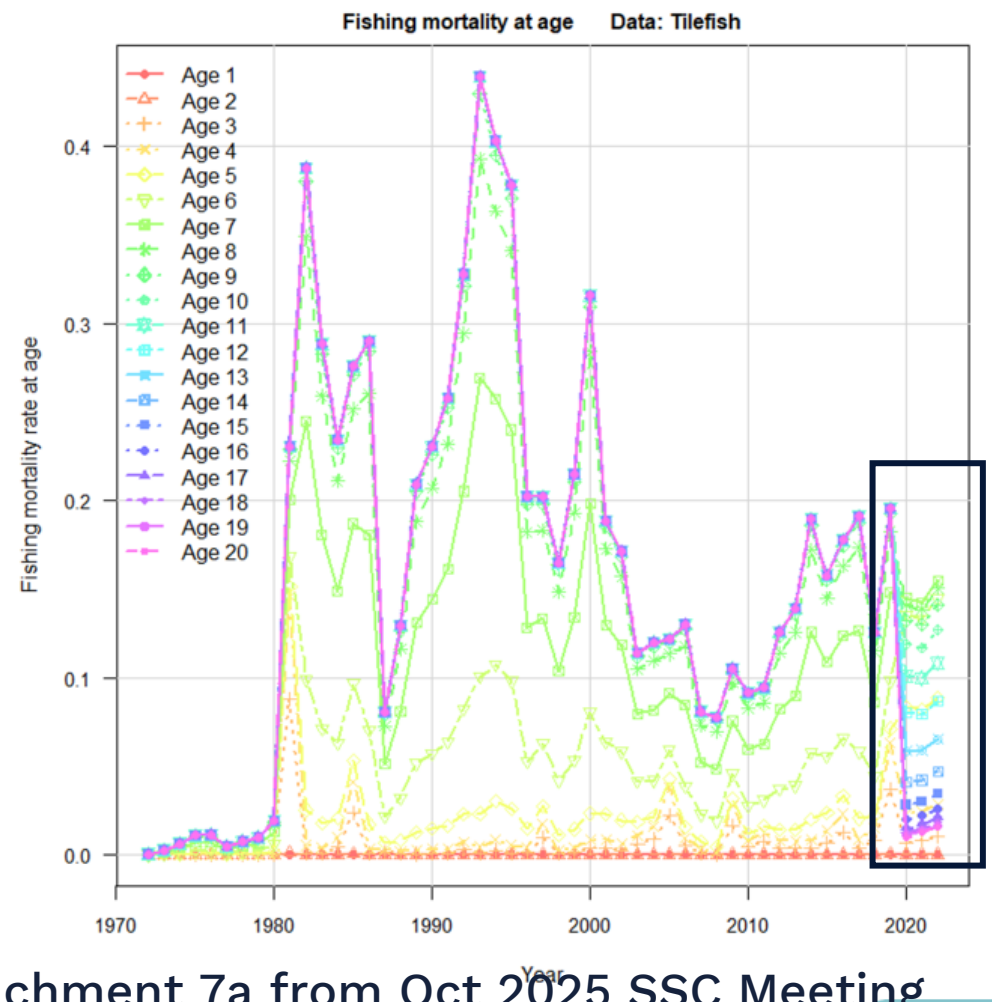
Assessment Results

BAM base model – Fishing mortality





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Assessment Results

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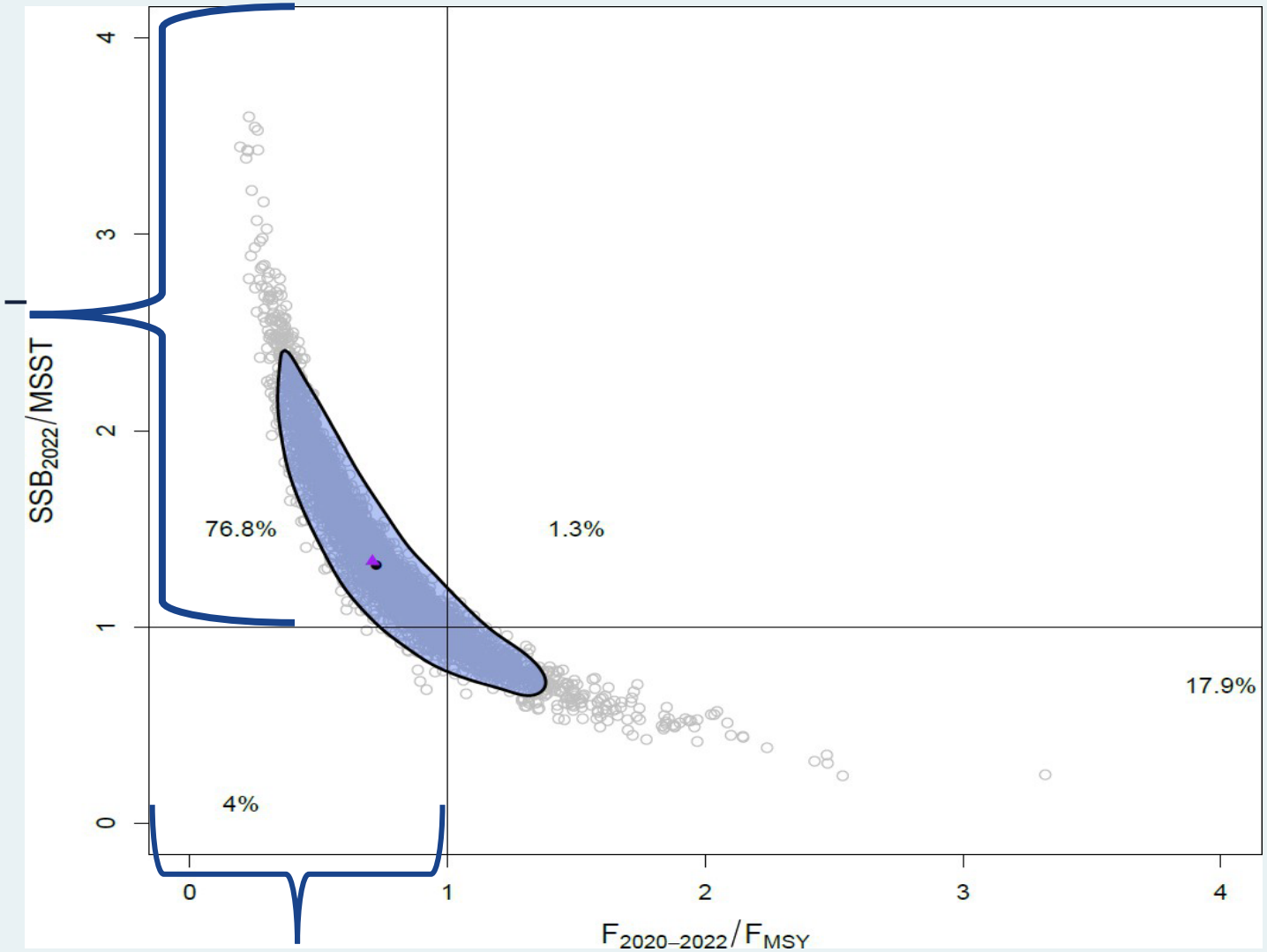
Not Overfished – 78.1% of runs



Not Overfishing – 80.8% of runs

Assessment Results

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Quantity	Units	Estimate	Median	SE
F_{MSY}	y^{-1}	0.20	0.21	0.06
$75\%F_{\text{MSY}}$	y^{-1}	0.15	0.16	0.05
B_{MSY}	1000 lb whole	6158.52	5856.66	997.99
SSB_{MSY}	Trillions of Eggs	515.42	485.07	1165.03
MSST	Trillions of Eggs	386.57	363.80	873.77
MSY	1000 lb gutted	523.31	521.82	66.82
$L_{75\%\text{MSY}}$	1000 lb gutted	502.45	501.52	67.16
L_{current}	1000 lb gutted	373.42	371.24	16.91
R_{MSY}	millions fish	0.05	0.04	0.01
$F_{2020-2022}/F_{\text{MSY}}$	—	0.72	0.71	0.31
$\text{SSB}_{2022}/\text{MSST}$	—	1.31	1.33	0.48
$\text{SSB}_{2022}/\text{SSB}_{\text{MSY}}$	—	0.98	1.00	0.36

Projections

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$F = F_{MSY}$ OFL

Table 19. Projection results with fishing mortality rate fixed at $F = F_{MSY}$ starting in 2026. R = number of age-1 recruits (million), F = fishing mortality rate (per year), S = spawning stock (trillion eggs), L = landings expressed in numbers (n, in 1000s) or gutted weight (w, in 1000 lb), pr.ssb = percent of stochastic projection replicates with SSB $\leq$ SSB_{MSY}, pr.msst = percent of stochastic projection replicates with SSB $\leq$ MSST. The extension b indicates expected values (deterministic) from the base run; the extension med indicates median values from the stochastic projections.

Year	R.b	R.med	F.b	F.med	S.b	S.med	L.b(n)	L.med(n)	L.b(w)	L.med(w)	pr.ssb	pr.msst
2023	0.459	0.377	0.147	0.152	0.515	0.487	53	52	368	363	47.8	21.3
2024	0.462	0.363	0.147	0.152	0.529	0.497	55	53	376	366	45.5	20.4
2025	0.466	0.363	0.147	0.152	0.543	0.508	58	55	389	374	43.0	19.3
2026	0.471	0.369	0.204	0.213	0.549	0.511	81	79	546	542	42.0	18.2
2027	0.473	0.371	0.204	0.213	0.544	0.504	80	78	540	530	42.8	17.5

Management changes

Projections

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$F = P^*_{30\%}$ ABC

Table 20. Projection results with fishing mortality rate fixed at F that provides P = 0.30 starting in 2026. R = number of age-1 recruits (million), F = fishing mortality rate (per year), S = spawning stock (trillion eggs), L = landings expressed in numbers (n, in 1000s) or gutted weight (w, in 1000 lb), pr.ssb = percent of stochastic projection replicates with SSB ≤ SSB_{MSY}, pr.msst = percent of stochastic projection replicates with SSB ≤ MSST. The extension b indicates expected values (deterministic) from the base run; the extension med indicates median values from the stochastic projections.*

Year	R.b	R.med	F.b	F.med	S.b	S.med	L.b(n)	L.med(n)	L.b(w)	L.med(w)	pr.ssb	pr.msst
2023	0.459	0.377	0.147	0.152	0.515	0.487	53	52	368	363	47.8	21.3
2024	0.462	0.363	0.147	0.152	0.529	0.497	55	53	376	366	45.5	20.4
2025	0.466	0.363	0.147	0.152	0.543	0.508	58	55	389	374	43.0	19.3
2026	0.471	0.369	0.169	0.177	0.554	0.515	68	67	459	455	41.1	17.7
2027	0.474	0.372	0.169	0.177	0.559	0.518	69	67	465	457	40.0	16.0

Management changes

Questions

Credit: NOAA