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FISHERIES**

Projections of OFL and ABC for Gulf of Mexico Greater Amberjack using the SEDAR 33 Update Assessment model and FES derived recreational catch statistics

Sustainable Fisheries Division, SEFSC

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GAJ Projections

- S33 update assessment model used as basis for projections
- Unchanged except for the private/charter and headboat landings and discards were replaced with the FES-based statistics produced for SEDAR 70.
- Projection settings
 - 3 year avg. relative F's (2013-2015)
 - Recruitment derived from SR curve
 - Selectivity, retention, biology taken from most recent time period
 - 2016 landings fixed (FES update for rec fleets)

GAJ Projections

- OFL – equilibrium projections of $F_{\text{SPR30\%}}$
- F_{REBUILD} – ABC projection achieves rebuilding in 2027
- F_{SPR40} & $75\%F_{\text{SPR30}}$ – S33 update ABC projections

Year	FES				CHTS from S33 Update		
	OFL	F_{REBUILD}	F_{SPR40}	$75\%F_{\text{SPR30}}$	OFL	F_{SPR40}	$75\%F_{\text{SPR30}}$
2017	2.00	1.70	1.49	1.54	1.24	0.93	0.94
2018	2.52	2.20	1.96	2.02	1.50	1.17	1.18
2019	3.03	2.70	2.43	2.50	1.84	1.48	1.49
2020	3.48	3.14	2.86	2.93	2.17	1.78	1.79

GAJ Projections

- In case there was confusion about Table 28 from S70 SAR (below), the yield values in the last column are the equilibrium yields achieved at the end of a long term (100 year) projection. They are not OFL or ABC equivalents.

Model	Terminal year (TY)	SSB (TY)	Recruits (TY)	F_{SPR30}	SSB_0	SSB_{SPR30}	Equilibrium Yield (mp ww)
S33 Update	2015	1,640.28	1,341	0.198	18,779	5,685	3.706
S33 Update with FES	2015	2,169.95	2,507	0.199	28,986	8,798	5.968
S70 Operational	2018	2,432.83	1,813	0.175	23,733	7,119	3.969