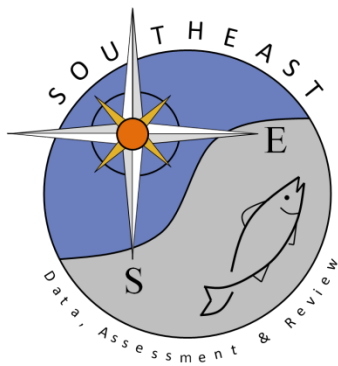


SEDAR 87 Public Comments Received During the Review Stage of the Process

SEDAR87-RW-07

June 2025



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Assessment

SEDAR 87 Gulf of Mexico White, Pink and Brown Shrimp

SEDAR 87 will be a research track that addresses the stock assessments for Gulf of Mexico White, Pink, and Brown Shrimp. For more information, please contact the SEDAR Coordinator for this project, Julie A. Neer: julie.neer@safmc.net

Submit Date	Submitted By	Comment
6/26/25	First Name: Leann Last Name: Bosarge Email: leannbosarge@hotmail.com	<p>For white shrimp with EDM, have you tested how sensitive the model is to the Priors for K (carrying capacity)? Specifically, have you increased the lower bound of the prior for K to see what happens? Currently the upper and lower bounds for the prior for K is specified as (max catch, 10 times max catch). It seems counter intuitive to me that the fleet could land the entire carrying capacity of the stock and still have a stock the next year. Could you increase the lower bound of the prior for K and rerun the model? I leave it up to you all, but I would think a lower bound for the K prior of maybe 2 times the max catch??? Maybe try a few different values and see what happens, but all them would need to have a lower bound of greater than the max catch. If the model is gravitating towards a carrying capacity that is close to the max catch, it would explain why the biomass is trending down since the max catch was landed in 2006. The average yearly landings from 2006-2022 are 63,800,000 pounds of tails. If the model believes the carrying capacity to be close to the max landings of 85,100,000 (as the lower bound of the prior is set to this), then the model would reason that the fleet has been harvesting an average of 75% of the carrying capacity of the stock annually for the last 17 years. Anything is possible, but I'm not sure how probable.</p> <p>Separate thought. On white shrimp for JABBA, you went back and adjusted the parameters/priors/value used for m (I think sometimes you all referred to it as m and sometimes you would mention B_{msy}/K) to a lower level of 0.15 and 0.25 (to reflect a biomass at MSY that is approximately .25 of the carrying capacity of the stock...i.e., $m = 0.25$). Did you make the same adjustments to m (or B_{msy}/K) in EDM and rerun the white shrimp model to see what it looked like. And forgive my ignorance if I'm not using the correct terms for the logistical process of adjusting m. Maybe you have to adjust a prior or run some other analysis to see how sensitive the model is to changes in m. What ever it is that you have to do in EDM to see what the results look like with a lower m (hopefully that is the correct variable symbol), has that been done and then presented to the group? If you don't understand my question, my cell number is 228.623.0213.</p>