



SEDAR

SouthEast Data, Assessment, and Review

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SEDAR 61 Gulf of Mexico Red Grouper

Assessment Terms of Reference

November 2017

1. Update the approved SEDAR 42 Gulf of Mexico red grouper base model, with data through 2016. Provide a model consistent with the previous assessment configuration to incorporate and evaluate any changes allowed for during this assessment.
2. Evaluate and document the following specific changes in input data or deviations from the benchmark model previous assessment model.
 - Review existing methods for deriving discard numbers and discard rates and improve methods as appropriate
 - Explore the effect of the IFQ program on commercial CPUE, and the sensitivity of model results to plausible alternative commercial CPUE series
 - Review analytical methods for the combined video index from the FWRI, Pascagoula, and Panama City video surveys
 - Explore the potential effects of red tide with consideration of past red tide events and those of 2014 and 2015
 - Reconsider the start year of the assessment model
 - Evaluate size-based selectivity
 - Investigate the use of new fishery-independent hook-gear survey data collected by FWC
3. Document any revisions or corrections made to the model and input datasets, and provide updated input data tables. Provide commercial and recreational landings and discards in numbers and weight (pounds).
4. Update model parameter estimates and their variances, model uncertainties, and estimates of stock status and management benchmarks. In addition to the base model, conduct sensitivity analyses to address uncertainty in data inputs and model configuration and consider runs that represent plausible, alternate states of nature.
5. Project future stock conditions regardless of the status of the stock. Develop rebuilding schedules, if warranted. Provide the estimated generation time for each unit stock. Stock projections shall be developed in accordance with the following:

Scenarios to Evaluate (preliminary, to be modified as appropriate)

1. Landings fixed at 2016 target.
2. $F_{OY} = 75\% F_{MSY}$ (project when OY will be achieved)
3. $F_{REBUILD}$ (if necessary)



4. $F=0$ (if necessary)
5. Equilibrium yield at F_{MSY}
6. Develop a stock assessment report to address these TORs and fully document the input data, methods, and results.