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SEDAR 52 Gulf of Mexico Red Snapper

Assessment Terms of Reference

April 2017

1. Update the approved SEDAR 31 Gulf of Mexico red snapper model, as modified and approved by the SSC during the 2014 update assessment, 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.

   - Investigate the use of Louisiana hydroacoustics/stereo camera length frequency
   - Use best available recreational catch and effort estimates (e.g. APAIS, FES)
   - Explore the effect of the IFQ program on commercial CPUE, and the sensitivity of model results to plausible alternative commercial CPUE series
   - Investigate the use of FL, MS and AL survey data collected through the NFWF Gulf Environmental Benefit Fund

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 analysis 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. Use provisional 2017 catch estimates if available. 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. Project F_{MSY} or proxy ($F_{26\%SPR}$)
   2. Project F_{OY} (75% of $F_{26\%SPR}$)
   3. Project $F_{Rebuild}$ (to SPR 26% in 2032)
   4. Project F = 0

   For all scenarios (except F=0), Use current sector allocations (51% COM: 49% REC) and retain shrimp bycatch at recent levels of exploitation (as in SEDAR31 and 2014 update).

6. Develop a stock assessment report to address these TORs and fully document the input data, methods, and results.

* This assessment will follow a Standard Track approach