



# SEDAR

## *SouthEast Data, Assessment, and Review*

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### **SEDAR South Atlantic Red Grouper Assessment Terms of Reference**

1. Update the approved SEDAR 19 South Atlantic red grouper base model with data through 2015.
2. Document any changes or corrections made to the model and input datasets and provide updated input data tables. Provide commercial and recreational landings and discards in pounds and numbers.
3. Update model parameter estimates and their variances, model uncertainties, and estimates of stock status and management benchmarks.
4. Provide stock projections, including a pdf for biological reference point estimates and yield separated for landings and discards reported in pounds and numbers. Projection results are required through 2020. Projection criteria:
  - To determine OFL: apply an annual probability of overfishing = 50%.
  - To evaluate the existing rebuilding plan: base on fixed exploitation at 75% Fmsy. In addition to reporting yield and stock status as described above, for this projection also report the probability that  $SSB > SSB_{msy}$ .
    - Potential Alternative Rebuilding: If results of this projection indicate that the stock is not rebuilt by 2020 (as evidenced by  $SSB > SSB_{msy}$  at 50% probability), provide an additional projection based on a fixed exploitation rate (Frebuild) where Frebuild is defined as the maximum exploitation rate that provides 0.70 probability of rebuilding ( $SSB > SSB_{msy}$ ) by 2020.
5. Develop a stock assessment update report to address these TORS and fully document the input data and results of the stock assessment update.

NOTE: The intent of update assessments is to expedite appraisals of stock status by using only the methods and data sets used in the base model and approved during the preceding SEDAR assessment of that stock. Accordingly, it is not the intent of this update to resolve any outstanding issues identified in the initial SEDAR 19 assessment.

\*This assessment is following an update assessment approach.

