



SEDAR

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SEDAR South Atlantic Snowy Grouper Update Assessment Terms of Reference

1. Update the approved SEDAR 36 South Atlantic Snowy Grouper base model with data through 2018.
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. Identify sources of scientific uncertainty that are not already included in the model uncertainties. Explore sensitivities that bracket the corresponding SPR values above and below the 26% estimated from the SEDAR 36 assessment.
4. Provide stock projections, including a probability density function (PDF) for biological reference point estimates and yield, separated for landings and discards, reported in pounds and numbers. Projection outputs shall include relevant population parameters including recruitment, spawning stock biomass, population abundance, exploitation rates and the probability that biomass and exploitation exceed reference values for MFMT and MSST. Projection criteria:
 - To determine OFL: apply an annual probability of overfishing = 50%.
 - To evaluate the existing rebuilding plan: based on fixed exploitation at 75% F_{MSY} . 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 2039 (as evidenced by $SSB > SSB_{MSY}$ at 50% probability), provide an additional projection based on a fixed exploitation rate ($F_{Rebuild}$) where $F_{Rebuild}$ is defined as the maximum exploitation rate that provides 0.50 probability of rebuilding ($SSB > SSB_{MSY}$) by 2039.
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 the assessment update approach 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 previous SEDAR 36 assessment.

