



SEDAR

SouthEast Data, Assessment, and Review

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**SEDAR #
Spanish Mackerel
Operational Assessment
Terms of Reference**

1. Update the approved SEDAR 28 Spanish Mackerel model with data through 2020. Provide a model consistent with the previous assessment configuration and revised models as necessary to incorporate and evaluate any changes allowed for this update. Apply the current BAM configuration incorporating approved improvements developed since SEDAR 28
2. Evaluate and document the following specific changes in input data or deviations from the benchmark model.
 - Update growth and reproductive models if additional samples are available for fish below 275 mm
 - If available, include any improved information on steepness for similar pelagic species.
 - Evaluate data uncertainty with respect to the recreational landings
 - Calculate different F metrics (other than apical F) (to address shifts in the age of apical F towards the end of the assessment time series).
3. Document any changes or corrections made to model and input datasets and provide updated input data tables. Provide commercial and recreational landings and discards in pounds and numbers.
4. Update model parameter estimates and their variances, model uncertainties, estimates of stock status and management benchmarks, and provide the probability of overfishing occurring at specified future harvest and exploitation levels.
5. Convene a panel of several SSC representatives to meet via webinar, as needed to review model development and provide guidance.
6. Develop a stock assessment report to address these TORs and fully document the input data, methods, and results.

NOTE: This assessment will follow an Operational Assessment Approach similar to an update assessment.

