



SEDAR

SouthEast Data, Assessment, and Review

4055 Faber Place Drive #201
North Charleston SC 29405

Phone (843) 571-4366
Fax (843) 769-4520
www.sedarweb.org

SEDAR 80: Caribbean Queen Triggerfish Operational Assessment Terms of Reference December 2020

1. Develop a stock assessment model for Puerto Rico, St. Thomas/St. John and St. Croix Queen Triggerfish stocks using a data-limited approach similar to those approved for SEDAR 46 (Queen Triggerfish) or SEDAR 57 (Spiny Lobster).
2. Review data inputs and provide tables and figures, including:
 - Commercial and recreational catches and/or discards.
 - Length/age composition data
 - Life history information
3. To the extent possible, the following should be considered for potential inclusion in the model:
 - Consider potential for improvement in the parameterization of life history characteristics, including growth, maturity, and fecundity.
 - Consider potential for improvements in the parameterization of gear selectivity and/or retention.
 - Consider potential for development/improvement of one or more indices of abundance.
 - Explore the development of length composition data obtained from the NCRMP Visual Survey.
4. To the extent possible given data-limitations, provide management benchmarks and status determination criteria, including:
 - Maximum Fishing Mortality Threshold (MFMT) = F_{MSY} or proxy
 - MSY proxy = yield at MFMT
 - Minimum Stock Size Threshold (MSST) = SSB_{MSY} or proxy
 - If alternative status determination criteria are recommended, provide a description of their use and a justification.
5. To the extent possible, develop projections to support estimates of maximum sustainable yield (MSY), the overfishing limit (OFL) and acceptable biological catch (ABC) as described below. If projections are not possible, and alternative management procedures are recommended, provide a description of their use and a justification.
 - Unless otherwise recommended, use the geometric mean of the three previous years' fishing mortality to determine $F_{Current}$.
 - Project F_{MSY} or proxy
 - If the stock is overfished:
 - Project F_0
 - Project $F_{Rebuild}$



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