Red Grouper Standard Assessment
SEDAR In-person Workshop
Tuesday Overview

Life history

Topic	Summary Notes	Decision
Fecundity	- S42 used batch fecundity at age * proportion female at age * proportion mature at age - Updated batch fecundity at age is sensitive to the 10 new samples - Gonad weight variable	**Move to batch fecundity as function of length** Convert batch fecundity at length to age using growth curve
Proportion Female	- Data from NOAA and FWRI have not been combined yet - Do we need to see this?	Maintain continuity unless we get new data
SSB Metric	- Red Grouper male to female ratio ~30%	Discuss again with input from FWRI
Hermaphroditism	- Could be parameterized directly	Research recommendation*

Life history and Red Tide

Topic	Summary Notes	Decision
Age and Growth	- Updated with new samples, particularly for smaller Red Grouper	**Use updated curve**
Length Weight	- Sufficiently large sample size used previously	**Maintain continuity**
Natural Mortality	- Continuity uses fixed mortality curve (Hoenig and Lorenzen)	Discuss again tomorrow
Red Tide	- Red tide distribution and biomass distribution overlap can be used to explore age specific mortality - Do we want to change how we parameterize the red tide? - Can we look into higher resolution validation of sat data (8 days)?	**Sensitivity to explore for any cumulative effects on age specific effects?** Research Recommendation*

Landings and Discards

Topic	Summary Notes	Decision
Landings	- Matching updates for commercial and headboat - MRIP to be reviewed via webinar	**Use updated time series for commercial and headboat** Discuss MRIP via webinar
Discards	- Revised consistent unit of effort between observer and logbook commercial data - MRIP and headboat to be reviewed via webinar	**Use revised commercial methodology** Discuss MRIP and headboat via webinar
Discard Mortality	- Update is nearly identical	**Use most up-to-date estimate**

Commercial Age Data and Other

Topic	Summary Notes	Decision
Updated Age Data	- Reviewed minor differences between S42 and S61 - Able to recreate composition data	**Use updated time series**
Stratification	- Southern composition tends to be older and larger - Possibly stratify model differently north/south	Research Recommendation*
Sample Size	- Continuity practice is to cap at 100 - ID a new rule of thumb - Getting sampling events from raw data would take time	**Look into changing capping practice (square root?)**
SS3.30	- Could allow better reweighting	Revisit discussion

Fishery-Dependent Indices and Length Data

Topic	Summary Notes	Decision
Commercial Indices	- Reevaluate effort variable - Develop post-IFQ indices	Research recommendation*
Recreational Indices	- Continuity suggest that CPUE is at lowest recorded level. Does that look unusual? - Investigate if assumptions appropriate across full time series (ex. targeting, trip length, effects of various regulations, red snapper) - MRIP to be reviewed via webinar	Research recommendation* Discuss MRIP via webinar
Commercial Discard Lengths	- Some sample size changes but no meaningful change in comp data	**Use updated lengths**
Rec Discard Lengths	- Slight difference in sample size, but similar composition - How to combine rec length data?	**Use updated lengths** Research recommendation*

Fishery-Independent Indices and Length Data

Topic	Summary Notes	Decision
Bottom Longline Index	- Continuity model trend recreated	**Use updated index**
Video Index	- Originally combined naively, needs to incorporate habitat - Programs vary in time and space	**Use updated index and methodology**
Ground Fish Index	- Summer	**Use updated index**
Bottom Longline Length Comp	- Nearly identical composition	**Use updated data**
Video Length Comp	- Plot means and SD of length comp by lab	Consider reweighting data by habitat
Ground Fish Length Comp	- Some years included fall samples	**Use updated data and only use summer surveys**