

SRB REPORT

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GEOSTATISTICAL MODEL OF SETLINE SURVEY

- Strongly supportive
- Eliminates several ad-hoc procedures
- Captures the space-time patterns commonly known for fish distributions

GEOSTATISTICAL MODEL OF SETLINE SURVEY

- SRB Recommendations
 - Coordinate with other longline surveys (specifically those used for sablefish) to help with some “edge effects” in deeper areas
 - Find time to publish this method and approach
 - Important contribution to both the statistical and the fisheries literature

GEOSTATISTICAL MODEL OF SETLINE SURVEY

- Other issues
 - Survey timing adjustment
 - Hook timing adjustment
 - Survey expansion

STOCK ASSESSMENT OVERVIEW

- Reviewed sources of mortality
- Spatially explicit model
 - SRB commented that strategic application (unlikely for annual advice)
 - Recommended considering NMFS trawl survey data in the spatial model
 - May help with juveniles and pre-recruits in the region
 - Also in developing alternative hypotheses on movement dynamics

MSE WORK

- Bycatch issues
 - Covered the NPFMC workgroup results
 - SRB noted that time-varying PSCs could affect the 2nd line of the decision table used to inform annual harvest decisions.
 - Recommended examining the SPR rates due to bycatch in a sensitivity context
 - E.g., what would a blue-line SPR be under zero by-catch, current level, and double the anticipated bycatch
- Other
 - Phase out use of “EBIO”
 - Estimates may be misleading (depend on selectivity assumptions)
 - Alternatives can be developed (e.g., the implied SPR rate from recent years)
 - Alternative fishing intensity measures be explored

BIOLOGICAL RESEARCH PLAN

- SRB encouraged by collaboration and developments presented.
- Discard mortality rates in particular useful endeavor
- Consider simulation studies to evaluate the effectiveness of different types of tagging programs and data requirements needed to address mortality estimates
- Applied research, when done properly... “will set squarely in Pasteur’s Quadrant (Stokes 1997) in which an important applied problem motivates a search for basic understanding.”