

CBSAC update

Sustainable Fisheries GIT

Dec 19, 2017

CBSAC update

Current Projects

Stock Assessment efforts

Looking ahead

Current Projects

› How to present uncertainty around estimates of exploitation

– Quantifiable sources

- › Sampling error

– Unquantifiable, unknown sources

- › Bias in harvest reports
- › Discard mortality

– Modeling error

- › Liang et al (UMCEES) developed a Bayesian approach to estimate sampling and non-sampling error around estimates of abundance.

Current Projects

- › ***Review of Ecological and Economic Effects of Derelict Fishing Gear in Chesapeake Bay***
 - **Funded by NOAA Marine Debris Program**
 - **Comprehensive study estimating the number of derelict crab pots and marine life captured**
 - **Flaws in the authors' approach**
 - › Choice of spatial model
 - › Over-estimated input values (No. of pots in use, loss rate,...)
 - › Likely biased assumptions (additive catch, catch rates,...)
 - › Potential COI - authors' patent for biodegradeable panels

Current Projects

- › List of recent/ongoing blue crab research
 - Help managers, concerned stakeholders stay up to date with current research





Stock Assessment update

More than an update, less than a benchmark

Use same Catch Multiple Survey model developed by UMCEES

Address questions of reviewers

Address ToRs being developed last year

Resolve issues with catchability / relative abundance of juveniles and adults.

Review life history parameters (e.g. - variable M – by age, sex)

Incorporate commercial CPUE as tuning index (Co-op dataset: 14 years // CPUE by gear, region, size, sex)

Looking ahead...

- Winter meeting Jan 5, 2018
- For Chesapeake Bay Agreement, provide input on updated work plan for blue crab management strategies.
- Timing of next benchmark assessment