Attachment 6: SSC April 2020 Meeting

DORR DORR HUNDERHORD

NOAA

FISHERIES

Science Center

Southeast Fisheries

SEFSC MRIP modifications

TOR 1B Scientific and Statistical Committee MRIP Data Workshop

Vivian Matter

August 20, 2019

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For Hire Survey adjustment

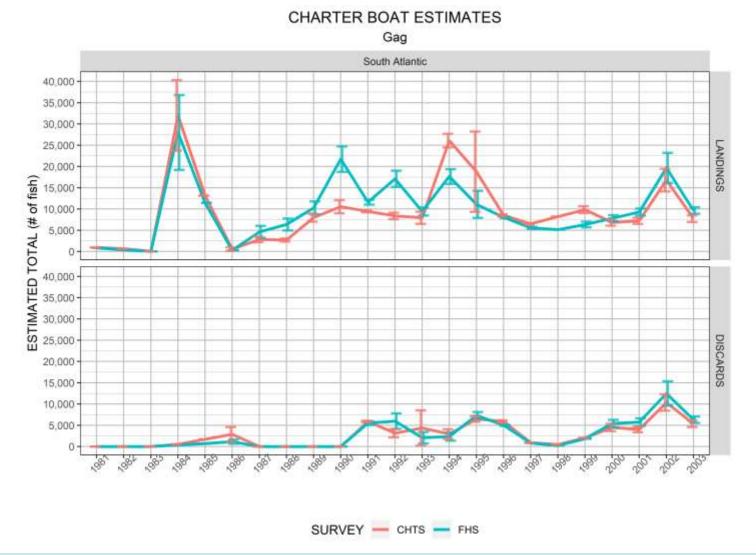


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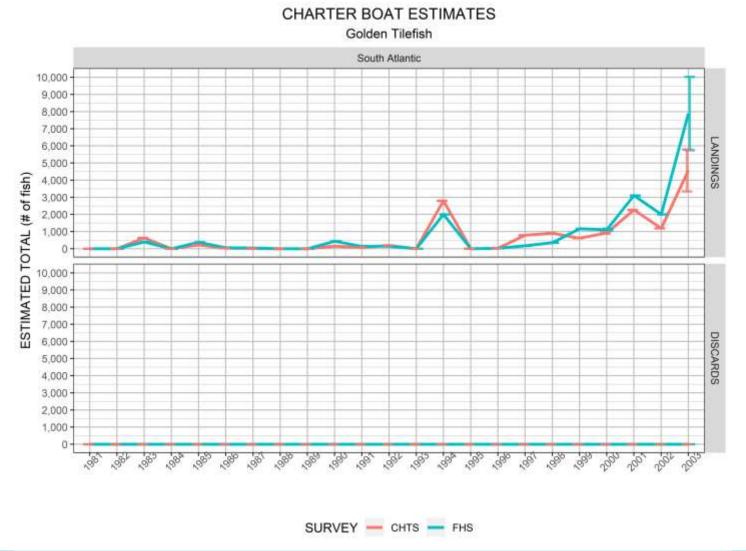
For Hire Survey change

- Charter and headboat fishing modes
- Implemented in the Gulf of Mexico in 2000 and Atlantic in 2004
- Change from Coastal Household Telephone Survey (CHTS) to For-Hire Survey (FHS) of charter captains
 - FHS provides more efficient, precise, and credible charter angler effort estimates than the CHTS
- SEFSC has adjusted for this change in methodology since 2008
- New analysis conducted after NOAA Fisheries released new recreational catch estimates
 - APAIS impacts for hire estimates (off frame correction)
 - Generalized linear models with a Gamma response structure and log-link

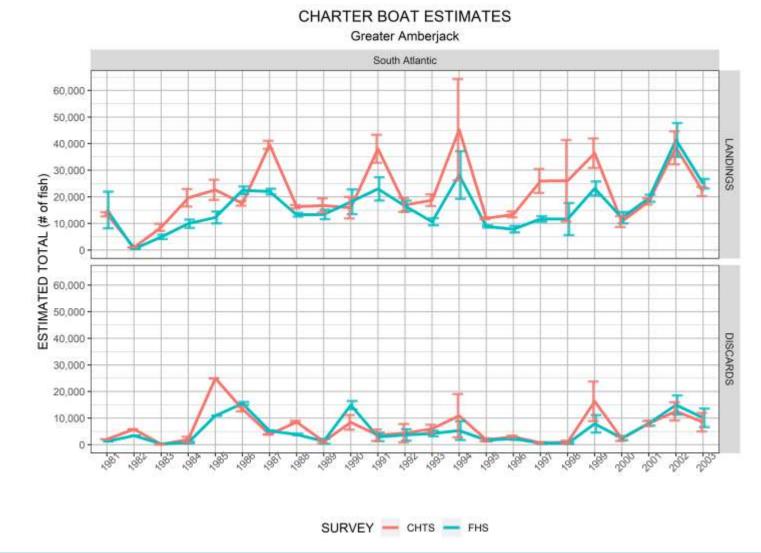




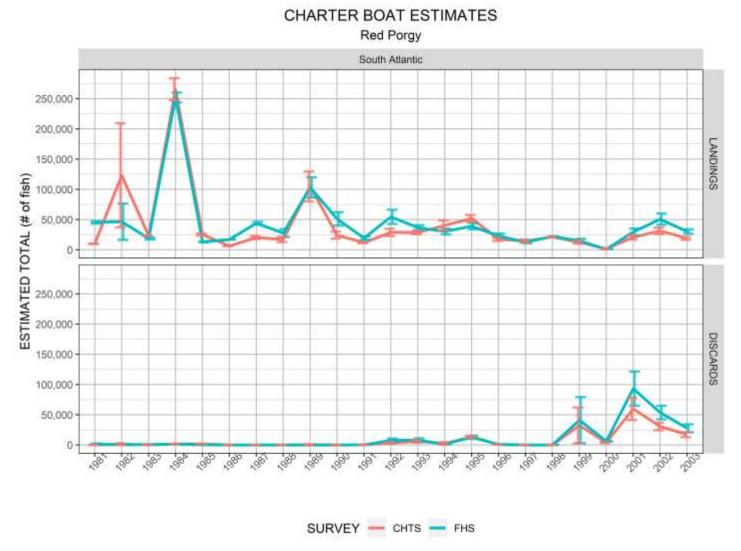




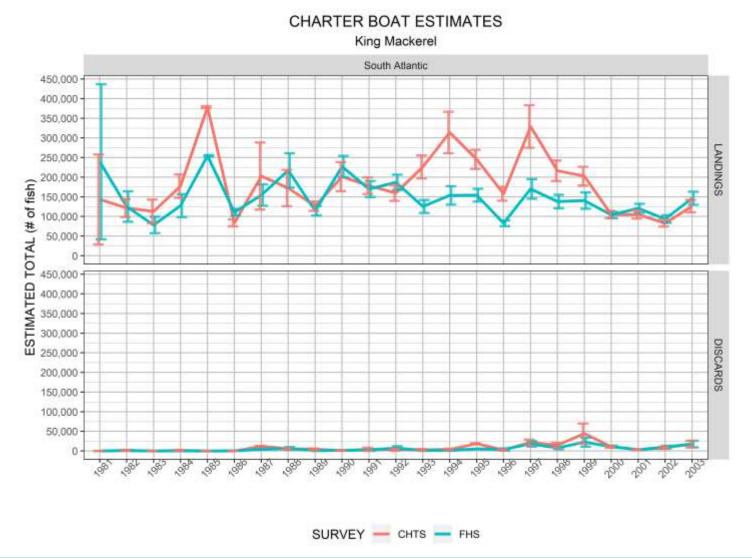




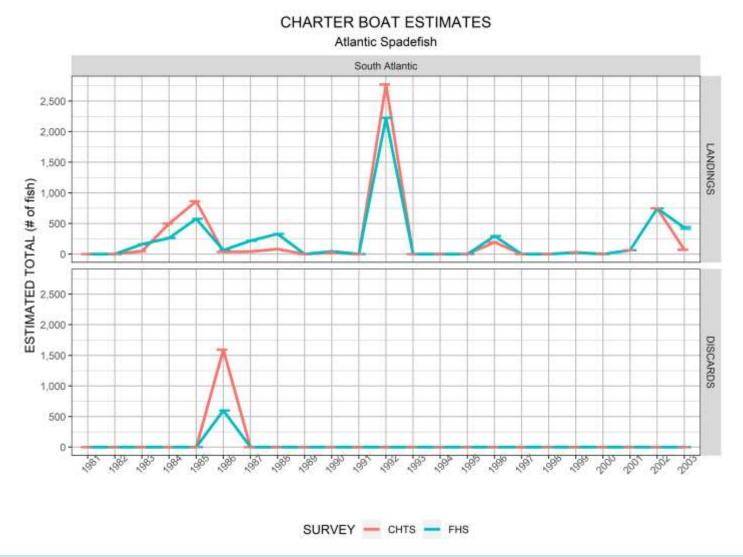














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Weight Estimation procedure

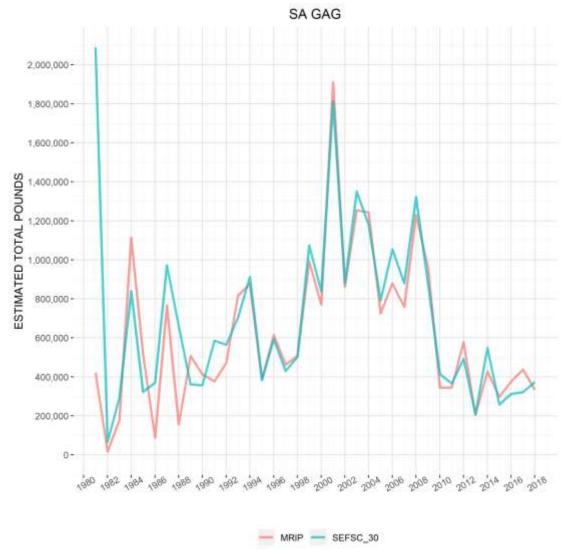


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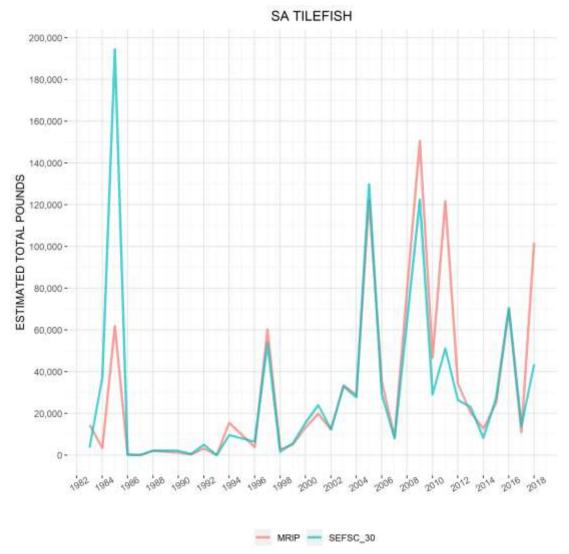
SEFSC weight estimation

- Ensures consistent weight estimation methodology across all years
- Current process uses new MRIP size datasets, including weights imputed by the survey program
 - calculate average weights by strata
 - strata hierarchy: species, region, year, state, mode, wave, and area fished.
 - 30 minimum sample size
- Comparison of MRIP weight estimates versus those calculated at SEFSC
 - MRIP charter mode weight estimates are adjusted to FHS

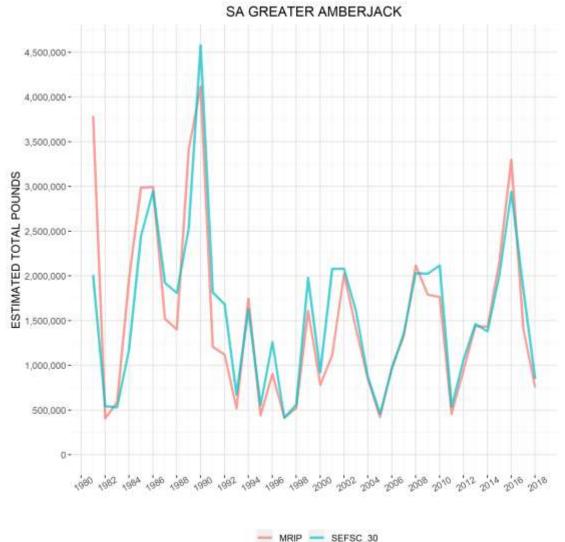




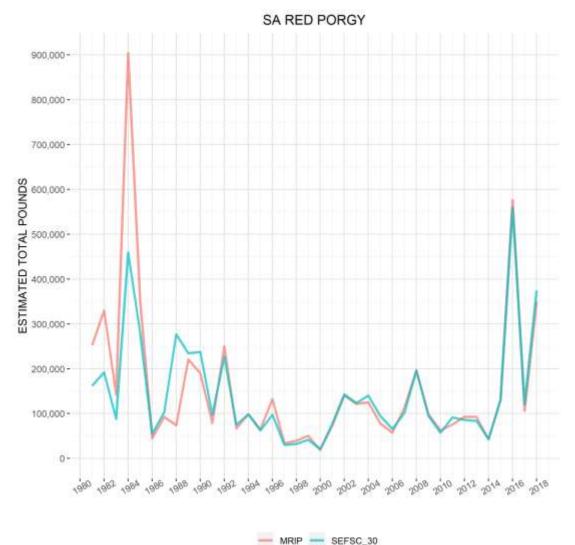




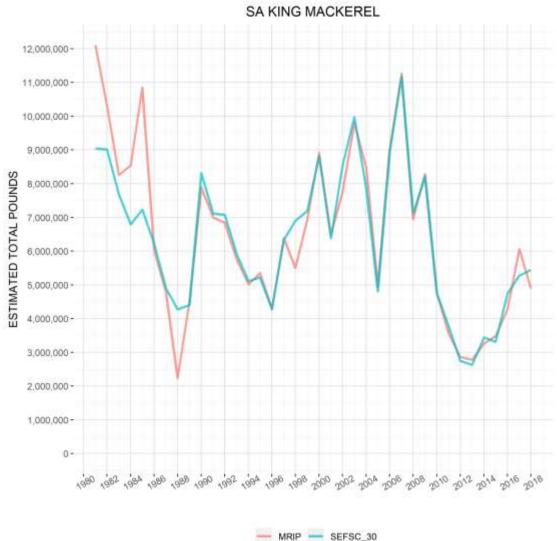




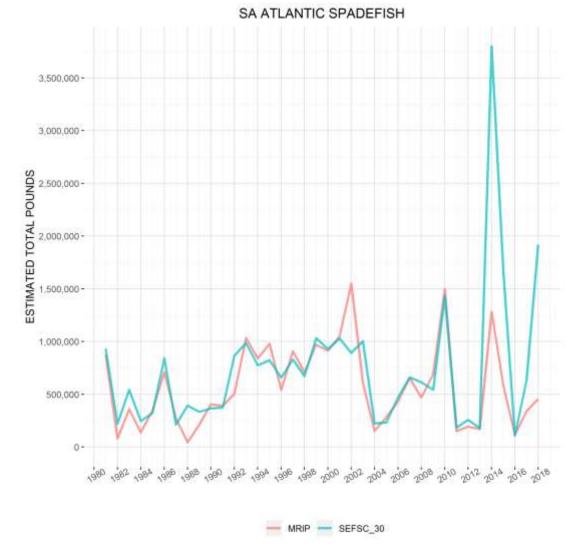






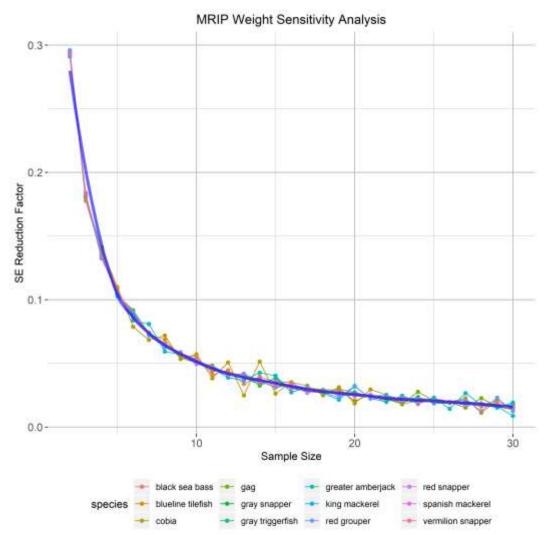




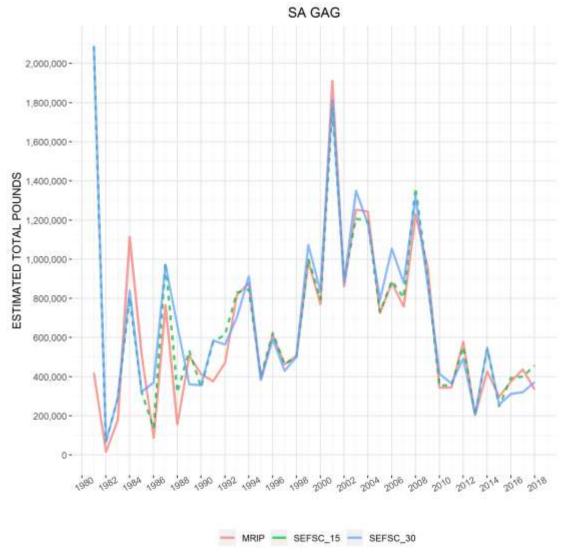




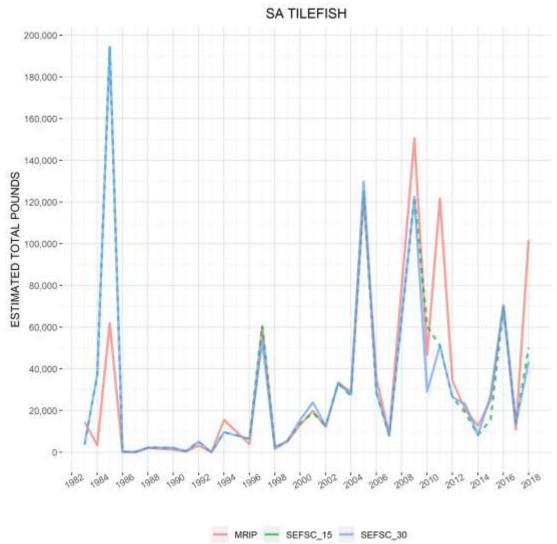
Evaluation of minimum sample size



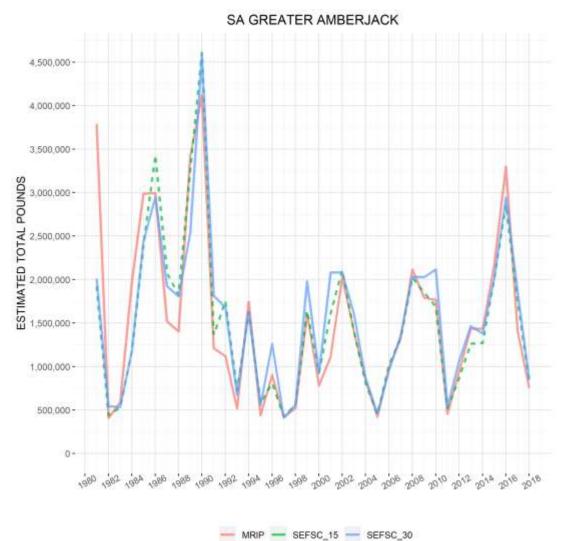




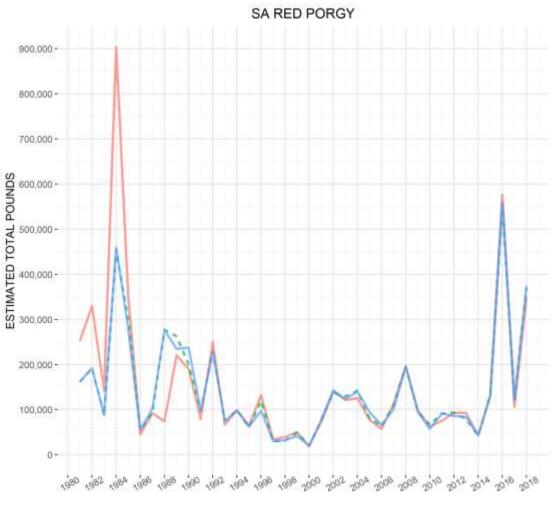






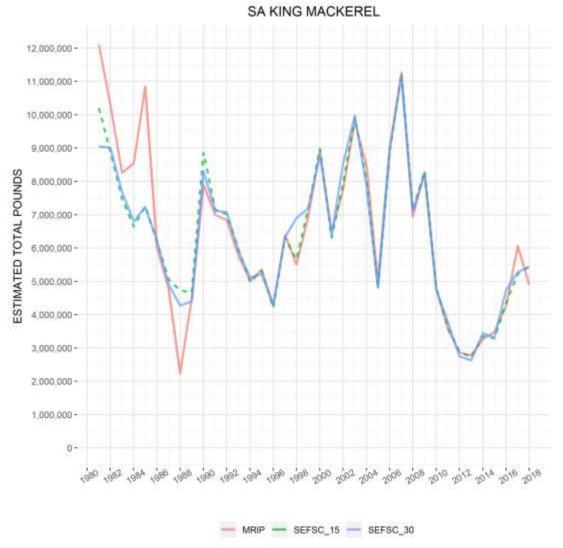




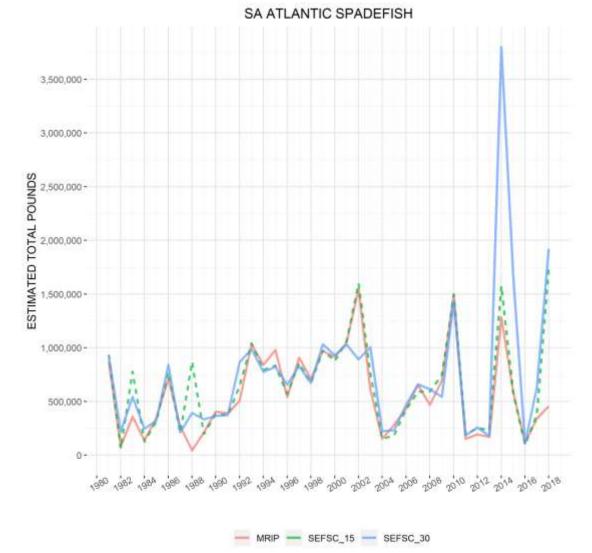


- MRIP - SEFSC_15 - SEFSC_30











Summary

- The FHS adjustment (for hire modes) does not impact the calibration between CHTS and FES (private and shore modes)
- The SEFSC weight estimation procedure, which applies to all modes, occurs after all calibrations are completed. The comparisons shown here isolate the differences between methodologies.
 - Consistent methodology is important for stock
 assessments
 - Proposed 15 fish minimum sample size



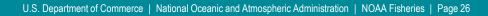
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Questions

NOAA FISHERIES



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