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Revise the Annual Catch Target for Red Grouper: Modeling Season Length for the Recreational Sector

Jeff Pulver

Gulf of Mexico Fishery Management Council

LAPP/DM Branch

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Background

- Analyses only apply when the Annual Catch Target (ACT) is being monitored using Marine Recreational Information Program (MRIP) Fishing Effort Survey (FES) landings.
- The current ACT is being tracked using the MRIP Coastal Household Telephone Survey (CHTS) equivalent landings.
- MRIP FES catch was used in the most recent assessment (SEDAR 61) to determine the ACT options in Amendment 53.

Recreational Gulf red grouper MRIP FES landings (lbs gw).

Year	Landings
2017	1,692,513
2018	2,053,526
2019	1,638,076
Average 17-19	1,794,705

Source: SEFSC MRIP FES Recreational ACL Dataset (May 8, 2020).

Background

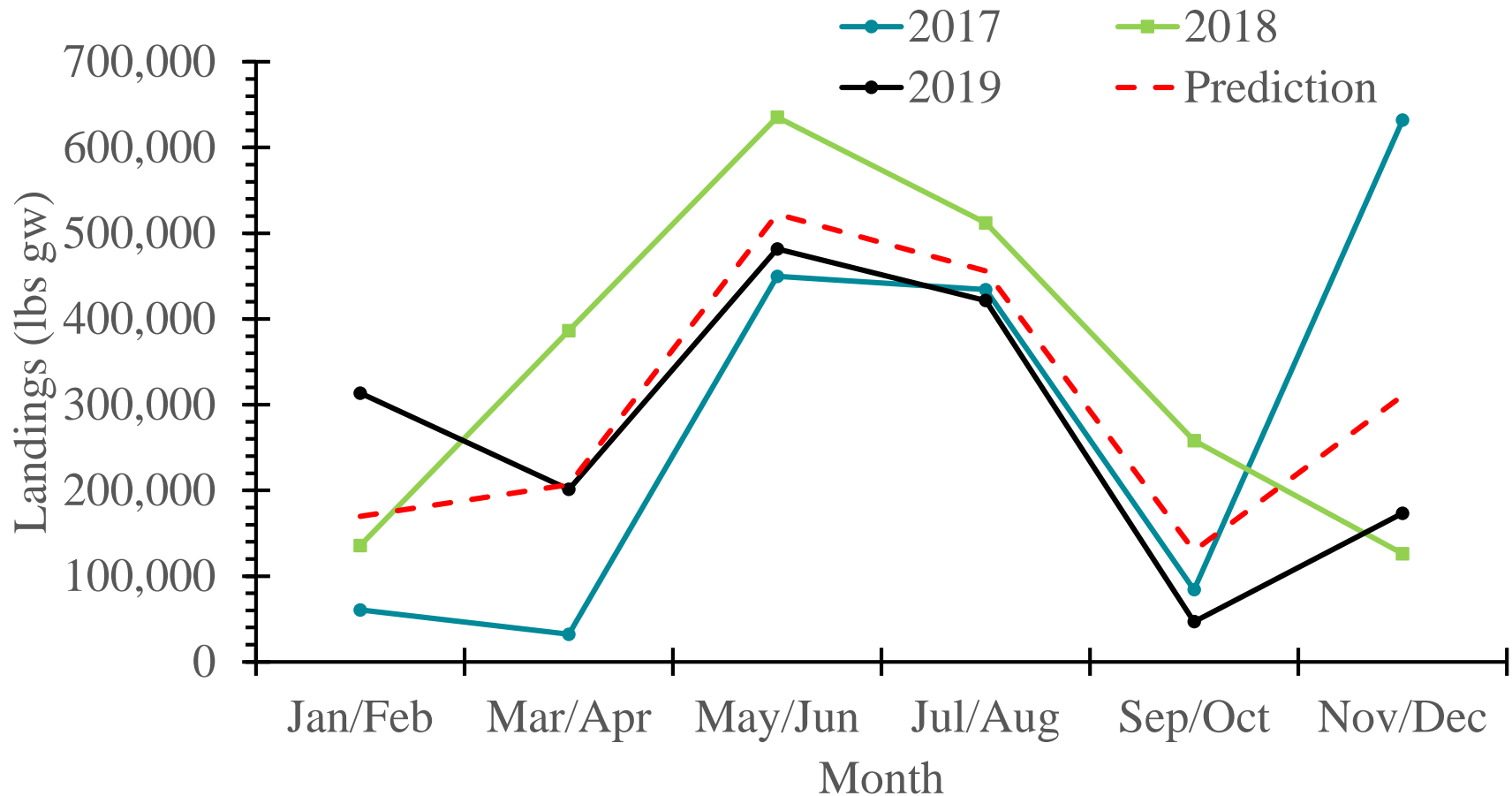
- Future landings were determined from taking a three-year average of the three most recent years of complete data for each month.
- Recreational landings by wave were broken up into month assuming uniform landings by wave.

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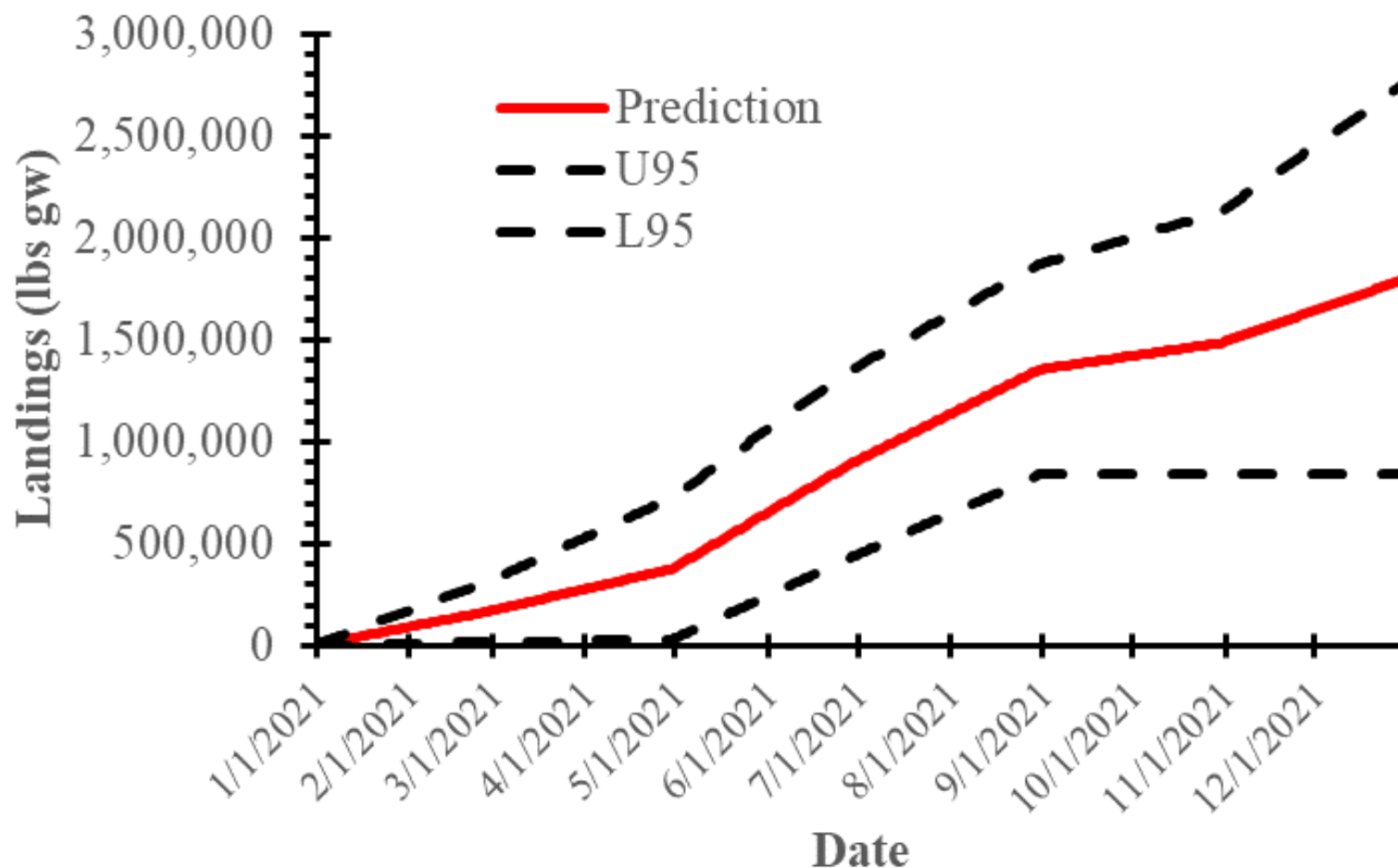
Source: SEFSC MRIP FES Recreational ACL Dataset (May 8, 2020).

Gulf of Mexico red grouper recreational landings by two-month wave and predicted future landings



Source: SEFSC MRIP FES Recreational ACL Dataset (May 8, 2020).

Cumulative predicted Gulf of Mexico red grouper recreational landings with 95% confidence intervals



Source: SEFSC MRIP FES Recreational ACL Dataset (May 8, 2020).



Predicted closure dates for each recreational ACT currently in Amendment 53 generated from the predicted landings

Alternatives (Action 2 – Action 1)	ACT (mp gw)	Predicted Closure Date	Season Length (95% Confidence Interval)
1–1	1.93	No Closure	259–365 Days
2–1	1.09	July 26	157–365 Days
2–2	1.59	November 20	211–365 Days
2–3	1.56	November 14	207–365 Days
2–4	1.58	November 18	209–365 Days
3–1, 4–1	1.07	July 23	155–365 Days
3–2, 3–4, 4–2, 4–4	1.57	November 16	208–365 Days
3–3, 4–3	1.55	November 12	206–365 Days

Source: SEFSC MRIP FES Recreational ACL Dataset (May 8, 2020).

Questions?

