### Amendment 50

Catch Level Adjustments, Rebuilding Schedule, and Allocations for Red Porgy

**Decision Document** 

December 2020

### Background

In 1991, Amendment 4 to the Fishery Management Plan for the Snapper Grouper Fishery of the South Atlantic Region (Snapper Grouper FMP) indicated the Red Porgy stock was undergoing overfishing and was overfished. Amendment 4 established an initial rebuilding plan and the associated final rule (56 FR 56016, October 31, 1991) implemented a minimum size limit for Red Porgy. The rebuilding plan was put into effect in 1991 with a target time to rebuild of 10 years. The stock was assessed in 1999 (Vaughan 1999), and based on the findings the stock was determined to be subject to overfishing and overfished. In an emergency rule published September 3, 1999 (64 FR 48324), the National Marine Fisheries Service (NMFS)

prohibited the harvest and possession of Red Porgy in or from the exclusive economic zone off the southern Atlantic states. NMFS extended the prohibition on harvest and possession of Red Porgy through August 28, 2000 (65 FR 10039; February 25, 2000).

| History of Red Porgy Stock Status |   |   |  |  |
|-----------------------------------|---|---|--|--|
| Assessment Overfished Overfishing |   |   |  |  |
| SEDAR 1 2002                      | Х |   |  |  |
| SEDAR 1 Update 2006               | Х |   |  |  |
| SEDAR 1 Update 2012               | Х |   |  |  |
| SEDAR 60 2020                     | Х | X |  |  |

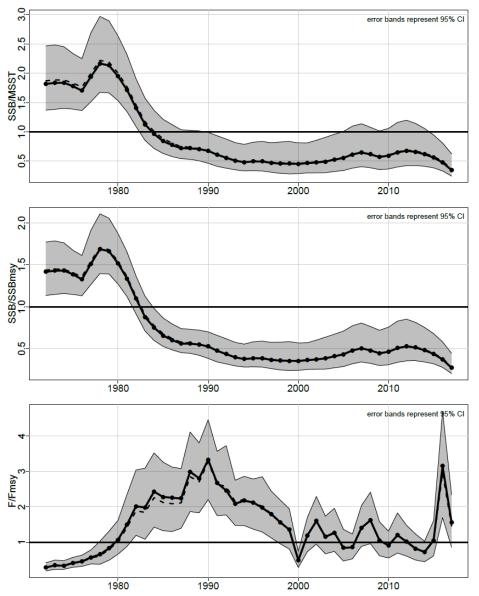
1

The Red Porgy stock in the South Atlantic was the first stock assessed through the Southeast Data, Assessment, and Review (SEDAR) process in 2002. The findings of the assessment indicated the stock was overfished but not undergoing overfishing. The final rule for Amendment 12 to the Snapper Grouper FMP (65 FR 51248, August 23, 2000) closed commercial harvest during the Red Porgy peak spawning season, reduced the commercial trip limit, and reduced the recreational bag limit; and the amendment specified a new 18 year rebuilding plan, which was the maximum recommended timeframe based on the formula: T<sub>MIN</sub> (10 years) + one generation time (8 years, based on data used in the assessment). The rebuilding schedule began with the implementation of the no harvest emergency rule on September 3, 1999 (64 FR 48324) and ended on December 31, 2017. The findings from subsequent update assessments in 2006 and 2012 resulted in the same determinations. The stock has not rebuilt despite management efforts throughout its management history.

The most recent assessment followed a standard approach with data through 2017 (SEDAR 60 2020) and incorporated the revised estimates for recreational catch (Fishing Effort Survey). The findings of the assessment indicated that the South Atlantic Red Porgy stock is overfished and undergoing overfishing (**Figure 1**). The Council's Scientific and Statistical Committee (SSC) reviewed the assessment during their April 2020 meeting and found that the assessment represented the best scientific information available. The Council received the results of the assessment and the SSC's recommendations at their June 2020 meeting and directed staff to begin work on a plan amendment to end overfishing as well as address rebuilding and allocations, etc. for review at the September 2020 meeting.

The Council received notification from NMFS (via letter dated June 12, 2020) of the status of the Red Porgy stock in the South Atlantic and indicated management has not made adequate progress in rebuilding the population. Following notification that a stock is undergoing overfishing and overfished, the Magnuson-Stevens Fishery Conservation and Management Act requires the Council to develop a fishery management plan amendment with actions that end overfishing immediately and rebuild the affected stock. The Council has two years to develop an amendment; hence, the statutory deadline would be June 12, 2022.

At the September 2020 meeting, the Council reviewed an options paper including potential actions in this document and requested input from the Snapper Grouper Advisory Panel (AP) on possible changes to management measures.



**Figure 1**. Estimated time series of spawning sock biomass (SSB) and fishing mortality (F) relative to benchmarks. Top: SSB relative to the minimum stock size threshold (MSST), if less than 1 stock is overfished. Middle: SSB relative to SSB<sub>MSY</sub>, if less than 1 stock is overfished. Bottom: F relative to  $F_{MSY}$ , if > 1 stock is undergoing overfishing.

# Potential management actions in this amendment

- Establish a rebuilding schedule for Red Porgy in the South Atlantic
- Revise catch levels (annual catch limits and recreational annual catch target)
- Revise sector allocations
- Modify management measures?
- Modify accountability measures?

### **Amendment timing**

| September 2020                 | Review options paper and provide guidance to staff   |
|--------------------------------|--|
| December 2020                  | Review draft amendment and approve for scoping   |
| Jan-Feb 2021                   | Conduct scoping hearings   |
| March 2021                     | Review scoping comments, review preliminary analyses, and provide guidance to staff                      |
| June 2021                      | Review modifications to the amendment, select preferred alternatives,<br>and approve for public hearings |
| Jul-Aug 2021                   | Conduct public hearings  |
| September 2021                 | Review public comment and approve all actions  |
| December 2021 or<br>March 2022 | Review final draft amendment and consider approval for formal review                                     |
| Mid to late 2022               | Regulations effective  |

### **Draft Purpose and Need**

### **Purpose for Action**

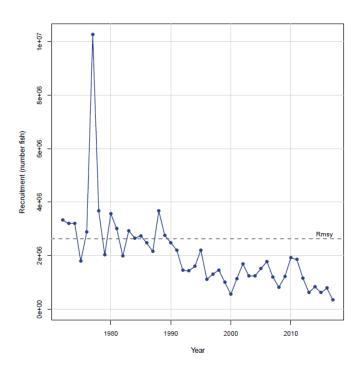
The *purpose* of this amendment is to revise the rebuilding schedule, acceptable biological catch, sector allocations and annual catch limits, and recreational catch target for Red Porgy based on the results of the most recent stock assessment, and modify management and accountability measures.

#### Need for Action

The *need* for this amendment is to end overfishing of Red Porgy, rebuild the stock, and achieve optimum yield while minimizing, to the extent practicable, adverse social and economic effects.

### Acceptable Biological Catch and Overfishing Limit

The Scientific and Statistical Committee (SSC) reviewed the Red Porgy stock assessment (SEDAR 60 2020) at their April 2020 meeting. The SSC found that the assessment was conducted using the best scientific information available, was adequate for determining stock status and supporting fishing level recommendations and addressed uncertainty consistent with expectations and available information. The SSC recommended revising the overfishing limit (OFL) based on projections under a fishing mortality rate that would produce maximum sustainable yield ( $F = F_{MSY}$ ) and recommended the F = 75%  $F_{MSY}$  scenario be used to set the acceptable biological catch (ABC) for Red Porgy. Both projections used average recruitment from the last three assessment years instead of long-term recruitment. The findings of SEDAR 60 indicated average recruitment showed a declining trend throughout the time series and has been below the recruitment levels corresponding to MSY for most of the past three decades (**Figure 2**).



**Figure 2.** Estimated recruitment of age-1 fish. Horizontal dashed line indicates Rmsy (Source: SEDAR 60 2020).

The updated OFL and ABC values are based on **landed catch** and are highlighted in blue (**Table 1**).

| OFL Recommendations |  |                 |  |  |
|---------------------|--|-----------------|--|--|
| Year                | Landings<br>(lbs ww)                   | Numbers of Fish |  |  |
| 2022                | 97,000                                 | 62,000          |  |  |
| 2023                | 102,000                                | 65,000          |  |  |
| 2024                | 107,000                                | 67,000          |  |  |
| 2025                | 110,000                                | 69,000          |  |  |
| 2026                | 113,000                                | 71,000          |  |  |
| ABC Recommendations |  |                 |  |  |
| Year                | Year Landings (lbs ww) Numbers of Fish |                 |  |  |
| 2022                | 75,000                                 | 47,000          |  |  |
| 2023                | 81,000                                 | 51,000          |  |  |
| 2024                | 87,000                                 | 54,000          |  |  |
| 2025                | 91,000                                 | 57,000          |  |  |
| 2026                | 95,000                                 | 59,000          |  |  |

 Table 1.
 South Atlantic Red Porgy OFL and ABC recommendations based on management starting in

 2022 (SEFSC, September 2020).

Note: The SSC had a difficult time implementing the ABC control rule because Red Porgy has made little to no progress towards rebuilding given low recruitment in recent years. The projections indicate the ABCs will have only a very minor impact on stock rebuilding. If recruitment continues to be low, the productivity of the stock and the benchmark reference points will need to be reevaluated.

### **Proposed Actions**

#### Action 1. Establish a rebuilding schedule for Red Porgy

NOTE: Rebuilding projections assume long-term average recruitment and management implemented in 2022. Consequently, catch levels from the rebuilding projections are higher than the recommended ABC.

Alternative 1 (No Action). The Red Porgy stock in the South Atlantic was under an 18-year rebuilding schedule that was expected to rebuild the stock by the end of 2017. Red Porgy did not rebuild and currently is not under a rebuilding plan.

Alternative 2. Revise the rebuilding timeframe to equal the shortest possible time to rebuild in the absence of fishing mortality ( $T_{MIN}$ ). This would equal 11 years with the rebuilding period ending in 2032. 2022 would be Year 1.

Note: This option assumes that fishing mortality is zero and discards are eliminated. Therefore, it can be expected that under this scenario rebuilding will take longer than 11 years. Under this scenario, a 51.4% probability of rebuilding would be achieved in 2032. This projection assumed current fishing mortality from 2018 through 2021.

Alternative 3. Revise the rebuilding timeframe to equal  $T_{MIN}$  + one generation. This would equal 18 years. 2022 would be Year 1.

Note: The updated generation time for Red Porgy is 6.64 years (N. Klibanski, SEFSC 2020).

Alternative 4. Revise the rebuilding timeframe to equal  $T_{MIN}$  times two. This would equal 22 years. 2022 would be Year 1.

Alternative 5. Revise the rebuilding timeframe to equal the time estimated to rebuild the stock with a 50% probability of success while maintaining fishing mortality at 75% of the Maximum Fishing Mortality Threshold (MFMT) during the rebuilding period. For Red Porgy, 75%MFMT =  $75\%F_{MSY}$ . This would equal 26 years with the stock reaching a 50% probability of rebuilding success in 2047. 2022 would be Year 1.

| Year | Landings<br>(lbs ww) | Numbers of Fish |
|------|----------------------|-----------------|
| 2022 | 105,000              | 70,000          |
| 2023 | 123,000              | 80,000          |
| 2024 | 138,000              | 90,000          |
| 2025 | 153,000              | 98,000          |
| 2026 | 167,000              | 106,000         |

Note: This is the maximum time allowed for rebuilding ( $T_{MAX}$ ). Catch levels under this scenario exceed the current recommendation for ABC (**Table 1**). Under this scenario, a 51.1% probability of rebuilding success would be achieved in 2047. This projection assumed current fishing mortality from 2018 through 2021.

#### Discussion:

- Under Alternative 2, the Red Porgy annual catch limit (ACL) would be zero.
- The Council would need to request projections from the SEFSC to determine catch levels and the fishing mortality associated with Alternatives 3 and 4. Projections would have to be reviewed by the SSC.
- The catch levels under Alternative 5 exceed the SSC's recommendations for OFL and ABC.

#### **Committee Action:**

- Does the Committee recommend requesting projections to determine catch levels under Alternatives 3 and 4?
- Are there other projections the Committee recommends requesting?

# Action 2. Revise the Red Porgy total annual catch limit and optimum yield

Note: Alternatives 2 through 4 include the current ABC recommendation from the SSC.

Alternative 1 (No Action). The current annual catch limit and optimum yield for Red Porgy are equal to the acceptable biological catch (328,000 pounds whole weight).

**Alternative 2**. Revise the annual catch limit and optimum yield for Red Porgy to equal the updated acceptable biological catch based on the results of the latest stock assessment (SEDAR 60 2020). The 2026 annual catch limit would remain in place until modified.

| Year | Total ACL (lbs ww) | Total ACL (numbers) |
|------|--------------------|---------------------|
| 2022 | 75,000             | 47,000              |
| 2023 | 81,000             | 51,000              |
| 2024 | 87,000             | 54,000              |
| 2025 | 91,000             | 57,000              |
| 2026 | 95,000             | 59,000              |

Alternative 3. Revise the total annual catch limit and optimum yield for Red Porgy and set equal to 90% of the updated acceptable biological catch. The 2026 annual catch limit would remain in place until modified.

| Year | Total ACL (lbs ww) | Total ACL (numbers) |
|------|--------------------|---------------------|
| 2022 | 67,500             | 42,300              |
| 2023 | 72,900             | 45,900              |
| 2024 | 78,300             | 48,600              |
| 2025 | 81,900             | 51,300              |
| 2026 | 85,500             | 53,100              |

Alternative 4. Revise the total annual catch limit and optimum yield for Red Porgy and set equal to 80% of the updated acceptable biological catch. The 2026 annual catch limit would remain in place until modified.

| Year | Total ACL (lbs ww) | Total ACL (numbers) |
|------|--------------------|---------------------|
| 2022 | 60,000             | 37,600              |
| 2023 | 64,800             | 40,800              |
| 2024 | 69,600             | 43,200              |
| 2025 | 72,800             | 45,600              |
| 2026 | 76,000             | 47,200              |

#### **Committee Action:**

- Approve range of alternatives or recommend modifications
- Select preferred alternative to facilitate subsequent analyses

# Action 3. Revise the Red Porgy sector allocations and sector annual catch limits

Note: The revised total annual catch limit in Alternatives 1 (No Action) through 3 reflects Alternative 2 in Action 2: ABC=ACL=OY with implementation in 2022.

Alternative 1 (No Action). The Red Porgy total annual catch limit is allocated 50% to the commercial sector and 50% to the recreational sector. The commercial ACL is split into two seasons with 30% allocated to season 1 (January through April) and 70% allocated to season 2 (May through December).

| Year | Commercial ACL |         | Recreation | onal ACL |
|------|----------------|---------|------------|----------|
|      | lbs ww         | numbers | lbs ww     | numbers  |
| 2022 | 37,500         | 23,500  | 37,500     | 23,500   |
| 2023 | 40,500         | 25,500  | 40,500     | 25,500   |
| 2024 | 43,500         | 27,000  | 43,500     | 27,000   |
| 2025 | 45,500         | 28,500  | 45,500     | 28,500   |
| 2026 | 47,500         | 29,500  | 47,500     | 29,500   |

Alternative 2. Apply the current allocation formula: ACL = ((mean landings 2006-2008)\*0.5)) + ((mean landings 1986-2008)\*0.5). This would result in a commercial allocation of 51.43% and a recreational allocation of 48.57% using revised recreational landings estimates from the Fishing Effort Survey.

| Year | Commercial ACL |         | Recreatio | onal ACL |
|------|----------------|---------|-----------|----------|
|      | lbs ww         | numbers | lbs ww    | numbers  |
| 2022 | 38,573         | 24,172  | 36,428    | 22,828   |
| 2023 | 41,658         | 26,229  | 39,342    | 24,771   |
| 2024 | 44,744         | 27,772  | 42,256    | 26,228   |
| 2025 | 46,801         | 29,315  | 44,199    | 27,685   |
| 2026 | 48,859         | 30,344  | 46,142    | 28,656   |

Note: Discard mortality is higher for commercial sector (53% in SEDAR 60). Initial allocation was set at 50% commercial to minimize discard mortality.

| Alternative 3. Remove sector allocations and manage under the total annual catch limit. |  |
|---|--|
|---|--|

| Year | Total ACL (lbs ww) | Total ACL (numbers) |
|------|--------------------|---------------------|
| 2022 | 75,000             | 47,000              |
| 2023 | 81,000             | 51,000              |
| 2024 | 87,000             | 54,000              |
| 2025 | 91,000             | 57,000              |
| 2026 | 95,000             | 59,000              |

Note: catch levels assume Council selects ABC=ACL under Action 2.

#### Discussion:

- Allocations are being reviewed since the recreational landings stream changed in the new assessment. Landings estimates now use the Fishing Effort Survey for the private component of the recreational fishery.
- Sector allocations for Red Porgy were implemented through Amendment 15B to the FMP (SAFMC 2008). An equal allocation was selected because it was closest to status quo at the time (2001-2003 landings were 51% recreational and 49% commercial). The Council discussed having to adjust the total allowable catch if the commercial sector was allocated greater than 50% due to higher commercial discard mortality.
- The allocation formula adopted through the Comprehensive ACL Amendment to the FMP (SAFMC 2011) has also been used to allocate the total ACL for some assessed species (i.e., golden Tilefish). However, the allocations formula was **not** used to revise Red Porgy sector allocations.

#### **Committee Action:**

- Approve range of alternatives or recommend modifications
- Provide guidance on units used to specify sector ACLs
- Select preferred alternative to facilitate subsequent analyses

#### Action 4. Revise the Red Porgy recreational annual catch target

Alternative 1 (No Action). The Red Porgy recreational annual catch target is 117,555 pounds whole weight and is determined using the existing formula (annual catch target = recreational annual catch limit x (1-mean Proportional Standard Error over the previous 5 years)).

| Year | Rec ACT (lbs ww) | Rec ACT (numbers) |
|------|------------------|-------------------|
| 2022 | 20,753           | 13,005            |
| 2023 | 22,413           | 14,112            |
| 2024 | 24,073           | 14,942            |
| 2025 | 25,180           | 15,772            |
| 2026 | 26,287           | 16,325            |

Alternative 2. Revise the Red Porgy recreational annual catch target based on a revised recreational annual catch limit and updated proportional standard error estimates for 2015-2019.

Note: the average PSE for 2015-2019 is 44.66%. Estimates based on recreational ACL=50% (Alternative 1 of Action 3) of total ACL (Alternative 2 in Action 2).

Alternative 3. Remove the existing recreational annual catch target and do not specify a new recreational annual catch target for Red Porgy.

#### **Discussion:**

- The current Red Porgy recreational annual catch target (ACT) was based on the previous ACL values and exceeds the SSC recommended ABC for the stock.
- The Red Porgy ACT and formula were implemented through the Comprehensive ACL Amendment to the FMP (SAFMC 2011).
- Recreational ACTs are not currently used to trigger regulatory action in the South Atlantic and are not codified in the regulations.
- Average PSE value includes 2018 PSE, which was approximately 80%.

#### Action 5. Modify Red Porgy management measures

Note: Draft alternatives have not been developed pending Committee discussion and consideration of the Snapper Grouper Advisory Panel's recommendations.

#### **Commercial Landings and Preliminary Analyses**

• Commercial landings of Red Porgy in the South Atlantic averaged 78% of the commercial ACL from 2015 through 2019 (**Table 2**).

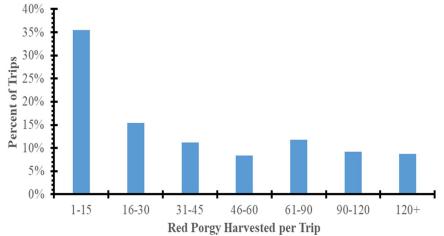
**Table 2.** Commercial landings of Red Porgy from 2014 through 2019 and percentage of the commercial ACL landed each year.

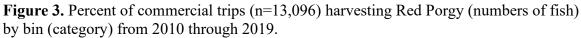
| Previous Landings<br>(lbs ww) |                              | Proposed ACLs<br>(lbs ww) |        |  |
|-------------------------------|------------------------------|---------------------------|--------|--|
| Year                          | Past<br>Landings<br>(lbs ww) | Year and Allocation Allo  |        | ABC=ACL and<br>Allocation is<br>51.43% |
| 2019*                         | 104,608                      | 2022                      | 37,500 | 38,573                                 |
| 2018                          | 126,209                      | 2023                      | 40,500 | 41,658                                 |
| 2017                          | 126,761                      | 2024                      | 43,500 | 44,744                                 |
| 2016                          | 124,914                      | 2025                      | 45,500 | 46,801                                 |
| 2015                          | 153,681                      | 2025                      | 47,500 | 48,859                                 |

Source: SEFSC Commercial ACL data (7/7/20)

\* 2019 data are preliminary

- Current commercial regulations: 14-inch (total length) minimum size limit and trip limit of 60 fish from January 1 to April 30 and 120 fish from May 1 through December 31. Commercial ACL is allocated 30% to Jan-Apr and 70% to May-Dec (effective Feb 2020).
- The percent of trips harvesting Red Porgy from 2010 through 2019 shows greater than 50% of trips are estimated to have harvested less than 30 fish during a trip (**Figure 3**).





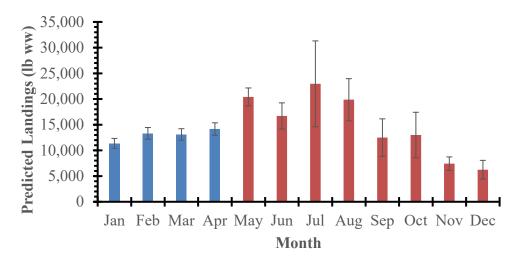
• The estimated reductions from projected landings for potential trip limits are shown in **Table 3.** 

| Current Trip Limit<br>(# of Red Porgy) | Potential Trip Limit<br>(# of Red Porgy) | Change in Landings |
|--|--|--------------------|
| 60                                     | 45                                       | -16%               |
| 60                                     | 30                                       | -36%               |
| 60                                     | 15                                       | -63%               |
| 120                                    | 60                                       | -25%               |
| 120                                    | 45                                       | -37%               |
| 120                                    | 30                                       | -52%               |
| 120                                    | 15                                       | -72%               |

**Table 3.** Predicted percent change in landings from either the 60-Red Porgy (January-April) or

 120-Red Porgy (May-December) trip limits.

- Predicted landings with 95% confidence interval based on data from 2017 through 2019 with the current trip limits are shown in **Figure 4**.
- January-March landings were backfilled using mean 2017-2019 May landings using the mean ratio of May landings to January-April landings from 1986-1999 (the final year the fishery was open January-April until 2020).



**Figure 4.** Predicted monthly Red Porgy landings (lb ww) with 95% confidence interval based on data from 2017 through 2019 with the current trip limits. The values for January through April (blue) are projected values since landings were not allowed during these months until 2020. Source: SEFSC Commercial ACL file [August 21, 2020].

• Predicted season length for the commercial sector under a range of trip limits and assuming the total ACL is set at the recommended ABC for 2022 and current sector allocations are retained is shown in **Table 4**.

| December season.     |                |                                |                 |  |
|----------------------|----------------|--------------------------------|-----------------|--|
| Season               | ACL<br>(lb ww) | Trip Limit<br>(# of red porgy) | Closure<br>Date | Season Length<br>(95% Confidence Interval) |
| January 1 – April 30 | 11,250         | 60 - Current                   | January 31      | 28 – 33 Days                               |
| January 1 – April 30 | 11,250         | 45                             | February 5      | 33 – 38 Days                               |
| January 1 – April 30 | 11,250         | 30                             | February 13     | 42 – 48 Days                               |
| January 1 – April 30 | 11,250         | 15                             | March 13        | 66 – 79 Days                               |
| May 1 – December 31  | 26,250         | 120 - Current                  | June 11         | 38 – 48 Days                               |
| May 1 – December 31  | 26,250         | 60                             | June 27         | 52 – 66 Days                               |
| May 1 – December 31  | 26,250         | 45                             | July 7          | 62 – 81 Days                               |
| May 1 – December 31  | 26,250         | 30                             | July 25         | 75 – 107 Days                              |
| May 1 – December 31  | 26,250         | 15                             | October 4       | 120 – 244 Days                             |

**Table 4**. The projected 2022 closure dates of red porgy by season with different trip limit options.

 Note, 30% of the ACL (37,500 lb ww) is allocated to the January-April season and 70% to the May-December season.

#### **Recreational Landings and Preliminary Analyses**

• Recreational landings of Red Porgy in the South Atlantic from 2015 through 2019 are shown in **Table 5**.

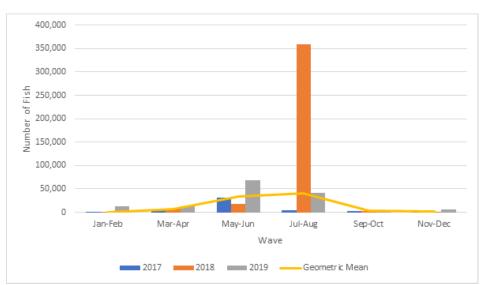
| Previous Landings (lbs |          | Proposed ACLs (lbs ww) |               |               |
|------------------------|----------|------------------------|---------------|---------------|
| ww)                    |          |                        |               |               |
|                        |          |                        | ABC=ACL       | ABC=ACL       |
| Year                   | Landings | Year                   | and           | and           |
| I cai                  | (lbs ww) | I Cal                  | Allocation is | Allocation is |
|                        |          |                        | 50%           | 48.57%        |
| 2019                   | 45,821   | 2022                   | 37,500        | 36,428        |
| 2018                   | 387,053  | 2023                   | 40,500        | 39,342        |
| 2017                   | 145,645  | 2024                   | 43,500        | 42,256        |
| 2016                   | 581,889  | 2025                   | 45,500        | 44,199        |
| 2015                   | 162,639  | 2026                   | 47,500        | 46,142        |

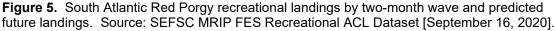
 Table 5. Recreational landings (lbs ww) of Red Porgy from 2015 through 2019.

Source: SEFSC (7/14/20).

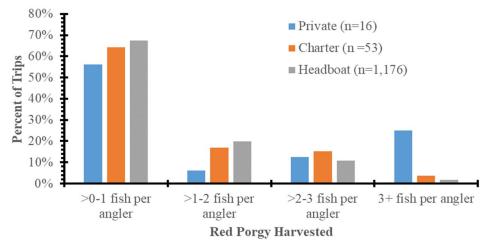
Note: Dataset includes headboat landings. Estimates are calculated from the current MRIP-FES survey.

- Current recreational regulations: 14-inch (total length) minimum size limit and 3 Red Porgy per person/day or 3 per/person/trip, whichever is more restrictive.
- Red Porgy recreational landings by two-month wave and predicted future landings are shown in **Figure 5**. Future landings were determined from taking an average of the three most recent years of complete data, as the most recent data are assumed to be the best approximation of future harvest.





• The number of Red Porgy caught per angler on a given trip was collected by Marine Recreation Information Program (MRIP) and the Southeast Region Headboat Survey (SRHS) using data from 2017 through 2019 and is shown in **Figure 6**.



**Figure 6**. South Atlantic Red Porgy recreational landings by two-month wave and predicted future landings by bin from 2017 through 2019. Source: SEFSC MRIP FES Recreational ACL Dataset [September 16, 2020].

• **Table 6** shows the percent change in Red Porgy landings for each potential bag limit by mode and overall. Note that the total percent change is weighted by the contribution of each mode's landings to overall Red Porgy landings.

**Table 6.** The percent change in Red Porgy landings for each potential bag limit by mode and overall.

| Mode     | 2-Red Porgy<br>bag limit | 1-Red Porgy<br>bag limit |
|----------|--------------------------|--------------------------|
| Charter  | -6.3%                    | -20.2%                   |
| Private  | -14.2%                   | -30.1%                   |
| Headboat | -5.5%                    | -28.2%                   |
| Overall  | -11.5%                   | -28.1%                   |

• Predicted season length for the recreational sector under a range of bag limit options and assuming the total ACL is set at the recommended ABC and current sector allocations are retained is shown in **Table 7**.

**Table 7.** The projected 2022 recreational season closure dates for red porgy with different bag limit options.

| ACL<br>(lb ww) | Bag Limit   | Closure Date | Season Length<br>(95% Confidence Interval) |
|----------------|-------------|--------------|--|
| 37,500         | 3-red porgy | June 8       | 130 – 365 Days                             |
| 37,500         | 2-red porgy | June 16      | 134 – 365 Days                             |
| 37,500         | 1-red porgy | July 1       | 143 – 365 Days                             |

#### Life History Information:

- Scientific studies suggest that Red Porgy spawn from approximately November through May, with the peak approximately from December through March (T. Kellison, personal communication, November 2020).
- Red Porgy are protogynous with transition from female to male occurring between 13 and 15 inches in the South Atlantic based on fishery-independent data collected from 2012 through 2016 (Wyanski et al, SEDAR60-WP02, 2020).

#### **Snapper Grouper AP Recommendations:**

The Snapper Grouper AP discussed Amendment 50 during their November 4-6, 2020 meeting. Council staff provided an overview of the status of the stock, landings, current regulations, life history information, and a suite of discussion questions to assist the AP to formulate recommendations on possible changes to management measures. The AP had the following comments and recommendations:

- Consider conducting analyses with a closure (both sectors) that coincides with the Shallow Water Grouper closure and a reduction in trip and bag limits.
- For the commercial sector, Red Porgy may need to be managed under a bycatch allowance.
- Abundance of Red Snapper could be impacting the Red Porgy population.
- Abundance of Red Porgy has declined inshore partly because of increase in effort. Commercial fishermen still find large fish in deep water when fishing for Vermilion Snapper.
- It is important to the AP to keep the commercial fishery open, even at a reduced level. Also important for data collection.
- Determine the peak spawning months for Red Porgy and adjust the spawning season closure accordingly.

**MOTION:** FOR THE COMMERCIAL SECTOR CONSIDER A RANGE OF TRIP LIMIT OPTIONS (25-60 FISH). CONSIDER CLOSURE ONLY DURING PEAK SPAWNING. APPROVED BY AP

MOTION: RECOMMEND CLOSING THE RECREATIONAL FISHERY FOR RED PORGY IN SYNCHRONY WITH THE SHALLOW WATER GROUPER SPAWNING SEASON CLOSURE. WHEN RED PORGY IS OPEN: 1 FISH PER ANGLER PER TRIP 2 FISH PER ANGLER PER TRIP APPROVED BY AP

#### **Committee Action:**

• Provide guidance to staff on a range of alternatives to analyze for commercial and recreational management measures.

#### Action 6. Modify Red Porgy Accountability Measures

Current accountability measures for Red Porgy are below:

#### Commercial sector:

(i) If commercial landings for red porgy, as estimated by the SRD, reach or are projected to reach the commercial ACL (commercial quota) specified in §622.190(a)(6), the AA will file a notification with the Office of the Federal Register to close the commercial sector for the remainder of the fishing year. Applicable restrictions after a commercial quota closure are specified in §622.190(c).

(ii) If commercial landings for red porgy, as estimated by the SRD, exceed the commercial ACL, and the combined commercial and recreational ACL of 315,384 lb (143,056 kg), gutted weight, 328,000 lb (148,778 kg), round weight, is exceeded during the same fishing year, and red porgy are overfished based on the most recent Status of U.S. Fisheries Report to Congress, the AA will file a notification with the Office of the Federal Register to reduce the commercial ACL in the following fishing year by the amount of the commercial ACL overage in the prior fishing year.

#### Recreational sector.

(i) If recreational landings for red porgy, as estimated by the SRD, reach or are projected to reach the recreational ACL of 157,692 lb (71,528 kg), gutted weight, 164,000 lb (74,389 kg), round weight, the AA will file a notification with the Office of the Federal Register to close the recreational sector for the remainder of the fishing year regardless if the stock is overfished, unless NMFS determines that no closure is necessary based on the best scientific information available. On and after the effective date of such a notification, the bag and possession limits for red porgy in or from the South Atlantic EEZ are zero.

(ii) If recreational landings for red porgy, as estimated by the SRD, exceed the recreational ACL, then during the following fishing year recreational landings will be monitored for a persistence in increased landings, and if necessary, the AA will file a notification with the Office of the Federal Register to reduce the length of the recreational fishing season and the recreational ACL by the amount of the recreational ACL overage, if the species is overfished based on the most recent Status of U.S. Fisheries Report to Congress, and if the combined commercial and recreational ACL of 315,384 lb (143,056 kg), gutted weight, 328,000 lb (148,778 kg), round weight, is exceeded during the same fishing year. The AA will use the best scientific information available to determine if reducing the length of the recreational fishing season and recreational ACL is necessary. When the recreational sector is closed as a result of NMFS reducing the length of the recreational fishing season and ACL, the bag and possession limits for red porgy in or from the South Atlantic EEZ are zero.

#### Committee Action:

Provide guidance on whether to modify current AMs and propose modifications