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**FISHERIES**

Tab D, No. 5(a)

# Protected Resources Bycatch in Shrimp Trawls: A Summary Review of Data Assembled for Reinitiation of Section 7 Consultation on Southeast U.S. Shrimp Fisheries

**August 27, 2025**

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(PRD)

# Presentation Goal and Objectives

## Goal:

- Facilitate Council engagement in the ESA Section 7 consultation for Southeast U.S. shrimp fisheries to reduce their effects on smalltooth sawfish and giant manta ray.

## Objectives:

- Review Section 7 requirements.
- Summarize “reinitiation package” to date and our preliminary assessment of the effects of the action under status quo operation and management of the fishery.
- Share ways the Council can engage in the Section 7 process per the ESA MSA integration policy directive.



# Presentation Outline

- Reinitiation Background (Slides 4)
- Section 7 Consultations and Biological Opinions: What, Why, and How (Slides 5-8)
- Reinitiation Data/Preliminary Assessment for Smalltooth Sawfish (SS) and Giant Manta Ray (GMR)
  - Status and Threats and New Information (SS 9-11, GMR 12-14)
  - Trawl Effects, Shrimp Observer Data, and Updated Bycatch Estimates (Slides 15-21)
  - Sawfish Mortality Event Considerations (Slide 22)
  - Population Viability Analyses and Overarching Preliminary Conclusions (Slides 23-26)
- Additional Section 7 Considerations (new sea turtle bycatch estimates) (Slide 27)
- What is Required Already and What Can Possibly Be Done (Slides 28-30)
- Where Do We Go From Here: ESA MSA Integration Policy Directive and Council Engagement (Slides 31-34)



# Reinitiation Background

- April 2021: SERO issued [ESA biological opinion and incidental take statement](#) on the implementation of the sea turtle conservation regulations (TED regs) under the ESA and the authorization of the southeast U.S. shrimp fisheries in federal waters under the Magnuson Stevens Fishery Management and Conservation Act.
- June 2023: SERO, Sustainable Fisheries Division (SFD) requested SERO Protected Resources Division (PRD) [reinitiate](#) Section 7 consultation on southeast U.S. shrimp fisheries to address **unanticipated observed lethal incidental take of giant manta rays and new information** revealing effects of these fisheries on **smalltooth sawfish and giant manta rays** not considered in the 2021 Shrimp Opinion.
- Since identifying the need to reinitiate, SERO, in collaboration with the SEFSC, has been working to develop the information needed to formally reinitiate consultation (see [§ 402.14\(c\) and \(d\)](#)).



# What is a Biological Opinion?

- An analytical document that:
  - summarizes the effects of a Federal **action** on ESA-listed species and/or designated critical habitat.
  - identifies whether or not the **action** is likely to **jeopardize** the continued existence of a listed species or result in the destruction or adverse modification of critical habitat.
  - represents the opinion of NOAA Fisheries and considers technical, legal, and policy issues relative to the proposed action.
  - is the product of the [formal consultation](#) process.
- For MSA-managed fisheries, the action is defined as:
  - Authorization of a fishery (or fisheries) through approval of an FMP (or FMPs) and promulgation of regulations implementing the plan (or plans), as amended to date and any new proposal (e.g., approval of and promulgation of regulations implementing an Amendment)].



# Why Do We Do One?

- Required under the ESA
  - **Section 7(a)(1) Affirmative Conservation Mandate:** All Federal agencies shall use their authorities to carry out their programs for the conservation of endangered & threatened species.
  - **Section 7(a)(2) Duty to Avoid Jeopardy:** Each federal agency must insure that any action authorized, funded, or carried out by them is not likely to jeopardize the continued existence of any T/E species or destroy or adversely modify critical habitat.
  - **Section 7(b)(3):** At the **conclusion of formal consultation**, a **written statement** detailing how the action will affect T/E species must be issued

# Effects/Jeopardy Analyses

- Jeopardize the continued existence of means to engage in an action that reasonably would be expected, directly or indirectly, to reduce appreciably the likelihood of both the survival and recovery of a listed species in the wild by reducing the reproduction, numbers, or distribution of that species.  
  
—Adds the effects of a federal action *on top* of the effects of other human activities and natural phenomena on the species' status and trend in a particular action area and the species' global status and trend.



# What Happens if Jeopardy is Concluded?

- If jeopardy is concluded, the consulting agency proposes “**Reasonable and Prudent Alternatives**” (RPAs) to avoid jeopardy
- The action agency must then modify the proposed action to comply with the ESA or not take the action.
- **The consulting agency and action agency should work together to avoid jeopardy conclusions and, when this is not possible, work together to develop RPAs.**
- Opinions also include an “**incidental take statement**” (ITS) that specifies the number of individuals, or extent of a population, of a listed species that will be “taken” incidental to the planned action, and exempts take from any ESA section 9 prohibitions on take so long as **reasonable and prudent measures** and their implementing terms and conditions are complied with.



# Smalltooth Sawfish Status and Threats

**Status:** Listed as Endangered Under the ESA in 2003.

**Threats:** Bycatch (shrimp trawls, bottom longlines, and recreational hook-and-line gear) and loss of habitat; losses due to South Florida spinning fish events.

**Life History Limiting Factors:** Small population, slow growing, late maturing, few young born.



# Smalltooth Sawfish Recovery Plan Objectives

- Minimize human interactions and associated injury and mortality
- Protect and restore smalltooth sawfish habitats
- Ensure smalltooth sawfish abundance and distribution increase.

\*Currently updating the Smalltooth Sawfish Recovery Plan.



# New Sawfish Data Since 2021 Opinion

- Six research publications and 1 pending publication since 2021
  - Smith et. al 2021: Replicates the Feldheim et al. 2017 analysis using samples from Ten Thousand Islands/Everglades; together the papers indicate a small number of adult females contributing to the population and fidelity to specific nurseries.
  - Graham et al. (2022): Identifies areas of overlap between federal fisheries and sawfish habitat use; female smalltooth sawfish at a higher risk from shrimp trawl bycatch than males due to use of deeper habitats where shrimping occurs.
  - Carlson 2023: Updated population viability model with new life history information and population size informs the degree of extinction risk under different scenarios.
  - Carlson and Farmer 2025: Updated population viability model incorporating (1) improved estimates of bycatch for the southeast shrimp trawl fishery and (2) mortality from the 2024 large-scale mortality event in South Florida.
  - Kroetz et al. 2025: Emphasizes the significance of shallow, mangrove-fringed inshore areas for juvenile smalltooth sawfish and the importance of models in identifying these habitats.
  - Kroetz et al. 2025: Refines life history information using necropsied sawfish collected over the last decade; no significant changes in metrics but stronger confidence in results given the larger sample size.
  - Farmer et al. *In Press*: Documents Significant declining trend in relative abundance of small juveniles.



# Giant Manta Ray Status and Threats

**Status:** Listed as Threatened Under the ESA in 2018

## Threats:

- Bycatch (domestic & foreign)
- Directed fishing for gill plates and meat (foreign only)
- Vessel strike (domestic & foreign)
- Entanglement (domestic & foreign)
- Pollution / marine debris (domestic & foreign)

**Life History Limiting Factors:** late maturing (8-12 yrs /females), may have 1 pup every two to three years, 12-13 gestation.



Credit: Manta Trust



Credit: Manta Trust



Credit: MMF



Credit: NOAA

# New Giant Manta Ray Data Since 2021 Opinion

- Observer Program Species ID & Reporting Improvements

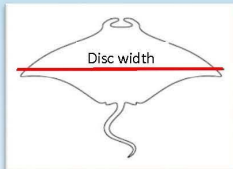


## Mobula Ray Identification Guide For Fisheries Observers

**Purpose:** This guide is intended to assist fishery observers in the visual identification of the giant manta ray and several devil ray species that occur in the Southeast and Mid-Atlantic.

**General Observations:** The size, coloring patterns, and a few morphological differences can be used to distinguish between species.

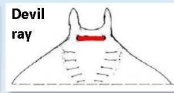
- Giant manta rays are larger than devil rays. Measurements should be taken by estimating the distance over their wingspan ["Disc Width" (DW)].



- Giant manta rays have a terminal mouth (i.e., mouth points straight forward, in front of the head); Devil rays have a sub-terminal mouth (i.e., mouth beneath the head).



Terminal mouth



Sub-terminal mouth

### *Manta birostris*

**Common Names:** Giant Manta Ray, Oceanic Manta Ray

**Status:** U.S.: Listed as *Threatened* under Endangered Species Act.

**Size:** Up to 700 cm DW; appx. 200 cm DW at birth.

**Dorsal Coloration:** Black with distinct white patches creating a T-shaped shoulder pattern.

**Ventral Coloration:** White with dark spots; spots rarely found between gill slits. Dark shading along the posterior edges of the pectoral fins.



Photo credit: Joshua Stewart

### SAWFISH, STURGEON, GIANT MANTA RAY and BIRDS PROTECTED RESOURCES CAPTURE REPORT

REPORT WITH IN 24 HOURS OF CAPTURE

7\_19

Trip Number  /  /  /  /  /  /  /  /  /  /  /

Set/Tow  Station  Captured  Specimens #   
By Trip  Non-Station  Sighted

Check type of specimen captured and reference species (if known) in space provided:  
 Sawfish  Birds  
 Sturgeon  Giant Manta Ray

Vessel  Observer  State  Time (24 hr)  Water Depth (ft.)  Photos Y/N

LATITUDE  deg  min  sec LONGITUDE  deg  min  sec

TARGET SPECIES: List all targeted species for this set using genus species format.

Gear Type:  Longline  Gill Net  Trawl  Bandit Reel  Handline  Fish Trap  Other

Gear Depth:  Surface  Midwater  Bottom  Whole Water Column  Other

Net Position  Net Type  Animal Captured In:  Net Modifications:  TED  TED/BRO  BRO  None  Unknown

IF GEAR IS A FORM OF HOOK AND LINE, COMPLETE THIS SECTION, AS APPLICABLE:  
 Try Net  Standard Net  Circle  other (describe) \_\_\_\_\_ SIZE  /0  
 Manufacturer/Style No. \_\_\_\_\_ DEGREE OFFSET

Bait:  Squid  Mackerel  Sardine  Unknown  Other (describe) \_\_\_\_\_

Was hook removed from this animal? Y / N / Unknown / Not Applicable

Was animal entangled in gear? At capture? Y / N / Unknown At Release? Y / N / Unknown

How much gear (linear feet) was left on the animal when released?  ft. (estimated/measured)

DIMENSIONS (cm): Est. total length:  cm R. Est. Length of Rostrum (Saw):  ft. Sex (M,F,U):   
 Precaudal Length:  cm Fork Length:  cm Stretch Total Length:  cm  
 Rostrum Length:  cm Rostral Teeth: Left  Right  Estimated disc width:  ft.

TAG INFORMATION: Was this animal PIT scanned for PIT tag? (Y/N)  Tag ID Numbers:

PIT Tag #:

RELEASE INFORMATION: TIME (24hr)  DATE  /  /

LATITUDE  deg  min  sec LONGITUDE  deg  min  sec

FINAL DISPOSITION:  Discarded Dead/Unresponsive Carcass  Released Alive  Unknown (explain)

BIOLOGICAL SAMPLES:  
 Vertebrae  Gonad  Stomach  Fin Clip/Tissue  Fin Ray  Pectoral Fin  Rostrum

ADDITIONAL COMMENTS: (list all biological samples collected):  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# New Giant Manta Ray Data Since 2021 Opinion

- **Five more years of improved bycatch data (2020-2024)**
- **Pate et al. (2024)**
  - Evidence of reproductive and feeding habitat for manta rays off Florida's Atlantic coast
- **Farmer et al. (2022)**
  - Integrated decades of sightings and survey effort data into distribution modeling
  - Predicted the highest occurrence around the Mississippi River Delta April - June and Oct - Nov.
  - Predicted highest occurrence during April off Northeastern Florida, leading north to North Carolina from June - Oct, then south to Georgia from Nov - March with cooling temps.
- **October 2024 Draft Recovery Plan**
  - Comprised of 3 separate documents (Recovery status review, plan, and implementation strategy).
  - Outlines path and tasks required to restore and secure self-sustaining wild populations.
  - 3 main objectives: 1) ensure resiliency and geographic representation by increasing overall abundance to achieve viable populations in all ocean basins; 2) increase resiliency by managing or eliminating threats, and 3) ensure viability through development and effective implementation of regulations for long-term protection of the species.

# Smalltooth Sawfish & Trawl Effects

## Injury/Stress and Mortality resulting from capture:

- Breakage and damage to rostrum in the net.
- Compacted against netting or TED by weight of catch.
- Weight of animal outside of the water.
- Handling of animal to remove from net.



Credit: NOAA Fisheries Shrimp Observer Program



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# Giant Manta Ray & Trawl Effects

## Mortality resulting from asphyxiation:

- Obligate ram-ventilation requires constant movement to pass water over gills.
- Capture in trawls severely restricts movement and respiration resulting in asphyxiation.

## Injury/Stress/Mortality from capture:

- Compacted against netting or TED by weight of catch, coupled with impaired respiration decreases likelihood of survival post release.



Credit: NOAA Fisheries Shrimp Observer Program



# Smalltooth Sawfish Bycatch - Observer Data & Mortality Considerations

**Observer Coverage= <2%**

**Observed Takes** (Since 2008)

- 16 Alive; 3 Mortalities; 7 Unknown  
=Total: 26 (GOM =21; SA =5)

**Mortality Estimate**

- 2021 Shrimp Opinion assumed 50% mortality overall.
- 38% at-release mortality rate based observed mortalities and assigned unknowns based on observer descriptions.
- Post-release mortality for small rays ranges 9%–60%\*
- Sawfish difficult to release; overall mortality likely >50%

**Observation Characteristics:**

- Majority of takes off **Southwest Florida**.
- Location in trawl varies, but at or in TED most common.
- Rostrum damage from release activities.
- All large juveniles and adults
- Only 35% of records with sex IDs.

Year	Alive	Dead	Unknown	Total
2008	0	1	0	1
2009	3	1	0	4
2010	1	0	1	2
2011	0	0	0	0
2012	0	0	0	0
2013	2	1	0	3
2014	0	0	0	0
2015	0	0	1	1
2016	0	0	1	1
2017	0	0	2	2
2018	1	0	0	1
2019	2	0	0	2
2020	1	0	0	1
2021	1	0	0	1
2022	4	0	2	6
2023	0	0	0	0
2024	0	0	0	0
2025	1	0	0	1

\*Dapp et al. (2015)



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# Giant Manta Ray Bycatch - Observer Data & Mortality Considerations

**Observer Coverage = < 2%**

## Observed Takes (Since 2019)

- 31 Alive; 6 Mortalities; 9 Unknown  
= **Total: 46** (GOM = 38; SA = 8)

## Mortality Estimate

- 2021 Shrimp Opinion assumed no mortality.
- 33% at-release mortality rate (observed mortalities + unknowns)
- Mean total discard mortality for obligate ram-ventilating species in trawls = 84.2% (Dapp et al. 2015)

## Observation Characteristics

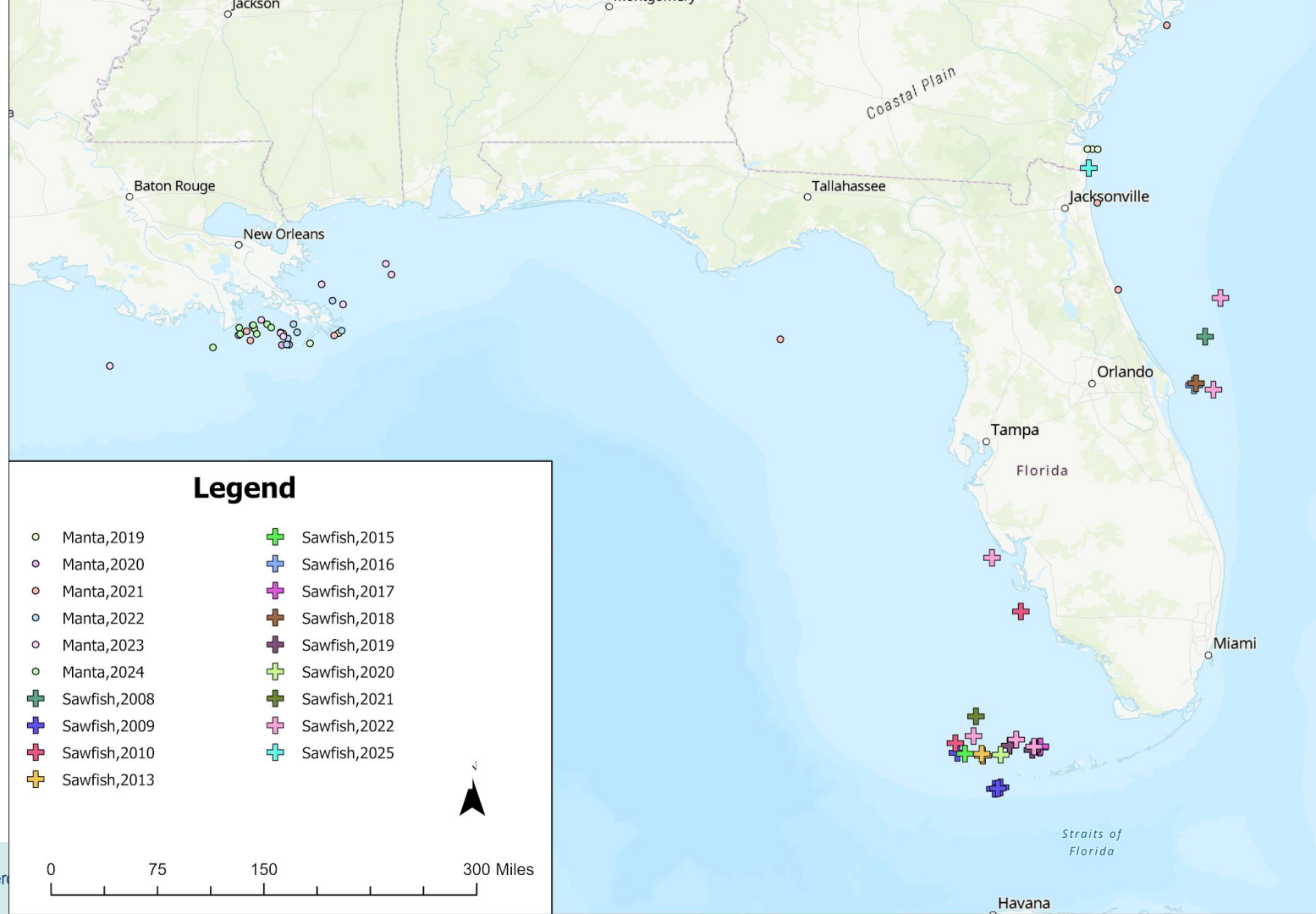
- Most interactions occurring offshore **Louisiana (n=34)**, followed by **Georgia (n=6)**, **Alabama (n=3)**, **Florida (n=2)**, **Mississippi (n=1)**.
- Most interactions occurring in **Spring and Fall**.
- Multiple interaction occurring on single trips.
  - 33% of all trips (8 of 24) had multiple interactions.
  - Trips with multiple interactions accounted for 30/46 takes.
- Majority of interactions at **depths <100 ft**.

Year	Disposition	Total
2019	Alive	4
	Unknown	4
2020	Alive	3
2021	Alive	5
	Mortalities	2
2022	Alive	8
	Unknown	2
2023	Alive	6
	Unknown	1
	Mortalities	2
2024	Alive	5
	Unknown	2
	Mortalities	2

NOAA Fisheries  
Shrimp Observer  
Program  
Observations:

Smalltooth Sawfish  
(2008+ ) and Giant  
Manta Ray (2019+)

\*2025 Incomplete=  
Data entered to date.



# Updated Total Bycatch Estimates

- Estimated total annual bycatch with uncertainty of smalltooth sawfish and giant manta rays in the federal shrimp trawl fishery in the Gulf & SE Atlantic using both design- and model-based estimation methods.

Year	Smalltooth Sawfish			Giant Manta Ray		
	Gulf	SA	Total	Gulf	SA	Total
2008	82 (28 – 185)		<b>82 (28 – 185)</b>			
2009	91 (33 – 185)	40 (7 – 113)	<b>131 (40 – 298)</b>			
2010	47 (18 – 95)	48 (9 – 129)	<b>96 (27 – 224)</b>			
2011	21 (19 – 101)	53 (10 – 151)	<b>74 (29 – 252)</b>			
2012	37 (19 – 157)	33 (3 – 119)	<b>70 (22 – 276)</b>			
2013	17 (6 – 74)	22 (1 – 77)	<b>39 (7 – 151)</b>			
2014	94 (29 – 202)	26 (1 – 90)	<b>120 (30 – 292)</b>			
2015	85 (25 – 181)	22 (1 – 81)	<b>107 (26 – 262)</b>			
2016	76 (23 – 154)	58 (8 – 190)	<b>134 (31 – 344)</b>			
2017	93 (32 – 196)	51 (7 – 164)	<b>144 (39 – 360)</b>			
2018	100 (31 – 215)	43 (6 – 133)	<b>143 (37 – 348)</b>			
2019	93 (28 – 191)	51 (7 – 166)	<b>144 (35 – 357)</b>	406 (163 – 844)	1245 (205 – 4611)	<b>1651 (368 – 5455)</b>
2020	123 (47 – 258)	65 (7 – 209)	<b>188 (54 – 467)</b>	443 (107 – 1034)	1195 (197 – 4407)	<b>2438 (304 – 5441)</b>
2021	109 (44 – 208)	54 (6 – 182)	<b>163 (50 – 390)</b>	385 (144 – 781)	1636 (89 – 2253)	<b>2021 (233 – 3034)</b>
2022	85 (33 – 165)	39 (4 – 125)	<b>124 (37 – 290)</b>	461 (202 – 807)	1244 (67 – 1707)	<b>1705 (269 – 2514)</b>
2023	48 (19 – 96)		<b>48 (19 – 96)</b>	863 (357 – 1643)		<b>863 (357 – 1643)</b>

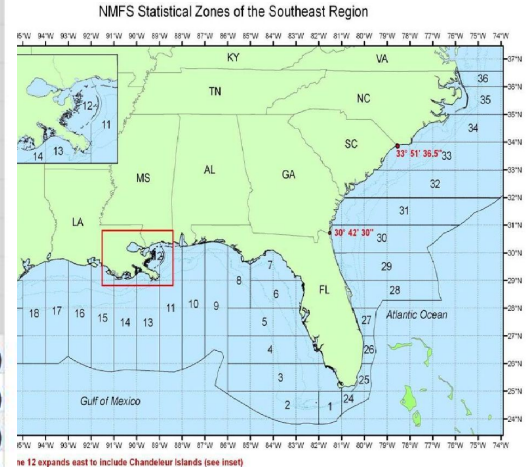
Estimates of shrimp trawl bycatch of smalltooth sawfish and giant manta ray in the Southeast USA

Cheston Peterson<sup>1</sup>, Elizabeth A. Babcock<sup>2</sup>, Daniel Woods<sup>2</sup>

<sup>1</sup>Assistant Scientist  
CIMAS, University of Miami  
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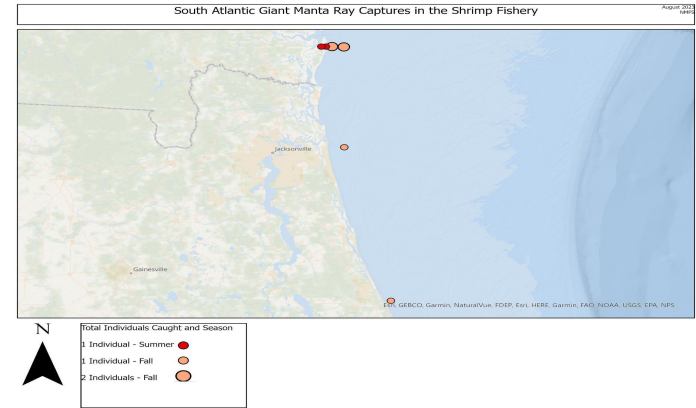
<sup>2</sup>Rosenstiel School of Marine Atmospheric & Earth Science  
University of Miami

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ATMOSPHERIC  
SCIENCE



# What About Shrimp Effort Impacts in the South Atlantic Region?

- Limited by low observer coverage
- Effort off Florida East Coast concentrated in Zones 28-30; greater overlap with giant manta ray than with sawfish.
- Effort data more uncertain in the SA.
- Need improved data in areas of high overlap to avoid conservative assumptions.



# Sawfish Mortality Event Considerations

- Major Mortality Event in 2024 (January - August):
  - 230 affected (spinning, thrashing, beaching) sawfish reported
  - 56 confirmed mortalities (total mortality likely higher)
  - Nearly all were large juvenile or adults (9-16 ft)
  - Most reports came from the Keys, Jan through June
  
- Smaller mortality event in 2025 (January - June):
  - ~60 affected sawfish reports
  - 9 mortalities
  - Reports were more geographically isolated but still within the lower Keys
  
- Cause is still under investigation but likely linked to a benthic harmful algal bloom
  
- Uncertainty about the frequency and scale of future mortality events



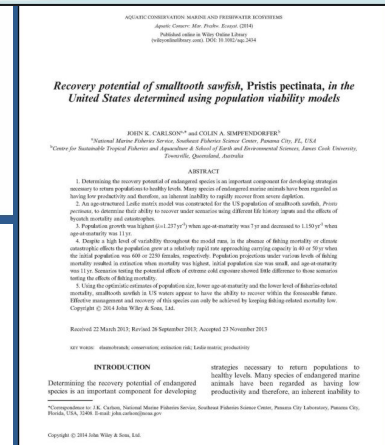
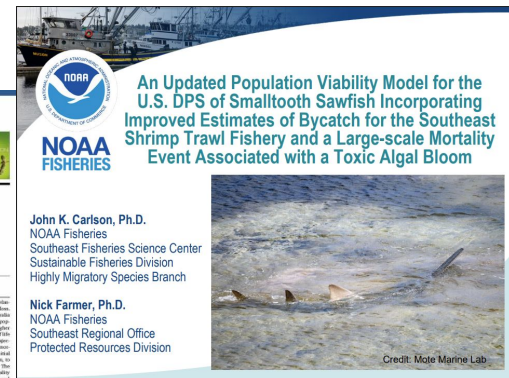
# Population Viability Analyses (PVA)

- What is a PVA?
  - A modeling tool that estimates the future size and risk of extinction for populations of organisms in light of life history characteristics, threats facing the species, and management actions.
    - Predicts the probability of the population persisting into the future.
    - Explores consequences of management actions in the light of uncertain data and an ambiguous future.
- A wide range of modeling approaches are used in PVA, from simple models based on abundance trends to complex individual-based habitat models.
- PVAs are one tool that NOAA Fisheries can use in evaluating jeopardy for a species, and the likelihood of recovery under different scenarios.



# Smalltooth Sawfish Population PVAs

- PVAs suggest that ongoing shrimp trawl bycatch, particularly in combination with mortality events, leads to increased extinction risk for endangered sawfish.
- NMFS staff are working to address suggestions from the Gulf SSC and hope to present a revised PVA to the SSC at a subsequent meeting.



# Additional PVA Work To Be Completed

- A giant manta ray PVA, with outputs of probability of extinction similar to those provided for smalltooth sawfish , and including the following additional scenarios:
  - No future shrimp bycatch
  - Future shrimp bycatch does not exceed 2023 shrimp bycatch
- Additional PVA runs for smalltooth sawfish based on Gulf Council SSC feedback and also considering how shrimp fisheries may impact the species under the following scenarios:
  - No future shrimp bycatch
  - Future shrimp bycatch does not exceed 2023 shrimp bycatch
  - Incorporation of 2025 mortality event data and consideration of periodic mortality events



# Overarching Preliminary Conclusions Based on Data

- Smalltooth sawfish population abundance data and trends.
  - Growing evidence the population is small
  - Evidence of declining abundance trend in juvenile smalltooth sawfish
- The 2024/25 sawfish mortality events had a major impact on the population.
- Shrimp trawl bycatch is the largest ongoing long-term source of mortality for large juveniles and adult mortalities.
- Giant manta ray bycatch is observed annually off Louisiana despite less than 2% observer coverage and appears to be increasing in the Gulf.
- More actions may be needed to minimize shrimping impacts in light of above conclusions



# 2021 Incidental Take Statement (ITS): Take Monitoring & Additional Section 7 Considerations

- Updated (2016-2020) sea turtle bycatch and at-vessel mortality estimates:
  - Green, loggerhead, Kemp's ridley, and hawksbill sea turtles bycatch estimates below ITS levels.
  - Revised methods for leatherback analyses resulting in higher estimates than in the 2021 Opinion and ITS, but no increasing trend.
  - Reinitiation required to amend leatherback analyses and revise ITS.



# 2021 ITS Requirements

- 2021 ITS Reasonable and Prudent Measures and Implementing Terms and Conditions
  - **Monitoring:** Fishing effort and observer data must be collected to produce take estimates over 5-year periods.
  - **Sampling:** Collection and tagging activities of bycaught ESA species via observers following established protocols.
  - Ecological Studies: **Review and analyze available temporal and spatial data for “Hot Spots”**
  - **Handling:** Ensure fishers (via outreach and education efforts) handle species in a manner that **prevents injury and ensures survivability.**
    - Disseminate Sea Turtle Handling and Resuscitation Guidelines, Giant Manta Ray Release Guidelines; and Smalltooth Sawfish Handling, Release, and Reporting Procedures to fishers/shrimp vessels

# What Else Can We Do for Sawfish and Giant Manta Ray?

- How can we address current data limitations?
  - How can we improve bycatch monitoring in primary bycatch areas?
- How can sawfish and giant manta ray bycatch and mortality be reduced in the fishery?
- How can we improve and raise awareness of and compliance with safe handling and release guidance?



# What Else Can Possibly Be Done?

- Protected species bycatch reduction strategies previously or currently used in other fisheries:
  - Cap overall effort and/or take
  - Fish in areas or in a manner resulting in a lower sea turtle catch per unit effort (CPUE)
  - Minimize (reduce) mortality and mortality rates
- Examples of bycatch reduction measures:
  - Effort and/or take “caps”
  - Seasonal or area closures in “hotspot” areas
  - Gear modifications
  - Improved handling/release techniques and required training
  - Overnight soak prohibitions



# Council Engagement in the Section 7 Process

- [ESA MSA Integration Policy Directive](#) (PD):
  - Outlines how Councils can participate in the Section 7 process,
  - Emphasizes the importance of early collaboration by NMFS (SF and PR) and the Councils **prior to initiation of consultation** for reducing the likelihood that a preferred fishery management alternative will result in a jeopardy or “DAM” finding.
- Ways that Councils can be involved in Section 7 consultations:
  - Describing the proposed action for purposes of initiating Consultation
  - Identifying feasible alternatives to status quo
  - Providing Council views as to the “**best scientific information available**” on fisheries management practices and potential effects of the proposed action on listed or proposed listings of species and designated or proposed designations of critical habitat
  - Assisting in preparing draft biological assessments, biological evaluations, and other ESA section 7 consultation initiation documents

# Council Engagement in the Section 7 Process

- **Mechanisms for Fostering Council Involvement in the Section 7 Consultations**
  - PRD Council liaisons and involvement in Council Committee and Advisory Panels
  - Engaging PRD in reviewing and providing appropriate information for sections of MSA- and NEPA-related analyses via the IPT process on fishery management actions.
  - Forming **IPTs** For Considering ESA actions (e.g. Gulf Reef Fish Amendment 31 IPT)
  - Establishing an **Ad hoc committee or working group** to review ESA data and explore alternative for changes to the FMP to address ESA-related concerns (e.g. Groundfish ESA Working Group).



# Where Do We Go From Here?

- Timing of formal shrimp reinitiation depends on:
  - What the proposed action is: status quo or consideration of new measures?
  - Council engagement process
  - Internal and/or external factors
- Once reinitiated, the default total time between initiation of formal consultation and completion of the final opinion is 135 days, but this time can be extended through mutual agreement.



# Where Can I Get More Information?

- Information posted on our website:
  - [2021 Shrimp Biological Opinion](#)
  - [Smalltooth Sawfish](#) and [Giant Manta Ray](#) Species Profiles
    - Species Overview, Conservation and Management, Science, and Resources (e.g. listing rules and recovery documents)
  - [ESA Section 7 Consultation Species Frameworks](#)
    - Guidance on evaluating effects from federal action for each listed species
- **Information YOU Want to Share? Questions? Other Needs?**
  - Reach out to me (info below): I'll listen, help or connect you to a Protected Resources specialist who can!
    - Office phone: (727) 551-5778
    - Email: [Jennifer.Lee@noaa.gov](mailto:Jennifer.Lee@noaa.gov)



# Additional Background/Reference Slides

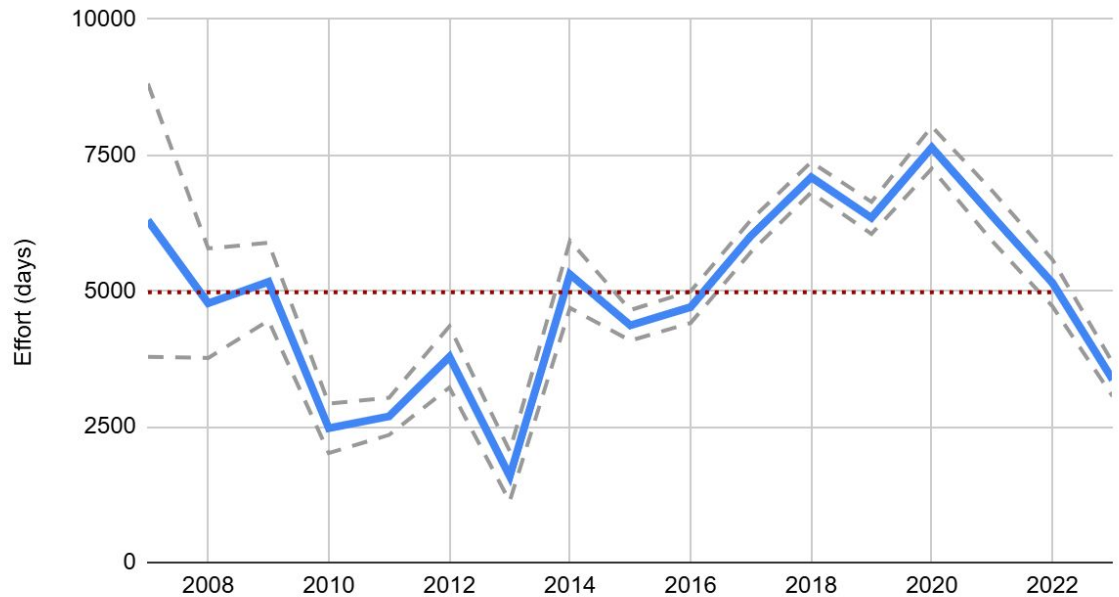


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# Annual Shrimp Trawl Effort in Primary Sawfish Bycatch Area

- Total effort in Stat Zones 1 to 4, by year, with 95% CIs, relative to average 2007–2021 (pre-Ian) effort.
- Observations: Effort in Zones 1 to 4 has not been consistently declining, and in fact was increasing 2016 to 2020. It declined substantially following Hurricane Ian, but not to all-time lows.

Effort in Stat Zones 1–4



# Annual Shrimp Trawl Effort in Primary Giant Manta Ray Bycatch Area

- Total effort in Stat Zones 11 to 14, by year, with 95% CIs, relative to average 2007–2021 (pre-Ian) effort.
- Observations: Effort in Zones 11 to 14 has not been consistently declining, and in fact was steady 2014 to 2020. It declined substantially from 2021 to 2023, nearing the all-time DWH low in 2010.

Effort in Stat Zones 11–14

