





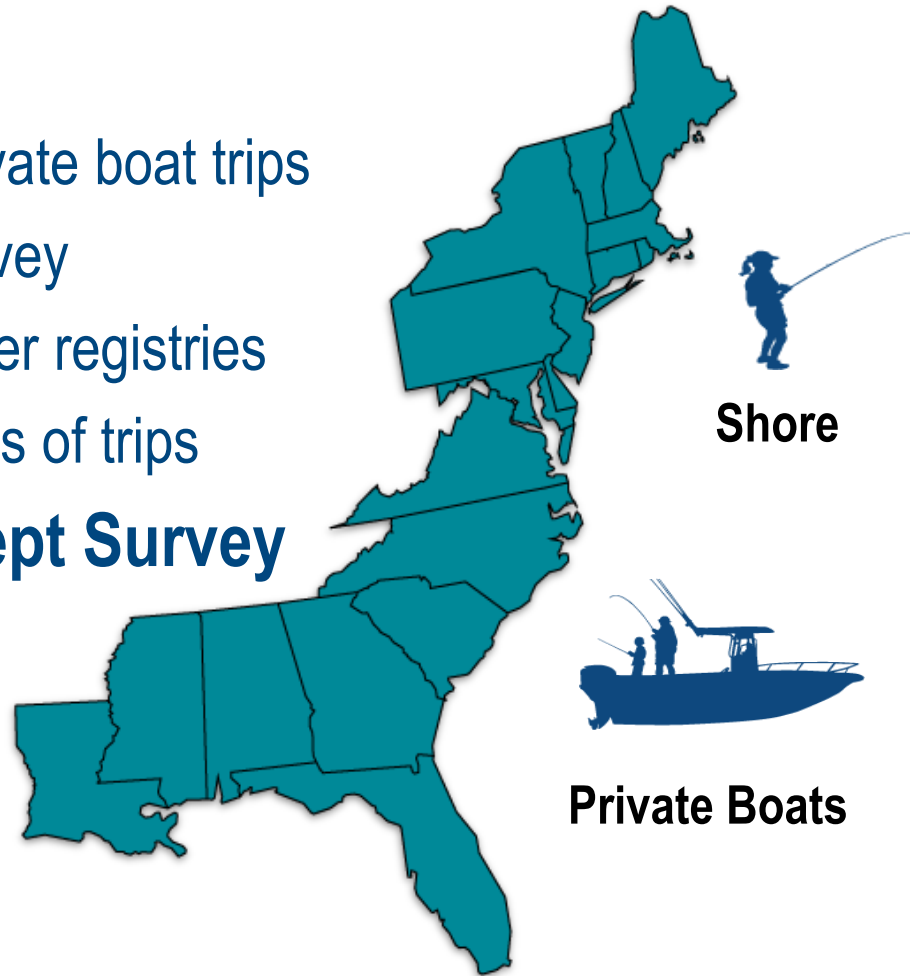
# Improved Survey Designs

## Fishing Effort Survey

- New mail survey of shore & private boat trips
- Replaces legacy telephone survey
- Uses USPS database and angler registries
- Higher, more accurate estimates of trips

## Access Point Angler Intercept Survey

- New design for sampling catch
- Better time-of-day coverage
- More statistically sound



# Fishing Effort Survey



We're reaching more anglers.



Surveys get into the right hands.

**3X**

Much higher response rate.



Improved questionnaire.

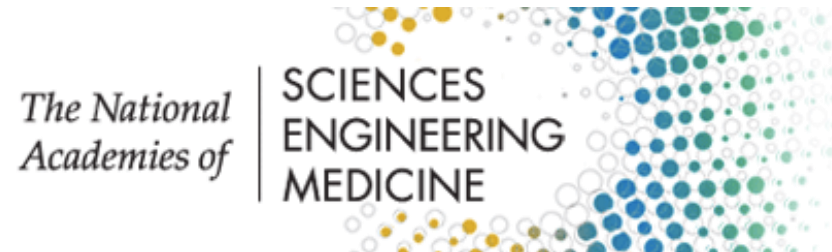


More complete answers.

# Extensive Testing and Peer Review

“**The [Fishing Effort Survey] methodologies**, including the address-based sampling survey design, are **major improvements.**”

“**The current methods used in the APAIS ...** are a vast improvement over the previous sampling and estimation procedures and reflect **state of the art methods** in survey sampling.”



# Transition Plan

Improving designs can change estimates

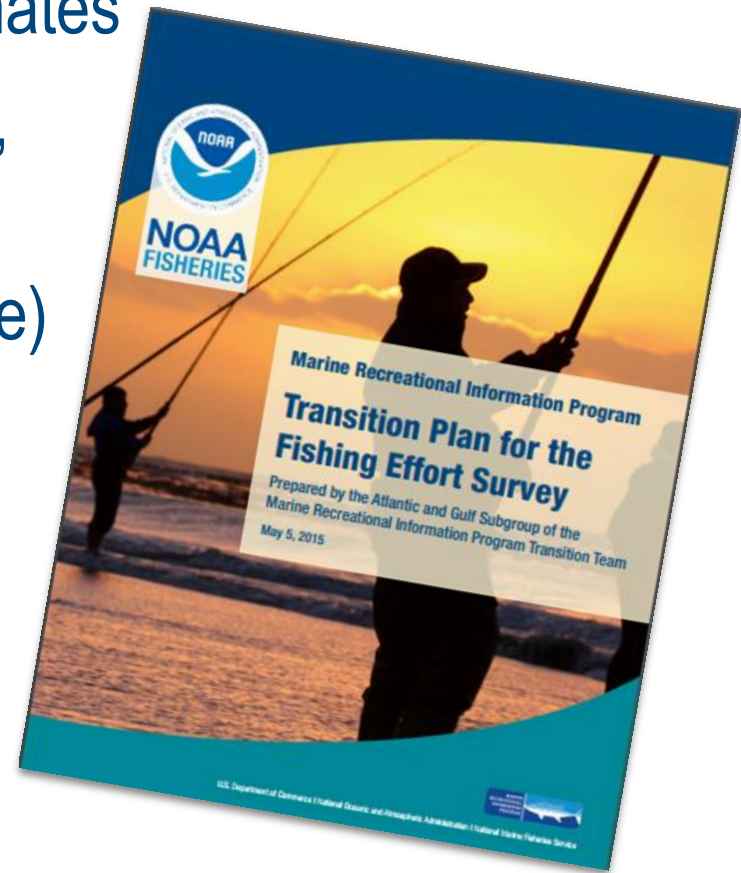
Transition Plan developed by NOAA, states, councils, and commissions.

- ✓ Benchmarking (mail vs. phone)
- ✓ Calibration (old vs. new)
- ✓ Convert “old” estimates into “new” currency

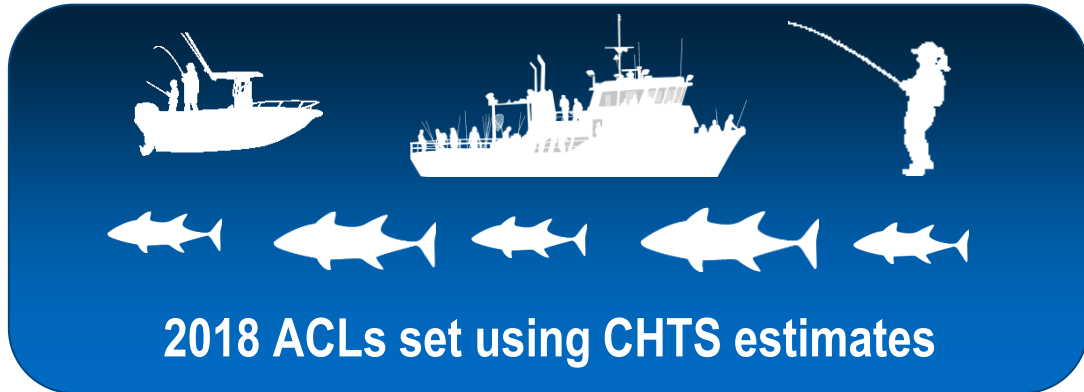


Stock assessments

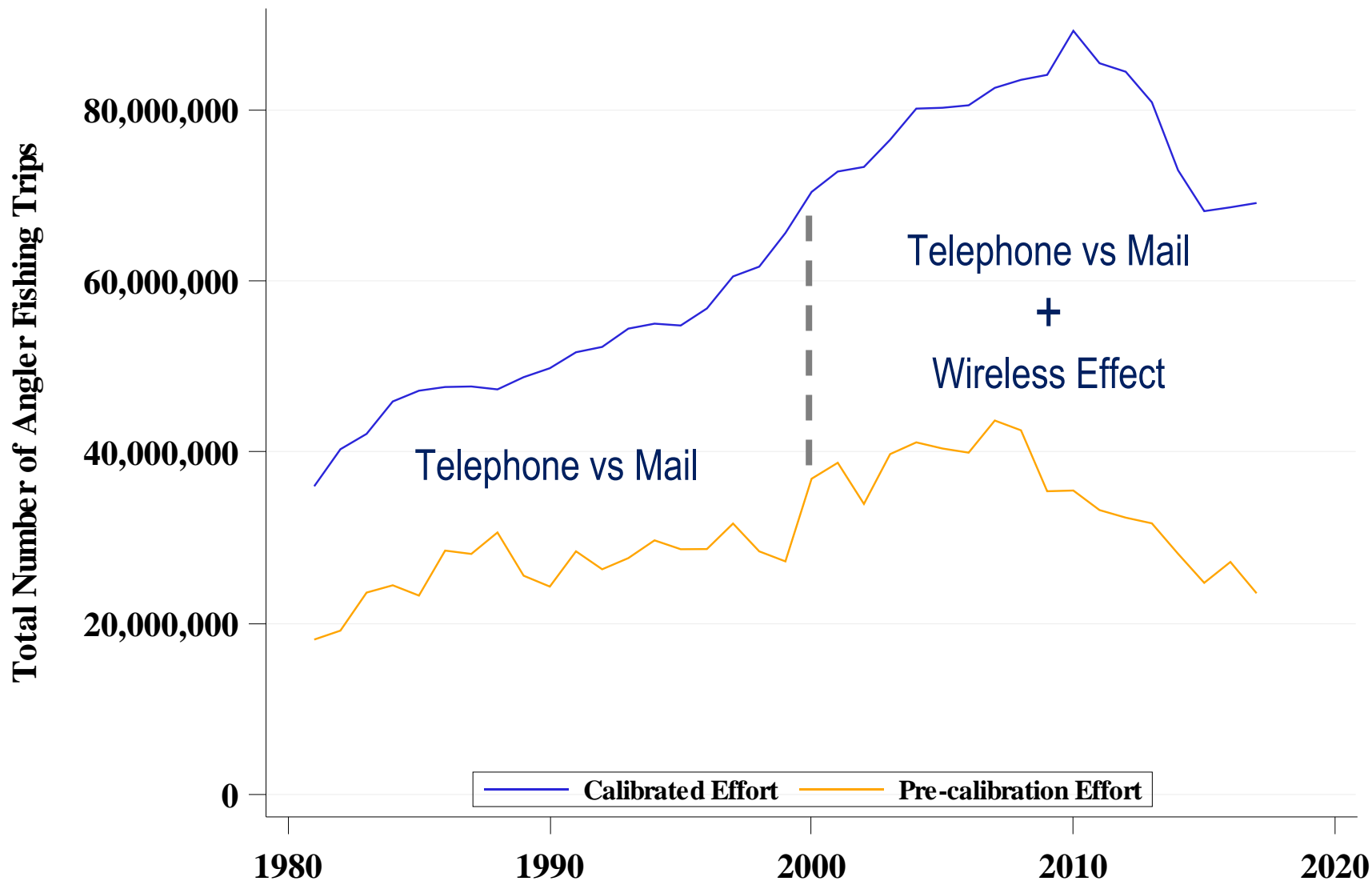
Management decisions



# 2018 Annual Catch Limits

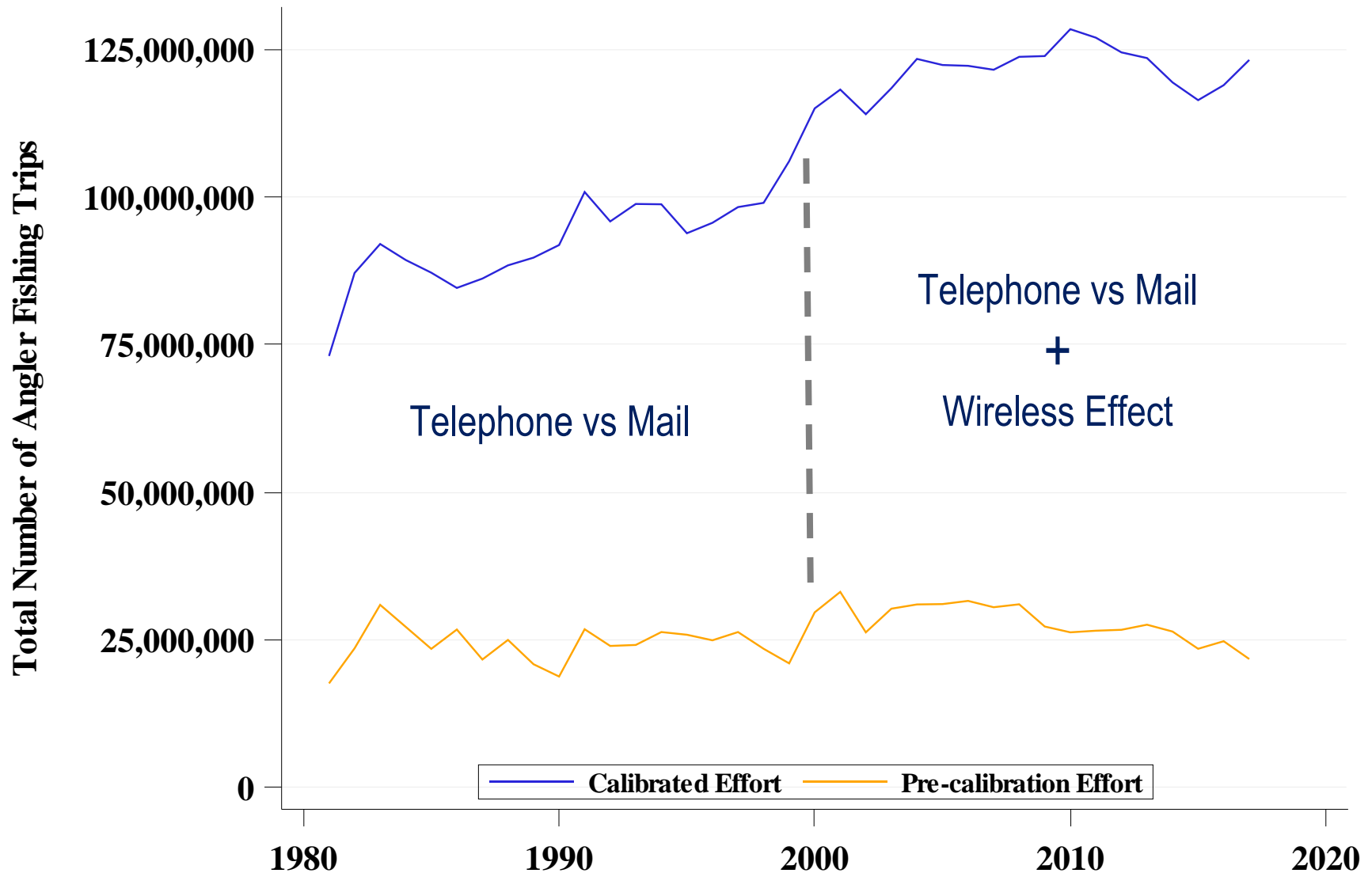


# Private Boat Effort - Atlantic & Gulf of Mexico

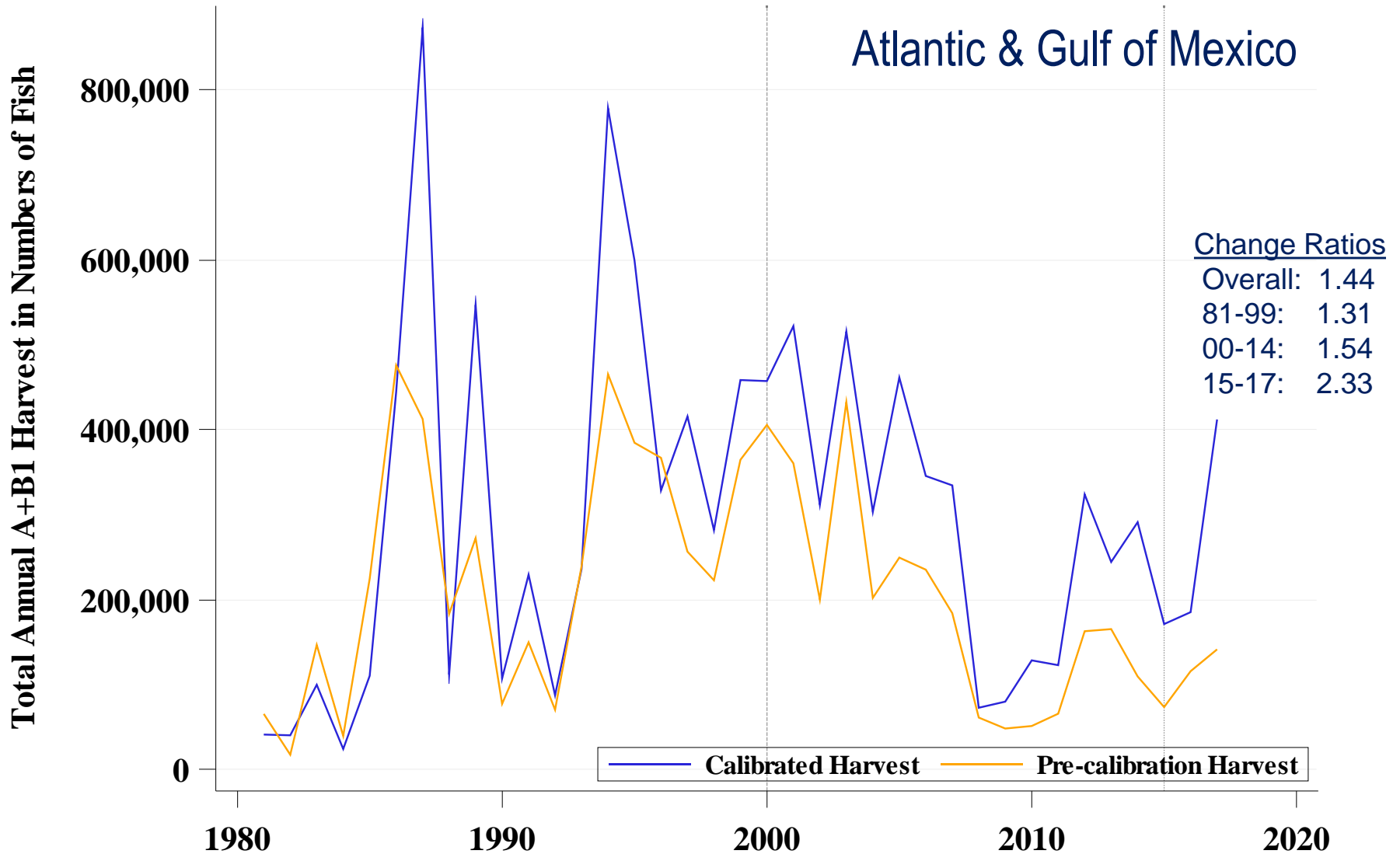




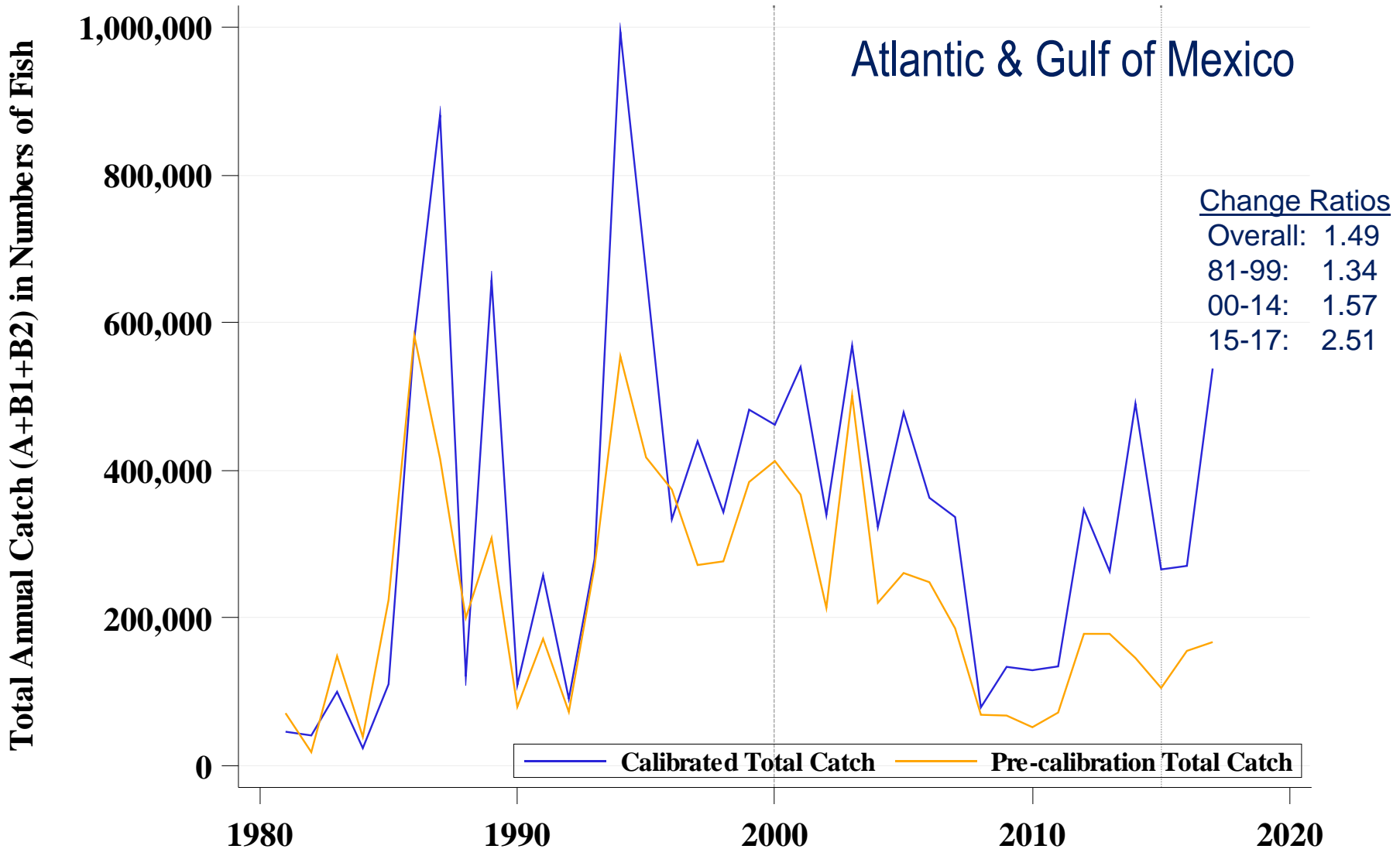
# Shore Effort - Atlantic & Gulf of Mexico



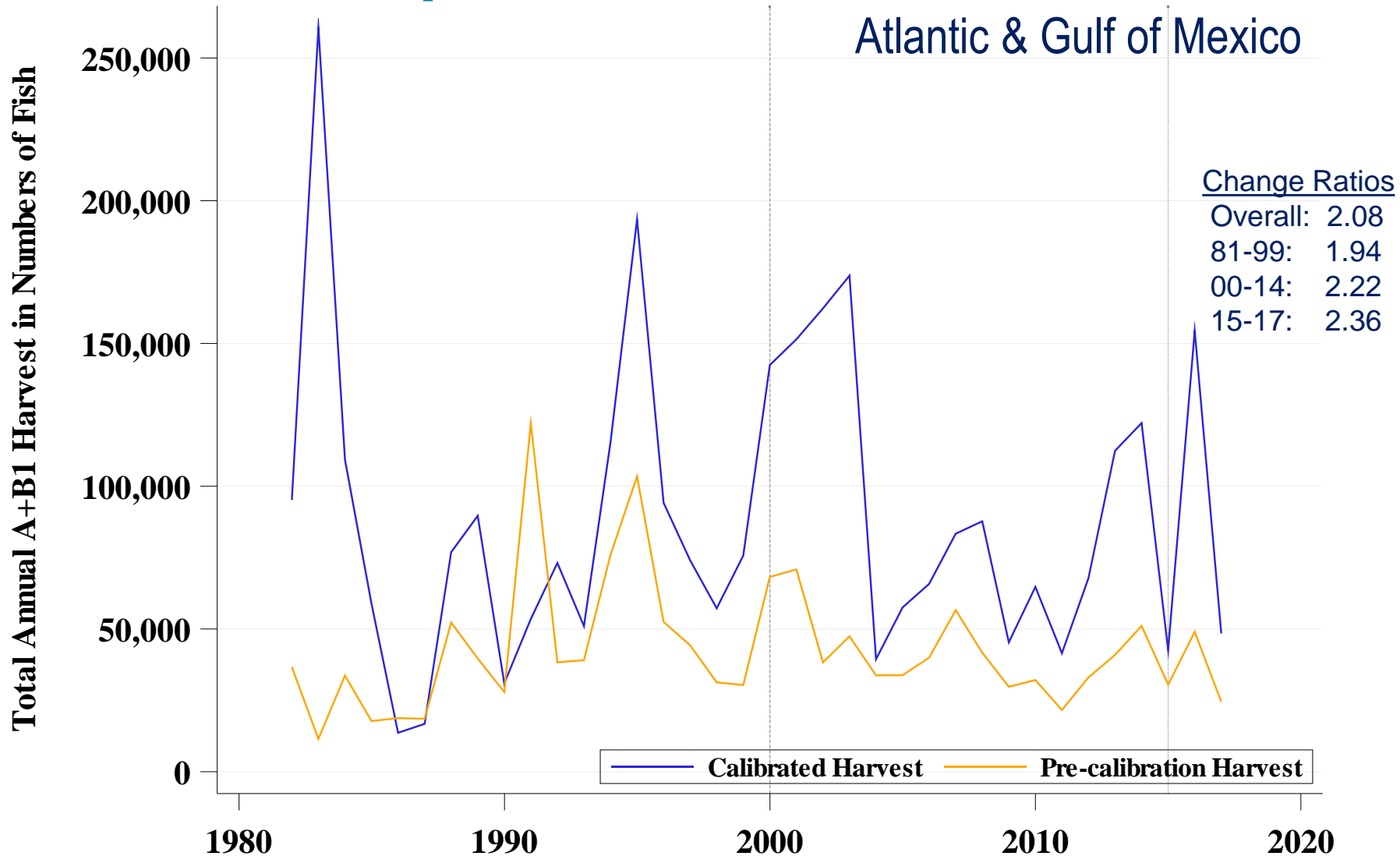
# Yellowfin Tuna Harvest



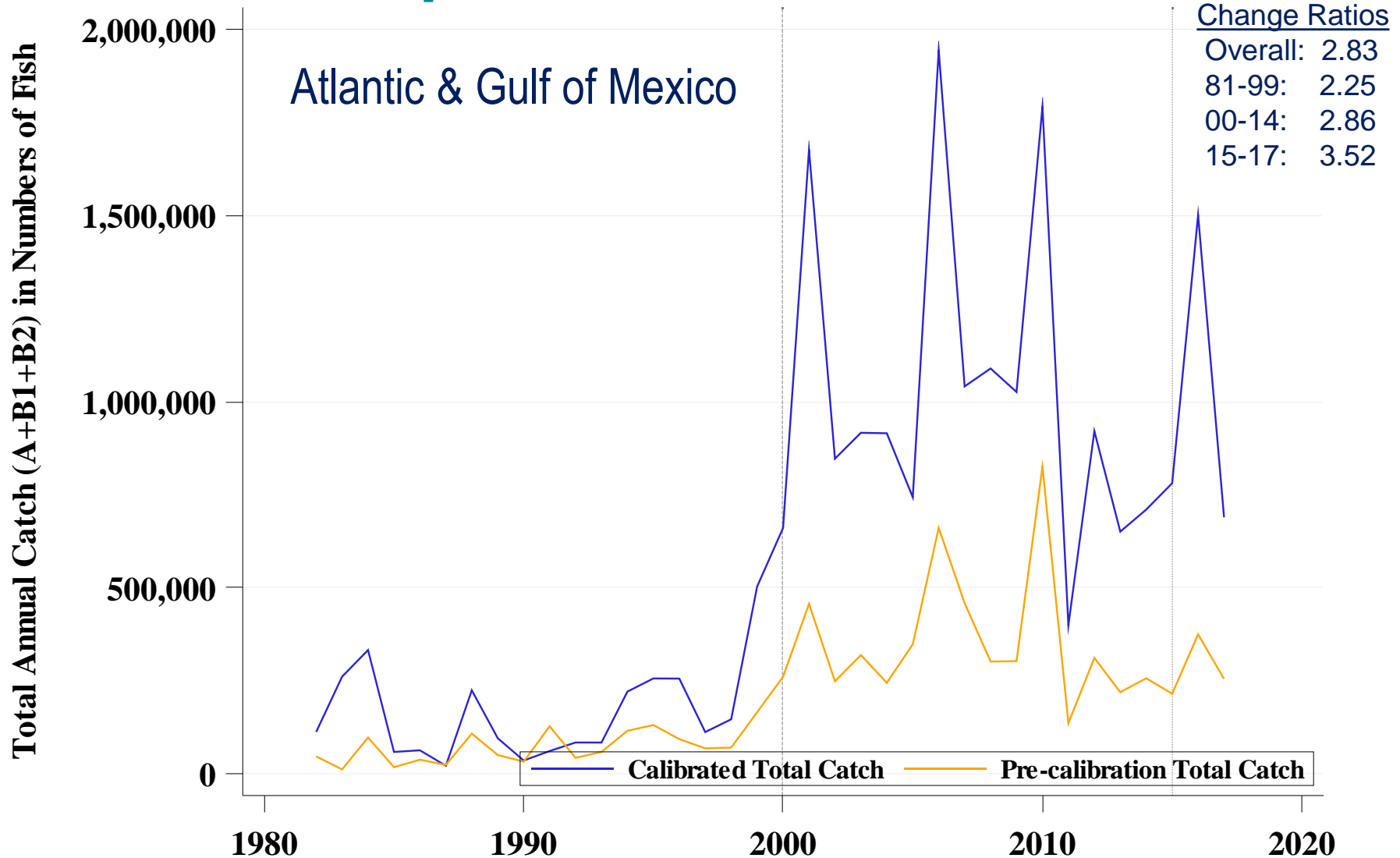
# Yellowfin Tuna Total Catch



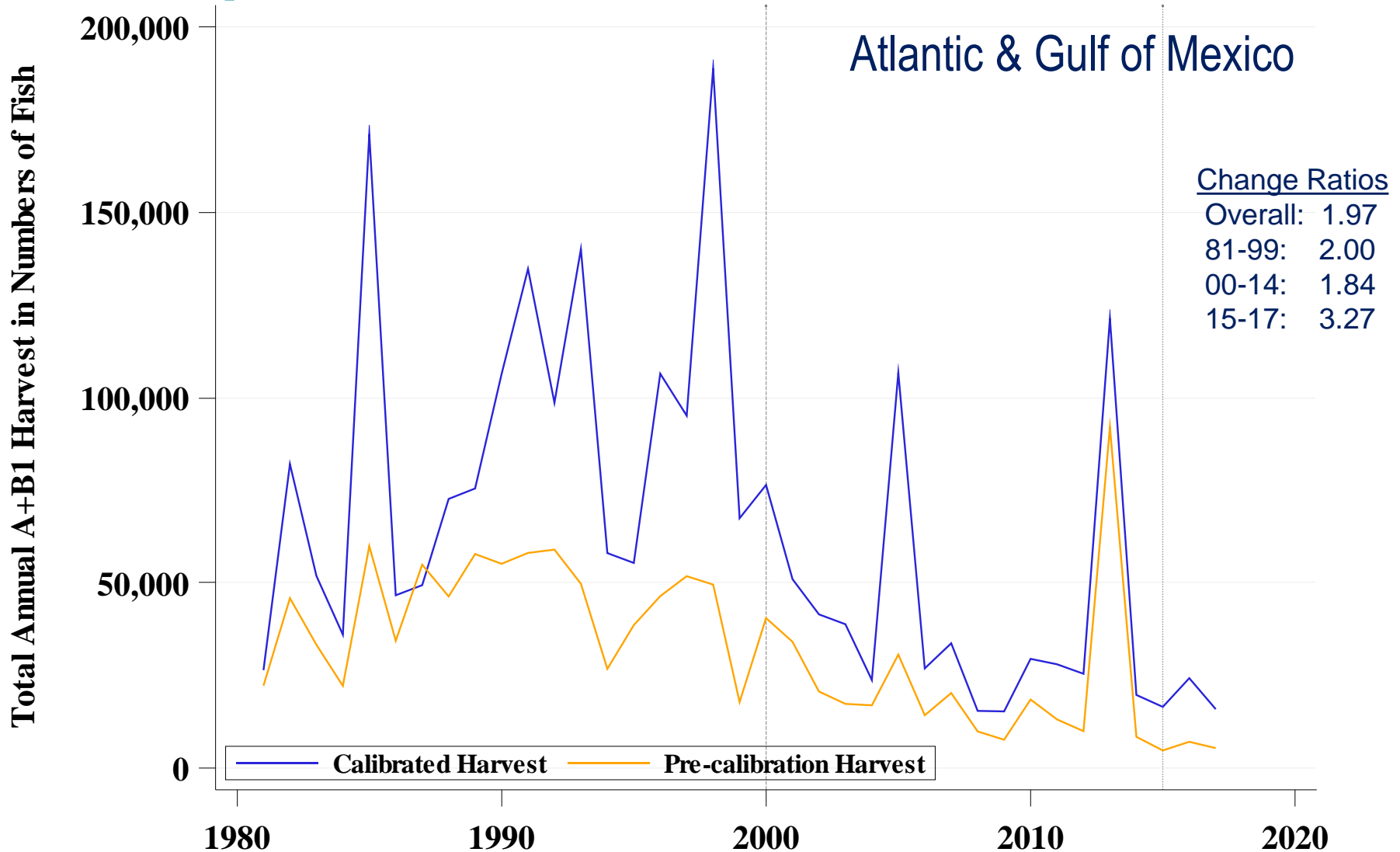
# Atlantic Sharpnose Shark Harvest



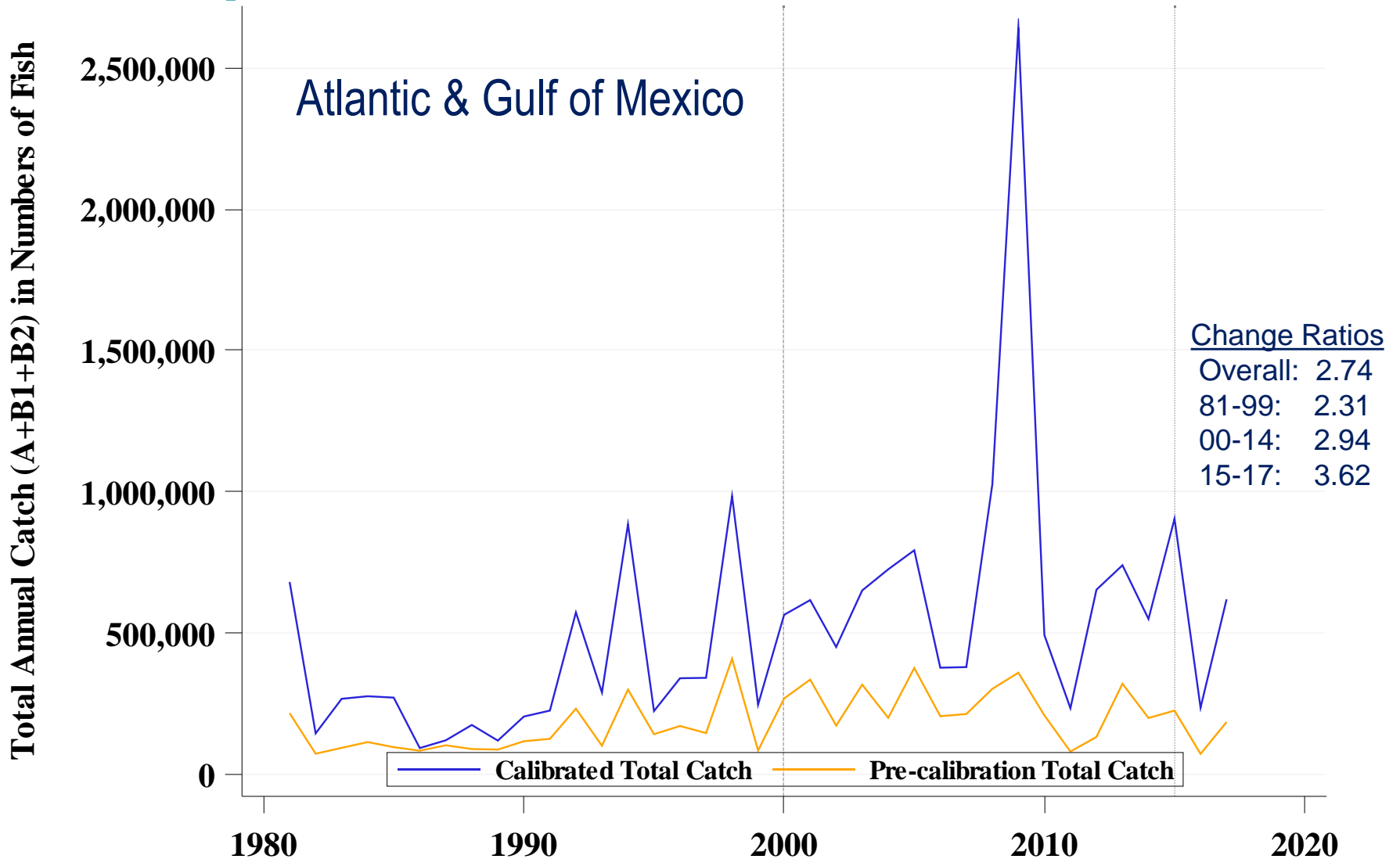
# Atlantic Sharpnose Shark Total Catch



# Blacktip Shark Harvest

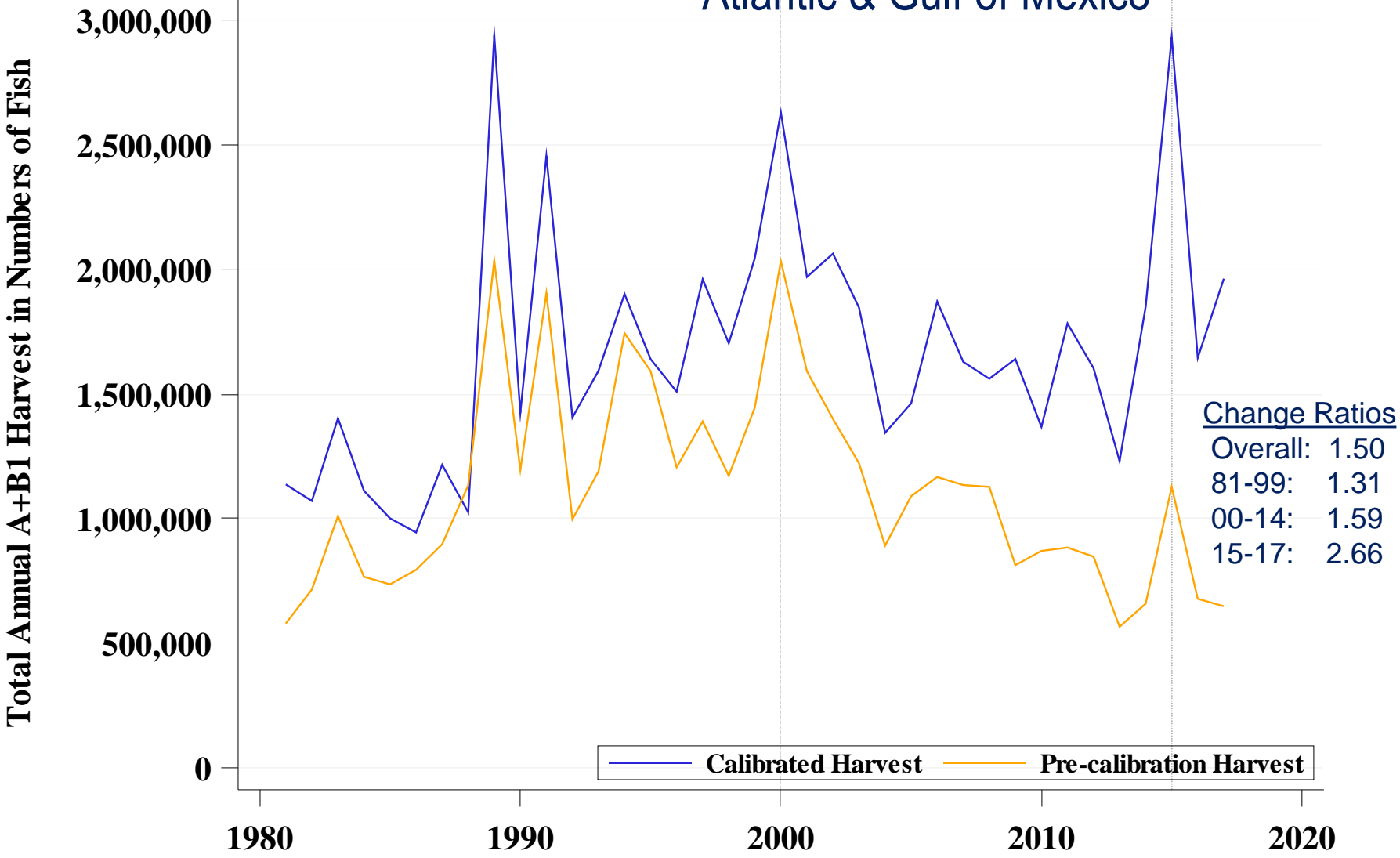


# Blacktip Shark Total Catch



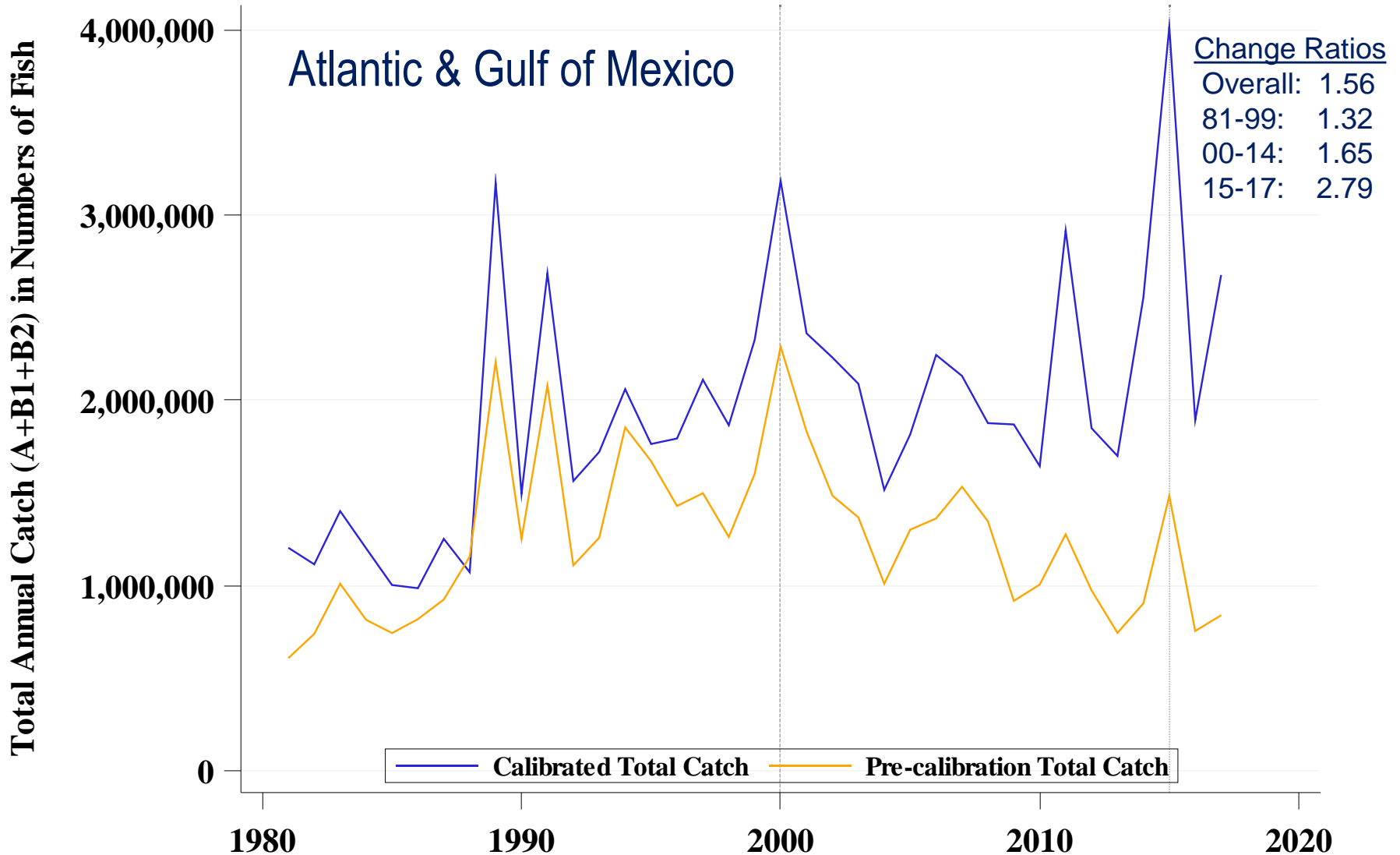
# Mahi Mahi Harvest

Atlantic & Gulf of Mexico





# Mahi Mahi Total Catch



# Impacts on Recreational Fishing

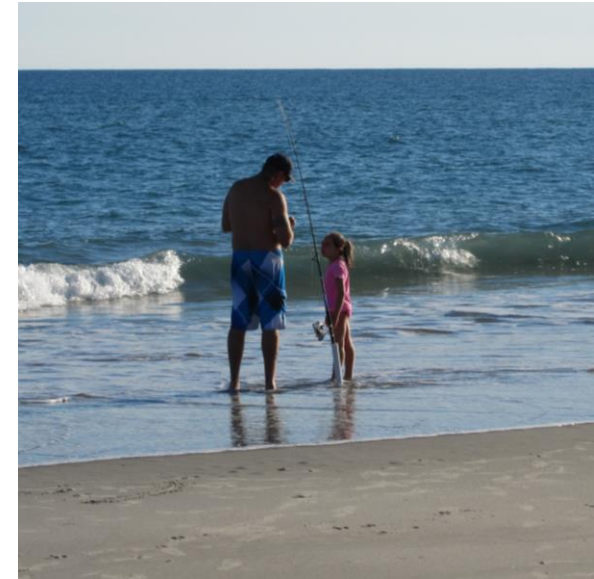


# Stock Assessment Schedule

Species	Region	Type	Timing
Striped Bass	Atlantic Coast	Benchmark	Fall 2018
Summer Flounder	Mid-Atlantic Coast	Benchmark	Fall 2018
Blacktip Shark	Gulf of Mexico	Full Update	Fall 2018
Red Snapper	Gulf of Mexico	Data Update	Fall 2018
Black Sea Bass	Mid-Atlantic Coast	Operational	Early 2019
Bluefish	Atlantic Coast	Operational	Early 2019
Red Porgy	Southern Atlantic Coast	Full Update	May 2019
Greater Amberjack	Southern Atlantic Coast	Full Update	May 2019
Red Grouper	Gulf of Mexico	Full Update	July 2019
Gray Triggerfish	Gulf of Mexico	Full Update	Aug. 2019
Atlantic Cod	Gulf of Maine	Operational	Fall 2019
Yellowtail Snapper	Southern Atlantic Coast/Gulf of Mexico	Benchmark	Nov. 2019
Red Snapper	South Atlantic	Full Update	2020
Blacktip Shark	Atlantic Coast	Benchmark	2020

# Key Takeaways

- We see a substantial increase in effort, especially in the shore mode.
- Those stocks that have high proportion of catch from shore are more heavily impacted.
- The changes in effort are generally larger in more recent years, mostly driven by the “wireless” effect.
- 2018 catch will be back-calibrated to ensure ACLs and catch are in the same “currency.”
- Stock assessments incorporating this new data will be used to determine stock status and ACLs.



# What's Next

**2018**

- Revised total catch estimates now available for use in planned stock assessments.
- 2018 ACLs and catch estimates will be in the **same “currency.”**

**2019**

- Preliminary management changes may be made for re-assessed stocks.
- Calibrated statistics incorporated into additional stock assessments.

**2020**

- Based on new stock assessments, management changes could occur for a number of species.

# Upcoming Presentations



## September 20

- South Atlantic Fishery Management Council



## September 24

- New York State Department of Environmental Conservation, Division of Marine Resources, Marine Resources Advisory Council



New England  
Fishery Management  
Council

## September 26

- New England Fishery Management Council

# Scheduling Underway



## October 2-4

- Gulf of Mexico Fishery Management Council Scientific & Statistical Committee



## October 15-18

- Gulf States Marine Fisheries Commission



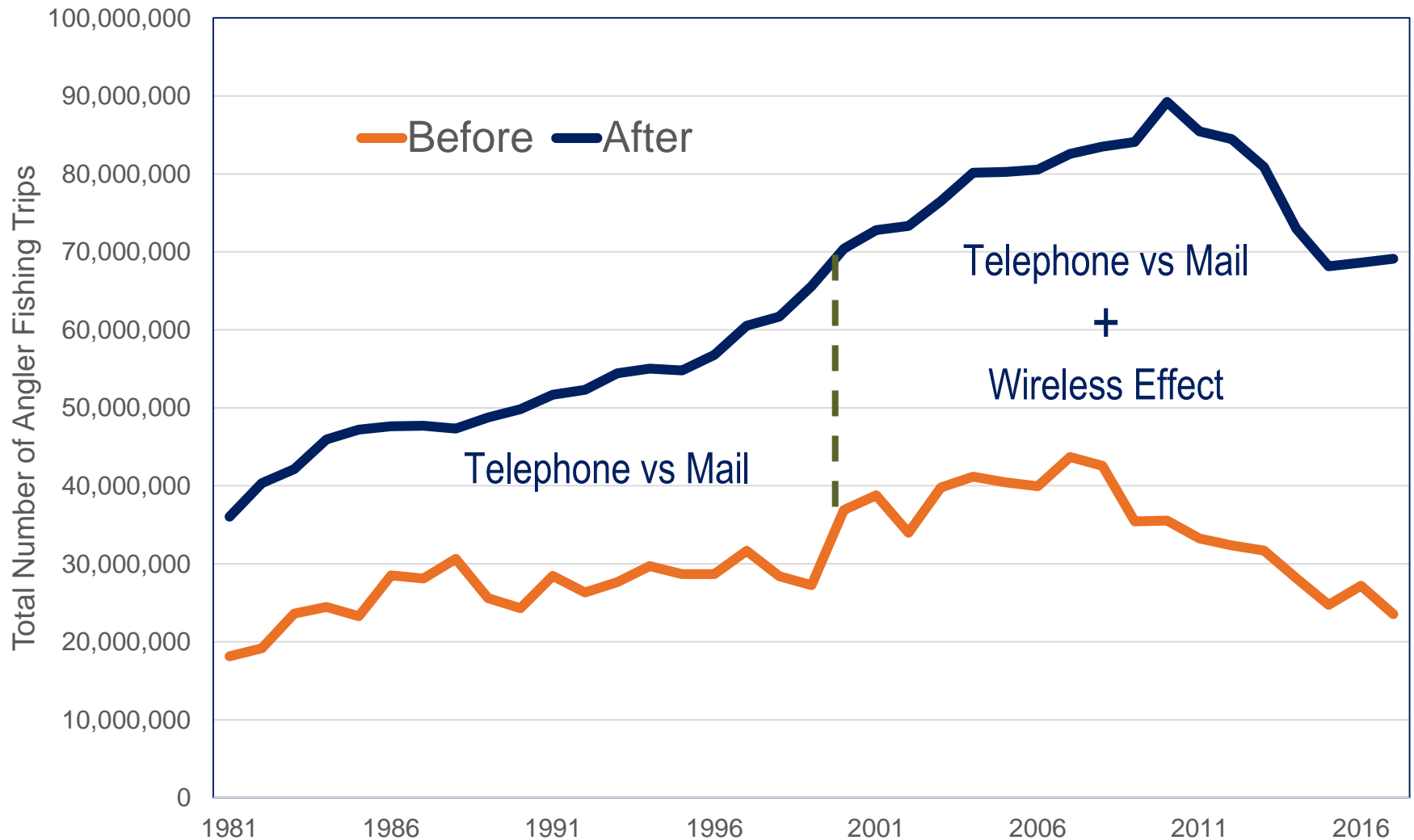
## October 22-25

- Gulf of Mexico Fishery Management Council





# Private Boat Effort - Atlantic & Gulf of Mexico



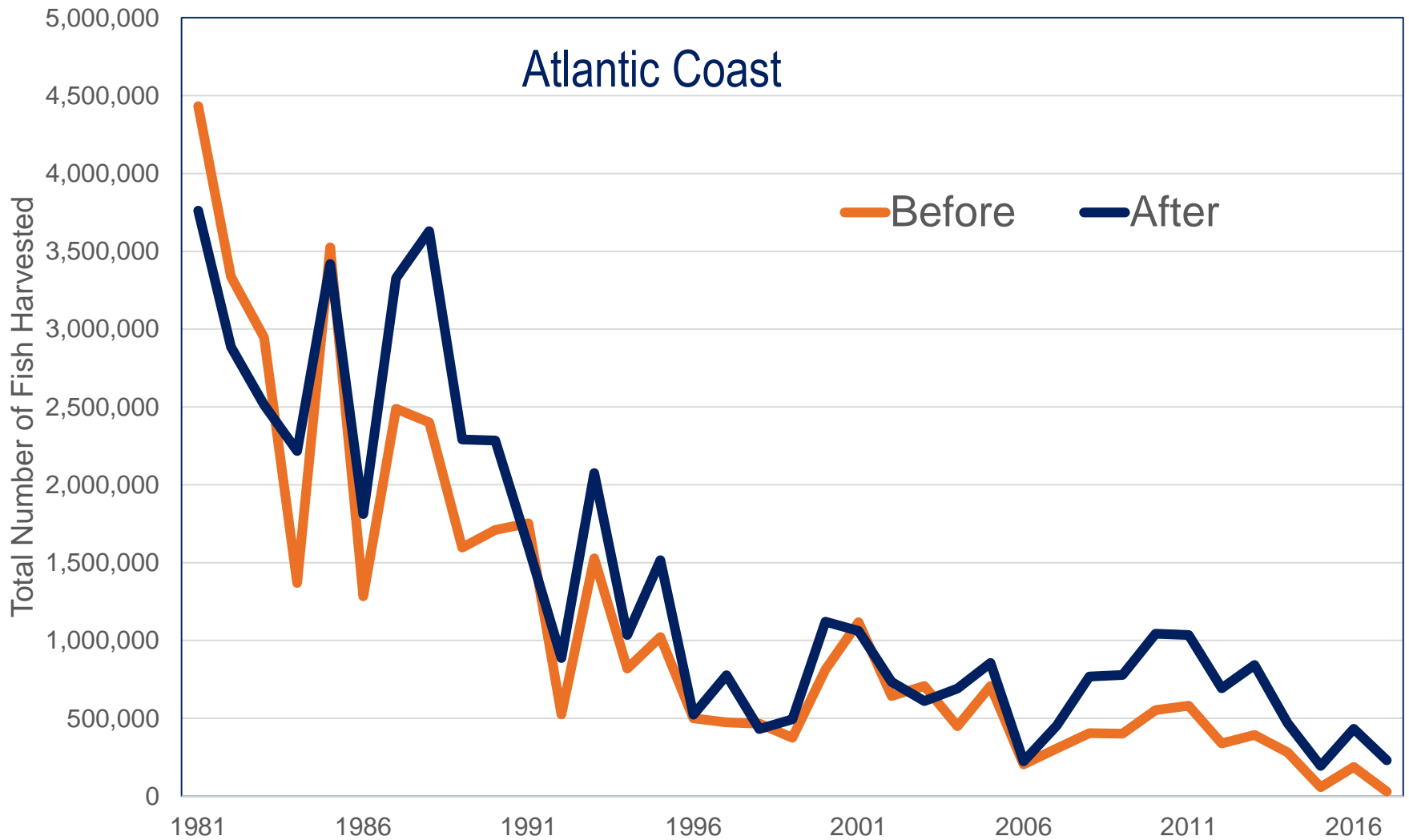
# Private Boat Effort – Change Ratios

	Overall	1981-1999	2000-2014	2015-2017
Atlantic Coast	2.03	1.78	2.15	2.85
New England	1.83	1.65	1.92	2.34
Mid-Atlantic	1.98	1.71	2.13	2.91
South Atlantic	2.18	1.92	2.29	3.00

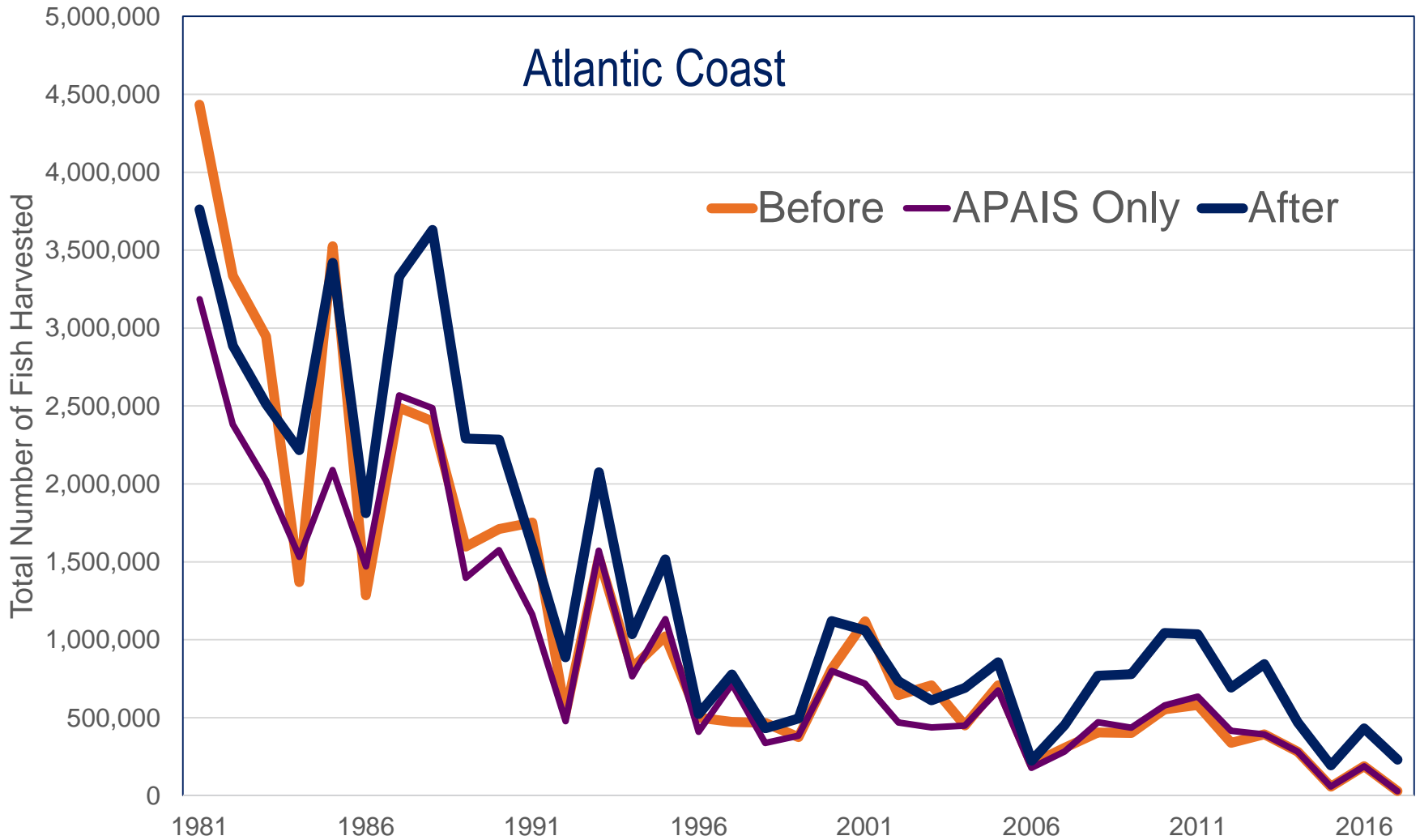
# Shore Effort – Change Ratios

	Overall	1981-1999	2000-2014	2015-2017
Atlantic Coast	4.55	4.34	4.57	5.75
New England	3.91	3.72	4.00	4.61
Mid-Atlantic	3.80	3.37	3.98	5.33
South Atlantic	5.24	5.13	5.18	6.30

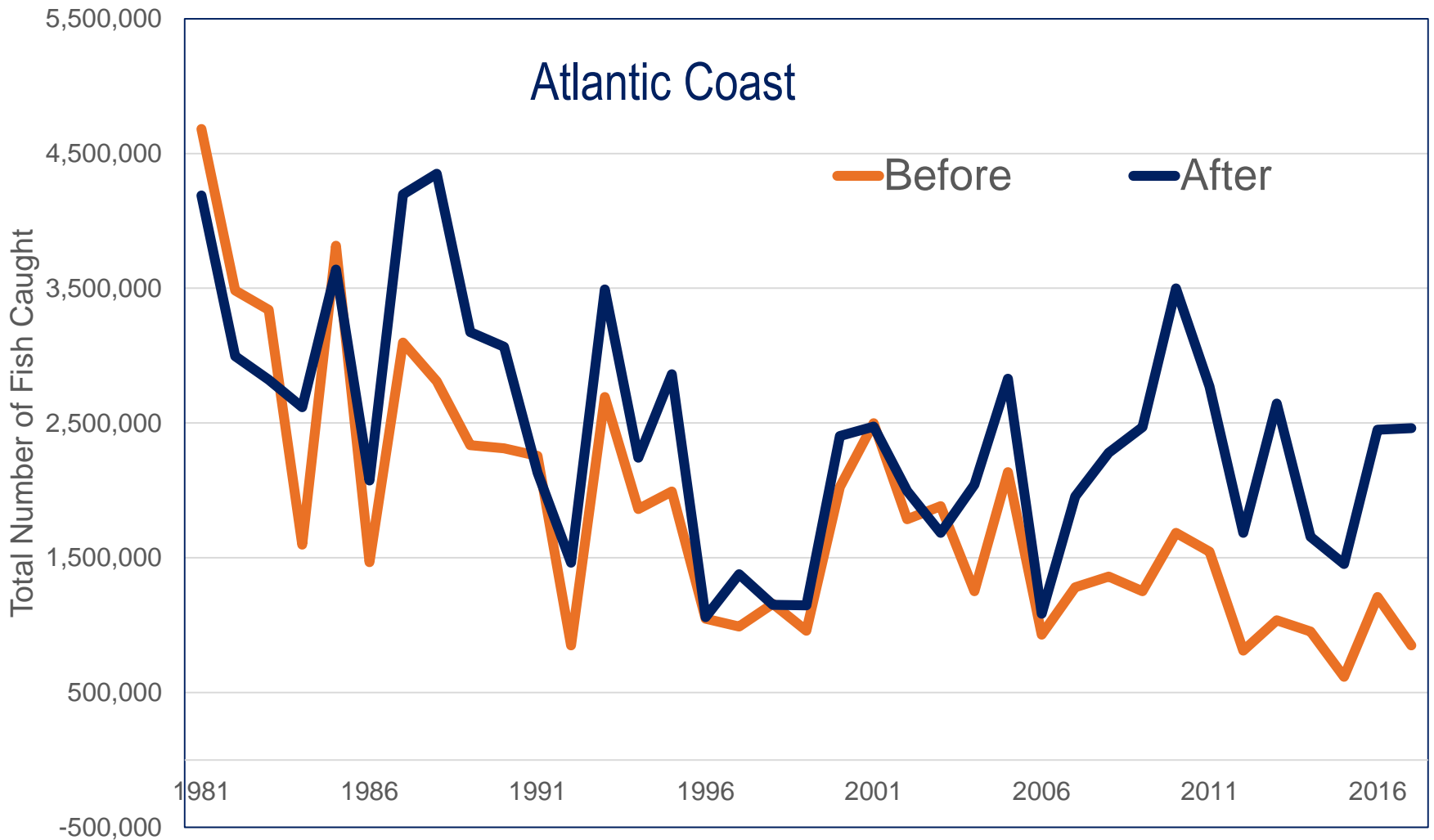
# Atlantic Cod Harvest



# Atlantic Cod Harvest



# Atlantic Cod Total Catch



# Atlantic Cod Total Catch

