

Program Activities



CitSci Advisory Groups



CitSci Project Idea Portal



SMILE Project Update



SAFMC Release Update & Annual Data Summary



FISHstory: Pilot Project Results & Gathering New Photos

Citizen Science Advisory Panels

 Participants members of the <u>CitSci Pool</u> and/or be a member of another Council AP



Operations Committee

Programmatic guidance
3-5 year terms
Meet 2 times per year
Appointments will be made in
Dec 2023



Projects Advisory Committee

Research priorities, volunteer engagement, etc.

Members of other Council APs
Term dependent on AP tenure
Meet 1 time per year



Ad-hoc Committees

Typically serve as review for program components

Currently no active ad-hoc committees

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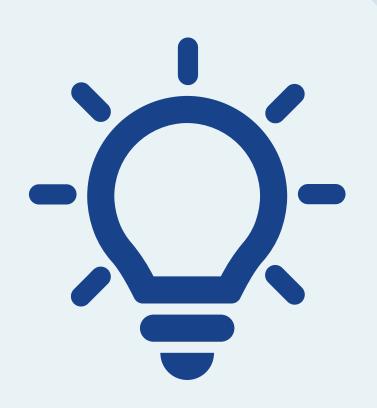
Term dependent on AP tenure

Meet 1 time per year



Current DW AP representation

Jon Reynolds
Others?



Citizen Science Project Idea Portal

- Goal: Develop online form to gather citizen science project ideas from stakeholders
- How will the information be used?
 - Ideas reviewed by Program in May and Oct
 - Compile & consider when citizen science research priorities updated
 - Help connect fishermen and scientists with similar research interests

SMILE Pilot Project

 Partnering with recreational divers to collect length information on data limited species

• Laser mounted Olympus underwater camera

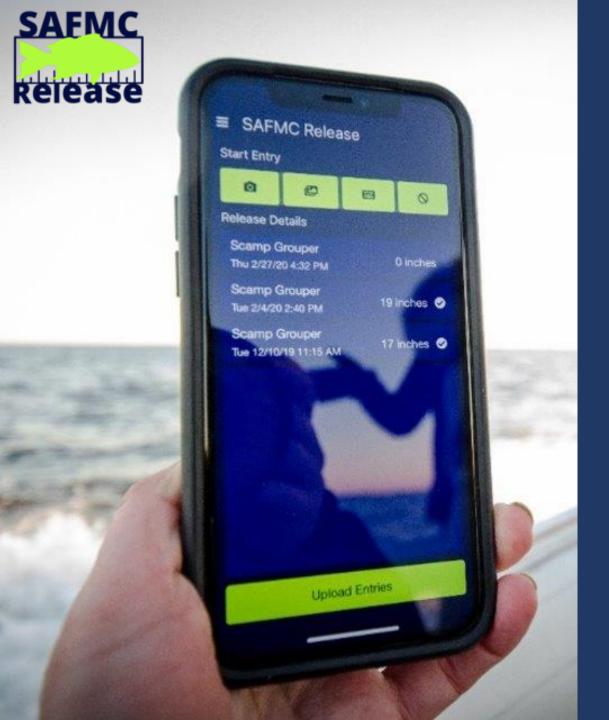
 Field tested in FL Keys – Aug/Sept 2023











SAFMC Release



Scamp Snapper Graysby Yellow-Black mouth Gag Rock Yellowfin Hind Red Hind Coney Red

Updates

Participants recording released shallow water grouper and Red Snapper in SciFish app

Continued outreach, including collaboration with Best Fishing Practices initiative

Participant Recognition Program (PRP)

Annual Data Summary

Outreach





- FWC email
- BFP (e.g., Pitman Creek mailings)
- Articles



Social media

Instagram,
Facebook,
Twitter,
LinkedIn



Tackle shop visits

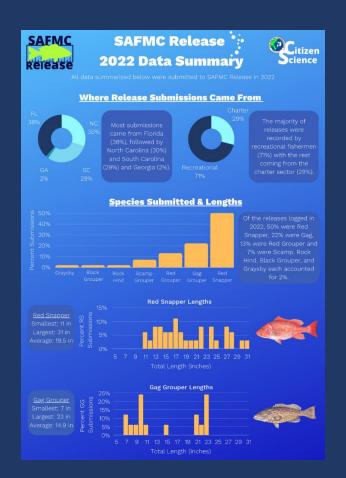
• Each state at least 2x

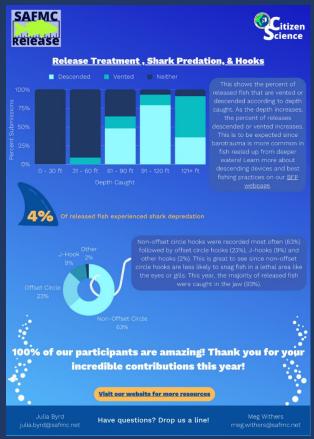


Seminars & Events

- Haddrell's Fishing Expo
- SCDNR Open House
- ICAST
- JOSFC

2022 Data Summary





Summary includes:

- Release submissions by state & fishing sector
- Species submitted
- Length compositions
- Release treatment by depth
- Shark depredation
- Hook type & location



FISHstory





FISHstory Project Components



Digitize & archive historic photos



Over 1,374 photos digitized & archived



For-hire catch composition in Zooniverse



Over 2,120 volunteers made 35,740 classifications Validation Team reviewed 180 photos



Method to estimate length



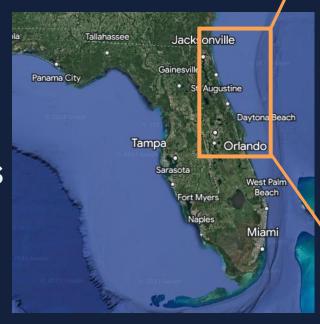
All 1,374 photos reviewed for King Mackerel

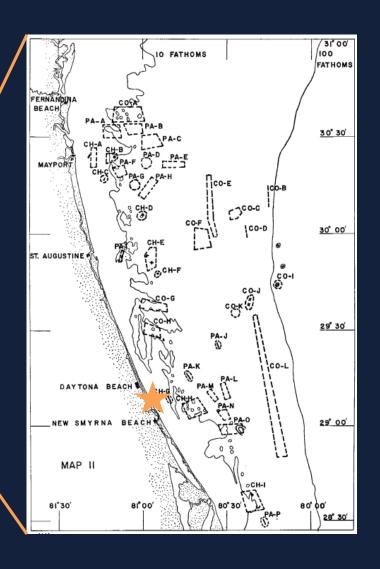
Historical Photo Overview

Photo Location: Daytona Beach, FL

Photos from fishing trips departing from:

Inlet Harbor & Timmons
Fish Camp



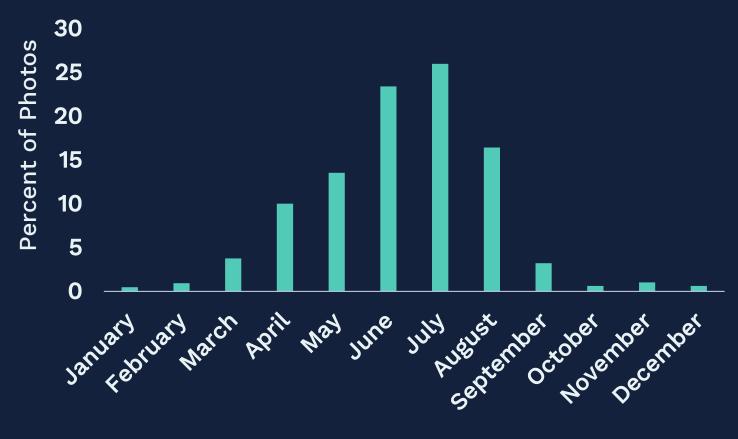


Moe, M. A. (1963). A Survey of Offshore Fishing in Florida (Rep. No. Four).

Historical Photo Overview

Percentage of photos by decade Photo range: 1949 - 1975 Percentage of photos by month





Historical Photo Overview

88% of photos from 5 vessels











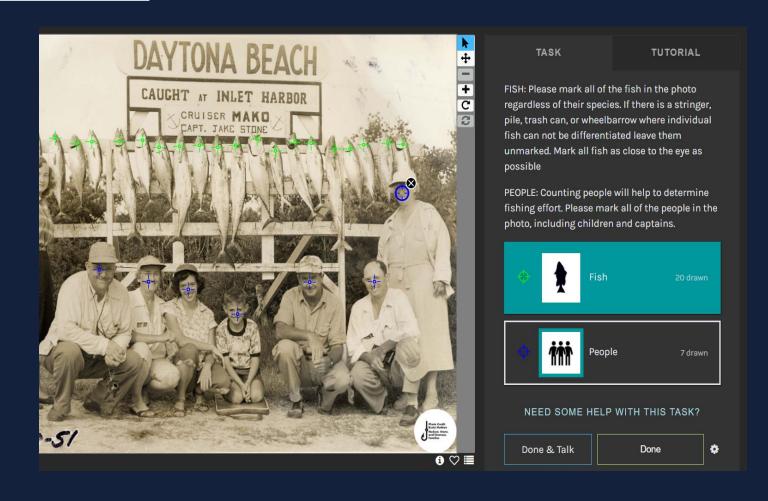




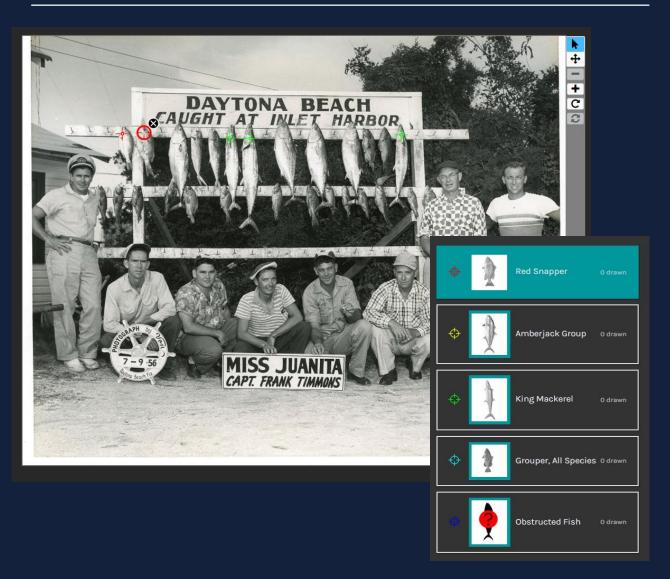
Zooniverse Workflows

FISH & PEOPLE: Count

- Count the total number of fish and people in the photos
- 10 volunteers per photo
- No Validation Team Review
- 1,374 photos complete



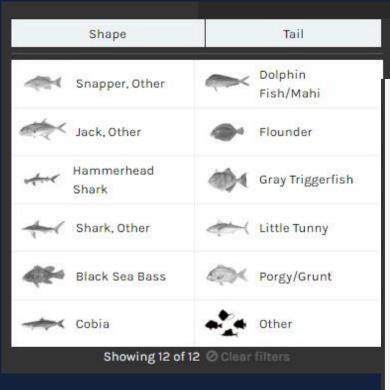
Zooniverse Workflows

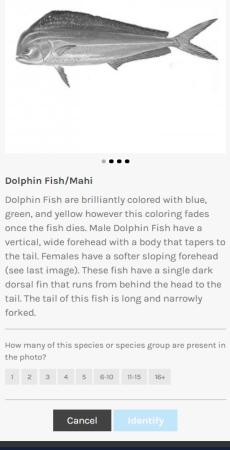


FISH: Classify

- Identify fish into 16 species or species groups
- Document obstructed fish
- Tiered data collection via two tasks
- 20 volunteers per photo
- Validation Team review when substantial disagreement
- 1,000 photos complete

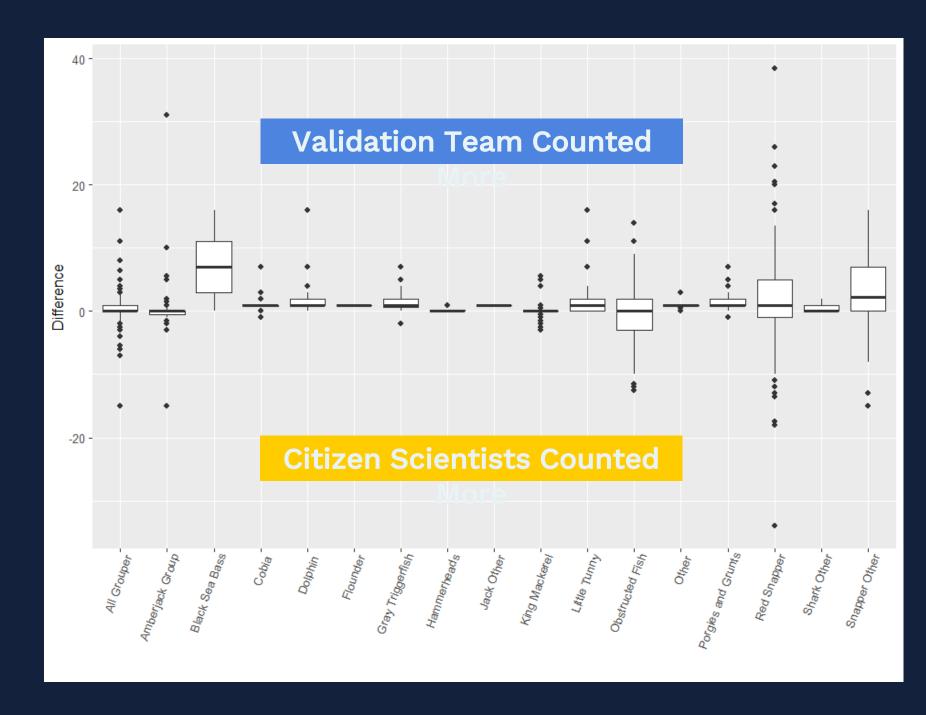
Zooniverse Workflows

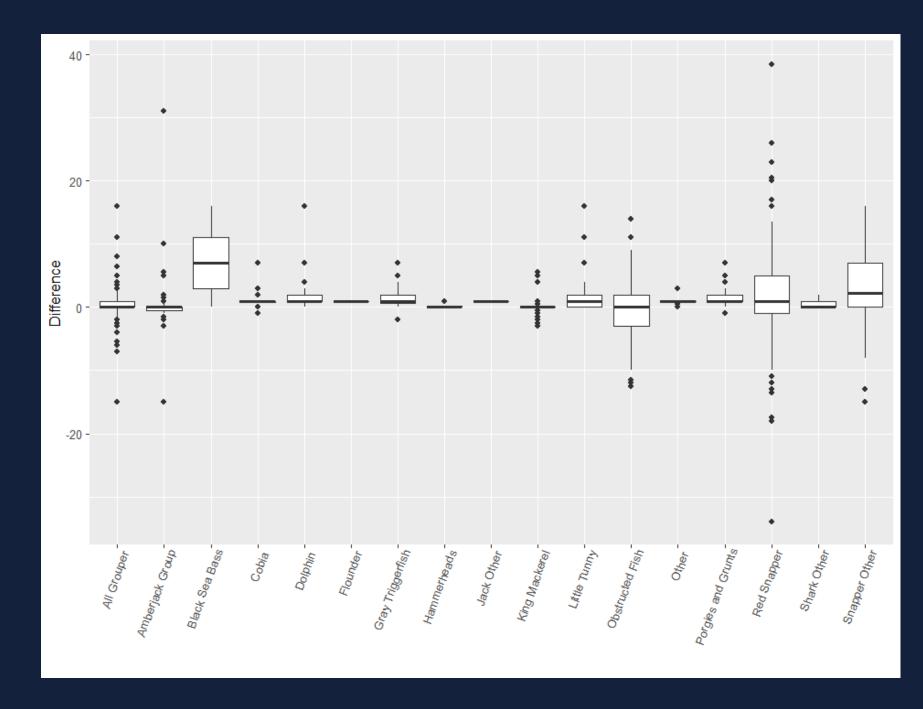


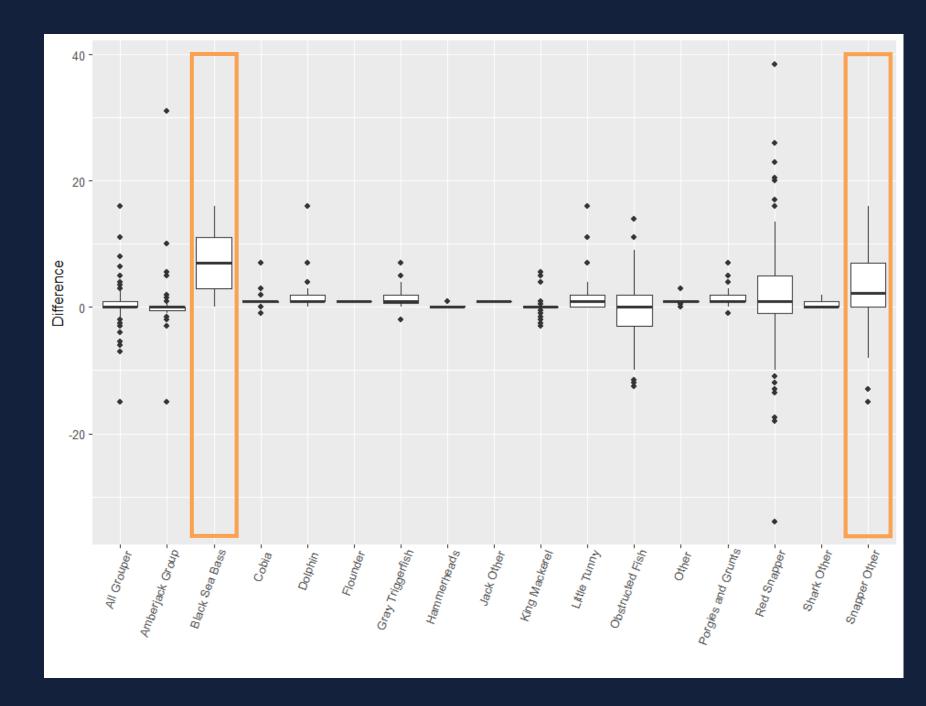


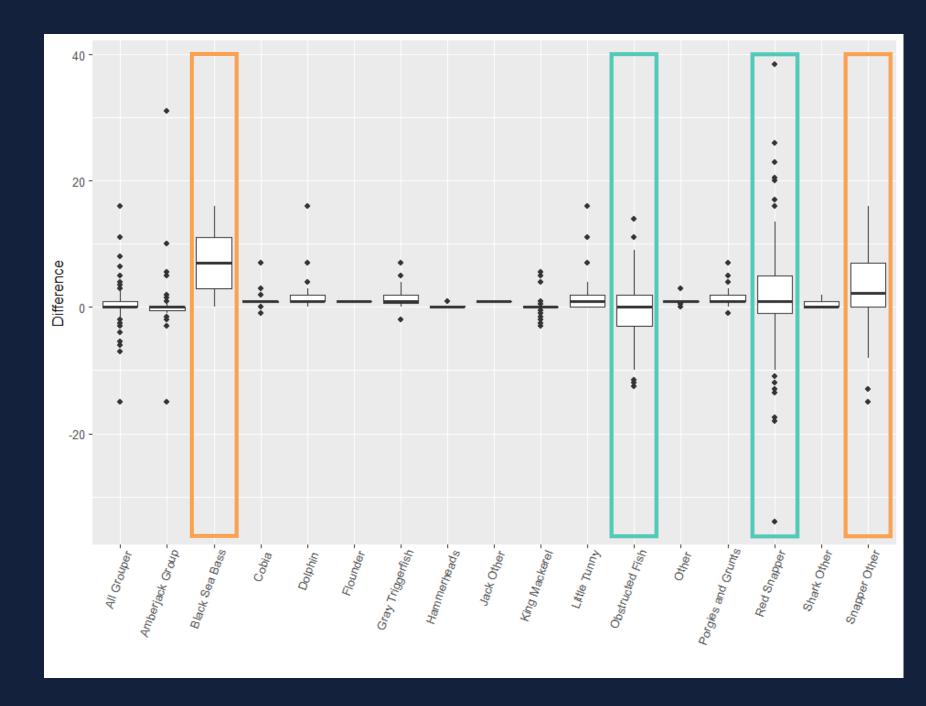
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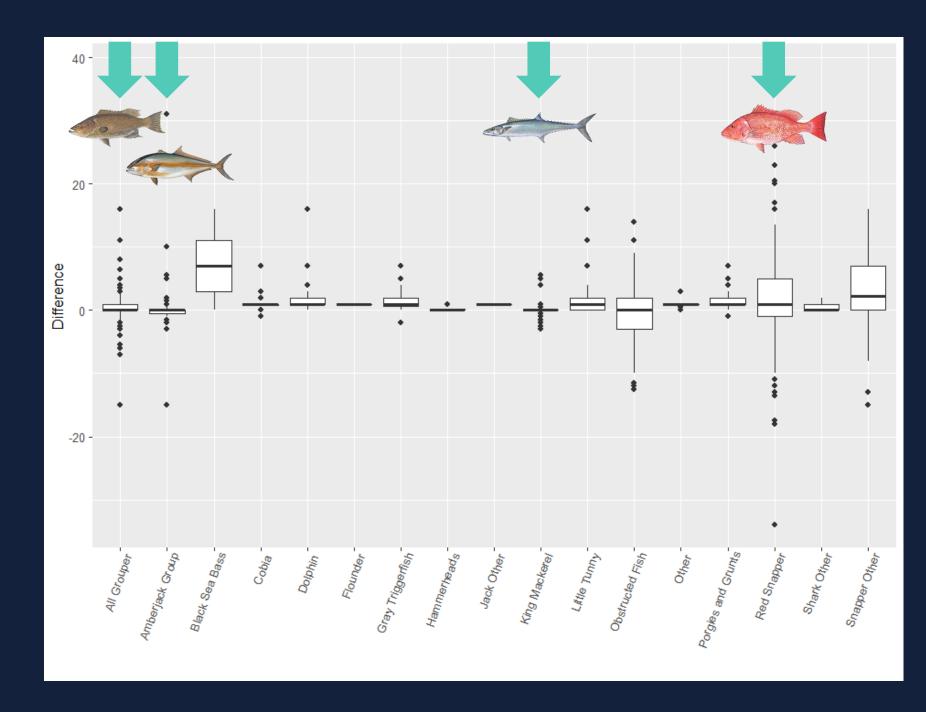
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FISHstory: Length Component

Method developed to measure fish length



Identify scalar & develop protocol



Test protocol



Train length analysts

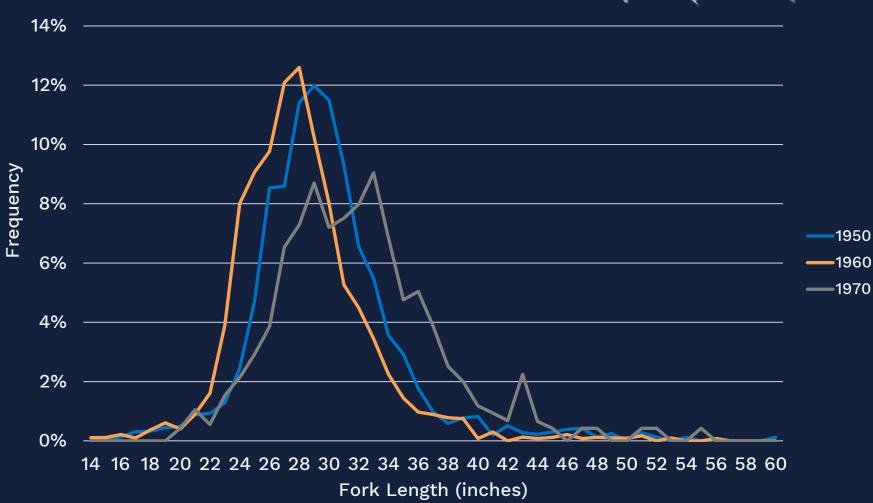




Share Results



King
Mackerel
length
compositions
by decade



Key Takeaways

- Methods developed for historic photos show promise
- Volunteers can make valuable contributions
- But identifying fish in historic photos is challenging
- Simplifying data collection can improve data quality
- Work done in pilot will make project more efficient moving forward
- Fishermen interested in sharing historic photos & stories

Next Steps

Move from pilot to full scale project



Funding to grow project



Expand geographic & temporal range of photos



Improve efficiency of processes



Estimate
length
compositions
for more
species

FISHstory Scanning Events

- Goal: Collect historic fishing photos from across the South Atlantic region from the 1940s 1980s for the FISHstory project
- Host in collaboration with upcoming Council & Advisory Panel meetings
- September Council meeting
- Outreach & Communication AP meeting
- Fall Snapper Grouper AP meeting
 Dolphin Wahoo AP meeting
 Mackerel Cobia AP meeting
 December Council meetings

FISHstory Scanning Events



Bring hard copy photos or digital photos to the event



Scan hard copy photos



Save digital photos



Collect photo details



Share digital copies of photos with provider

FISHstory: Photos for Analyses

Photo Description	Good	Better
Photo Type	Picture taken at the end of a trip displaying harvested catch with anglers	Fish hanging on leaderboard
Photo Date	Year	Month & Day
Photo Location	State	City & Dock
Photo Background	Photo provider name & contact	Vessel name & captain name



Picture taken at end of trip displaying harvest with anglers

Year

State

Photo provider name & contact

Better

Fish hanging on leaderboard

Month

City & dock



Picture taken at end of trip displaying harvest with anglers

Year

State

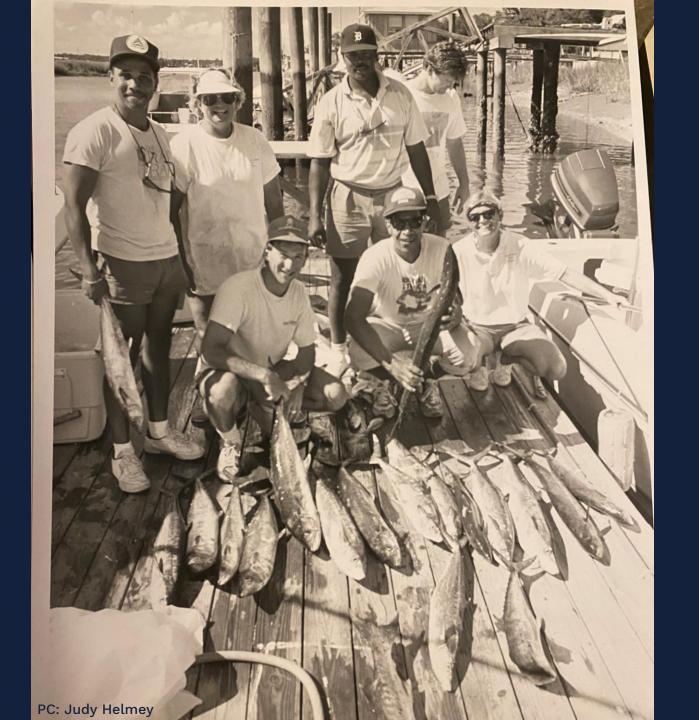
Photo provider name & contact

Better

Fish hanging on leaderboard

Month

City & dock



Picture taken at end of trip displaying harvest with anglers

Year

State

Photo provider name & contact

Better

Fish hanging on leaderboard

Month

City & dock



Picture taken at end of trip displaying harvest with anglers

Year

State

Photo provider name & contact

Better

Fish hanging on leaderboard

Month

City & dock

Exploring other avenues to gather historic photos







HISTORICAL SOCIETIES AND ORGANIZATIONS

LIBRARIES

RESTAURANTS

Discussion Questions

- Have historic photos? Visit the FISHstory table!
- We are exploring holding scanning events outside of Council related meetings. Do you have suggestions on where (cities, venues) we could hold events?
- What other avenues should the Council explore to gather additional historic photos?
- Are there individuals or organizations in your area that may be good contacts to gather historic fishing photos?

Keep Up with Projects & the Program!

http://safmc.net/citizen-science-program/



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