

Program Activities



CitSci Program Overview



CitSci Research Priorities



CitSci Project Idea Portal



CitSci Projects



CitSci Science Advisory Panels

Citizen Science Program

Why Citizen Science?

- Long standing data needs
- Fishermen want to help
- Citizen science provides the opportunity

Program Development

- 2016 workshop & blueprint
- Stakeholder Action Teams
- Program approach & SOPPS



Advancing science and increasing trust, one project at a time

SAFMC Citizen Science Program Approach

- Fill data gaps & address research needs
- Complement existing programs & partnerships – NOT compete or replace
- Intentional project design direct application/use in management and stock assessments
- Fishermen & Scientist collaboration
- Umbrella to support projects internal & external

SAFMC Citizen Science Research Priorities

2023-2025



	Topic	Data Needed	Potential Outcome
	Age Sampling	Otolith & fin clip (future) collection	Characterize the age of catches
	Discard Information	Length, depth, quantity, discard reason, devices used, terminal gear, disposition	Characterize the size of discards, Improved discard removal estimates
	Genetic Sampling	Fin clips	Stock identification, Species ID, Ageing (still developing)
	Fishing Infrastructure	GPS location and details of fishing- related infrastructure	Baseline for fishing-related infrastructure, help better define communities for social analysis
	Historical Fishing Photos	Digitized images	Species and length compositions, improved historical information
	Fishery Oral Histories & Historic Logbooks	Fishermen interviews, digitized logbooks	Improved understanding of changes in fishery over time
	Oceanographic & Environmental Conditions	Various environmental data including bottom temperature and weather	Database of climate and changing conditions, fishery patterns
	Shifting, Rare or Data Limited Species Observations	Point observations of data limited or rarely encountered species; length info for data limited species	Baseline for species shift, increased information for data limited species
	Observations in Managed Areas	Species, length, depth, videos, photos, effort, edge effects	Species composition, occurrence of spawning, info on compliance
	Movement & Migration	Species, location, length, tag details, supporting existing tagging programs	Movement and migratory patterns
	Shark & Mammal Depredation	Observations of depredation, location, species, photo, DNA swab	Document depredation observations
	Habitat Characterization	Photos, videos - focused on EFH	Ground truth bathymetry data
	Spiny Lobster Data	Catch, effort, length, sex, presence of eggs, presence/absence	Characterize fishery in FL and GA north (more data limited)







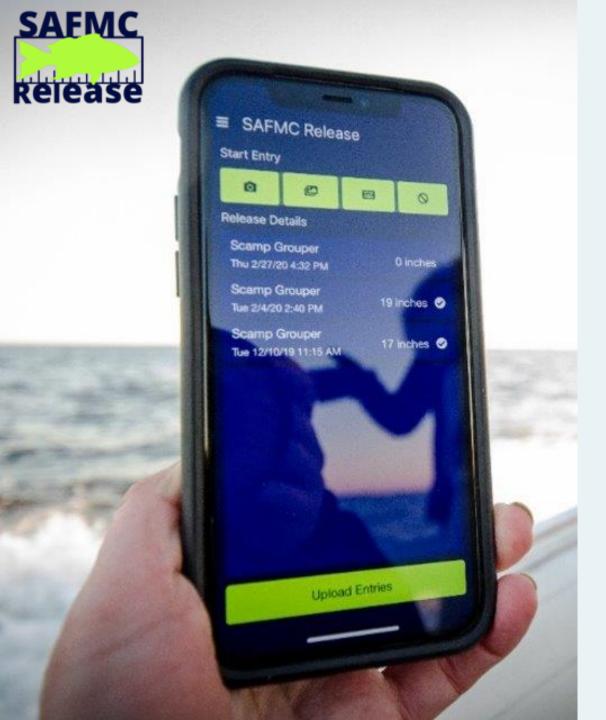
SMILE Project

- Partner with divers to collect length info on data limited species
- Laser-mounted Olympus underwater cameras
- Field testing in FL Keys
- Data analysis underway for first field season







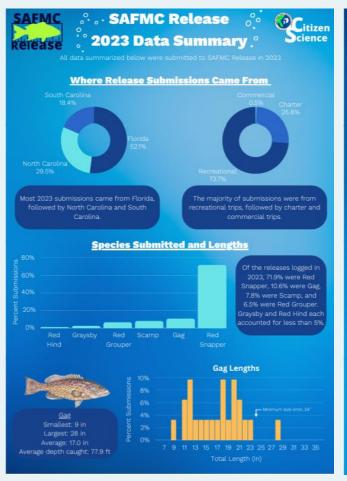


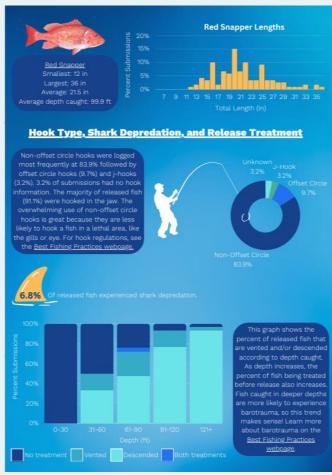
SAFMC Release





2023 Data Summary





Summary includes:

- Release submissions by state & fishing sector
- Species submitted
- Length compositions
- Release treatment by depth
- Shark depredation
- Hook type & location
- 2023 Participant Recognition Milestones





FISHstory



Project Components



Digitizing & archiving historic fishing photos



Estimating for-hire catch composition using the online crowdsourcing platform Zooniverse



Developing method to estimate fish length in historic photos and estimating size composition for key species

Pilot Project Findings



1,374 photos were digitized & archived from Daytona Beach, FL from the 1940s-1970s



Over 2,120 volunteers analyzed 1,000 photos Validation Team reviewed 180 photos Data can show trend for key species



All King Mackerel were measured in the photo archive Length compositions were produced



Gathering New Photos

 Goal: Collect historic fishing photos from across the South Atlantic region from the 1940s – 1980s for the FISHstory project



In 2023, 6 scanning events were held via Council related meetings



AP & Council members helped connect us to others in their communities



Members of the public reached out after seeing information via Council communication channels

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



Good

Picture taken at end of trip displaying harvest with anglers

Year

State

Photo provider name & contact

Better

Fish hanging on leaderboard

Month

City & dock

Vessel name & captain name



Good

Picture taken at end of trip displaying harvest with anglers

Year

State

Photo provider name & contact

Better

Fish hanging on leaderboard

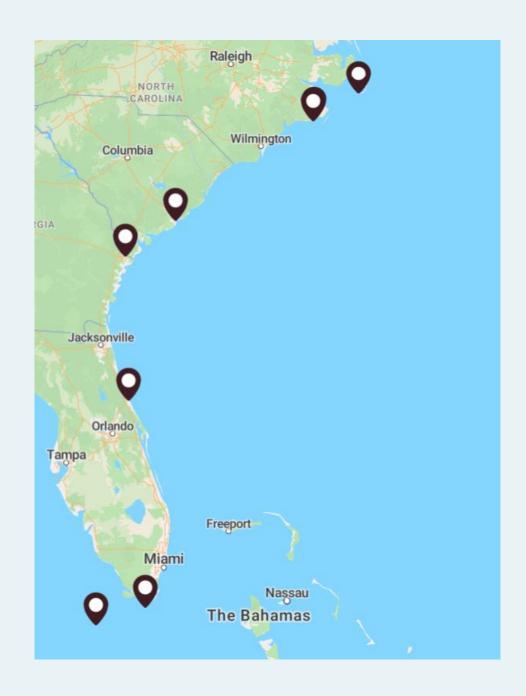
Month

City & dock

Vessel name & captain name



FISHstory Photo Locations





Share a project idea via the Citizen Science Project Idea Portal!



Ideas will be used to update the Citizen Science Research Priorities & to help connect fishermen and scientists with similar research interests

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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Need Shrimp AP representatives!

