

# Program Activities



CitSci Research Priorities



CitSci Project Idea Portal



Project Updates



SciFish Platform



Citizen Science Advisory Panels



### Cit Sci Research Priorities



Guide the projects the Program develops and supports



Narrow focus from many data needs to tangible ideas important to South Atlantic fishermen, scientists, managers



Share with other groups interested in developing or collaborating on citsci projects

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
1	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)



### 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







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











FISHstory





# 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



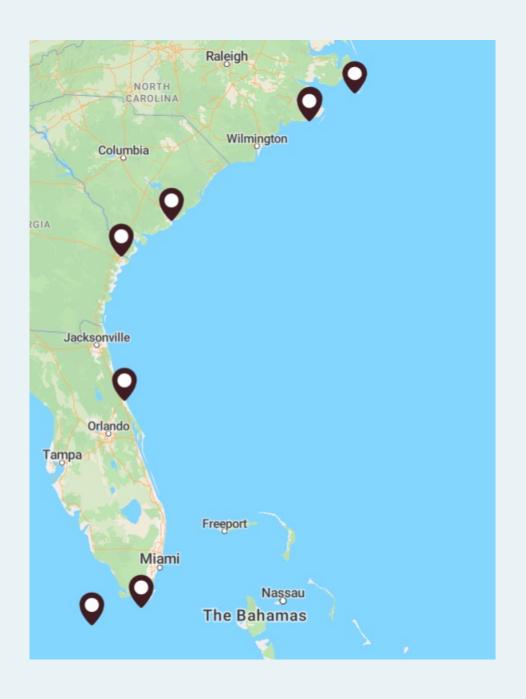
AP & Council members helped connect us to others in their communities



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



### FISHstory Photo Locations



# 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

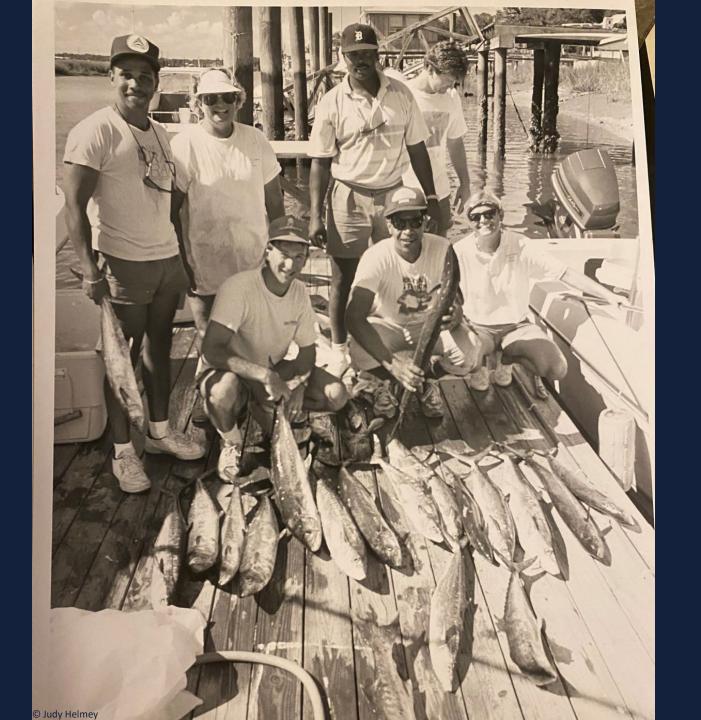
#### **Better**

Fish hanging on leaderboard

Month

City & dock

Vessel name & captain name



#### Good

Picture taken at end of trip displaying harvest with anglers

Year

State

Photo provider name & contact

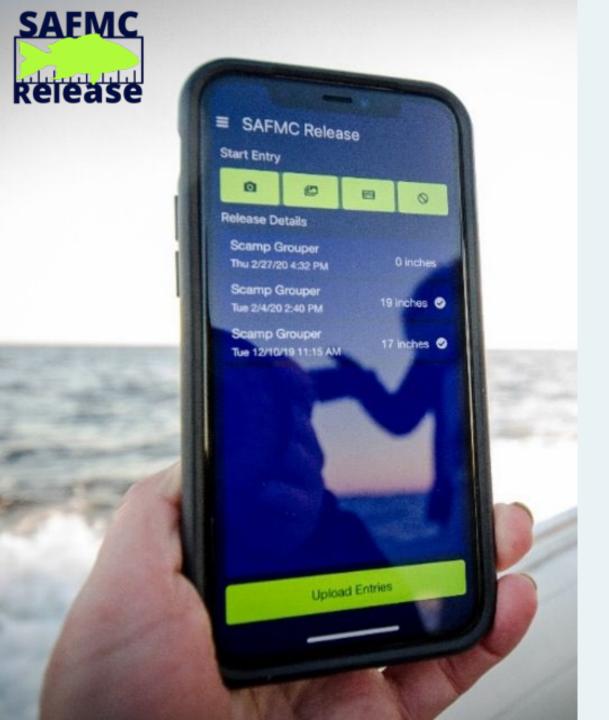
#### Better

Fish hanging on leaderboard

Month

City & dock

Vessel name & captain name

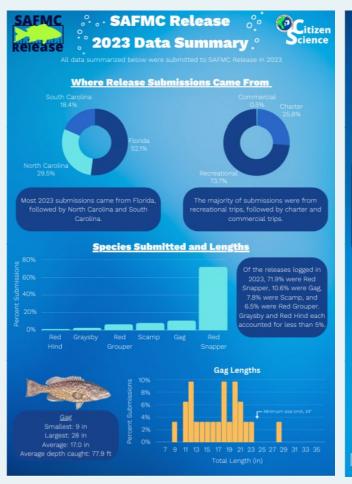


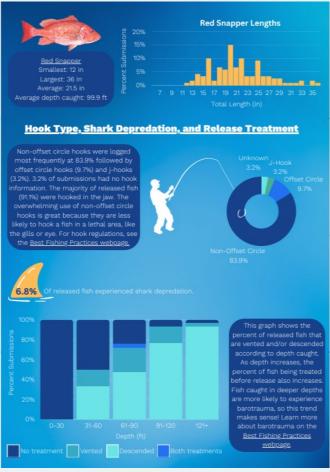
# SAFMC Release





# 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



### SciFish Platform

https://www.accsp.org/what-we-do/scifish/



### SciFish Platform

#### Develop for ACCSP partners:



- citizen science mobile application and
- menu-driven project builder interface to
- easily create a customizable application by selecting specific data fields
- without need to develop stand-alone applications for each new project or data need









# SciFish Development Drivers



Reduce costs needed to develop individual applications



Reduce time to create applications from ground up



Increase consistency in data fields and structure



### SciFish Administration & Oversight



Administration through ACCSP

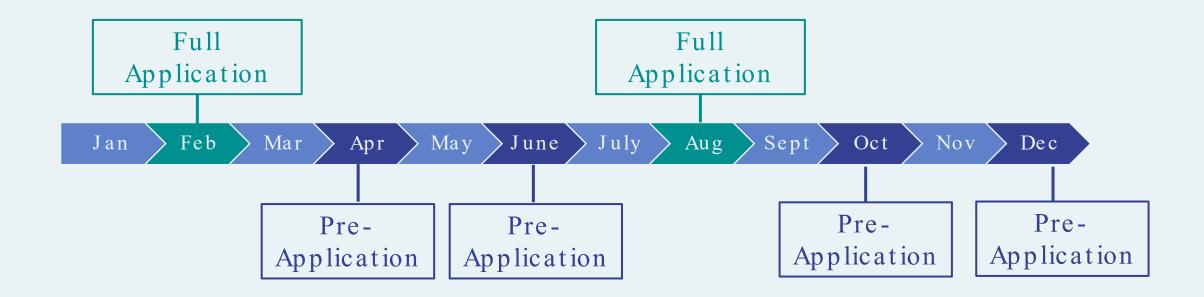


Primary oversight by: SciFish Advisory Panel (SAP)



## SciFish Project Development

Multi-step Application Process\*

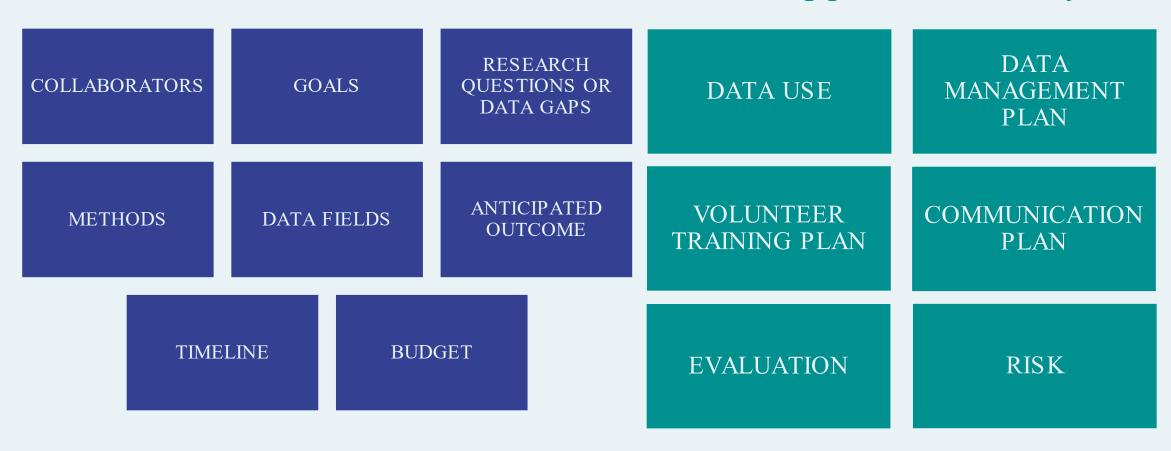


<sup>\*</sup>Projects must have ACCSP partner as PI or be sponsored by an ACCSP partner



# SciFish Application Topics

#### Full Application Only





### SciFish Application Review Criteria

#### Pre-Application

#### Full Application

INCLUDES ALL REQUIRED SECTIONS

ADDRESSES DATA GAP FOR ASSESSMENT AND/OR MANAGEMENT ANTICIPATED DATA
USE & OUTCOMES OF
VALUE TO PARTNERS /
INDUSTRY

TECHNICAL MERIT/METHODOLOGY

ADDRESSES HOW DATA WILL BE USED IN ASSESSMENT AND/OR MANAGEMENT

DATA MANAGEMENT PLAN VOLUNTEER
QUALIFICATIONS &
TRAINING

PARTICIPANT ENGAGEMENT

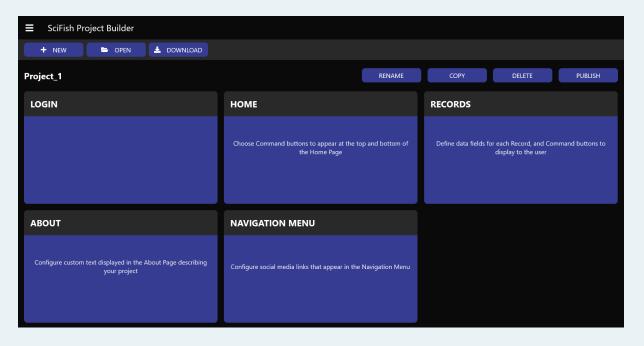
PROJECT IS A GOOD FIT FOR CITIZEN SCIENCE

**EVALUATION METRICS** 

# SciFish Platform Development







ACCSP SciFish Builder.mp4



### Building a Project in SciFish: Current Fields

Biological sample collected	Gear	Line Cut	Release Disposition
Comment	Hook location	Location	Species
Date	Hook type	Number of fish	Tim e
Depth	Hours fished	Number of people fishing	Trip type
Descending device usage	Info collected in other survey	Photo	Venting
Fish tag number	Length	Predation	
Fish tag color	Length type	Primary target species	



### SciFish: Account Creation

#### Option 1: 'Manager Approval' - currently in place

- PI's create SciFish project accounts for users
- SAFIS Account SciFish access

#### Option 2: 'Auto-Approval' – under development

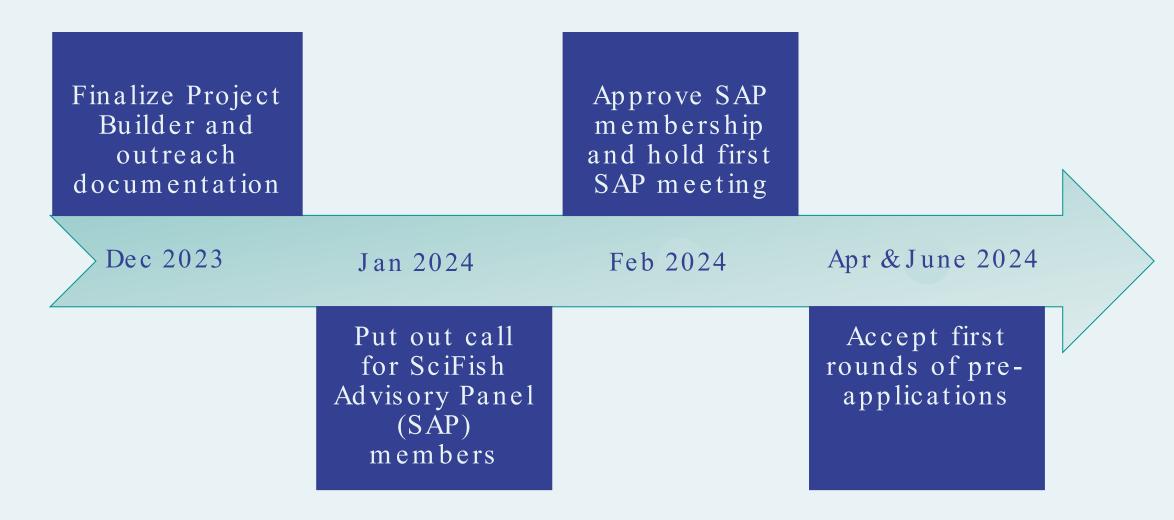
- Users create SciFish project accounts
- 'Auto-approval' Non-SAFIS account SciFish access



PI's choose an account type at the onset of a project &can't switch account types during the life of that project



# SciFish: Proposed Rollout



### 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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Current Habitat AP representation

Casey Knight

Others interested?

