



South Atlantic Fishery Management Council **Citizen Science Projects Update**



SAFMC Meeting

December 2019



Projects & Collaborations



PROJECTS IN PROGRESS:

- **Scamp Release Pilot Project** → *Discards*
- **FISHstory** → *Historic Data from Historical Fishing Photos*
- **Collaborator on TNC/GRNMS Project**

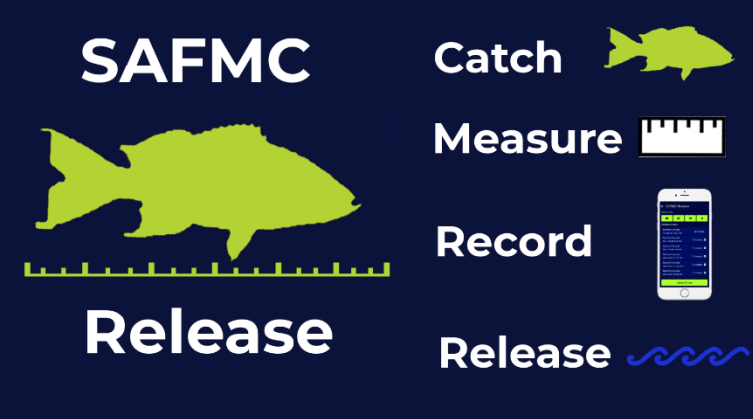
PROJECTS UNDER DEVELOPMENT:

- **Rare Species Observations**
- **Diver Observations for Data Limited Species**

ADDITIONAL COLLABORATIONS UNDER DEVELOPMENT:

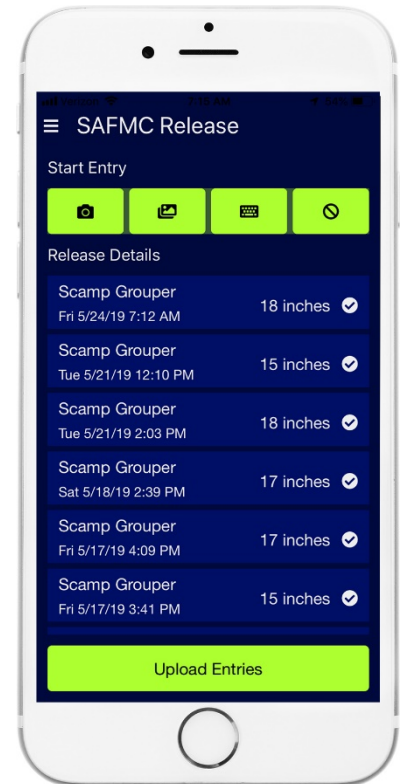
- **Participatory Workshops**
- **Shifting Species Proposal**

Photo credit: Don DeMaria



Pilot Project: *SAFMC Scamp Release*

- Collect info on scamp discards via mobile app
- App development - beta tested by fishermen & CitSci A-team members
- Relied & built on CitSci A-Team members work
- Website, training videos, quick start guide, flyer, and presentation developed
- **App launched June 20, 2019**
- Recruiting fishermen to participate
- Data collection underway



SAFMC**Release****Catch****Measure****Record****Release**

Pilot Project: *SAFMC Scamp Release*

- Project promotion - multiple avenues
- Finalizing evaluation metrics
- Additional grant proposals
- Growing interest in app
- Additional research
 - Jennifer Shirk research project...
 - Potential graduate student collaboration



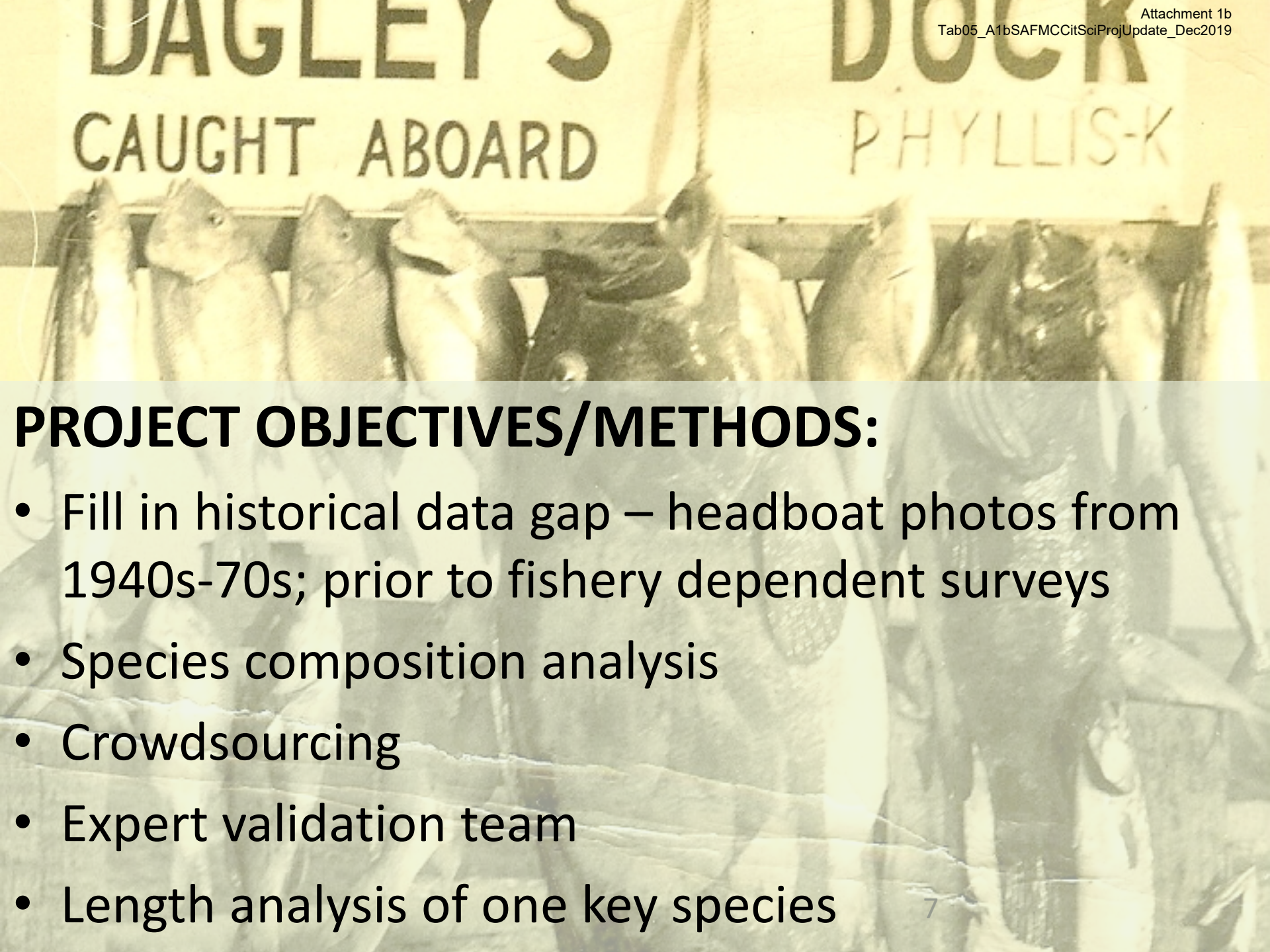
Lessons Learned...So far!

- 
- A large, spotted fish, likely a groupers, is swimming towards the right. It has a light-colored body with numerous dark spots. The background is a vibrant coral reef with various colors of coral and sea anemones.
- **Project Design & Planning Team critical**
 - **Data and science partners involved from the start**
 - **Fishermen keeping project based in reality**
 - **Experts with track record**
 - **Collective agreement on measures of success**
 - **Managing expectations**
 - **Recruitment and retention is resource intensive!**
 - **Scamp challenging pilot species**
 - **Partnerships are key!**

Photo credit: Rusty Hudson



Documenting historic catch and length estimates from historical photos in the for-hire sector using electronic data collection and imagery analysis platforms and crowdsourcing approaches.



PROJECT OBJECTIVES/METHODS:

- Fill in historical data gap – headboat photos from 1940s-70s; prior to fishery dependent surveys
- Species composition analysis
- Crowdsourcing
- Expert validation team
- Length analysis of one key species

ZOONIVERSE

Crowdsourcing Platform

- Build project online
- Develop tutorials/training
- Citizen Scientists analyze images
- Validation
- I.D. key species for length analysis

Projects

Active Paused Finished

ARTS BIOLOGY CLIMATE HISTORY LANGUAGE LITERATURE MEDICINE NATURE

Most Recently Launched Showing 1-20 of 95 projects found. Name:

0 1 2 3 4 5

BATTLING BIRDS NEBRASKA WILDLIFE WATCH THE HUNT FOR GALAXY CLUSTERS SOUTHERN WEATHER DISCOVERY MONKEY HEALTH EXPLORER

PELICAMS SUPERWASP VARIABLE STARS WILD WOLF WATCH VARIABLE STAR ZOO THE WILDS' WILDLIFE WATCH

BELUGA BITS WHERE ARE MY BODY ORGANS? SOUTH SUDAN DIVERSITYCAM 1961 CENSUS SNAPSHOT HOGE VELUWE

RAINFOREST FLOWERS THE AMERICAN SOLDIER LONDON BIRD RECORDS SPACE WARPS - HSC GALAXY BUILDER

IMAGE 'J'

- Open source image processing program

Methods:

- Establish standards
- Measure lengths

Photo credit: Rusty Hudson

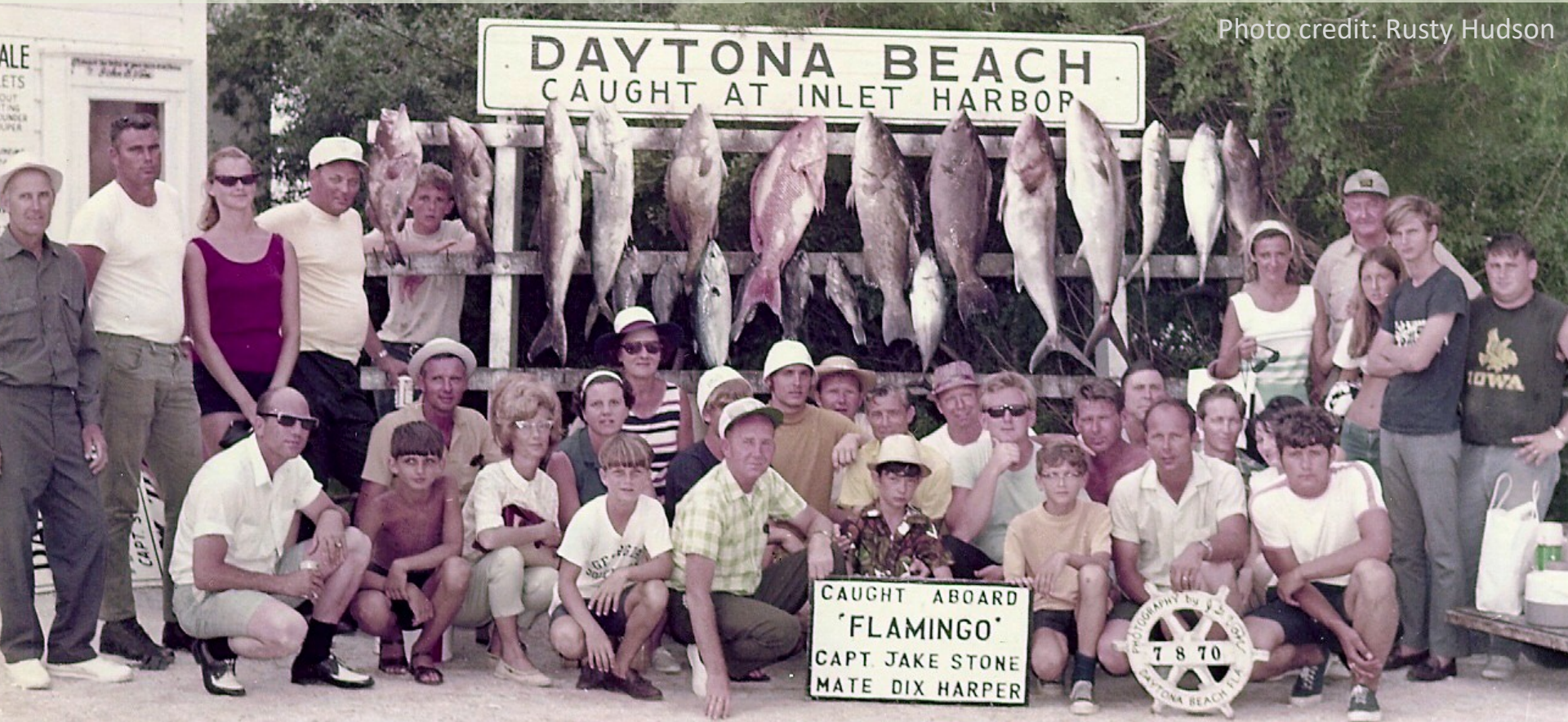




Photo credit: Rusty Hudson

- Project Coordinator, Allie Iberle, hired
- Project Design Team formed; held 4 meetings
- Zooniverse project & training materials under development
- Recruiting species ID experts for validation team; scheduling webinar training sessions

Lessons Learned....So far!



- Project Design Team essential!
- Important to have varying expertise on the Design Team
- Managing expectations
- Resource intensive
- Project Coordinator is key!

FISHstory Zooniverse Demonstration

