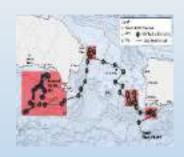
Dolphinfish Research Program

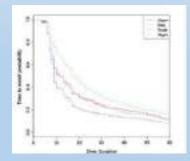




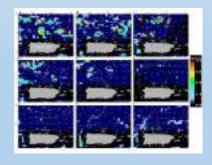
















Dr. Wessley Merten CFMC 12.5.2023

Beyond Our Shores Foundation

Dolphinfish Research Program

Newport, Rhode Island

BEYONDOURSHORES.ORG DOLPHINTAGGING.COM





- International citizen science mark and recapture program for dolphinfish
- Designed to collect data on movements, life history patterns, and population dynamics
- Started in 2002 Finishing 22nd year

35,247

Tagged







808
Recaptured



14
Publications

Total de FAD Desplegados

FADs Activo

2996

Informes

1171

Fish Tagged en FADs en el Carib

As of 12.5.2023

2 Published 1 in prep

24 Surface / 17 Subsurface

2,996 trips up to Nov 30th, 2023

35 Satellite Tag Deployments 28 DOL, 6 WAH, 1 FAL





51 Vessels Involved



Use of video monitoring to quantify spetial and trasporal patterns in fishing activity arrany section at nanted flib aggregating therees off Pareto Blow

FAD Research Program

Presentation Outline

Presentation Objective:

Provide an update of specific data collected through the DRP in the Caribbean Sea and WCA

Outline:

- 1. Case Study 1a: Commercial Catch DR (8 min)
- 2. Case Study 2: Dolphinfish Movements WCA Recap (7 min)





Case Study 1a:

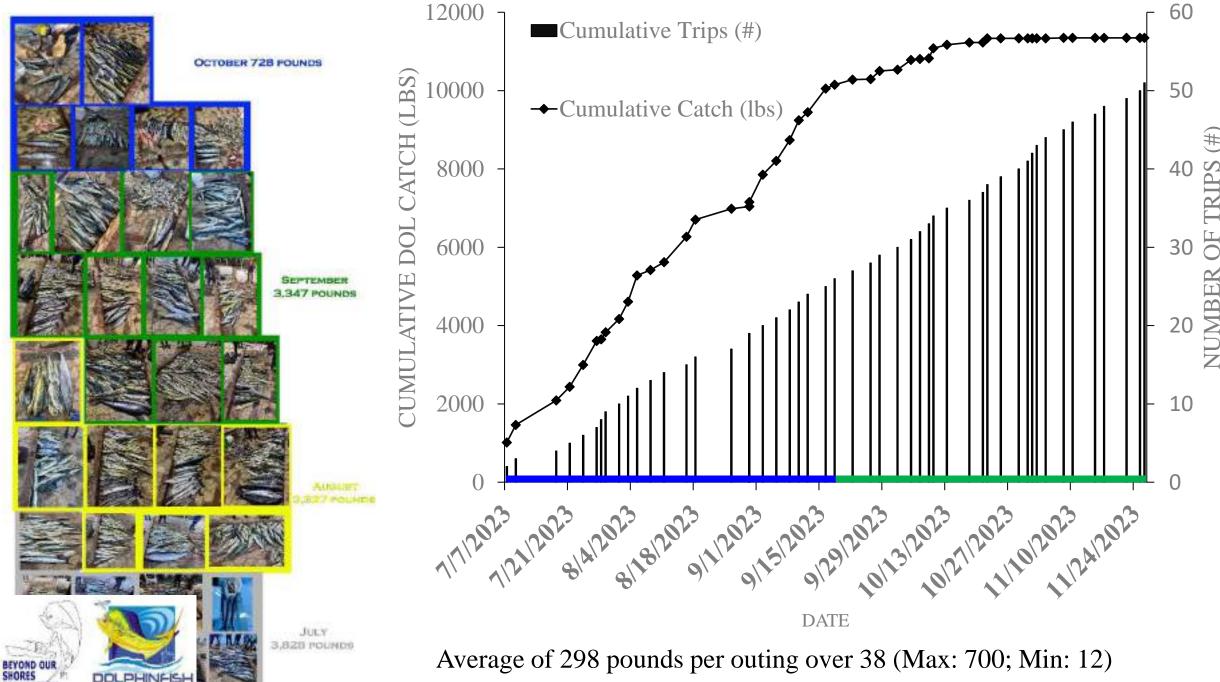
Commercial Catch: Southern DR

July 23' to Nov 23'





Average of 416 pounds per outing for last 16 (Max: 670; Min: 40) 5,430 pounds in 16 outings – 1 boat – southern DR



11,348 pounds in 38 outings – 1 boat – southern DR

10/10/2023 – 260 lbs DOL offshore

11/2/2023 – 132 lbs BUM, 120 lbs barracuda 50 lbs WAH, 30 lbs BLK coastal

11/26/2023 – 620 lbs BUM, 57 lbs WAH 6 lbs barracuda coastal

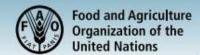












FISH4ACP

Unlocking the potential of sustainable fisheries and aquaculture

Dominican Republic

FISH4ACP aims to make the mahi-mahi fishery in the Dominican Republic stronger to improve the livelihoods and working conditions for artisanal fisher folk, ensuring that growth goes hand in hand with environmental sustainability to preserve mahi-mahi for future generations of local fishers.



BEYOND OUR

FOUNDATION OWNERSTAND

WHAT WE **focus**

- Improving mahi-mahi





Also known as dolphinfish, mahi-mahi is a highly appreciated food fish common to most of the world's warm and temperate seas. It is one of the principal catches of artisanal fishers in the Dominican Republic.

The fishery provides local fishermen with an income and is an important source of food that sells well on local markets and in the capital of Santo Domingo. Improvements to the cold chain and post-harvest handling could increase economic returns, but they require investments in human capital and the processing facilities.

FISH4ACP is supporting the Dominican Republic in making the mahi-mahi value chain, an important artisanal fishery, more productive and sustainable, making sure that benefits are shared equitably and growth does not increase the burden on the environment.

FISH4ACP is fostering social integration by working with local fisher associations and organized groups of women fish vendors. Activities seek to promote participation of artisanal fisherfolk in the value chain by improving access to loans, social security and education, and through capacity building.

Facts figures

Mahi-mahi is fished along the southern coast of the Dominican Republic. Captures increased from 255 tonnes in 2000 to an estimated 612 tonners in 2023.

Mahi-mahi is a fish that grows and matures rapidly. It can be harvested more frequently than other species.

Fish consumption of around 8 Kg per person per vear in the Dominican Republic is low compared to other Caribbean countries.

Mahi-mahi exports are low and go mainly to the United States, around 10.5 tonnes per year on average between 2016 - 2021

> FISH4ACP is an initiative of the Organisation of African, Caribbean and acific States (OACPS) aimed at making

Pescadores de dorado N= 2369 (860 asociados y 1509 independientes)





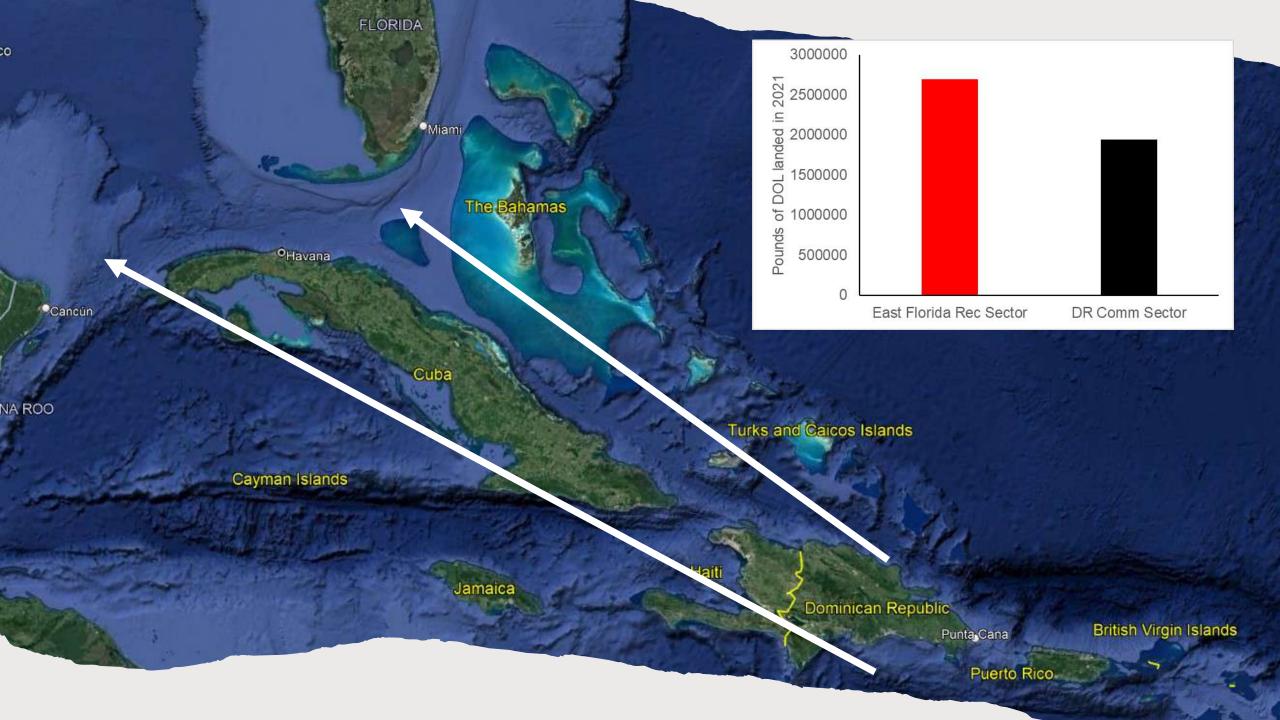


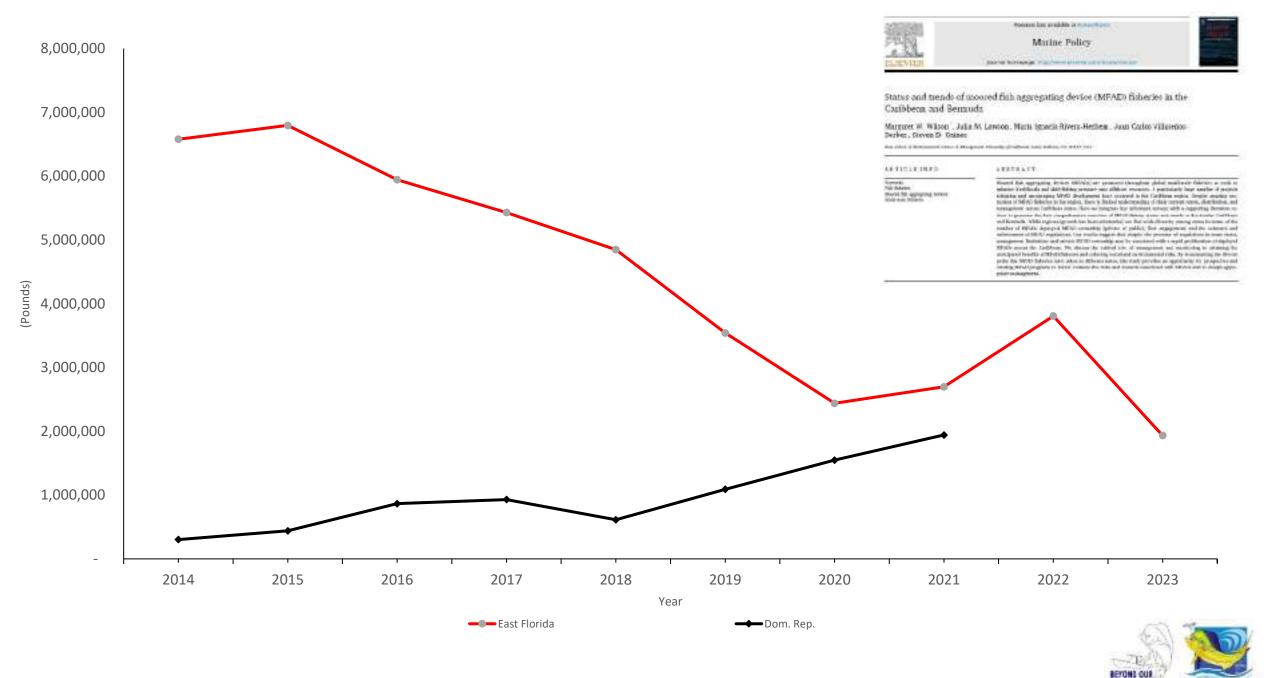
Ministry for Economic Cooperation and Development (BMZ). The views expressed herein can in no v



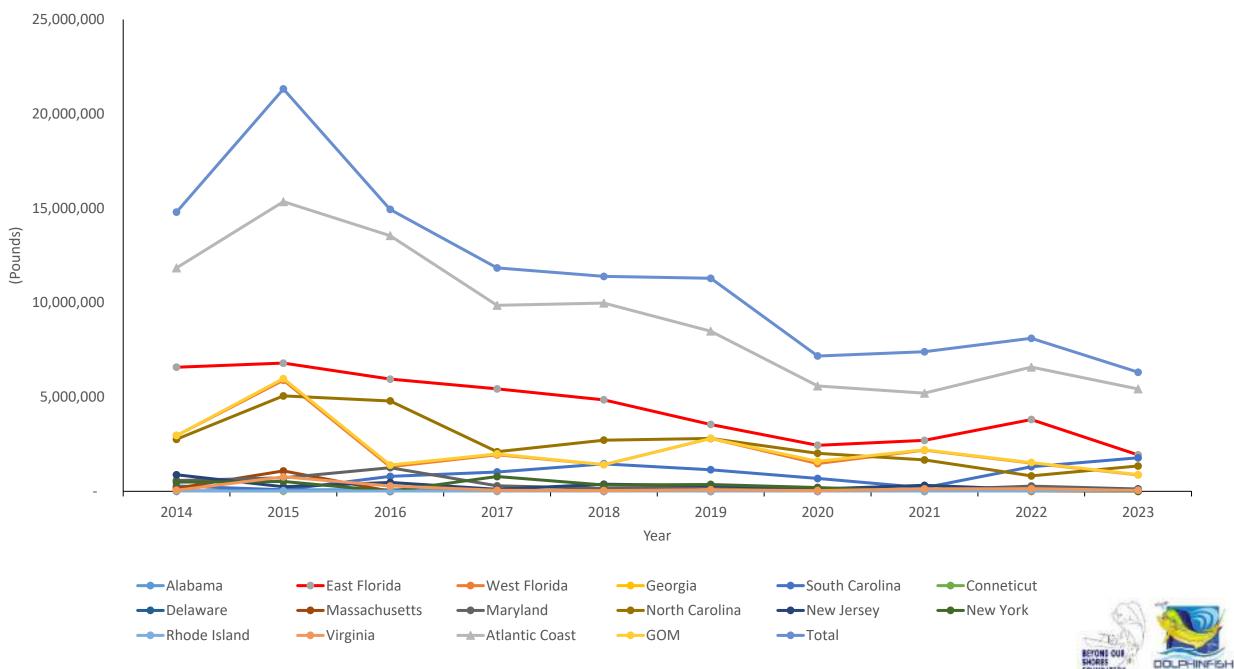
Some rights reserved. This work is available landor a CC SY-NC-SA 3.0 K3C iscence.

Food and Agriculture Organization of

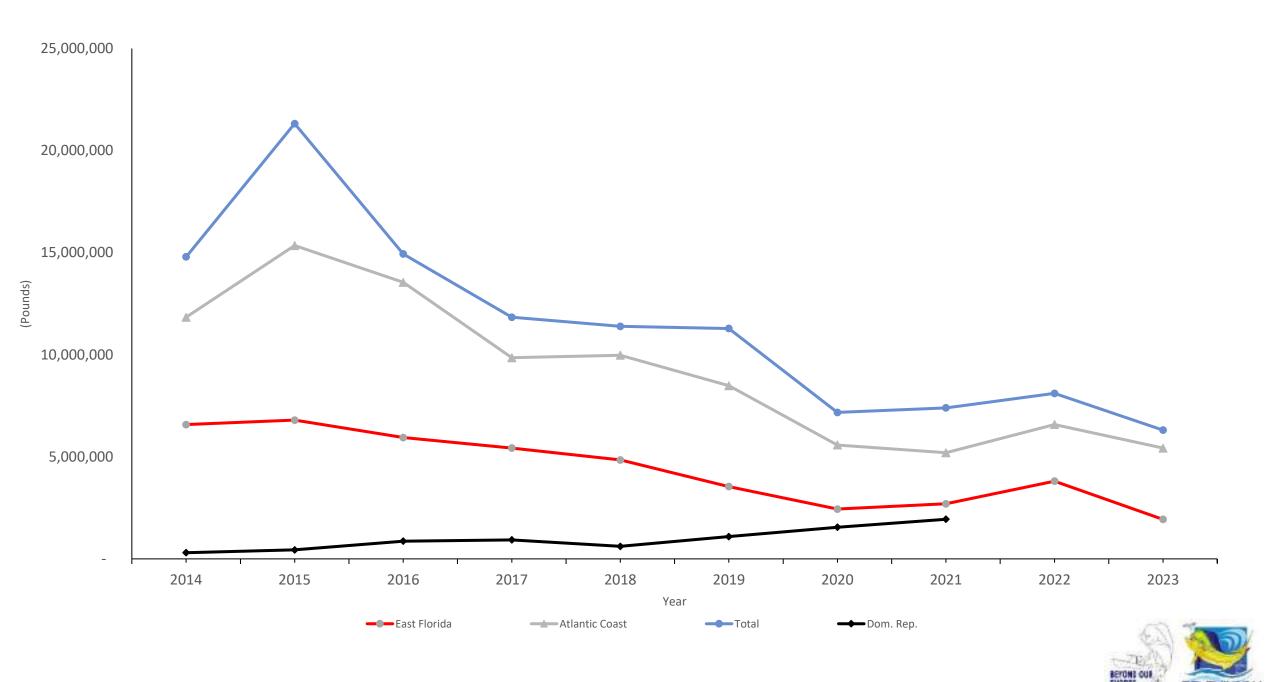




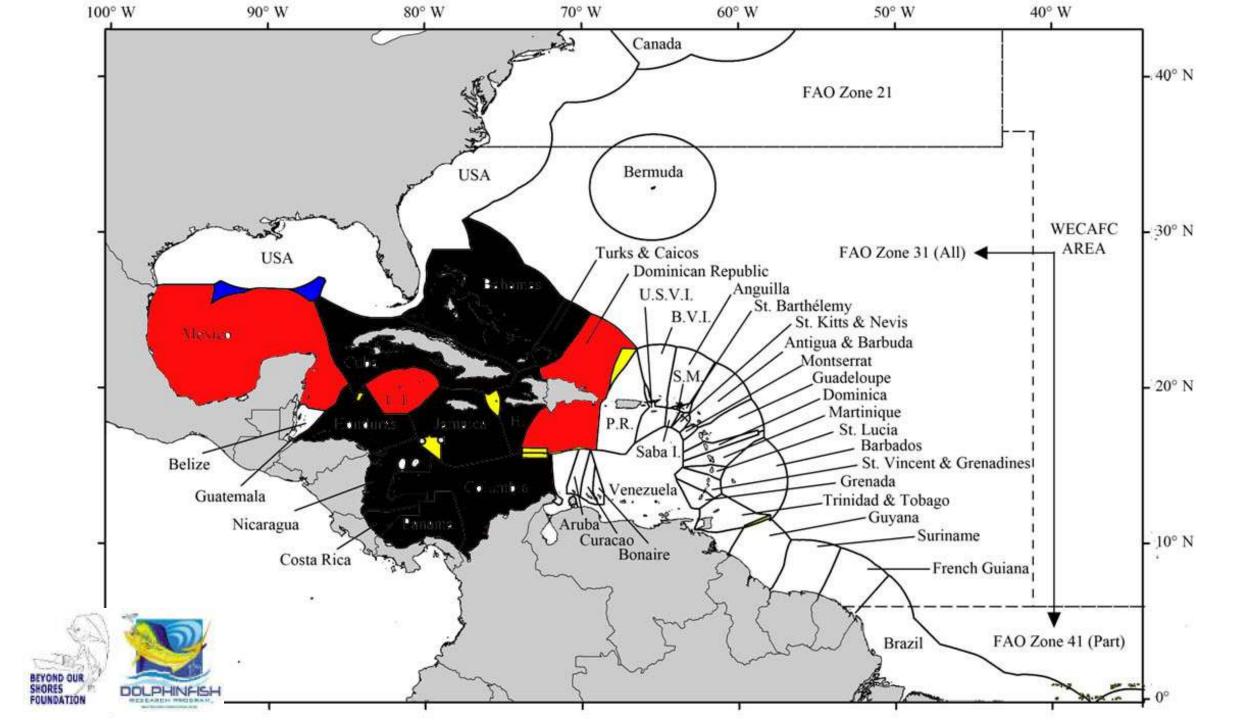
U.S. MRIP Data for East Florida Rec through Wave 3 2023 + FAO DR Commercial Landings to 2021



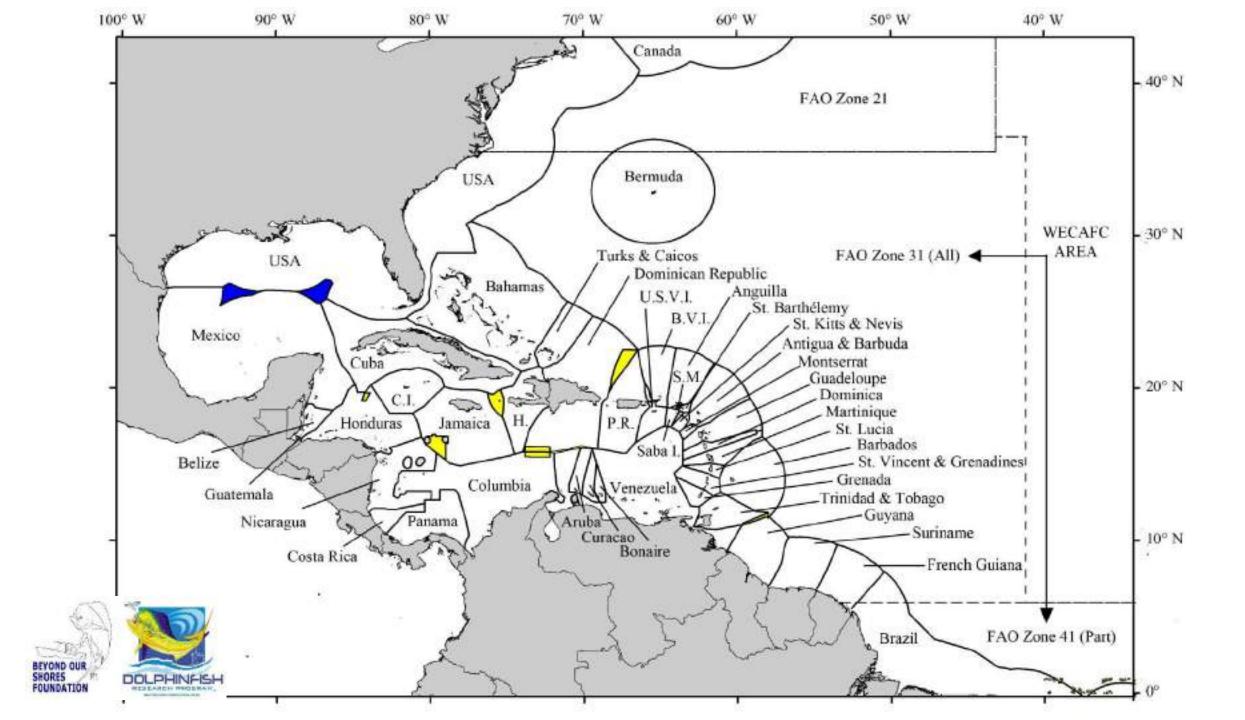
U.S. MRIP Data for GOM and Atlantic Coast by State/Group through Wave 3 of 2023



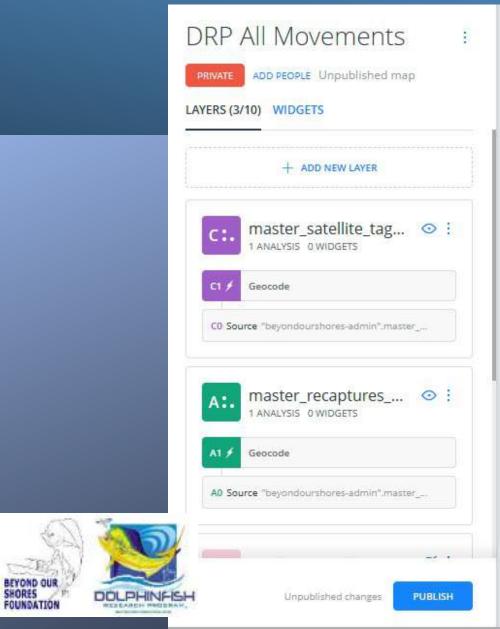
U.S. MRIP Data for through Wave 3 of 2023 + FAO DR Commercial Landings to 2021

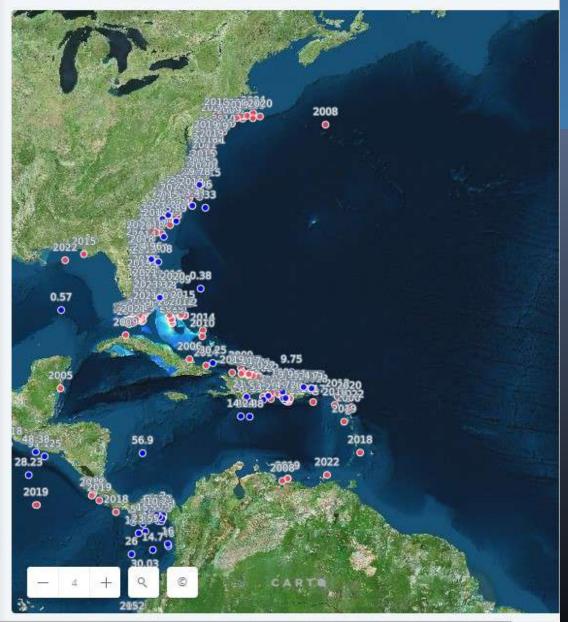






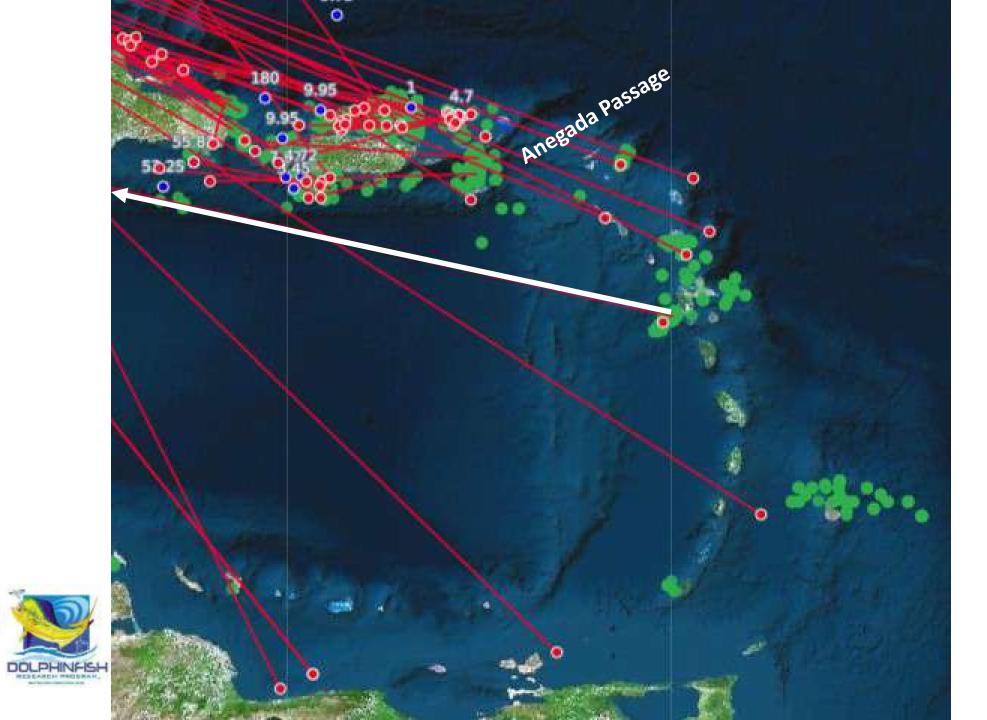
Demo of DRP Database



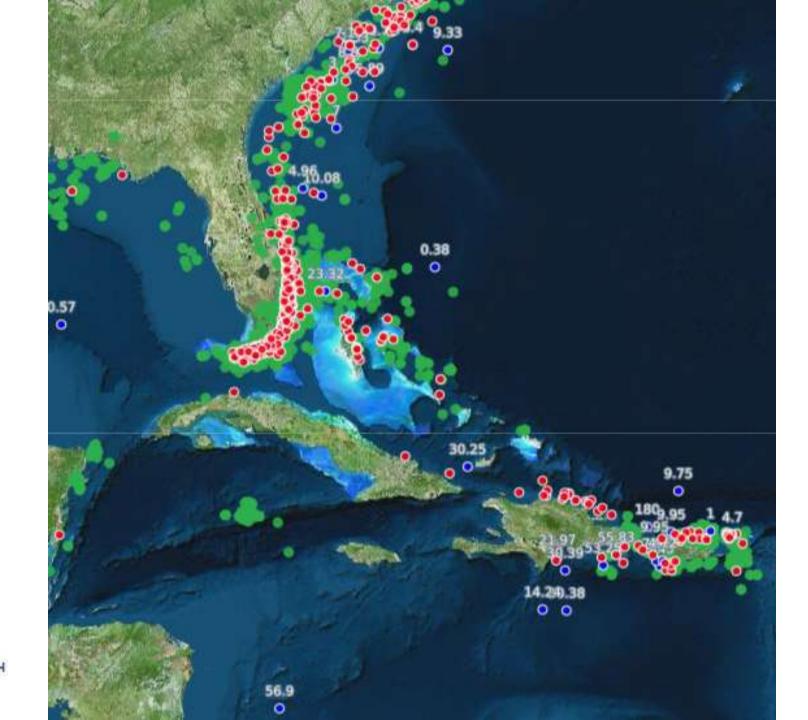




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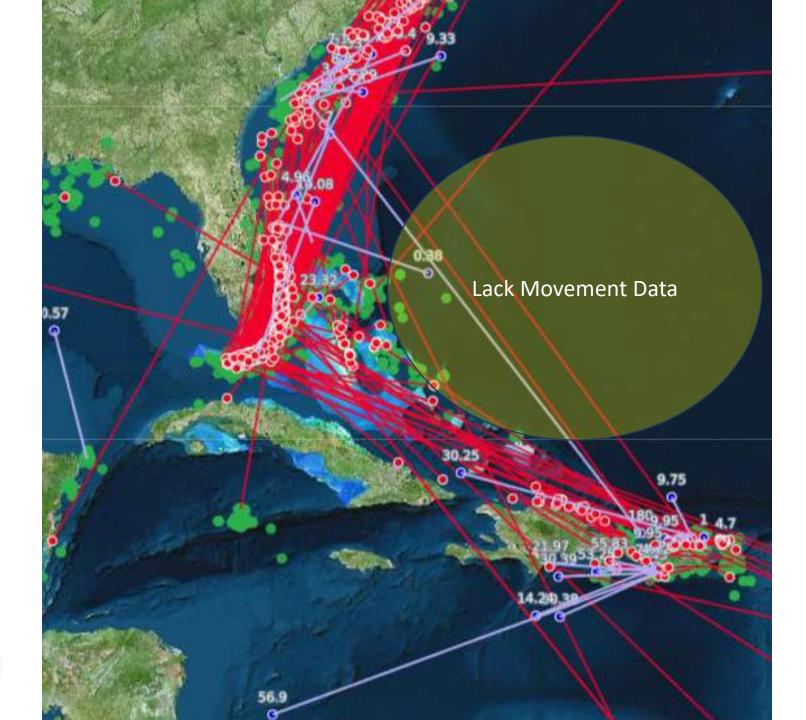
BEYOND OUR SHORES FOUNDATION





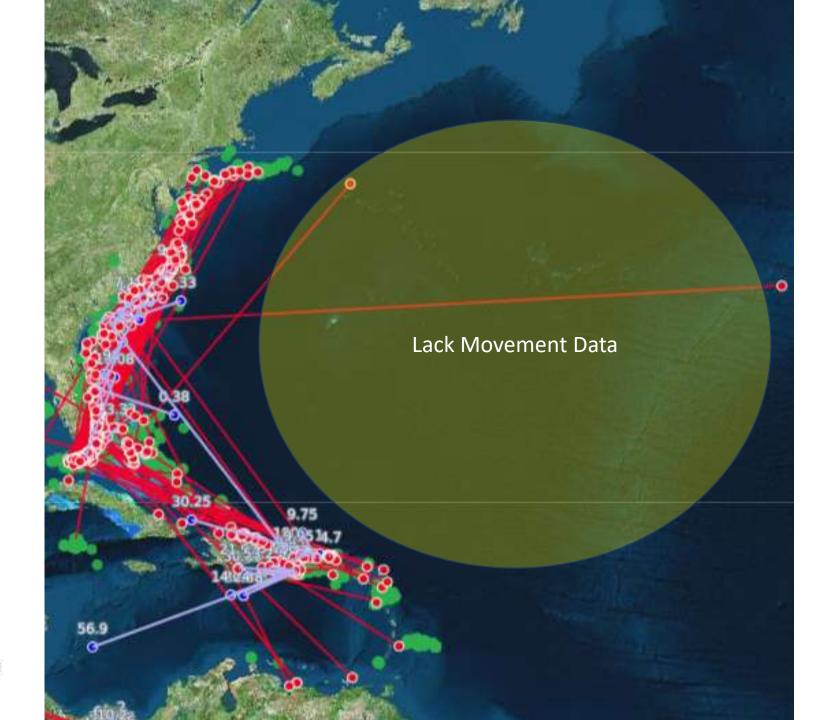
















Conclusion: Issues Facing WCA Dolphin Stock

- Lack of data on/at FADs in Caribbean Sea and Sargassum events
- Inconsistent regulations on same stock despite transitory evidence
- Generally, small subadult fish (<24" FL) are being caught at FADs but frequency varies seasonally
- Lack of quality data on the recreational fishery yet increase in the fishery (Freire et al. 2020)
- Unknown Indirect harvest in longline fisheries (Lynch 2018; Merten et al. 2022b)
- Lack of landings data from 23 nations in WCA
- Under reporting of landings is likely in some major FAO dolphin reporting nations in the WCA
- Increasing demand in major seafood markets (MSA 2016)
- High discard mortality (Rudershausen et al. 2019) Need to promote use of nonoffset circle hooks
- Perception of resistance to overfishing
- Underappreciate of multinational distribution which fragments data collection and management
- Size truncation and diminished stock productivity?



