

SAFMC Tools

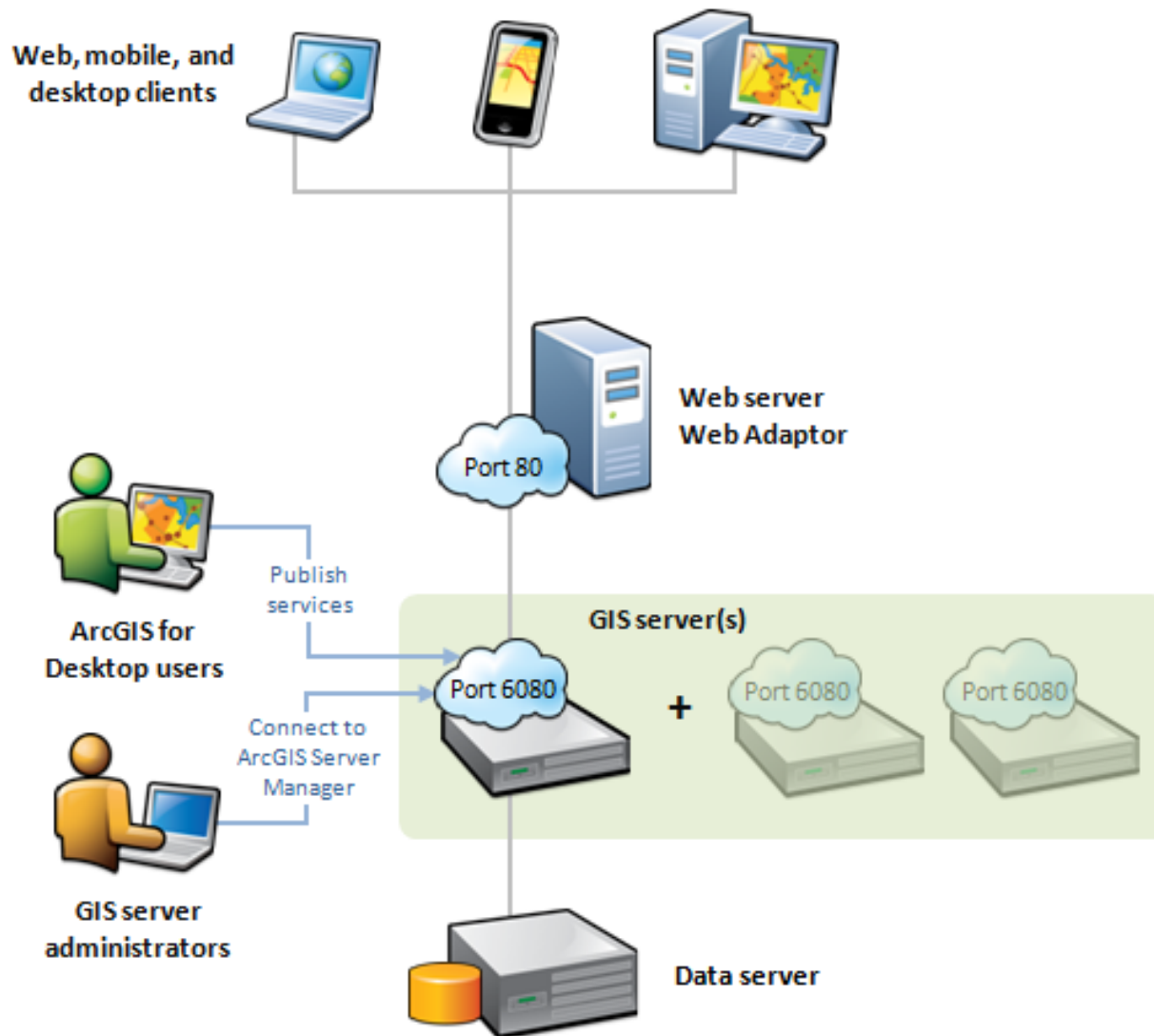
# Digital Dashboard and Web Services

Tina Udouj  
FWC-FWRI

# Background

- The Fish and Wildlife Research Institute (FWRI) has collaborated with SAFMC staff to compile, create and host spatial and non-spatial data relevant to essential habitats, management zones, and fisheries in the South Atlantic ecosystem.
- FWRI is using ArcGIS Server and ArcGIS Online to provide GIS data through the web.
- Non-spatial data such as videos, images, and documents are served through a FWC web server.

## ArcGIS Server site architecture

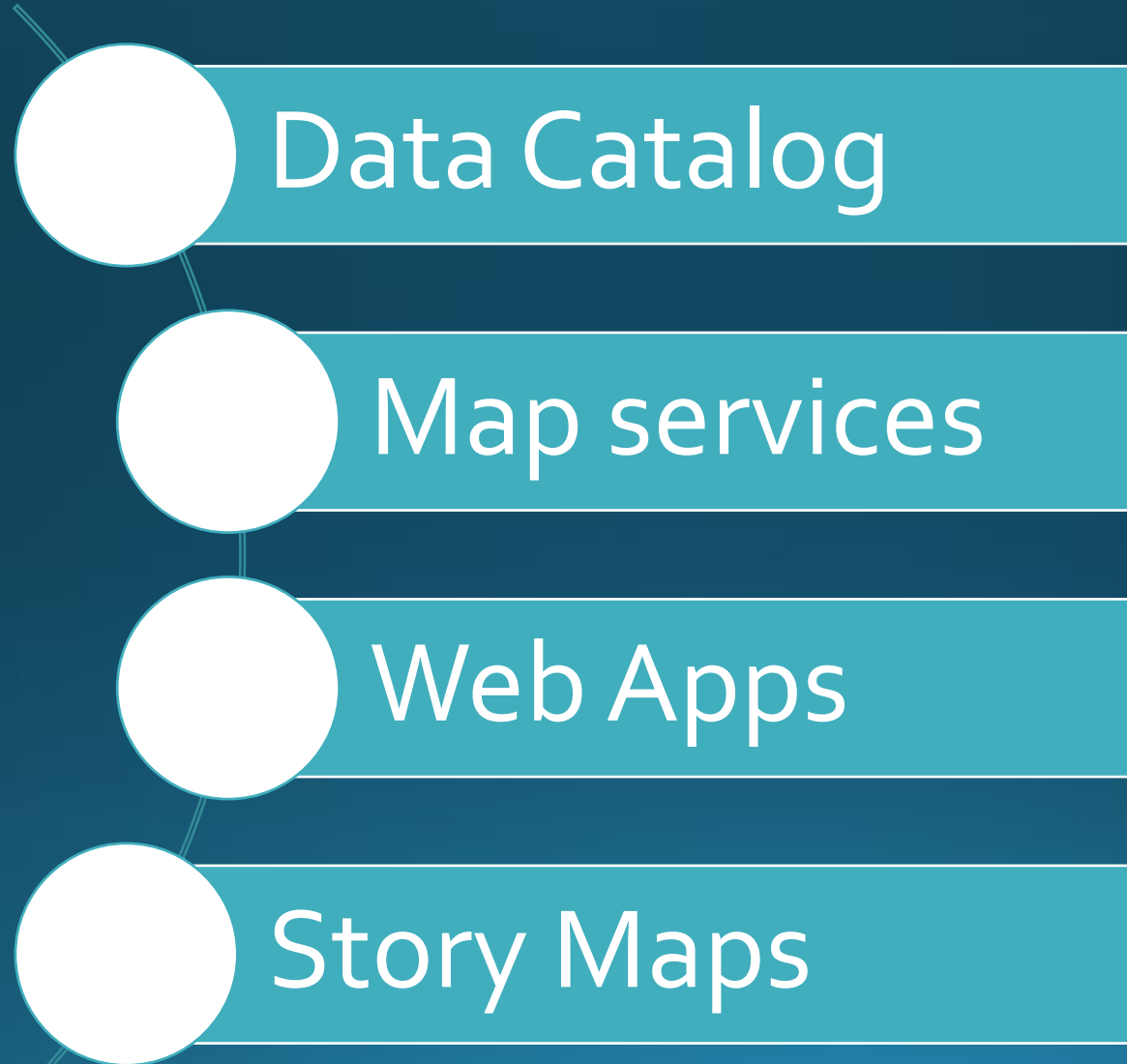


The client or presentation tier includes desktop and mobile devices

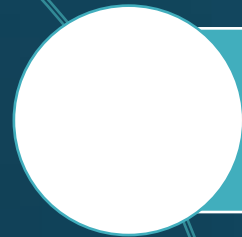
The logical tier includes ArcGIS Server for publishing GIS services; the web server also hosts the digital dashboard

The data tier includes shapefiles, imagery, and geodatabases

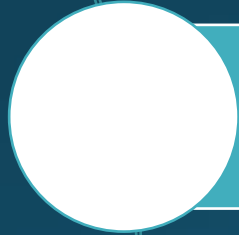
# SAFMC GIS Data



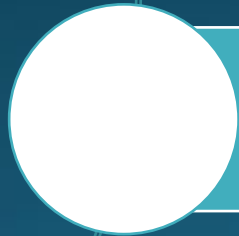
# SAFMC Non-spatial Data



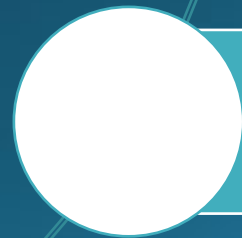
Videos



Images



PDFs



Metadata

# Overview

- Digital Dashboard
- Web Apps and Maps
- Web Metrics
- SAFMC Hub

# Digital Dashboard

# SAFMC Digital Dashboard

- Serves as a one-stop shop for SAFMC GIS data and applications
- Integrates links to SAFMC collaborative projects
- Builds connections with regional partners
- Enhances the accessibility and visibility of state and regional efforts

The screenshot shows the SAFMC Digital Dashboard website. At the top, the header includes the title "SAFMC Digital Dashboard" and navigation links for "Home", "GIS Data", "Partners", and "Contact Us". Below the header is a banner image with the text "Explore the marine and fishery resources of the South Atlantic Bight." The banner image is a composite of an underwater scene with fish and a sunset over a beach. Below the banner is a section titled "Web Mapping Applications" which features four map-based applications: "Fisheries", "Managed Areas", "Essential Fish Habitat", and "SAFMC Habitat and Ecosystem Atlas". Each application has a brief description and a "View Project" button. The footer contains three sections: "Links" with various organizational links, "Connect With Us" with social media icons for Facebook and Twitter, and "Subscribe" with an email sign-up form.

**SAFMC Digital Dashboard** Home GIS Data Partners Contact Us

Explore the marine and fishery resources of the South Atlantic Bight.

The fog lifts as the sun begins to rise by Amanda Nalley.

**Web Mapping Applications**

- Fisheries**  
This application displays fishery independent data collected by the SEAMAP - South Atlantic (SA) component and by the Marine Resources Monitoring, Assessment, and Prediction (MARMAP) program. The application also contains bathymetry, benthic habitats, local species strata, EcoGIS layers and regulatory boundaries.  
[View Project](#)
- Managed Areas**  
This web application provides users an opportunity to view managed areas in the SAFMC's jurisdiction. The application contains data for the Allowable Golden Crab Fishery Areas, Shrimp Fishery Access Areas, and Deepwater Coral HAPCs. The application also includes SAFMC Restrictions, Marine Protected Areas, Coastal CHMP, Danger Zones, and other Federal Marine Managed Areas.  
[View Project](#)
- Essential Fish Habitat**  
You can access available maps of EFH and HAPCs in the South Atlantic region using the SAFMC EFH Viewer. This application displays Essential Fish Habitat (EFH) and Essential Fish Habitat-Habitat Areas of Particular Concern (EFH-HAPCs) for several species under SAFMC's jurisdiction. It also displays EFH for Highly Migratory Species (HMS) managed by NOAA Fisheries.  
[View Project](#)
- SAFMC Habitat and Ecosystem Atlas**  
The SAFMC Regional Habitat and Ecosystem Atlas is here! The SAFMC Habitat and Ecosystem Atlas is a comprehensive site to view a variety of map services supporting fishery management issues in the South Atlantic Bight.  
[View Project](#)

**Links**  
South Atlantic Fishery Management Council  
Fish and Wildlife Research Institute  
Atlantic States Marine Fishery Commission  
Southeast Regional Fisheries Center

**Connect With Us**  
The South Atlantic Fishery Management Council is now on Facebook and Twitter.  
Facebook Twitter

**Subscribe**  
Subscribe to our newsletter to get the latest news!  
Email



# Data Catalog

The data catalog page provides users an opportunity to download zipped shapefiles and accompanying metadata for SAFMC GIS data layers.

Google Earth files in the KMZ format are also available for select layers.

### Essential Fish Habitat

The Sustainable Fisheries Act of 1996, identifying the contribution of habitat loss and degradation on fishery declines, amended the Magnuson-Stevens Act to create a program to protect "essential fish habitat." The statute defined EFH as "those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity." The legislation authorized a regulatory program to provide detailed certification of such habitat and obligatory consultation regarding all fishery and non-fishery activities receiving federal funding, permitting, or authorization that could impact EFH. The Council has taken the first step with the approval of the Habitat Plan identifying and describing in detail EFH for species managed throughout the South Atlantic and with the approval of the Comprehensive Habitat Amendment amending all existing FMPs to include descriptions of EFH and EFH-habitat areas of particular concern (EFH-HAPCs).

Data Layer	Metadata	Data Download (zip file)
Dolphin-Wahoo EFH	In Progress	Shapefile
Shrimp EFH	Metadata	Shapefile
Spiny Lobster EFH	Metadata	Shapefile
Coastal Migratory Pelagics EFH	Metadata	Shapefile
Golden Crab EFH	Metadata	Shapefile
Snapper Grouper EFH	Metadata	Shapefile
Coral, Coral Reefs, Live or Hard Bottom EFH	Metadata	Shapefile

### EFH-Habitat Areas of Particular Concern

Essential Fish Habitat (EFH) that is particularly important to the long-term productivity of populations of one or more managed species, or particularly vulnerable to degradation, should be identified as "habitat areas of particular concern" (HAPC) to help provide additional focus for conservation efforts. As a result of the Sustainable Fisheries Act Amendment to the Magnuson-Stevens Fishery Conservation and Management Act in 1996 the Councils and the NMFS have been mandated to use an ecosystem approach in managing the Nation's Fisheries. The Council took the first step with the approval of the Habitat Plan identifying and describing in detail EFH for species managed throughout the South Atlantic area with the approval of the Comprehensive Habitat Amendment amending all existing FMPs to include descriptions of EFH and EFH-HAPCs. Due to their important ecological function, areas of the offshore pelagic environments discussed above and the associated benthic habitats represent EFH-HAPCs and were designated as such through previous Council actions.

Data Layer	Metadata	Shapefile	Google Earth
Dolphin-Wahoo EFH-HAPC	Metadata	Zip File ~6 kb	KMZ
Coastal Migratory Pelagics EFH-HAPC	Metadata	Zip File ~238 kb	KMZ
Shrimp EFH-HAPC	Metadata	Zip File ~2 mb	KMZ
Spiny Lobster EFH-HAPC	Metadata	Zip File ~2.8 mb	KMZ
Snapper Grouper EFH-HAPC	Metadata	Zip File ~25 mb	KMZ
Coral, Coral Reef and Live or Hard Bottom EFH-HAPC	Metadata	Zip File ~2 mb	KMZ
Turtle EFH-HAPC	In progress	Zip File ~23kb	In progress

### Deepwater Coral Habitat Areas of Particular Concern (Coral HAPCs)

Deepwater Coral Habitat Areas of Particular Concern (Deepwater Coral HAPCs) have been designated off the coast of the southern Atlantic states in which the use of specified fishing gear and methods and the possession of coral is prohibited. Within the Deepwater Coral HAPCs, fishing zones have been established that allow continued fishing on the historical grounds for golden crab and deepwater shrimp. This designation protects what is thought to be the largest distribution of pristine deepwater coral ecosystems in the world.

	METADATA	Tab Delimited Coordinates	SHAPEFILE	GOOGLE EARTH
Deepwater Coral HAPCs	Metadata		Zip File ~11kb	KMZ
Cape Lookout		CapeLookout.txt		
Cape Fear		CapeFear.txt		
Stebson Miami Terrace		StebsonMiamiTerrace.txt		
Fourfates Terrace		FourfatesTerrace.txt		
Blake Ridge Diaper		BlakeRidgeDiaper.txt		
Golden Crab Access Area A	GCAA_A.txt		Zip File ~6kb	KMZ
Golden Crab Access Area B	GCAA_B.txt		Zip File ~3kb	KMZ
Golden Crab Access Area C	GCAA_C.txt		Zip File ~3kb	KMZ
Golden Crab Northern Access Area	GCAA_Northern.txt		Zip File ~3kb	KMZ
Golden Crab Southern Access Area	GCAA_Southern.txt		Zip File ~3kb	KMZ
Shrimp Fishery Access Area A	SFAA_A.txt		Zip File ~3kb	KMZ
Shrimp Fishery Access Area B	SFAA_B.txt		Zip File ~3kb	KMZ
Shrimp Fishery Access Area C	SFAA_C.txt		Zip File ~3kb	KMZ
Shrimp Fishery Access Area D	SFAA_D.txt		Zip File ~3kb	KMZ

### Restricted Gear

The South Atlantic Fishery Management Council's (SAFMC) role is to develop fishery management plans needed to manage fishery resources within the Exclusive Economic Zone (EEZ) extending from state waters (three miles in the south Atlantic) to 200 nautical miles. The 1996 Sustainable Fisheries Act (SFA) was passed by Congress to protect marine fish stocks with requirements to prevent and stop overfishing, minimize bycatch, and protect habitat. These layers geographically represents prohibitions on the use of various gear (to fish for and retain snapper grouper species) within the SAFMC EEZ.

GEAR	METADATA	SHAPEFILE	GOOGLE EARTH
Roller Rig Trawls	Metadata	Zip File ~70kb	KMZ
Sargassum	Metadata	Zip File ~75kb	KMZ
Black Sea Bass Pots	Metadata	Zip File ~30kb	KMZ
Bottom Longlines	Metadata	Zip File ~90kb	KMZ
Fish Traps	Metadata	Zip File ~73kb	KMZ
Orbifera		Zip File ~ 45kb	KMZ

# Map Services


- The map services page provides a brief description of the core, complementary, and external map services used in SAFMC mapping applications.
- The images are linked to each of the map service's REST endpoint.

## SAFMC Digital Dashboard

[Home](#) [GIS Data](#) [Partners](#) [Contact Us](#)


### Map Services

#### Core Services




##### Managed Areas

Contains data for the Atlantic Croaker Crab Fishery Areas, Shrimp Fishery Access Areas, Deepwater Coral HAPCs, SAFMC Restrictions, Marine Protected Areas, Danger Zones, and other Federal Marine Managed Areas.



##### Fisheries


Serves SEAMAP species data, MARMAP species data, MARMAP gear types, bathymetry, and boundaries for the continental shelf, US Federal State and US Territorial Seas.



##### Essential Fish Habitat (EFH)


Displays Essential Fish Habitat (EFH) and Essential Fish Habitat Areas of Particular Concern (EFH-HAPCs) for several species under SAFMC's jurisdiction.

#### Complementary Services



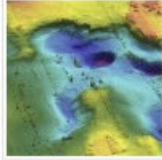
##### Habitats

Displays habitat data collected by SEADEG, Harbor Branch Oceanographic Institute (HBOI) and Ocean Exploration dives, as well as the SEAMAP shallow and ESDM deepwater bottom mapping projects, multibeam imagery, and scientific cruise data.



##### Nautical Charts


Displays coastal, general, and overview nautical charts for the SAFMC's jurisdictional area. Although updated charts are available from NOAA's RNC map service, SAFMC has found the LORAN lines displayed on older charts helpful in public workshop forums.



##### Multibeam


Displays a variety of multibeam data sources and scanned bathymetry charts. Data sets from NOAA's Deep Sea Coral Missions, Southeast Fishery-Independent Survey (SEFIS), and Harbor Branch Oceanographic Institute (HBOI) are included.

#### External Services




##### NOAA's Estuarine Bathymetry

Estuarine Bathymetry was developed by the Special Projects Office of the National Ocean Service (NOS) as part of a project to produce readily available bathymetry. Seventy of the approximately 130 estuaries within the conterminous U.S. are available from this site.



##### South Carolina Energy

A task force has been convened by the Department of Interior's Bureau of Ocean Energy Management to discuss the designation of wind energy planning areas in federal waters off the coast of South Carolina. This map includes many of the data layers being used by the South Carolina Renewable Energy Task Force in their decision making process.



##### DEM Hillshade

Hillshade visualizations for high-resolution digital elevation models (DEMs) of select U.S. coastal regions. These integrated bathymetric-topographic DEMs are used to support tsunami forecasting and modeling efforts at the NOAA Center for Tsunami Research, Pacific Marine Environmental Laboratory (PMEL).

#### Links

- [South Atlantic Fishery Management Council](#)
- [Fish and Wildlife Research Institute](#)
- [Atlantic States Marine Fisheries Commission](#)
- [Southeast Regional Fisheries Center](#)


#### Connect With Us

The South Atlantic Fishery Management Council is now on Facebook and Twitter.

[f](#) [t](#)

#### Subscribe

Subscribe to our newsletter to get the latest news!



# REST service

The REST endpoint provides details for the map layers, spatial reference, geographic extent, and other supporting information.

Users can view the data in ArcGIS Online, Google Earth, or ArcGIS Desktop.

ArcGIS REST Services Directory

[Login](#) | [Get Token](#)

[Home](#) > [services](#) > [SAFMC](#) > [SAFMC EFH \(MapServer\)](#)

[Help](#) | [API Reference](#)

[JSON](#) | [SOAP](#)

## SAFMC/SAFMC\_EFH (MapServer)

**View In:** [ArcGIS JavaScript](#) [ArcGIS.com Map](#) [Google Earth](#) [ArcMap](#) [ArcGIS Explorer](#)

**View Footprint In:** [ArcGIS.com Map](#)

**Service Description:** Mandates established through the Magnuson-Stevens Act task the regional Councils to identify, describe, map and protect Essential Fish Habitat (EFH). These mandates were established to facilitate the conservation of EFH and to effectively portray this information to fishing industries, regulatory agencies and the public at large.

**Map Name:** Layers

[Legend](#)

[All Layers and Tables](#)

**Layers:**

- [SantePax](#) (0)
- [South Atlantic Public Notices FY2011](#) (1)
- [Southeast Bathymetry](#) (2)
- [SAFMC EFH-HAPC](#) (3)
  - [Tilefish EFH-HAPC](#) (4)
  - [Coastal Migratory Pelagics EFH-HAPC](#) (5)
  - [Coral, Coral Reef, Live/Hard Bottom EFH-HAPC](#) (6)
  - [Dolphin-Wahoo EFH-HAPC](#) (7)
  - [Snapper Grouper EFH-HAPC](#) (8)
  - [Shrimp EFH-HAPC](#) (9)
  - [Spiny Lobster EFH-HAPC](#) (10)
- [SAFMC EFH](#) (11)
  - [Coastal Migratory Pelagics EFH](#) (12)
  - [Coral, Coral Reef, Live/Hard Bottom EFH](#) (13)
  - [Dolphin-Wahoo EFH](#) (14)
  - [Golden Crab EFH](#) (15)
  - [Shrimp EFH](#) (16)
  - [Snapper Grouper EFH](#) (17)
  - [Spiny Lobster EFH](#) (18)

# SAFMC Map Services

**Essential Fish Habitat (EFH)** – displays EFH and EFH-HAPCS for SAFMC managed species and NOAA Fisheries Highly Migratory Species

**Fisheries** - displays Southeast Area Monitoring and Assessment Program South Atlantic (SEAMAP-SA) data; Reef Fish, Coastal Survey, Red Drum, and Pamlico Sound surveys.

**Managed Areas** - displays a variety of regulatory boundaries (SAFMC and Federal) or management boundaries within SAFMC's jurisdiction.

**Habitat** – displays habitat data collected by SEADESC, Harbor Branch Oceanographic Institute (HBOI) and Ocean Exploration dives, as well as the SEAMAP shallow and ESDIM deepwater bottom mapping projects, multibeam imagery, and scientific cruise data.

**Multibeam Bathymetry** - displays a variety of multibeam data sources and scanned bathymetry charts

**Nautical Charts** – displays coastal, general, and overview nautical charts for the SAFMC's jurisdictional area



ArcGIS REST Services Directory

[Home](#) > [services](#) > [SAFMC](#) > [SAFMC\\_AGO \(MapServer\)](#)

[JSON](#) | [SOAP](#)

## SAFMC/SAFMC\_AGO (MapServer)

**View In:**
[ArcGIS JavaScript](#)
[ArcGIS Online map viewer](#)
[Google Earth](#)
[ArcMap](#)
[ArcGIS Explorer](#)

**View Footprint In:**
[ArcGIS Online map viewer](#)

**Service Description:** This map service provides users an opportunity to view managed areas in the SA

**Map Name:** Layers

[Legend](#)

[All Layers and Tables](#)

**Layers:**

- [Deepwater Snapper Grouper MPAs](#) (0)
- [Special Management Zones in the Southeast](#) (1)
- [Oculina Banks HAPC](#) (2)
  - [Oculina Dive Logs](#) (3)
  - [Oculina Videos](#) (4)
  - [Experimental Closed Area](#) (5)
  - [Oculina Boundaries](#) (6)
- [Deepwater Coral HAPCs](#) (7)
  - [Shrimo Fishery Access Areas](#) (8)
  - [Golden Crab Fishery Access Areas](#) (9)
  - [Deepwater Coral HAPCs](#) (10)
- [Spawning SMZs](#) (11)
- [Regulations and Closures](#) (12)
  - [Commercial Regulations](#) (13)
  - [Recreational Regulations](#) (14)
  - [Seasonal Closures](#) (15)
- [Restrictions](#) (16)
  - [All Restrictions](#) (17)
  - [Powerhead Prohibited Area](#) (18)
  - [Golden Crab Fishing Zones and Closed Fishery Management Areas](#) (19)
  - [Sea Bass Pots Prohibited Area](#) (20)
  - [Longline Prohibited Areas](#) (21)
  - [Pelagic Sargassum Habitat Area & Seasonal Restrictions](#) (22)
  - [Sivny LobsterTrap Gear Fishery Management Areas](#) (23)

**Description:**

**Copyright Text:** SAFMC

**Spatial Reference:** 102100 (3857)

**Single Fused Map Cache:** false

**Initial Extent:**

XMin: -1.016512119603818E7  
 YMin: 3622794.241467354  
 XMax: -70719416.468361821  
 YMax: 4458872.585585001  
 Spatial Reference: 102100 (3857)

**Full Extent:**

XMin: -9239523.54  
 YMin: 2715948.1721  
 XMax: -7934875.4186  
 YMax: 4377486.743700001  
 Spatial Reference: 102100 (3857)

**Units:** esriMeters

**Supported Image Format Types:** PNG32,PNG24,PNG,JPG,DIB,TIFF,EMF,PS,PDF,GIF,SVG,BMP

**Document Info:**

Title:  
 Author:  
 Comments:  
 Subject:  
 Category:  
 Keywords: fishery management areas,marine protected areas,SAFMC,GIS,closed areas,Coral HAP  
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 TextAntialiasingMode: Force

**Supports Dynamic Layers:** false

**MaxRecordCount:** 1000

**MaxImageHeight:** 4096

**MaxImageWidth:** 4096

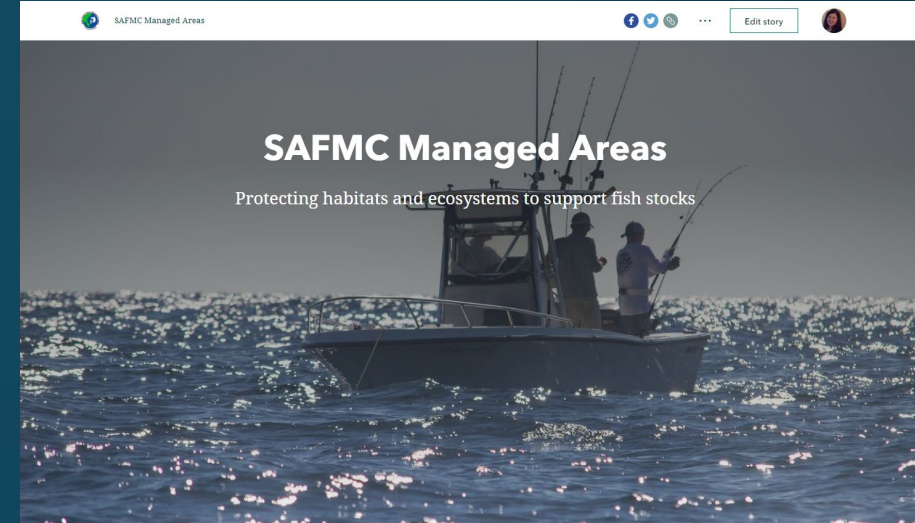
**Supported Query Formats:** JSON, AMF, geoJSON

**Min Scale:** 0

**Max Scale:** 0

**Child Resources:** [Info](#)

**Supported Operations:** [Export Map](#) [Identify](#) [Find](#) [Return Updates](#) [Generate KML](#)

A wide-angle photograph of a small motorboat on a vast, shimmering blue sea. Two people are on board, one in the foreground and one slightly behind, both holding fishing rods. The water is covered in bright, sun-drenched ripples. The sky is a clear, pale blue. The overall scene is peaceful and scenic, emphasizing the natural environment.

SAFMC Managed Areas


[Facebook](#) [Twitter](#) [LinkedIn](#) [More](#)

[Edit story](#)

# SAFMC Managed Areas

Protecting habitats and ecosystems to support fish stocks

## ArcGIS Online Story Map

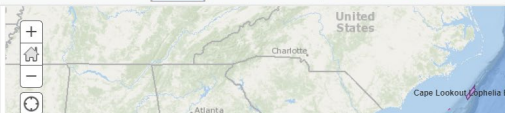
Home ▾ SAFMC Managed Areas Web Map 

Details Add ▾ | Basemap Analysis Save ▾ Share Print ▾ Directions Measure Bookmarks Find address

About Content Legend

Contents

- ☒ Deepwater Snapper Grouper MPAs
- ☒ Special Management Zones in the Southeast
- ☐ Oculina Dive Logs
- ☐ Oculina Videos
- ☒ Oculina Experimental Closed Area
- ☒ Oculina HAPC
- ☒ Shrimp Fishery Access Areas
- ☒ Golden Crab Fishery Access Areas
- ☒ Deepwater Coral HAPCs
- ☒ Spawning SMZs
- ☐ Commercial Regulations
- ☐ Recreational Regulations
- ☐ All Gear Restrictions



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# ArcGIS Online Web Map



## ArcGIS Online Web App

# Web Maps and Apps

# ArcGIS Online Web Map

- Web maps can be useful for sharing preliminary data with SAFMC council or advisory panel members.
- These maps include multiscale basemaps, operational layers, and information pop-ups that allow users to drill into specific features they are interested in.
- They also support visualization, editing, analysis, and time.
- They are the basis of web apps and can be viewed on a wide variety of clients, including mobile devices, desktop applications, and web browsers.

Web Map	Notes
<a href="#"><u>ACCSP</u></a>	displays previous year's landings and value data for SAFMC managed species
<a href="#"><u>Spawning SMZs</u></a>	displays for spawning SMZs
<a href="#"><u>Managed Areas</u></a>	base map for web application and story map
<a href="#"><u>EFH and EFH HAPC</u></a>	base map for web application and story map
<a href="#"><u>Oculina CHAPC</u></a>	originally created to display proposed alternatives for expansions for Coral Amendment 8, now updated to display proposed alternatives for Shrimp Fishery Access Areas through Coral Amendment 10
<a href="#"><u>Artificial Reefs</u></a>	displays the artificial reef locations and special management zones for several states along the US Southeast Coast, serves as a base map for a story map and web application
<a href="#"><u>SEAMAP-SA FIM Surveys 2022</u></a>	provides an overview of the latest data available for SEAMAP-SA surveys



# ArcGIS Online Web Apps

- Run on any device – desktops, tablets, smart phones
- Customize easily with widgets and themes

Web App	Notes
<a href="#"><u>ACCSP Statistical Areas</u></a>	provides selection tools to view ACCSP landings and value data for SAFMC managed species from 1961 - 2019
<a href="#"><u>SAFMC Managed Areas</u></a>	provides an interface to view and query Marine Protected Areas, Deepwater Coral Habitat Areas of Particular Concern, Spawning SMZs, Special Management Zones, SAFMC Closures and Gear Restrictions
<a href="#"><u>SAFMC Essential Fish Habitat</u></a>	displays available EFH and EFH-HAPCs for many SAFMC managed species
<a href="#"><u>SA Artificial Reefs</u></a>	displays artificial reefs and special management zones in SAFMC's jurisdiction.
<a href="#"><u>SA Fisheries</u></a>	displays the latest SEAMAP-SA survey data; provides tools to query and chart data from the following fishery independent surveys: Coastal Survey, Pamlico Sound Survey, Reef Fish Survey, Longline Survey

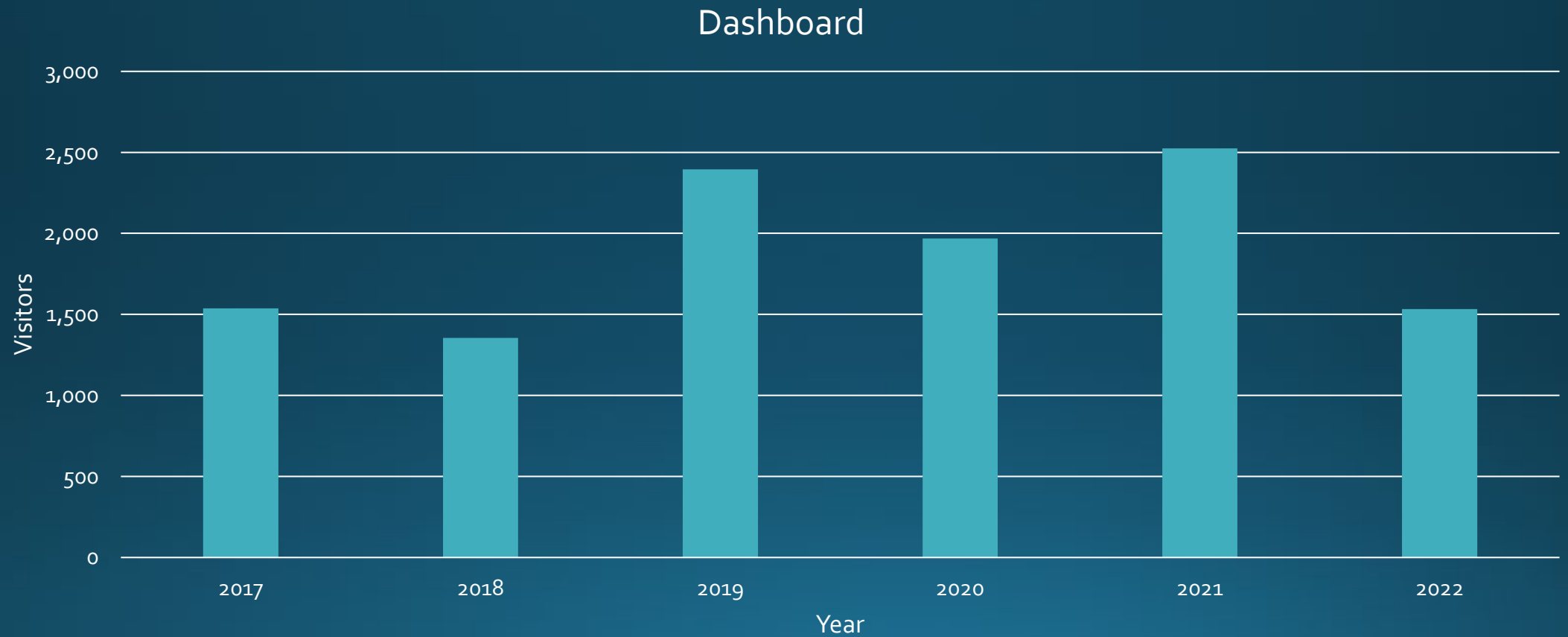
# ArcGIS Story Maps

- Stories can include maps, narrative text, lists, images, videos, embedded items, and other media.
- Published stories each have their own URL, and you can use these URLs to share stories within your organization, to specific groups, or with everyone.
- Collections can include stories and ArcGIS web apps bundled together for easy sharing and presenting.

Story Map	Notes
<u>Marine Protected Areas</u>	SAFMC Deep-water MPAs
<u>Special Management Zones (SMZs)</u>	Gear-restricted areas for snapper-grouper fishery management
<u>SAFMC Collection</u>	“One Stop Shop” for SAFMC Managed Areas
<u>SAFMC Managed Areas</u>	Protecting habitats and ecosystems to support fish stocks
<u>SAFMC Spawning SMZs</u>	provides information about spawning Special Management Zones (SMZs) to protect important areas used by snapper grouper species for reproducing

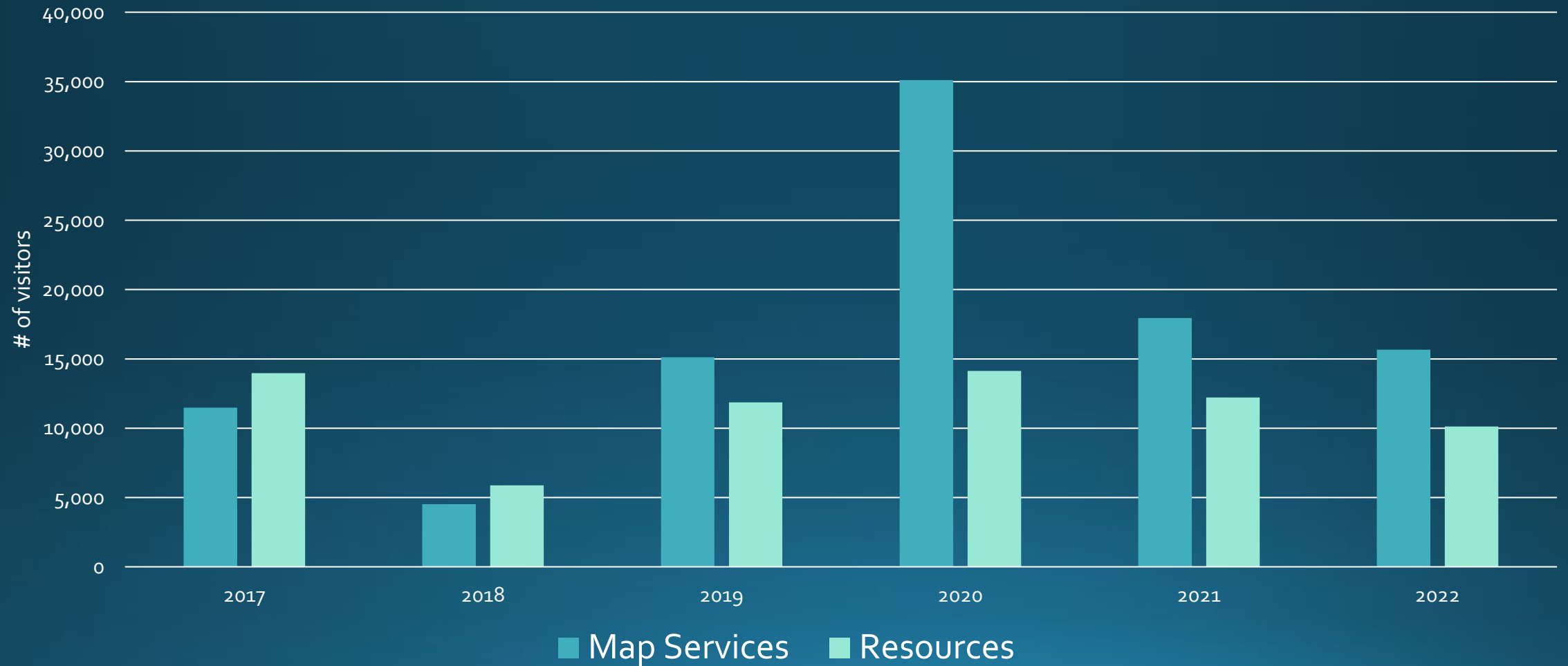
# Web Metrics

# Digital Dashboard Use

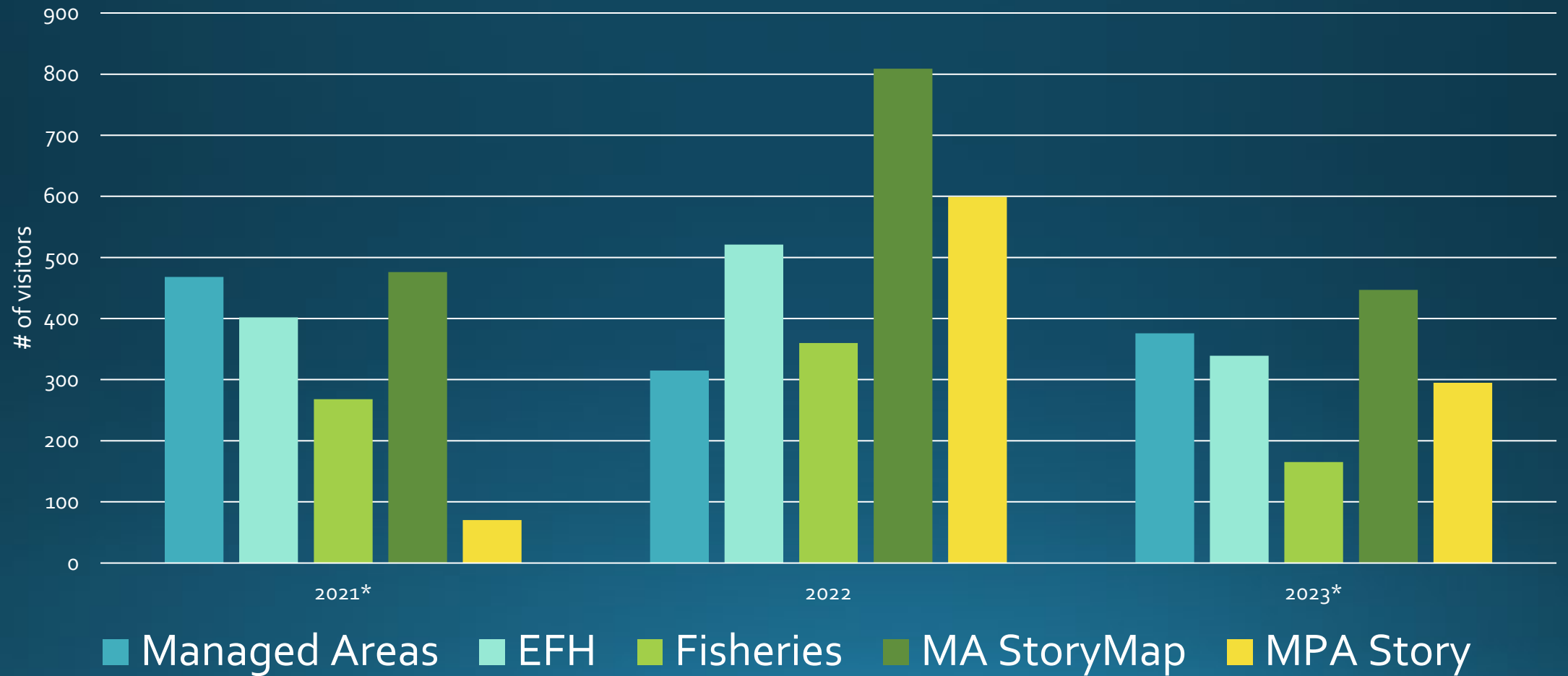


# Web Server Resources

Chart Title



# ArcGIS Online Applications





2021\* Jul - Dec


2023\* Jan - Jun



SAFMC Hub

 SAFMC Atlas   Managed Areas   Fisheries   EFH






# SAFMC

South Atlantic Fishery Management Council

The SAFMC Atlas is a new platform for searching and visualizing GIS data relevant to the Council's mission. You can view story maps, dashboards, web maps and applications. Come explore the marine and fishery resources of the South Atlantic Bight.


## Explore SAFMC Story Maps

Story maps provide an interactive approach to learning more about SAFMC projects and issues. Take a tour of managed areas, the SEAMAP-SA program, and the new approach to protect spawning areas for the snapper grouper complex.




### SAFMC Managed Areas

Protecting habitats and ecosystems to support fish stocks



### Welcome to SEAMAP

The Southeast Area Monitoring and Assessment Program (SEAMAP) is a cooperative program to facilitate the collection, management, and...

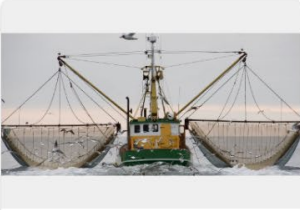


### SAFMC Spawning SMZs

This story map provides information about spawning Special Management Zones (SMZs) to protect important areas used by snapper grouper..


## Explore SAFMC Dashboards

A dashboard is a view of geographic information and data that allows you to make decisions, inform others, and see trends. Dashboards are designed to display multiple visualizations that work together on a single screen.




### ACCSP dashboard

Dashboard o display ACCSP Statistical Areas with related ACCSP non-spatial tables.



### SEAMAP-SA Coastal Survey 2019 dashboard

Dashboard to display the highlights of the 2019 Coastal Trawl Survey sampling season.



### SEAMAP-SA FIM Surveys 2019 Dashboard

Dashboard of SEAMAP-SA surveys

- The launch page of the SAFMC Hub site includes quick access links to many of the SAFMC story maps and operational dashboards.
- The Hub also has dedicated site pages for Essential Fish Habitat, Managed Areas, and Fisheries.
- The [SAFMC Atlas Hub](#) is available for viewing but currently not promoted.

## Explore SAFMC data



Essential Fish Habitat



EFH-Habitat Areas of Particular Concern



Deepwater Coral Habitat Areas of Particular Concern (Coral HAPCs)



Oculina Habitat Area of Particular Concern



Deepwater Marine Protected Areas



Restricted Gear



Special Management Zones



Spawning Special Management Zones



### SAFMC HUB Survey

Initial survey to gain interest in the platform

Take Survey

## Fish Rules

Federal fishing regulations are complex and change regularly based on new management measures and as fisheries open and close with the season once annual catch limits have been reached.

As of January 1, 2018, the Council transitioned to using the Fish Rules mobile app to keep you updated on federal fishing regulations in the South Atlantic. Learn more about the Fish Rules App [here](#).

See Federal Regs

Log Species

Add to Favorites

Open Season

10 Bag Limit

60 Vessel Limit

20" Min Size

Fork Length Measurement



SAFMC Atlas

Managed Areas

Fisheries

EFH

All

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Relevance

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- ☐ Fish and Wildlife Species Locations
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Tags



- smz
- ☐ FISH
  - ☐ EFH
  - ☐ SAFMC
  - ☐ EFH-HAPC
  - ☐ FIM

More

Last Updated



Map

### Spawning SMZs (web map)

Florida Fish and Wildlife Conservation Commission | Tina.Udouj

Type: Web Map

Uploaded: September 16, 2020

Tags: SAFMC, SMZs, South Atlantic Bight

App

### SAFMC Managed Areas Web App

Florida Fish and Wildlife Conservation Commission | Tina.Udouj

Type: Web Mapping Application

Uploaded: January 27, 2020

Tags: MPAs, HAPCs, SMZs, Closures

App

### SAFMC Managed Areas Journal Story Map

Florida Fish and Wildlife Conservation Commission | Tina.Udouj

Type: Web Mapping Application

Uploaded: November 1, 2017

Tags: MPAs, HAPCs, SMZs

App

### SA Artificial Reefs

Florida Fish and Wildlife Conservation Commission | Tina.Udouj

Type: Web Mapping Application

Uploaded: November 11, 2020

Tags: artificial reefs, smzs, Florida, North Carolina, South Ca...

1 - 4 of 4 results

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# Managed Areas

The Council is not only responsible for the conservation and management of fish stocks in the South Atlantic but also the habitats and ecosystems that support fish stocks and other areas of ecological significance. Over the years, the Council has used a variety of management tools to manage and protect both fish and their associated habitats. Click the links below to learn about the Council's efforts on Managed Areas.



## SAFMC Managed Areas

Protecting habitats and ecosystems to support fish stocks

[Explore](#)

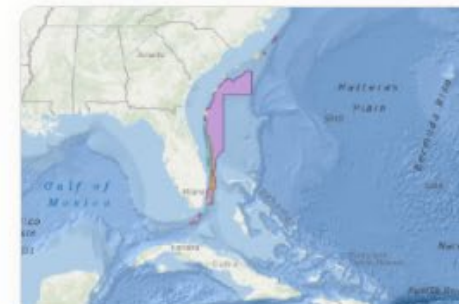
## SAFMC Spawning SMZs

This story map provides information about spawning Special Management Zones (SMZs) to...

[Explore](#)

## SA Artificial Reefs

This web application displays artificial reefs and special management zones in SAFMC's...

[Explore](#)

## SAFMC Managed Areas Web App

Web application to view managed areas in SAFMC's jurisdiction

[Explore](#)

SAFMC Atlas
Managed Areas
Fisheries
EFH

## Managed Fisheries

The SAFMC currently manages eight fisheries. These fisheries include: coastal migratory pelagics, coral and live bottom habitat, dolphin and wahoo, golden crab shrimp, snapper grouper, spiny lobster, and Sangasum. Of these eight fisheries, one contains species that are considered overfished - snapper grouper. Both the recreational and commercial snapper grouper fisheries are highly regulated and progress continues to be made as more species are removed from the overfished each year. The other six fisheries are expected to continue into the future at product sustainable levels.

[Go to the App](#)

## Best Fishing Practices

INTRODUCTION

BEST FISHING PRACTICES

BAROTRAUMA

DESCENDING DEVICES

ON THE WATER RESOURCES

### Introduction

Select [LEARN MORE](#) for additional information

At some point all anglers will be faced with returning fish to the water.

Even though fish are released, some do not survive. Anglers using best fishing practices when releasing fish help increase a fish's chance at survival.

Photo by Michael Kelly

MyFishCount App

[< PREVIOUS](#)
[LEARN MORE >](#)

### ACCSP Statistical Areas 1981 - 2019

Use the selection tools below to view dominant species for the area code and time frame of interest. The charts for each time frame will update according to the selected area(s) in the map. If no area is selected, the chart will display the dominant species for the whole region.

Select a statistical area code to see percentages of live pounds by species

### Years 2016-2019

Non-confidential Commercial Landings

Species	Percentage
SHARP NORTHERN BROWN	14.12%
SHARP NORTHERN WHITE	4.6%
Other	10.2%
MACKEREL SPANISH	9.34%
MACKEREL KING	8.18%

percentage of live pounds by species  
Years 2016 - 2019

The Fisheries page includes:

- a link to the SA Fisheries web app
- [Integrated ACCSP dashboard](#)
- Best fishing practices link



# Essential Fish Habitat

*"The term essential fish habitat means those waters and substrate necessary to fish for spawning, breeding, feeding or growth to maturity." -- Magnuson-Stevens Act §3(10)*

*"...each Council should include EFH considerations within the FEP, using the ecosystem approach to describe such habitat based on the EFH descriptions from existing FMPs." -- Ecosystem Report to Congress, 1999*

Mandates established through the [Magnuson-Stevens Act](#) task the regional Councils to identify, describe, map and protect Essential Fish Habitat (EFH).

Click the link for a table of the South Atlantic Council's EFH Designations and the Fishery Management Plans (FMPs) they pertain to.

A requirement for FMPs is to include maps that display the geographic locations of EFH or the geographic boundaries within which EFH is found. Also FMPs should include maps of Habitat Areas of Particular Concern (HAPCs). HAPCs are subsets of EFH which are rare, particularly susceptible to human-induced degradation, especially ecologically important, or located in an environmentally stressed area. Mapping EFH-HAPCs will make it easier to focus conservation efforts on those areas.

Review the Council's EFH-HAPCs and Coral-HAPCs for applicable protection measures under current FMPs.



Oculina coral thickets - Image courtesy of John Reed/HBOI.

These mandates were established to facilitate the conservation of EFH and to effectively portray this information to fishing industries, regulatory agencies and the public at large. You can access available maps of EFH and HAPCs in the South Atlantic region [here](#).

[Go to the App](#)

*Subscribe to the SAFMC newsletter to get the latest news!*

## Helpful Links

- [South Atlantic Fishery Management Council](#)
- [Fish and Wildlife Research Institute](#)
- [Atlantic States Marine Fishery Commission](#)
- [Southeast Regional Fisheries Center](#)

## Contact Us

- [SAFMC Hub Contact](#)
- [SAFMC EFH Contact](#)

# Thank You!

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