



Economic Contributions of Recreational Fishing — Florida —

4,102,200 anglers spent \$4.3 Billion while fishing in Florida.

Statewide Contributions by Anglers in Florida



\$7.2 Billion



56,750 Jobs Supported

National Contributions by U.S. Anglers



\$129 Billion



826,000 Jobs Supported

Annual U.S. Angler Contributions to Conservation



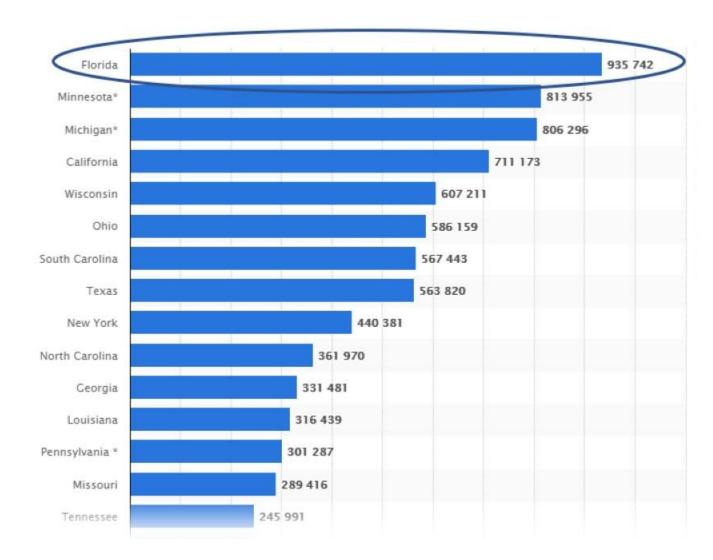
U.S. Anglers by the Numbers



Angler participation and spending presented here reflect 2018 estimates. The 13% increase in license sales in the U.S. through September 2020 compared to the year before, and 66% increase in excise tax collections since 2018 indicate economic contributions for 2020 could be significantly greater.



Number of Recreational Boating Vessels by State, 2019



Sport Fishing and Recreational Boating is a Family and Friends Activity, Found in Bays, Passes, Nearshore and Offshore.







No- Not a Day for Boating or Fishing

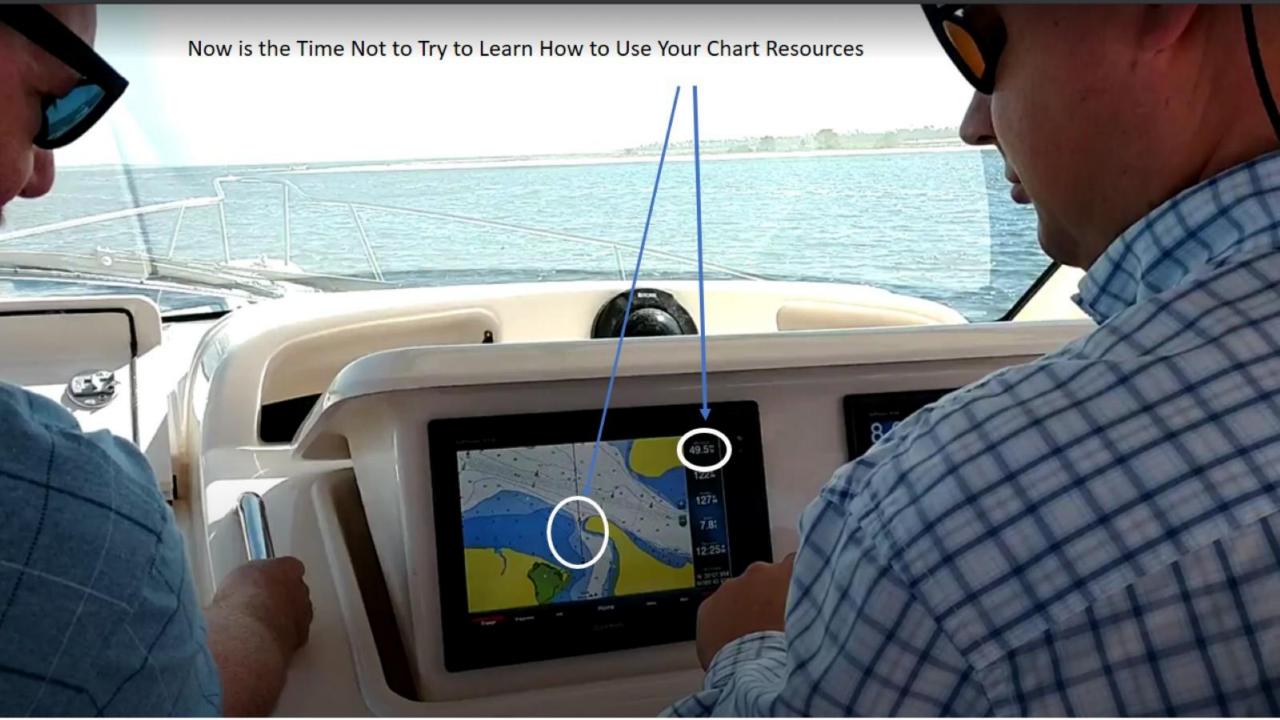
Seminars Like These Provide You With Resource Like-

- -What Will the Day Be on the Water?
- -How Do I get Notified of Severe Weather Events
- -I do I Know Offshore Wave and Marine Conditions?
- -Where Am I (in the use of Charts)?
- -Where Do I Want to Go?
- -How Do I Get There?
- -Can I Get There (Fuel, Boat, Time?)





Everyone is Responsible for Being Safe On the Water...If You Go Out and See a Storm--- Turn Around and Stay Safe!



Starting Points

Where Are You Starting- St Andrews State Park- Do you have your PFDs, Radio, Phone (charged), and All Required Gear? Where Do You Want to Go- Out to the Sea Buoy to Dive and Fish and the Shell Island for Picnic and Shell Collecting What is the Weather and Marine Conditions and Forecasts- NOAA NWS Tallahassee

What Boat Are You Going to Be On?- Size, Fuel, General Condition, Range, What Sea State Can It Handle? Setting Your Distance- 10, 20, 30 miles? Can you make the Outbound Trip and Return with half or a third of a tank of fuel? Setting Your Time for the Day- Early Dawn(even Pre Dawn), later Morning, Lunch or Afternoon? An Evening Excursion

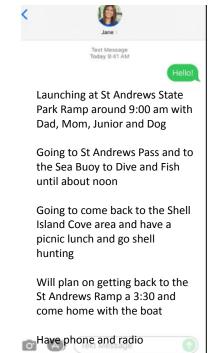
Making Your Trip Plan- And Making It Known!- Telling Someone, More Than One- Stick to the Plan and Check In with

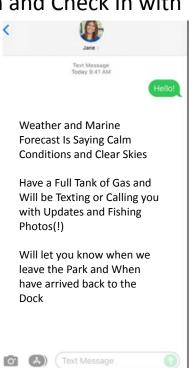
Family and Friends

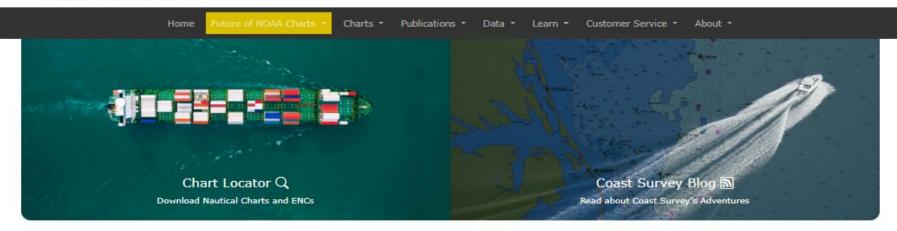














Certified Charts & Products

These products meet U.S. Coast Guard carriage requirements for commercial vessels.

NOAA ENC®

NOAA's vector electronic navigational charts

NOAA Paper Charts

NOAA's traditional paper navigational charts

United States Coast Pilot®

Sailing Directions



General Use Charts

These products do not meet U.S. Coast Guard carriage requirements for commercial vessels.

NOAA Custom Chart

Create and download charts based on your own scale, extent, and paper size settings.

NOAA RNC®

NOAA's raster navigational charts.

Full-size Nautical Charts

Full-size images of nautical charts.

BookletCharts™

Page-size images of NOAA nautical charts.

Historical Charts

Images of maps and charts dating back to 1807.



Chart Viewers

Locate, view, and download various types of NOAA nautical charts and publications.

ENC Viewer

A seamless display of all NOAA electronic navigational charts using ECDIS symbology.

View Nautical Charts Visit the Dates of Latest

Editions list to view individual raster charts.

NOAA Chart Locator

Find, view, and download any NOAA nautical chart product.



https://nauticalcharts.noaa.gov/

Services & Publications

NOAA information, data services, and publications.

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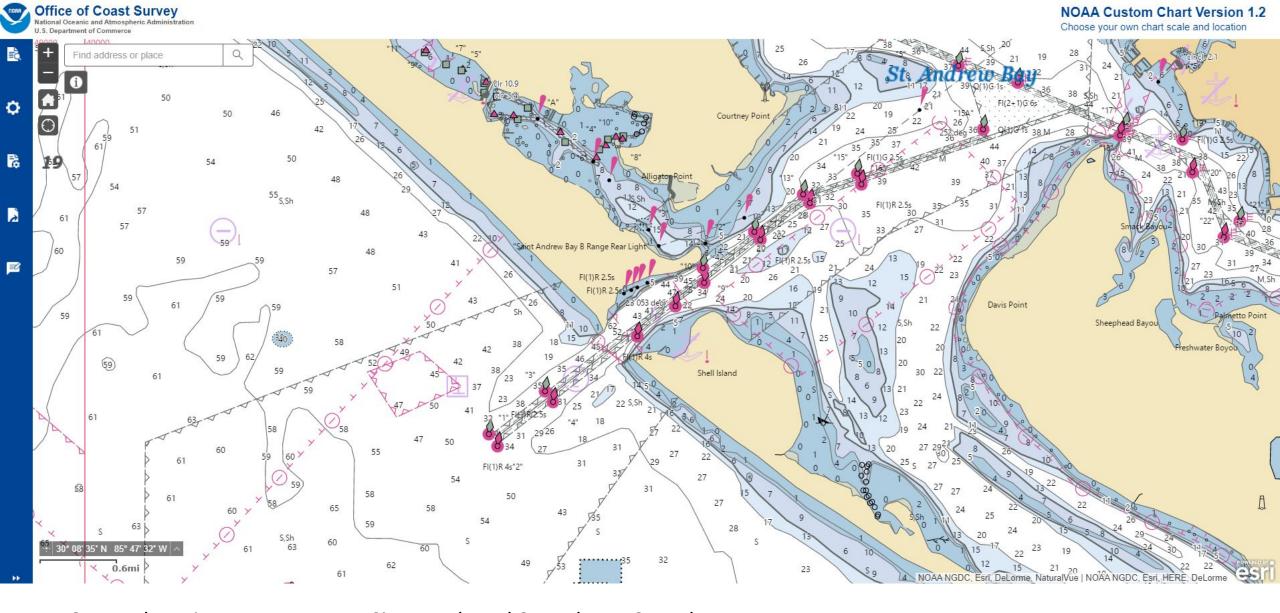
Real-time coastal observations, forecasts, and warnings.

U.S. Chart No. 1

The guide to the symbols, abbreviations, and terms used on NOAA nautical charts and ENCs.

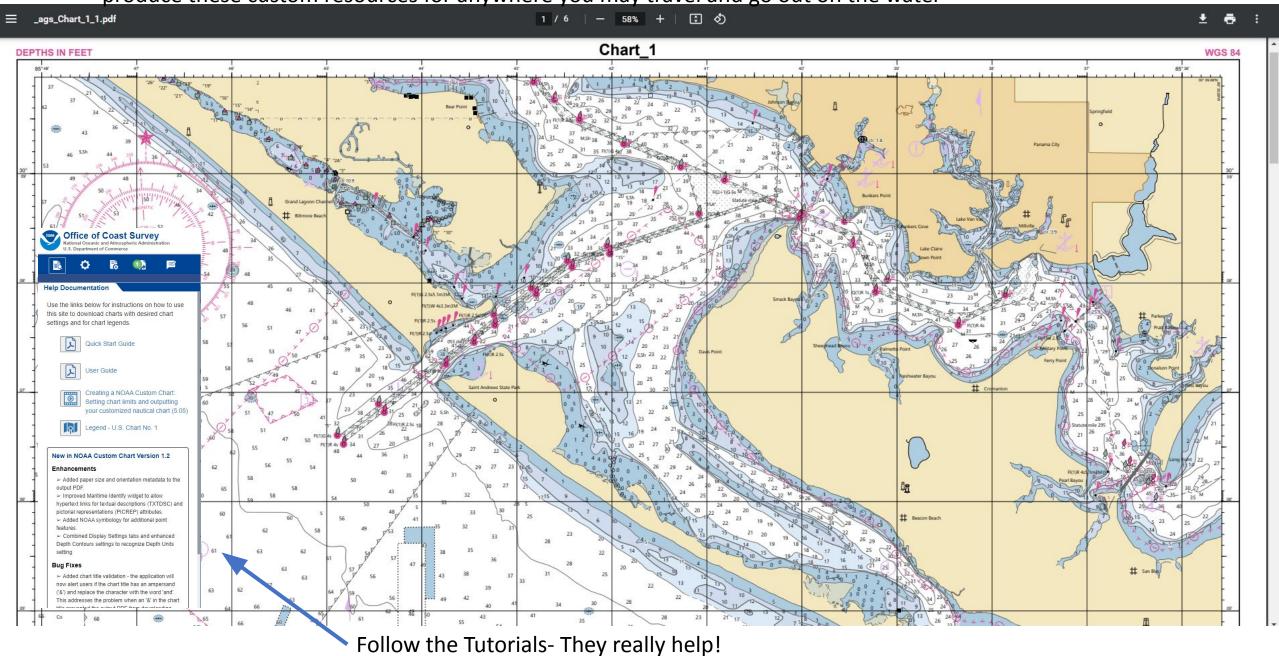
Chart Updates

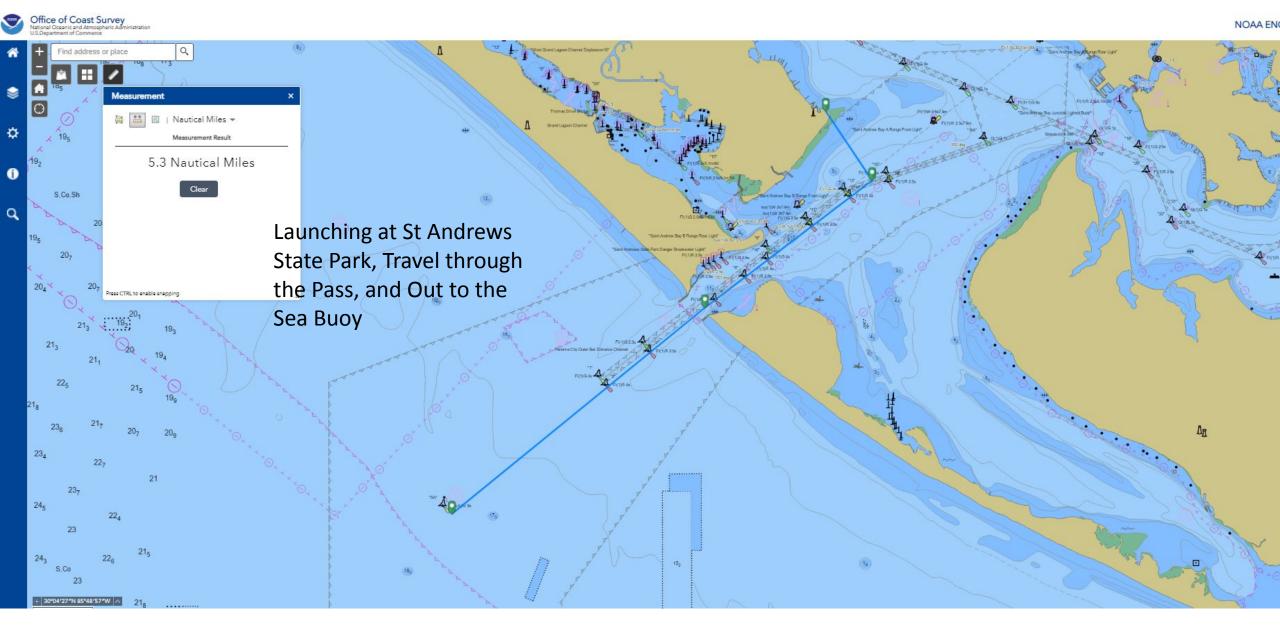
Learn what has changed on NOAA nautical charts and ENCs since the last new edition.



Start Where it Began- Panama City Beach and St Andrews Sound
Use of Coast Survey's Custom Chart Resource to Support a Good Day on Water
https://devgis.charttools.noaa.gov/pod/

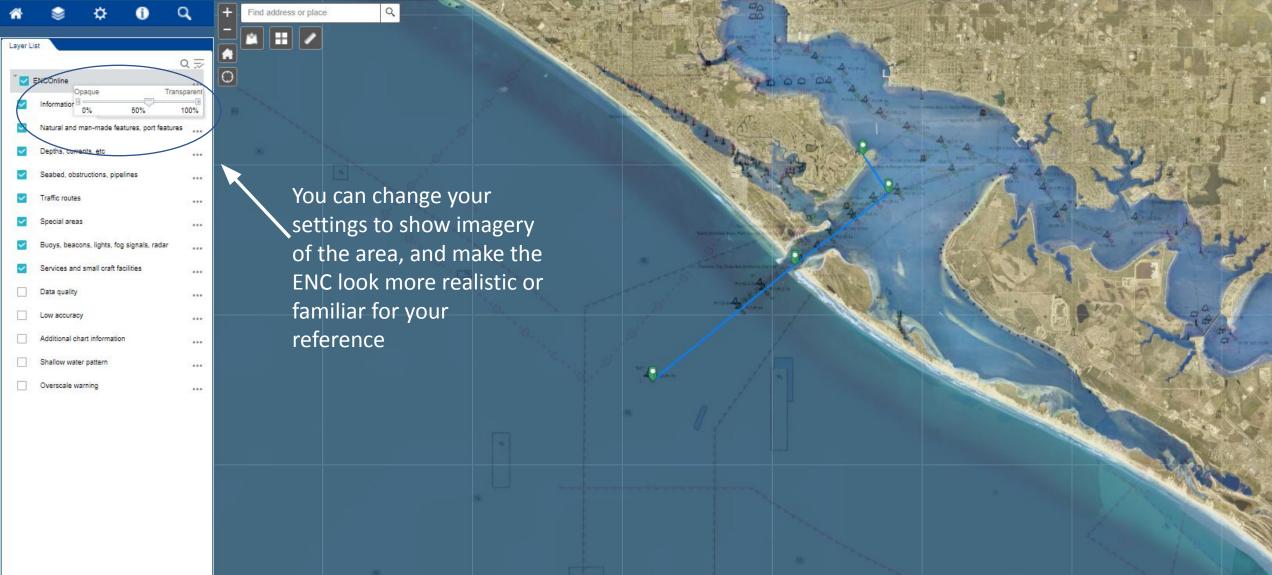
Creating a Custom Chart – A very good way to acquaint you the area you are fishing- and to learn how to produce these custom resources for anywhere you may travel and go out on the water



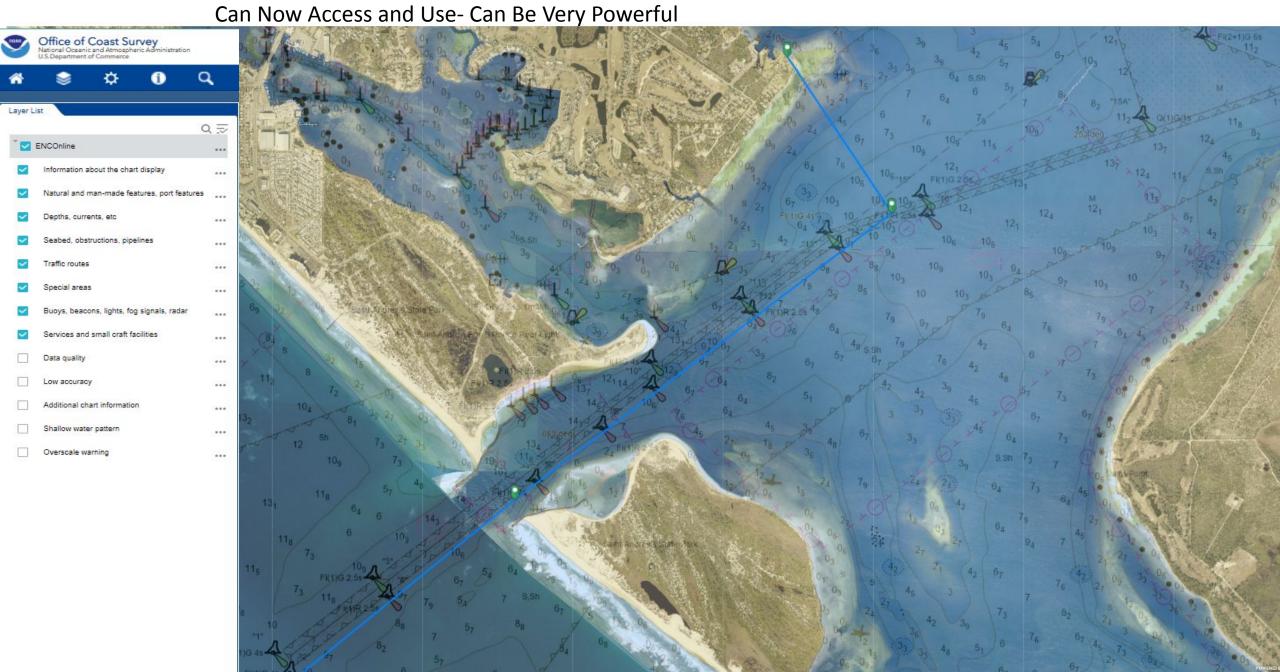


With the Online Viewer, You Can Look at Fishing Destinations and Plan Your Route, the Distances You Will Travel to, and Other Locations You Want to Travel To--- and Return Safely to the Dock





As We Move to ENC's the Future of Charting, Taking Time to Learn the Added Resources You







ENDING RASTER CHART PRODUCTION HOME CHARTS PUBLICATIONS DATA LEARN CUSTOMER SERVICE ABOUT US

NOME OF PUBLICATIONS OF U.S. CHART BA. I COMMAT STREET, ST.

U.S. Chart No. 1 (Chart Symbols)

More than 100 pages of information about nautical chart symbols



U.S Chart No. 1

The Symbol Legend for U.S. Nautical Chart Products

Q Buoys, Beacons

Contact U.S.

Chart No. 1 Edite

U.S. Chart No.

Certified Printer

U.S. Chart No. 1 describes the symbols, abbreviations, and terms used on nautical charts. It is produced by NGAA and the National Geospatial-Intelligence Agency. The symbols for paper charts and their analogous digital products, such as NOAA raster navigational charts (NOAA RINC®) are shown, as well as the symbols used to portray NOAA electronic

purchased from a NOAA control prints

Related Links

AIS Alds to Navigation

Changes Implemented in Edition 15. of U.S. Chart No. 1 2 Symbology Tips for:

The Symbols on the Charts are Not Random- The Link and the Guide Gives You a lot of Good Information to Understand the Charts

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https://nauticalcharts.noaa. gov/publications/docs/uschart-1/ChartNo1.pdf



Nautical Chart Symbology Tips from the Editor of U.S. Chart No. 1*

Fish Havens



Fish havens are artificial shelters made up of rocks, rubble, subway cars, ships, airplanes, specially designed concrete structures, and other objects placed on the sea floor to attract fish and enhance their habitat. They are often located near fishing ports or major coastal inlets. Consisting of rigid materials and projecting above the bottom, they can impede surface navigation and foul anchors. Thus, all fish havens are labeled with the abbreviation "Obste" for obstruction on NOAA charts.

Only fish havens authorized by the U.S. Anny Corps of Engineers are shown on NOAA charts. The Corps specifies an "authorized minimum

depth" for each, which is the shallowest depth to which objects may project toward the surface. For example, the decommissioned U.S. Coast Guard Cutter Duane, shown above, was intentionally sunk in 1987. It lies upright in 120 feet of water near Key Largo, Florida, but its superstructure rises to only 60 feet below the surface. The NOAA chart, shown at right, labels the fish haven with an "auch min 50 ff"



(the minimum refers to the depth to which objects may be added, not necessarily the existing obstructions). The three symbols used to represent fish havens on NOAA charts are shown in the table below

Symbol listed in U.S. Chart No. 1	Symbol	Description A circle is used to depict fish havens that are too small to show their actual size on the nautical chart.		
K 46.1	O Coole Fran Planer			
K 46.2	Code Fish Haves (auth min 42 ft)	Fish havens with an authorized minimum depth of 66 ft (20 meters) or less are charted with a dotted line and tinted blue		
K 46.2	Cleater Flat Haven (auth min 68 ft)	Fish havens with an authorized minimum depth of more than 66 ft (20 meters) are charted with a dashed line with no tint.		

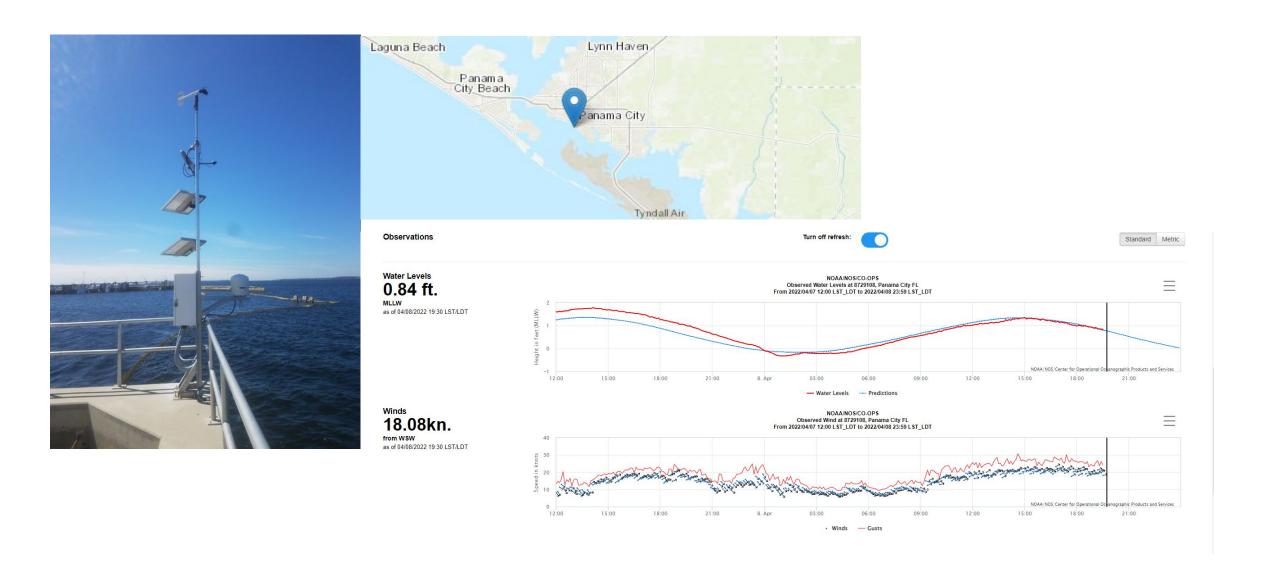
Fishing prohibited or permitted? There is an international symbol to delineate areas where fishing is prohibited (at left and N 21.1 in U.S. Chart No.1). However, NOAA does not show federal, state or local fishing restrictions on its nautical charts. The fish haven symbols, shown in the table above, do not indicate whether fishing is allowed or not. Many fish havens were created to support and encourage recreational fishing, while others have been created specifically to protect fish and fishing may be restricted in these areas. Anglers should check with appropriate authorities before dropping a line within a fish haven to learn what restrictions, if any, may apply.





Boats That You Have, May Be Equipped with Navigation Systems- Closely Tied to NOAAs Chart Resources Learn How to Use Them and Learn What to Do if They Stop Working (!)





You Can Look at 48 Hour Forecasts, Using NOAA Operational Forecast Systems https://tidesandcurrents.noaa.gov/ofs/ofs_station.html?stname=Panama%20City&ofs=ng&stnid=8729108&subdomain=0

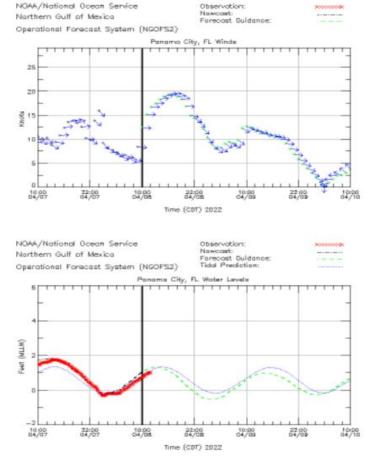
Forecast Guidance Forecast Guidance Forecast Guidance Forecast Guidance Forecast Guidance

Northern Gulf of Mexico Operational Forecast System (NGOFS2)

Panama City (8729108)

All model nowcast and forecast information is based on a hydrodynamic model and should be considered as computer-generated no

This wind time series was created from the surface forcing data of the latest NGOFS2 nowcast and forecast runs. The winds were created by s



Northern Gulf of Mexico Operational Forecast System (NGOFS2) (Please click on the map pins below to access the time series plots) Panama City



The End of the Day

Safe Back On Shore







NOAA/NWS Weather & Navigation Virtual Seminar



Presenters

Lance Franck – NOAA/NWS Tallahassee
Tim Osborn – NOAA Office of Coast Survey

Questions? Contact lance.franck@noaa.gov or tim.osborn@noaa.gov