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## **FISHERIES OCEANOGRAPHIC ANALYSIS FOR THE JACKSONVILLE TO SMYRNA INSHORE AREA (LAT./LONG.)**

**UPDATED ON FRIDAY 10 JULY 2020 FOR FRIDAY P.M. & SATURDAY FISHING ONLY**

Based on a multiple factor analysis, the symbols (hot spot dots) mark the areas where bait concentrations are expected and where fishing action are expected to be better compared with other (non-marked) areas. These are not based on dock rumors or hearsay fishing reports. Fishing reports are stated as such. You should start fishing where you recognize other signs of good fishing conditions near these marked areas. It is very important to use your sea surface temperature (sst°) gauge to locate the boundaries of the water masses, which are outlined. Rather than trying to find water based on the absolute temperature values shown on the map, search for the relative change in sst where the water mass boundaries occur. Arrows indicate the main current direction. Numbers inside of the dots indicate the number of consecutive days that we have seen favorable conditions in that location. 1 fathom = approximately 6 feet. Afternoon SST is likely to be 1.0°F or greater than indicated by the morning calibration on this analysis. **NUMBERS IN PARENTHESIS AFTER LOCATIONS ARE NUMBER OF DAYS THAT SPOT HAS BEEN FAVORABLE.** Fathom Science SST and Ocean Color/Chlorophyll Forecasts now included on final two pages.

We were able to use today's infrared sst° and MODIS/VIIRS/Sentinel chl/ocean color satellite imagery for this analysis area and follow the oceanographic conditions for the past three days. Overall, we have observed a relatively large Gulf Stream eddy formation offshore of the St. Augustine Inlet (centered near 80°16'W & 30°00'N) that will likely be located offshore of the St. Johns River Entrance by tomorrow morning. As this eddy moves to the north/northeast, we anticipate warmer (83°F-84°F) blue water to push northwards towards the 16-20 fathom depths offshore of Jacksonville. Inshore of this eddy filament we have observed remnants of an older eddy formation that have pushed blended blue water inshore towards the 15 fathom depths off Jacksonville to the 12 fathom depths off of St. Augustine. Some of this blended blue water off of St. Augustine appears as though it may be pulled offshore from St. Augustine, over the Red Snapper Sink area, as the larger eddy formation continues to move to the north/northeast. In the southern chart area, persistent inshore cloud cover has made it difficult to accurately calibrate the sst°. We have provided a dotted line to show the location of the main green to blue green color boundary to improve your chances for finding favorable water mass boundary conditions inshore off of Ponce de Leon Inlet. We have included an ocean color/chlorophyll composite image from this afternoon so you can get a sense of where the bluer and greener water is located (email only, white=clouds).

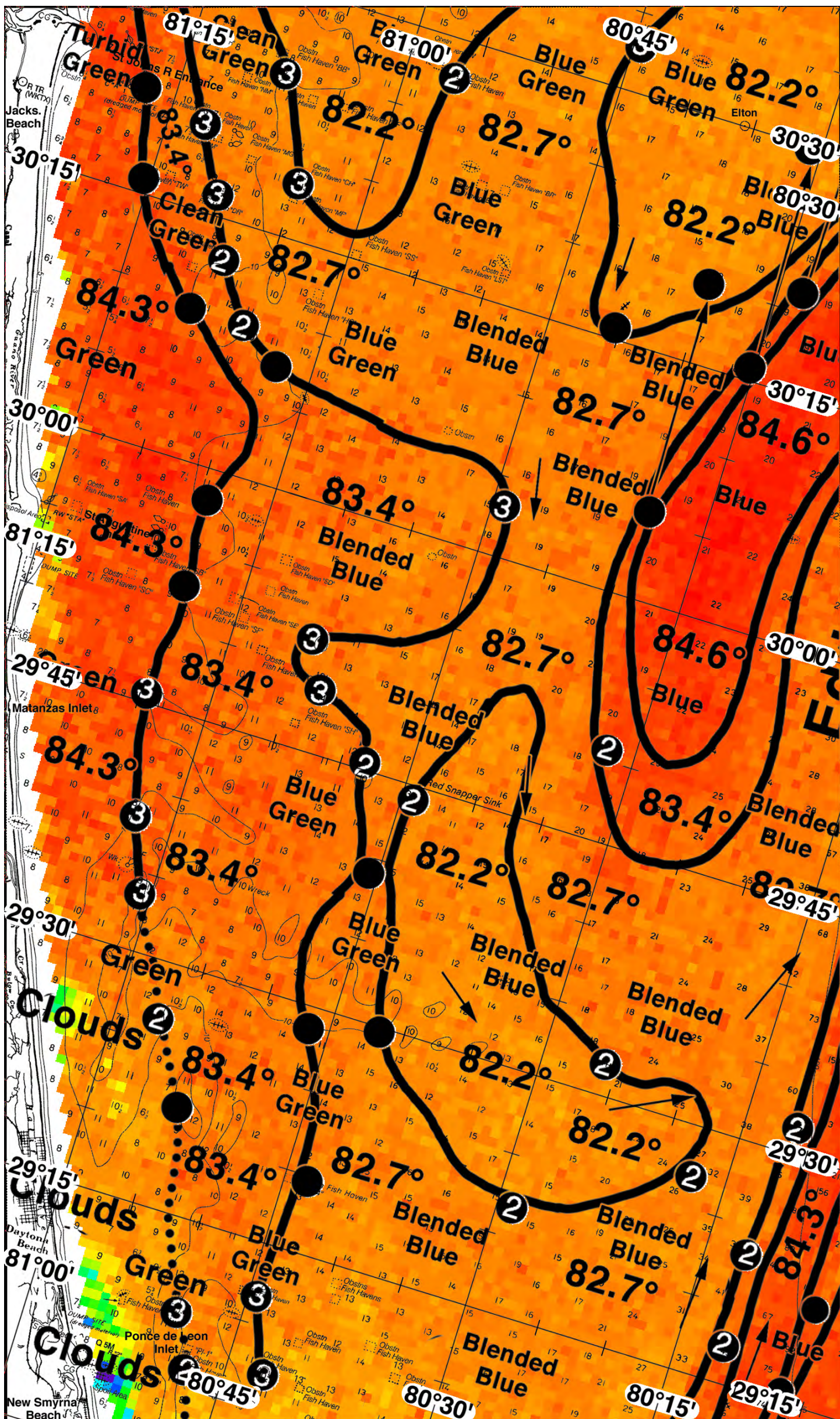
With this in mind, the better chances inshore kingfish fishing action out of Ponce de Leon Inlet is likely to occur near the 10-12 fathom good bottom (near 80°45'W & 29°12'N (3) and 80°43'W & 29°07'N (3)) where we have observed favorable (83°F-82°F) blue green to blended blue water mass boundary conditions for three days. You may also want to continue offshore, towards the 12-15 fathom good bottom further east (near 80°40'W & 29°14'N and 80°35'W & 29°10'N) where cleaner blended blue water mass boundary conditions have also been observed. These conditions suggest good chances for inshore kingfish fishing action to occur. On your way, keep a keen eye out for weedlines, birds, bait, and other signs of life as these are classic signs of water mass boundary conditions. Over the 10 fathom good bottom further inshore (near 80°47'W & 29°06'N (2) and 80°50'W & 29°10'N (3)) favorable (84/83°F) green to blue green water mass boundary conditions have been observed for two to three days as well. If you were interested in heading further offshore, we have observed the western edges of the Gulf Stream over 50-100 fathom good bottom (from near 80°13'W & 29°17'N (2) to 80°11'W & 29°32'N (2)) where favorable (82°F-84°F) blended blue to bluer water mass boundary conditions have been observed for two days. These conditions suggest increased chances for offshore tuna, dolphin, wahoo, and kingfish fishing action to occur as well.

The better chances for inshore kingfish fishing action out of Mayport are likely to begin over eight to ten fathom depths (beginning near 81°12'W & 30°22'N (3), 81°10'W & 30°16'N (3), 81°08'W & 30°13'N (2), 81°05'W & 30°09'N (2), and 81°03'W & 30°07'N) where favorable (83°F-82°F) clean green to blue green water mass boundary conditions have been observed for one to three days. Better chances for inshore kingfish fishing action are also likely to occur over the 10 fathom good bottom east of the St. Johns River Entrance (near 81°05'W & 30°18'N (3) and 81°08'W & 30°20'N (3)) where favorable (82°F) clean green to blue green water mass boundary conditions have been observed for three days as well. These conditions suggest good chances for fishing action to occur. You may also try fishing near the 12 fathom Fish Haven (near 80°56'W & 30°28'N (2)) where similar favorable water mass boundary conditions have been observed for two days, suggesting additional increased chances for fishing action to occur.

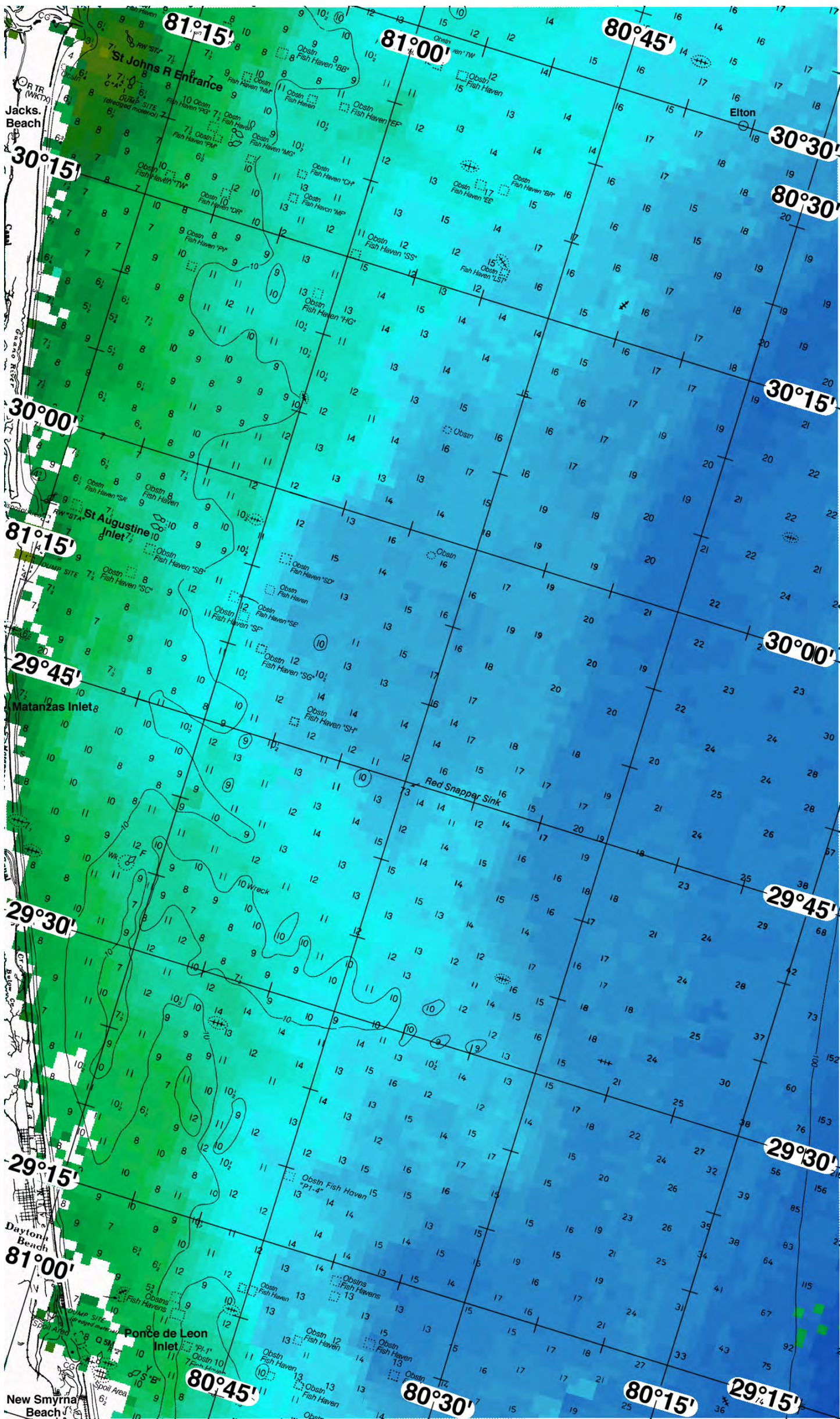
If you were interested in heading further offshore, we anticipate the warmer (82°F-84°F) blended blue to bluer water of the Gulf Stream eddy filament to move northwards, towards the 15-20 fathom depths east of Jacksonville (to near 80°35'W & 30°20'N to 80°30'W & 30°30'N) by tomorrow morning. These conditions suggest additional increased chances for tuna, dolphin, wahoo, and kingfish fishing action to occur as well. Another option, if heading out of St. Augustine, is to head towards the 15-20 fathom good bottom (from near 80°55'W & 29°52'N (3) and 80°53'N & 29°48'N (3) to 80°48'W & 29°45'N (2)) where favorable (83°F-82°F) blue green to blended blue water mass boundary conditions have also been observed for two to three days. These conditions suggest additional good chances for fishing action to occur. However, these areas may begin experiencing unfavorable offshore flow of water as the eddy formation continues to move to the north/northeast. This offshore flow of water is often associated with reduced overall productivity.

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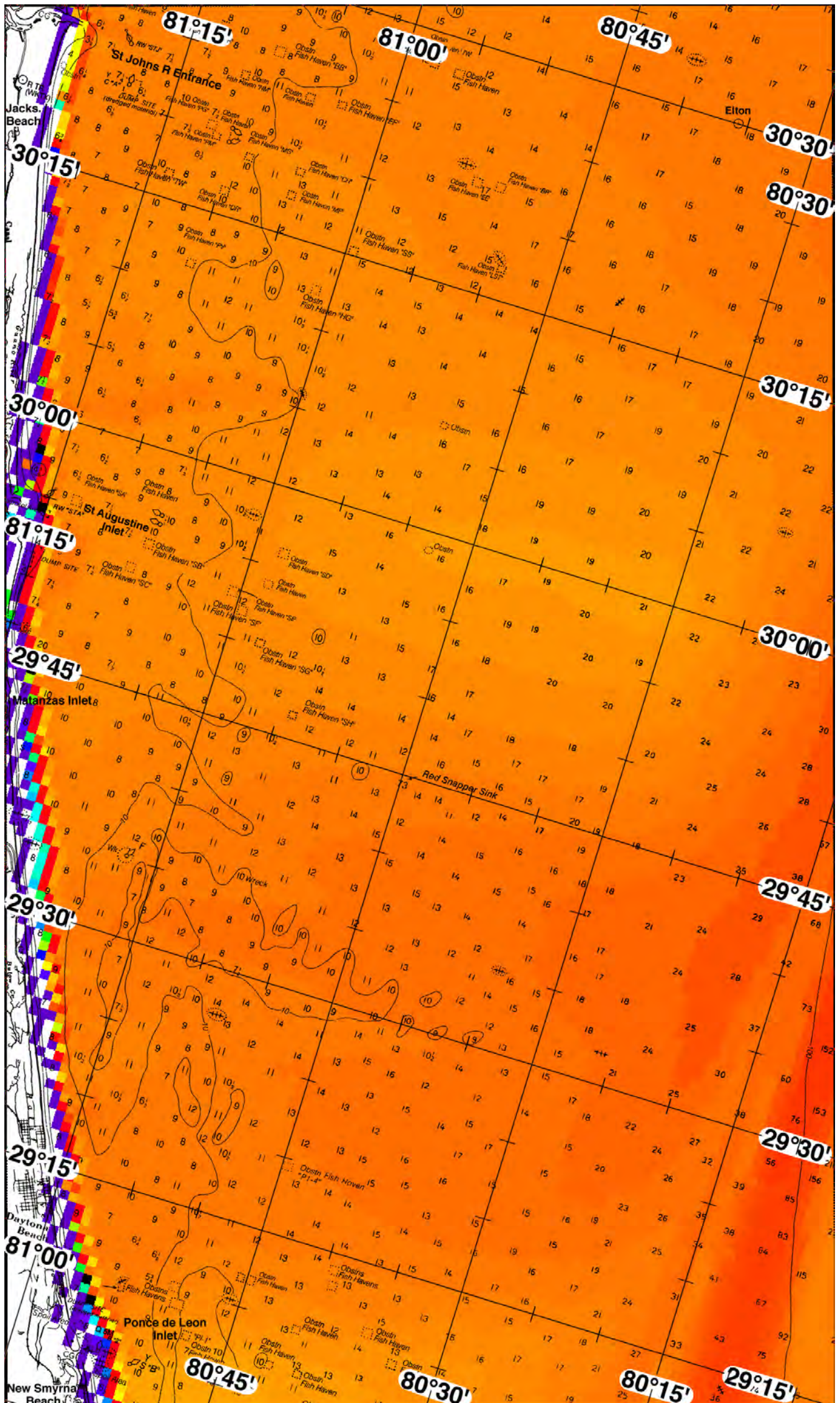






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