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## FISHERIES OCEANOGRAPHIC ANALYSIS

### FOR THE CAPE LOOKOUT INSHORE AREA (LAT./LONG.)

#### UPDATED ON FRIDAY 11 SEPTEMBER 2020 FOR FRIDAY P.M. AND SATURDAY FISHING ONLY

Based on a multiple factor oceanographic analysis, the indicated areas (hot spot dots) on the analysis mark the areas where bait concentrations are expected and where fishing action is expected to be better compared with other areas. Numbers inside of the hot spot dots indicate the number of consecutive days that we have seen favorable oceanographic conditions in that location. These areas are not based on dock rumors or hearsay fishing reports, they are based on oceanographic knowledge and expertise. You should start fishing where you recognize other signs of good fishing conditions near these marked areas (ie. rips/slicks, weed lines, birds, etc). It is very important to use your sea surface temperature (SST) gauge to locate the boundaries of the water masses, which are outlined in black. PLEASE REMEMBER, rather than trying to find water masses 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. 1 fathom = approximately 6 feet. Afternoon SST is likely to be 1.0°F or more WARMER than indicated by the morning SST calibration on this analysis. NUMBERS IN PERENTHESIS AFTER LOCATIONS ARE NUMBER OF DAYS THAT SPOT HAS BEEN FAVORABLE. **We now provide cloud-free SST and ocean color/chlorophyll data from our new partner Fathom Science™ for at 6am forecast for the next day. This data is cutting-edge, high resolution, cloud-free modeled data that has been evaluated and validated by ROFFS™ along with other oceanographic scientists and proven to be the most accurate cloud-free data available to guide you in the right direction to increase your chances for fishing action. The cloud-free data will not be as accurate as the real time satellite imagery, but it will guide you to the general area for the better features, especially when it is cloudy. For more information please visit <https://www.roffs.com/faqs/>.**

We were able to provide this analysis using a combination of infrared sst° and MODIS/VIIRS color/chlorophyll satellite imagery from this afternoon to increase your chances of kingfish. Please keep in mind that your better chances for kingfish action are likely to occur where you locate either the SST and/or the ocean color (greener to bluer) water mass boundaries especially over good bottom structure. When making a decision on where to fish for kingfish please keep in mind that the favorable conditions with that intermediate water clarity and chlorophyll + CDOM (clean green, blue-green to blended blue water) are likely MORE favorable than the green turbid inshore waters based on research. Also, keep in mind that a sudden change of wind direction will destabilize the indicated water mass boundaries, and also a steady strong wind in one direction will move the water mass boundaries according to the wind direction. The wind is currently out of the northwest at 5 knots and is forecasted to be out of the northeast at 10-15 knots tomorrow so plan accordingly.

Overall, the Gulf Stream is 85.8°F and is within the charted area along 20-22 fathoms due to a large eddy just east of the charted area near 76°25'W & 34°00'N pushing blue 84.7-85.8°F water southwest to approximately 77°00'W where we've observed the associated offshore flow. By tomorrow, we expect this eddy will continue along the Gulf Stream, resulting in the large offshore associated with the eddy moving into the southwestern offshore area. Looking inshore, we've observed cooler green water pulling off of Cape Lookout and flowing along the western Gulf Stream edges creating favorable water mass boundaries. Looking inshore east of Cape Lookout, we've observed a filament of 83.9°F blended blue water flowing southwest along 15-20 fathoms to approximately 76°07'W creating favorable conditions in the area. Looking west of Cape Lookout, the inshore area is dominated by 83.9°F blended blue water to approximately 12 fathoms. 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).

**Cape Lookout South and East:** For those of you coming out of Hatteras, conditions indicate your best chances for kingfish as well as tuna, dolphin, and wahoo action along the green to blue 81.9-84.7°F water mass boundaries we've observed over 22-30 fathoms off of Cape Lookout near 76°24'W & 33°25'N (2) to 76°24'W & 34°19'N (2), 76°04'W & 33°25'N (2) to 76°04'W & 34°18'N (2), and 75°53'W & 34°31'N to 75°53'W & 34°28'N.

*Continued on the next page....*

Further inshore we also like the green to blended blue 81.9-82.7-83.9°F filament edges we've observed over good bottom along 15 to 20 fathoms. We've observed a favorable blue green to blended blue 81.9-82.7°F water mass boundary over the Fish Haven near 75°57'W & 34°56'N (2) for two days indicating this may be the best area along this edge. If this area isn't as productive as you'd like, you may additionally want to fish this edge southwest over relatively along 76°17'W & 34°47'N (2) or work offshore to the blue green to blended blue edges we've observed along 16 fathoms near 75°20'W & 34°53'N (2) to 76°05'W & 34°50'N. Looking inshore along the cooler greener boundaries, we've additionally observed a favorable green 80.7-81.9°F edge over good bottom near 76°05'W & 35°00'N over 6 fathoms south of Portsmouth Inlet and along 10 fathoms near 76°15'W & 34°52'N south of Core Banks.

**Cape Lookout South and West:** For those of you interested in fishing off of this area, conditions indicate your best chances for kingfish will occur along the green to blended blue filament edges we've observed over good bottom inshore along 12 fathoms near 76°55'W & 34°30'N (2) to 76°40'W & 34°40'N. Looking further inshore, you may additionally find action along the cooler greener edges along 8-10 fathoms over good bottom such as the Dumpsite near 76°40 & 34°38'N (2). Looking further offshore for an additional chance of kingfish as well as tuna, dolphin, and wahoo, we like the 84.7°F blue eddy edge near 76°45'W & 34°10'N to 76°23'W 34°19'N (2).

**ROFFS™ Summer Hours: Mon – Fri. 9:00 am – 7:00 pm EDT (sometimes later based on demand) with analysis order deadline before 3pm. We are now open on Saturdays 9AM to 4PM (sometimes we close earlier based on demand) analysis order deadline is 10:00am on Saturday.** *Thank you for not sharing this analysis with non-paying anglers.* Remember you can order and/or purchase your fishing analyses from our website (<http://www.roffs.com/>) or by email ([fishing@roffs.com](mailto:fishing@roffs.com)). Verbal updates are free while on the water between 10:30 AM and 11:59 AM (eastern time).

**The ROFFS™ Graphic analysis is on the next page.**















