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FISHING@ROFFS.COM



321.723.5759



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FISHERIES OCEANOGRAPHIC ANALYSIS FOR THE HUDSON CANYON – HYDROGRAPHER CANYON OFFSHORE (LORAN) UPDATED ON WEDNESDAY 12 JULY 2023 FOR WEDNESDAY P.M. & THURSDAY FISHING

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 PARENTHESES 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 have used a composite of infrared sea surface temperature imagery from today to provide an update to this analysis. We were also able to provide an updated ocean color chlorophyll composite image from today to help you locate color boundaries. We have observed rapid heating of sea surface temperatures in this area lately. As always, we suggest looking for relative temperature changes rather than specific temperatures. We have been able to follow the oceanographic conditions in this area for up to the past 4 days. Generally, the inshore waters in this charted area are turbid green to clean green. Offshore, we can observe warmer and cleaner water, with blue to blue green filaments between about 76°F and 82°F visible in this area. There is a large strong clockwise rotating eddy centered in the southeastern charted area. This large eddy is rotating and pulling some warmer water north and then east off the East Atlantis to Veatch Canyon area. We expect primarily unfavorable offshore flow east of Hydrographer Canyon. We can also observe a weaker counter clockwise rotating eddy located off of the Atlantis Canyon area, which is pulling some warmer water north and then west before turning offshore. An additional clockwise eddy is east of the Hudson Canyon area in approximately 500 fathoms. We can also observe a small counter clockwise eddy just south of the Hudson Canyon. We expect all these eddies to be moving west by southwest slowly. We can observe a series of filaments of warmer and cleaner water pushing inshore in the northern charted area. Keep in mind we expect these filaments to be moving west by southwest slowly. We have included an ocean color chlorophyll composite image from this afternoon to help you locate the bluer and greener water masses in the area. We suggest referring to the included ocean color chlorophyll image for help locating the edges of cleaner water masses.

Keeping all of the above in mind, we suggest that the best conditions in this area for tuna and billfish species, as well as mahi and wahoo action will be along the edge of the warmest blue to blended blue water located near the Canyons in the eastern charted area. Starting offshore, we can observe approximately 81°F blue water moving in a favorable inshore direction over approximately 1000 fathoms between about 14220 & 43190, 14190 & 43180 (2), 14090 & 43190 (2), and 14000 & 43170. Just inshore, we can observe a narrow filament of approximately 80°F blended blue water being pulled west by the counter clockwise eddy. Look for this filament along about 100 fathoms between 14060 & 43240 (4), Veatch Canyon around 14110 & 43250 (4), East Atlantis Canyon near 14205 & 43250 (2), and finally 500 fathoms around 14310 & 43240 (2). Further inshore, we can observe a second favorable filament pulling west, look for 79°F blended blue water over the wreck around 14140 & 43300, the wreck near 14190 & 43310 (4) and the Atlantis Canyon located around 14270 & 43330 (4). Further inshore, we can observe a strong temperature and color break in the flats behind the Atlantis and Veatch Canyons. Look for this strong break holding approximately 78°F blended blue water starting over the wreck near 14070 & 43290 (4), and the wreck in 55 fathoms near 14150 & 43340 (2). Continuing west in this area, we can observe favorable inshore movement of 77°F to 78°F blended blue water inshore of Atlantis Canyon, look for this filament over about 50 fathoms between 14240 & 43410 and 14300 & 43440 (3). From here this filament turns west and weakens, with about 75°F water along 55 fathoms near 14400 & 43460 (2) and the structure near 14490 & 43410 (2).

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For those fishing in the western charted area, we suggest the most favorable conditions for tuna and billfish species, as well as mahi and wahoo action will be along the warmer blue water being pulled inshore by the clockwise rotating eddy shown centered east of the Hudson Canyon area in approximately 500 fathoms. We expect this clockwise rotation to bring nearly 79°F water inshore starting off of Hudson Canyon mouth near 14960 & 43010, the Jones Valley area around 14910 & 43095 (3), and inshore to about 100 fathoms near 14830 & 43270. The northern push from this eddy has blended blue water of about 78°F over the Sea King wreck around 14890 & 43305 (3) and over the Dip located near 14790 & 43300 (4). The eastern edge of this eddy core is expected to turn offshore over the Lobster Claw area in about 500 fathoms around 14790 & 43210 (3). In the Hudson Canyon area, we can observe a small counter clockwise eddy centered south of the Canyon. Look for a favorable filament of warmer blended blue water on the north side of the eddy moving in a favorable inshore direction starting around the Torpedo near 14940 & 43180 (2), to around 15000 & 43110 (3), and crossing the mouth of the Canyon to 15040 & 43090 (2). For those fishing further inshore, we suggest referring to the included ocean color chlorophyll imagery for help locating cleaner water edges. We expect blue green water of about 76°F over the tip of Hudson Canyon around 15050 & 43180 (4) and up to the Sagun wreck located near 14920 & 43270. Further north, we can observe a filament of blue green water reaching the Sunoco wreck near 14800 & 43600 (2) and the Outer Butterfish Hole located around 14660 & 43590 (3).

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