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## **FISHERIES OCEANOGRAPHIC ANALYSIS FOR VEATCH CANYON TO POWELL CANYON OFFSHORE (LAT LONG) 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/>

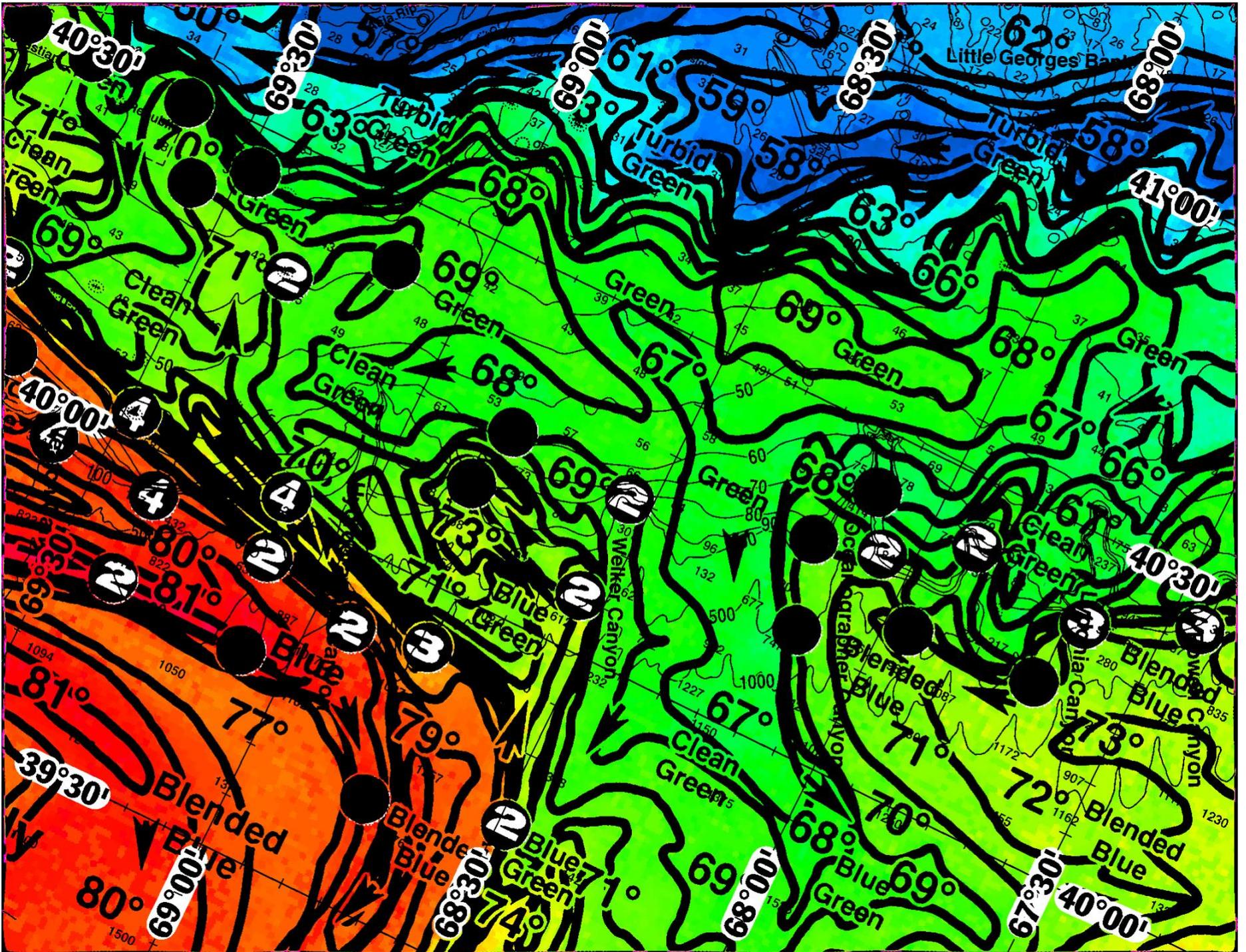
We have used a composite of infrared sea surface temperature imagery from today to provide an update to this analysis. We were also able to provide an updated ocean color chlorophyll composite image from today to help you locate color boundaries. We have observed rapid heating of sea surface temperatures 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 southwestern 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 strong offshore flow of cooler green water east of Hydrographer Canyon. We can observe a small filament of slightly cleaner and warmer water pulling back inshore towards just west of the Welker Canyon area. In the southeastern charted area, we expect some clean water between about Lydonia and Powell Canyon. 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.

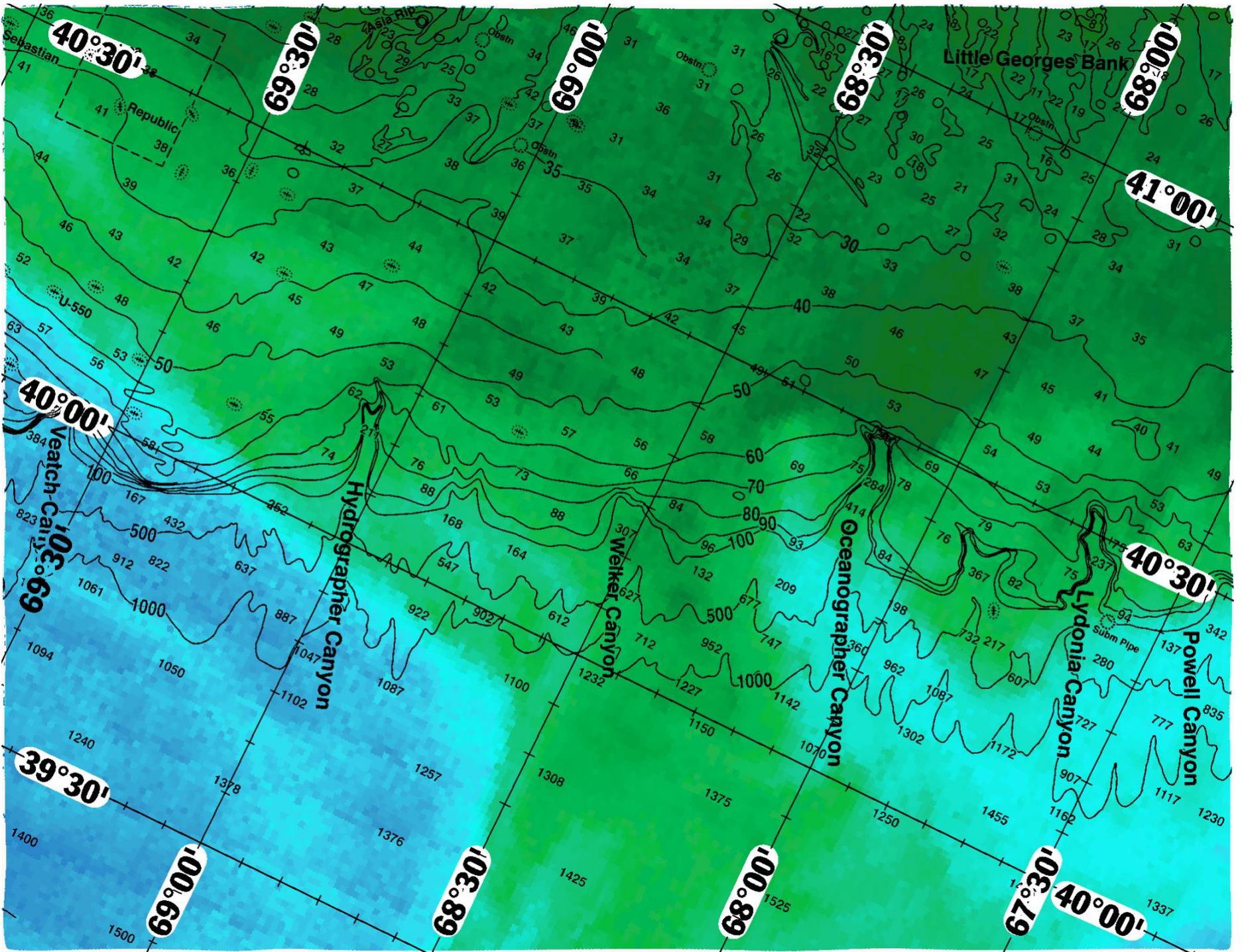
Keeping all of the above in mind, we suggest that the best conditions in this area for tuna and billfish species, as well as mahi and wahoo action will be along the edge of the warmest blue to blended blue water located near the Canyons in the eastern charted area. Starting offshore, we can observe approximately 81°F blue water moving in a favorable inshore direction over approximately 1000 fathoms between about 69°54'W & 39°46'N, 69°40'W & 39°45'N (2), 69°22'W & 39°49'N (2), and 69°06'W & 39°48'N. From here the strong edge heads offshore along the eastern side of the eddy beyond 1000 fathoms near 68°45'W & 39°40'N. 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 69°22'W & 39°56'N (4), Veatch Canyon around 69°36'W & 39°56'N (4), East Atlantis Canyon near 69°55'W & 39°57'N (2), and finally out to 500 fathoms around 70°15'W & 39°54'N (2). Further inshore, we can observe a second favorable filament pulling west, look for 79°F blended blue water over the wreck around 69°45'W & 40°04'N, the wreck near 69°55'W & 40°06'N (4) and the Atlantis Canyon located around 70°10'W & 40°06'N (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 69°30'W & 40°02'N (4) and northwest to the wreck in 55 fathoms near 69°50'W & 40°09'N (2).

***Continued on the next page...***

In the eastern charted area, we expect primarily unfavorable offshore flow of cooler green water as a result of the strong clockwise eddy rotation. We suggest referring to the included ocean color chlorophyll image for help locating the edges of cleaner water masses. A small filament pulling northwest may be off of the Welker Canyon area tomorrow near 68°31'W & 40°05'N, with slightly cleaner green water reaching all the way inshore to 68°50'W & 40°10'N. Further east, we can observe a favorable edge of clean blended blue 71°F to 73°F water offshore of the Lydonia and Powell Canyons. Look for these conditions along about 100 fathoms over the Canyon mouths between 67°37'W & 40°24'N (3) and 67°28'W & 40°27'N (3). Clean water of approximately 70°F continues west to the mouth of Oceanographer Canyon located between 68°04'W & 40°21'N (2) and 68°10'W & 40°19'N.

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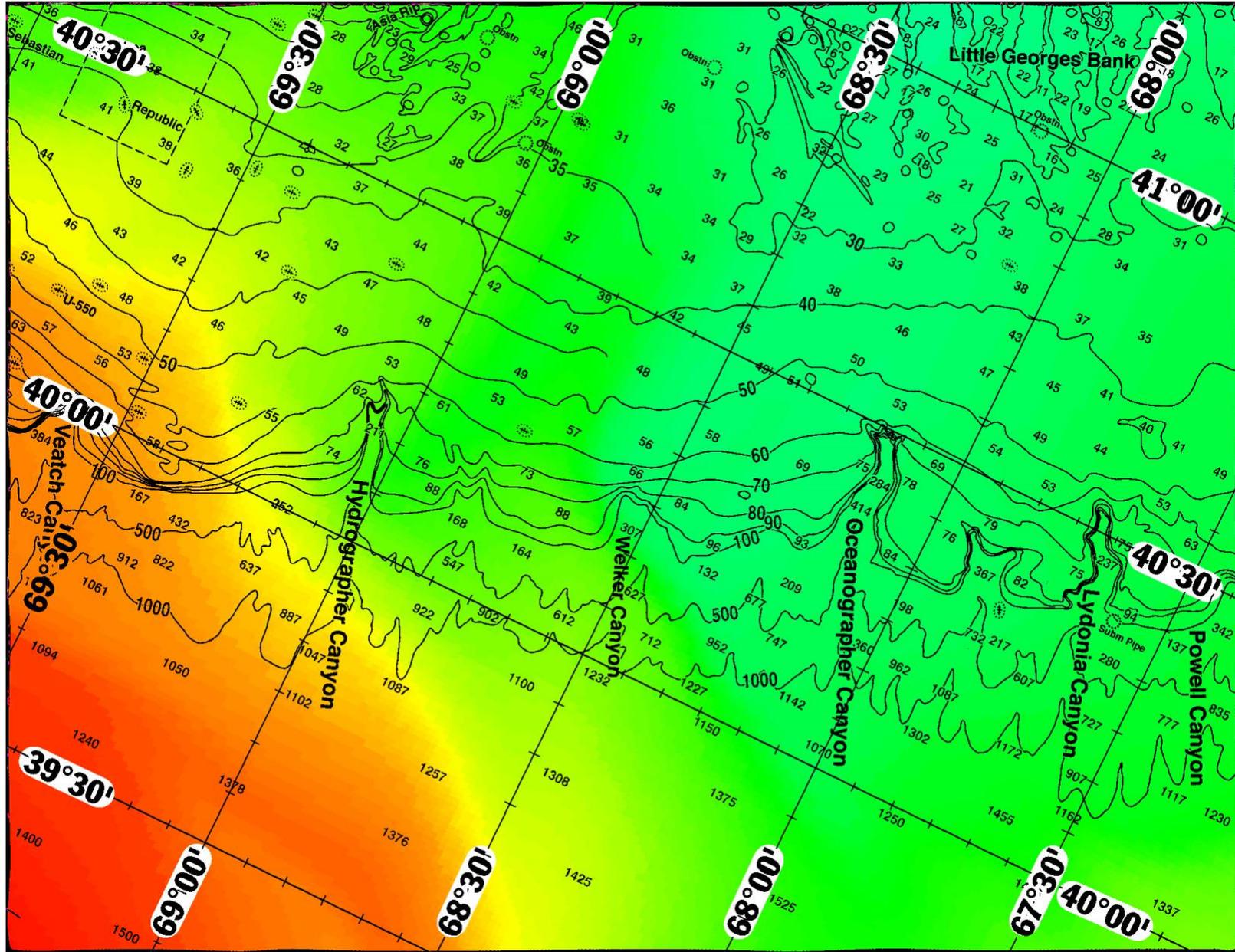






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