

1.4. Zoning

1.4.1. The water level station at Charlotte Amalie, St. Thomas (9751639) is the reference station for predicted tides for hydrography at Crown Bay, St. Thomas, VI. The time and height correctors listed below for applicable zones should be applied to the predicted tides at the station indicated during the acquisition and preliminary processing phases of this project.

Predictions may be retrieved in one month increments over the Internet from CO-OPS SOAP web services at <http://opendap.co-ops.nos.noaa.gov/axis/text.html>. The contractor must notify the COTR or the COTR's authorized representative immediately of any problems concerning the predicted tides. Predictions are six-minute time series data relative to MLLW in metric units on Greenwich Mean Time. For the time corrections, a negative (-) time correction indicates that the time of tide in that zone is earlier than (before) the predicted tides at the reference station. A positive (+) time correction indicates that the time of tide in that zone is later than (after) the predicted tides at the reference station. For height corrections, the water level heights **relative to MLLW** at the reference station are multiplied by the range ratio to estimate the water level heights relative to MLLW in the applicable zone.

<u>Zone</u>	<u>Time Corrector (min)</u>	<u>Range Ratio</u>	<u>Predicted Reference Station</u>
VIR4C	-6	1.08	9751639
VIR24	0	1.01	9751639

1.4.2. Polygon nodes and water level corrections referencing Charlotte Amalie, St. Thomas (9751639) are provided in ASCII format denoted by a *.zdf extension file name. Zoning diagrams, created in MapInfo, are provided in both digital and hard copy format to assist with the zoning. Longitude and latitude coordinates are in decimal degrees. Negative (-) longitude is a MapInfo representation of West longitude.

“Preliminary” data for the control water level station, Charlotte Amalie, St. Thomas (9751639), are available in near real-time and verified data will be available on a weekly basis for the previous week. **These water level data may be obtained from CO-OPS SOAP web services at <http://opendap.co-ops.nos.noaa.gov/axis/text.html>.**

Please contact the Office of Coast Survey COTR **before** survey operations begin and **once survey operations are completed** so that this project number and the appropriate CO-OPS NWLON (National Water Level Observation Network) water level stations are added to or removed from the CO-OPS Hydro Hot List (<http://tidesandcurrents.noaa.gov/hydro>).