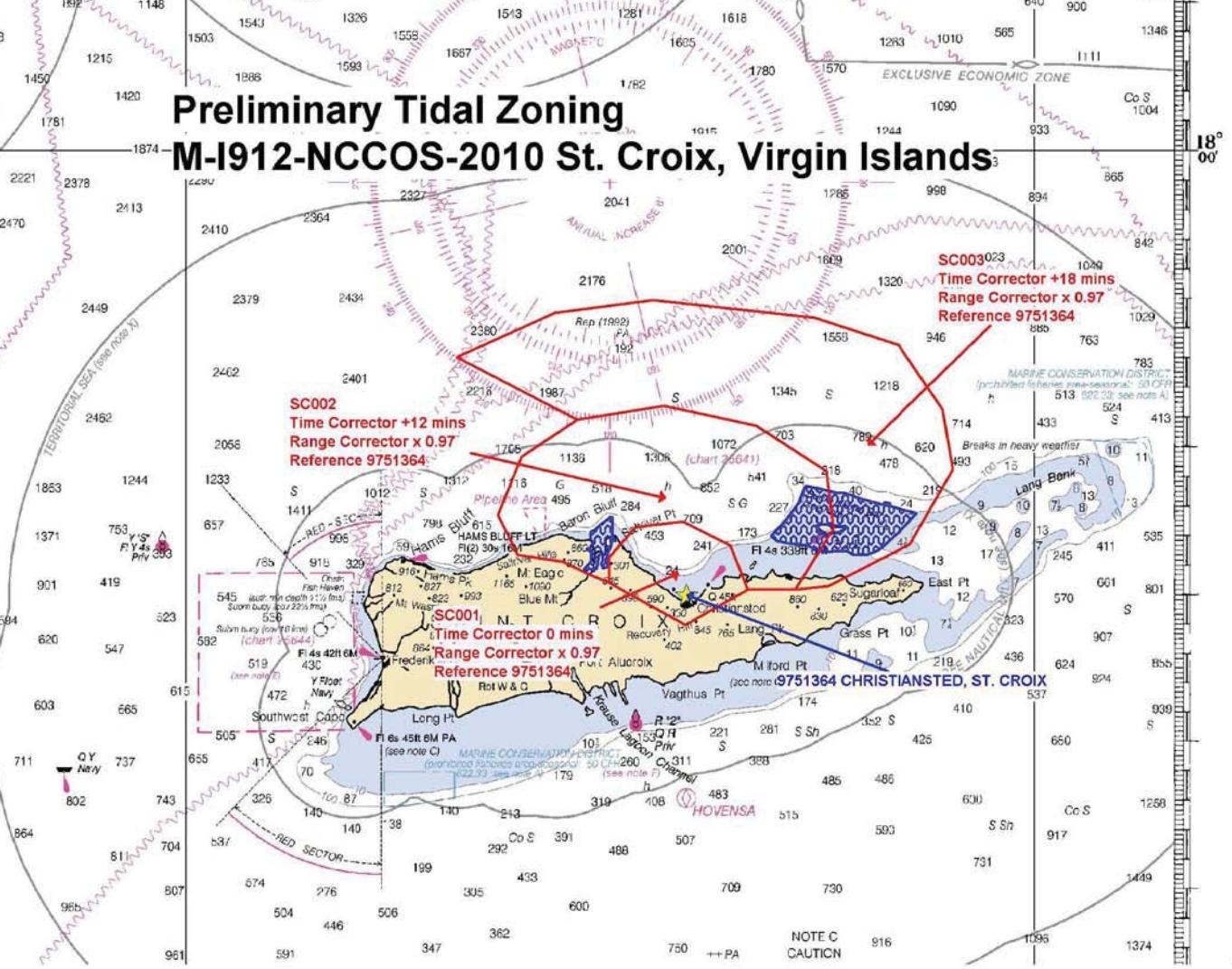


# Preliminary Tidal Zoning

## M-I912-NCCOS-2010 St. Croix, Virgin Islands



**1.4.1.** The water level station at Christiansted, St. Croix (975-1364) is the reference station for preliminary tides for hydrography in St. Croix, VI. The time and height correctors listed below for applicable zones should be applied to the preliminary data at Christiansted, St. Croix (975-1364) during the acquisition and preliminary processing phases of this project. **Preliminary data may be retrieved in one month increments over the Internet from the CO-OPS SOAP web services at <http://opendap.co-ops.nos.noaa.gov/axis/text.html>.** The Commanding Officer (or Team Leader) must notify CO-OPS/ED personnel immediately of any problems concerning the preliminary tides. Preliminary data 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 preliminary 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(mins)</u>	<u>Range Ratio</u>	<u>Predicted Reference Station</u>
SC001	0	x0.97	9751364
SC002	+12	x0.97	9751364
SC003	+18	x0.97	9751364

**1.4.2.** Polygon nodes and water level corrections referencing Christiansted, St. Croix (975-1364) are provided in CARIS® format denoted by a \*.zdf extension file name.

**NOTE: The tide corrector values referenced to Christiansted, St. Croix (975-1364) are provided in the zoning file “I912NCCOS2010COPR” for this project and are in the fourth set of correctors designated as TS4.** 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, Christiansted, St. Croix (975-1364), 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 the CO-OPS SOAP web services at <http://opendap.co-ops.nos.noaa.gov/axis/text.html>.**

Please contact the Hydrographic Planning Team at [NOS.COOPS.HPT@noaa.gov](mailto:NOS.COOPS.HPT@noaa.gov) and the Operational Engineering Team [NOS.COOPS.OETTEAM@noaa.gov](mailto:NOS.COOPS.OETTEAM@noaa.gov) before survey operations begin and **once survey operations are completed** so that the appropriate CO-OPS water level stations are added to or removed from the CO-OPS Hydro Hot List (<http://tidesandcurrents.noaa.gov/hydro>).

#### **1.4.3 Zoning Diagram(s)**

Zoning diagrams, created in MapInfo® and Adobe PDF, are provided in digital format to assist with the zoning in section 1.4.1.

#### **1.4.4 Final Zoning**

Upon completion of project M-I912-NCCOS-2010, submit a Pydro generated request for final tides, with times of hydrography abstract and mid/mif tracklines attached. Forward this request to

[Final.Tides@noaa.gov](mailto:Final.Tides@noaa.gov) . Provide the project number, as well as a sheet number, in the subject line of the email.

CO-OPS will review the times of hydrography, final tracklines, and six-minute water level data from all applicable water level gauges. After review, CO-OPS will send a notice indicating that the tidal zoning scheme sent with the project instructions has been approved for final zoning. If there are any discrepancies, CO-OPS will make the appropriate adjustments and forward a revised tidal zoning scheme to the field group and project manager for final processing.

## **1.5 TideBot**

Preliminary and verified six minute water level time series data may be retrieved from the CO-OPS database via TideBot application. TideBot delivers timely preliminary/verified tidal and Great Lakes six minute water level observations via email to users on a scheduled, recurring basis. To access TideBot through an email account, send an email to [TideBot@noaa.gov](mailto:TideBot@noaa.gov) with the word “help” as the subject. An email reply will be sent with instructions on how to subscribe to TideBot for time series data retrieval.

## **1.6 Water Level Records**

Submit water level data and required station documentation as specified in the latest version of the NOS Hydrographic Surveys Specifications and Deliverables (HSSD) document. For projects where the water level data is not transmitted via GOES satellite, please submit data on a monthly basis.

**1.6.1** Water level records should be forwarded to the following address:

NOAA/National Ocean Service/CO-OPS  
Chief, Engineering Division  
N/OPS1 - SSMC4, Station 6531  
1305 East-West Highway  
Silver Spring, MD 20910

## *Correctors*

Including but not limited to sound velocity profiles (SVP), final tide levels and zoning, attitude and navigation correctors, PPK, raw and post-processed POS data and vessel configuration files.