

DATE: November 15, 1982

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic Marine Center:

Hourly heights are approved for

Tide Station Used (NOAA Form 77-12): 775-1584 Fredericksted, V.I.

Period: February 8-March 26, 1982

HYDROGRAPHIC SHEET: H-9992, H-9993, H-9998

OPR: I-149

Locality: Offshore St. Croix, Virgin Islands

Plane of reference (mean lower low water): 4.93 ft.

Height of Mean High Water above Plane of Reference is 0.77 ft.

REMARKS: Recommended Zoning:

Zone direct.

\*This supersedes previous Tide Notes.

Since this tide note covers three basic surveys, only a copy is included with this Descriptive Report.

*Donald D. Carr*  
for Chief, Tidal Datums and Information Branch

## FIELD TIDE NOTE

Field tide reduction of soundings was based on predicted tides from Galveston, Texas, corrected to Charlotte Amalie, St. Thomas, U.S. Virgin Islands, and were interpolated by PDP 8/E computer utilizing AM 500. All times of both predicted and recorded tides are Greenwich Mean Time.

Four tide stations were in operation during hydrographic operations performed by PEIRCE. The location and period of operation of all stations are listed below:

<u>Station</u>	<u>Location</u>	<u>Period of Operation</u>
Frederiksted, St. Croix (975-1584)	17 42.8 N 64 53.0 W	3 Februaury 1982 - 26 March 1982
Limetree Bay, St. Croix (975-1401)	17 42.0 N 64 45.2 W	2 February 1982 - end April 1982
Christiansted, St. Croix (975-1364)	17 45.0 N 64 42.3 W	1 February 1982, end April 1982
Charlotte Amalie, St. Thomas (975-1639)	18 20.1 N 64 55.1W	Primary Tide Station

Stations Frederiksted, Christiansted, and Limetree Bay were installed and maintained by personnel from PEIRCE. Station Charlotte Amalie was operational and under the jurisdiction of Atlantic Marine Center, Tides and Water Levels Branch throughout the survey.

Frederiksted, St. Croix - Fisher-Porter 1550, S/N 2R60301A4338M13 gage was installed on 3 February 1982 and began operations on 4 February 1982. The staff was installed on 1 February 1982 and leveled on 4 February 1982.

Upon inspection of the gage and staff on 26 February 1982, the tide staff was discovered missing. It was concluded that the staff was washed away during a storm which generated heavy winds and sea conditions on 24 February 1982. A new staff was installed and leveled on 27 February 1982 and 5 March 1982 respectively. The gage began operation on 2 March 1982 and operated satisfactorily through the remainder of the project.

On 26 March 1982, the tide station was removed due to completion of hydrographic operations by PEIRCE. The final levels were run on 22 March 1982. All tidal records and data were forwarded to Tides and Water Levels Branch, Rockville, Maryland.

Limetree Bay (Hess Oil Dock #8) - Fisher-Porter 1550, S/N 7608A1079M16 gage was installed on 2 February 1982 and began operations that date. The staff was installed on 2 February 1982 and leveled on 3 February 1982.

Upon inspection of the gage on 5 March 1982 it was discovered that the battery voltage had dropped below the operational level. The battery was replaced on 5 March 1982 and gage resumed operating. Total down time of gage was 2.45 days.

The station will be terminated at completion of hydrographic operations by MT. MITCHELL at the end of April 1982. The station will also be releveled at that time and all information and data will be submitted to Tides and Water Levels Branch, Rockville, Maryland.

Christiansted, St. Croix - Fisher-Porter 1550, S/N 7408A1330M1 gage was installed and began operating on 1 February 1982. The staff was installed on 1 February 1982 and leveled on 2 February 1982. The gage operated satisfactorily throughout hydrography performed by PEIRCE.

The station is still in operation and will be terminated at the end of hydrographic operations performed by MT. MITCHELL. The staff will be releveled at that time and all information and records will be submitted to Rockville, Maryland.

Charlotte Amalie, St. Thomas - All levels on this station were performed by Atlantic Marine Center, Tides and Water Levels Branch as directed by Project Instructions. This station is under the jurisdiction of Tides and Water levels, however, frequent checks were made with the tide observer concerning performance of the station. All data will be forwarded to Rockville, Maryland.

Zoning: There was no pre-zoning in this survey.

Galveston, Texas - Reference station.