



Hurricane MARIA QuickLook  
Posted: 00:00 AST 09/21/2017

### NOAA and NOAA Partnership Stations Relative to the Storm



### Storm Analysis

As of 9/21/2017 00:00 AST, water levels at Mona Island, PR are currently running around 1.7 feet above normal tide levels but are receding. Water levels elsewhere within Puerto Rico, Culebra, Vieques Island and the U.S. Virgin Islands are all within 1 foot of normal tide levels at this time as Maria moves away to the northwest.

Water level and wind data transmissions have stopped at several stations within Puerto Rico and the U.S. Virgin Islands due to the effects of Hurricane Maria. Most anemometers within the region have been damaged.

**\*\*\* No further QuickLooks will be posted for this storm unless oceanographic conditions warrant and/or the National Hurricane Center (NHC) issues a new tropical storm or hurricane warning for the U.S. or its territories. \*\*\***

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst: CRD

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**SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:**

Hurricane Maria Advisory Number 20  
NWS National Hurricane Center Miami FL  
1100 PM AST Wed Sep 20 2017

...HURRICANE MARIA MOVING AWAY FROM PUERTO RICO BUT TORRENTIAL RAINS CONTINUE...

SUMMARY OF 1100 PM AST...INFORMATION

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LOCATION...19.2N 67.9W  
ABOUT 55 MI... NE OF PUNTA CANA DOMINICAN REPUBLIC  
ABOUT 260 MI... SE OF GRAND TURK ISLAND  
MAXIMUM SUSTAINED WINDS...110 MPH  
PRESENT MOVEMENT...NW OR 310 DEGREES AT 9 MPH  
MINIMUM CENTRAL PRESSURE...959 MB

WATCHES AND WARNINGS

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CHANGES WITH THIS ADVISORY:

The Hurricane Warning for Puerto Rico, Culebra, and Vieques has been discontinued.

For storm information specific to your area in the United States, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office. For storm information specific to your area outside the United States, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

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At 1100 PM AST, the large eye of Hurricane Maria was located near latitude 19.2 North, longitude 67.9 West. Maria is moving toward the northwest near 9 mph , and this general motion with a decrease in forward speed is expected through Thursday night. A turn toward the

north-northwest is forecast on Friday. On the forecast track, the core of Hurricane Maria will continue to move away from Puerto Rico during the next several hours, and then pass offshore of the northeastern coast of the Dominican Republic early Thursday. Maria should then move near the Turks and Caicos Islands and the southeastern Bahamas Thursday night and Friday.

Maximum sustained winds remain near 110 mph with higher gusts. Some strengthening is forecast during the next day or two, and Maria could regain major hurricane status by Thursday.

Hurricane-force winds extend outward up to 60 miles from the center and tropical-storm-force winds extend outward up to 150 miles. Punta Cana in the Dominican Republic recently reported a wind gust to 66 mph.

The minimum central pressure estimated from reconnaissance aircraft data is 959 mb.

#### HAZARDS AFFECTING LAND

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WIND: Strong gusty winds are still occurring over portions of Puerto Rico, but should continue to gradually subside.

STORM SURGE: Water levels in Puerto Rico should begin to recede in the next few hours.

Rainfall on these islands will continue to cause life-threatening flash floods and mudslides.

SURF: Swells generated by Maria are still affecting the Leeward Islands, Puerto Rico, and the Virgin Islands.

#### NEXT ADVISORY

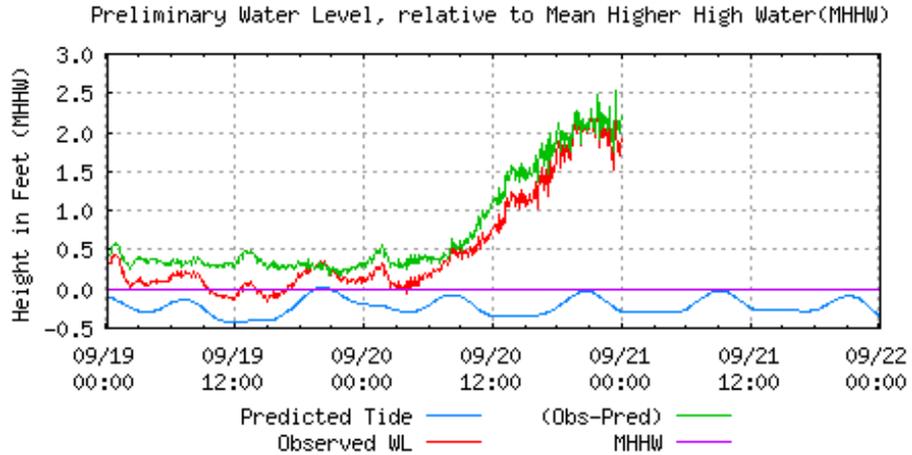
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Next intermediate advisory at 200 AM AST.  
Next complete advisory at 500 AM AST.

Forecaster Avila

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

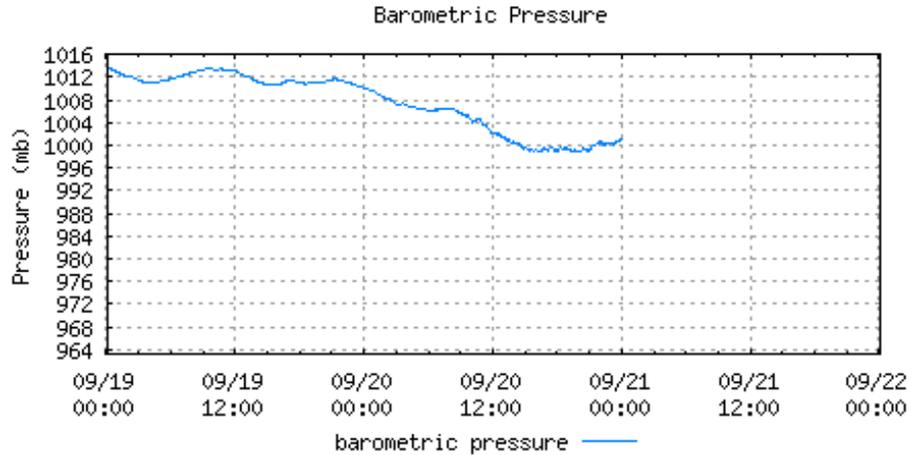
Jump to: [Mona Island - Water Level](#), [Mona Island - Barometric](#), [Yabucoa Harbor - Water Level](#), [Arecibo - Water Level](#), [Arecibo - Winds](#), [Arecibo - Barometric](#), [San Juan, La Puntilla, San Juan Bay - Water Level](#), [San Juan, La Puntilla, San Juan Bay - Barometric](#), [Culebra - Water Level](#), [Culebra - Barometric](#), [Isabel Segunda, Vieques Island - Water Level](#), [Lameshur Bay, St John - Water Level](#), [Lameshur Bay, St John - Barometric](#), [Christiansted Harbor, St Croix - Water Level](#), [Christiansted Harbor, St Croix - Barometric](#)

NOAA/NOS/CO-OPS 9759938 Mona Island, PR



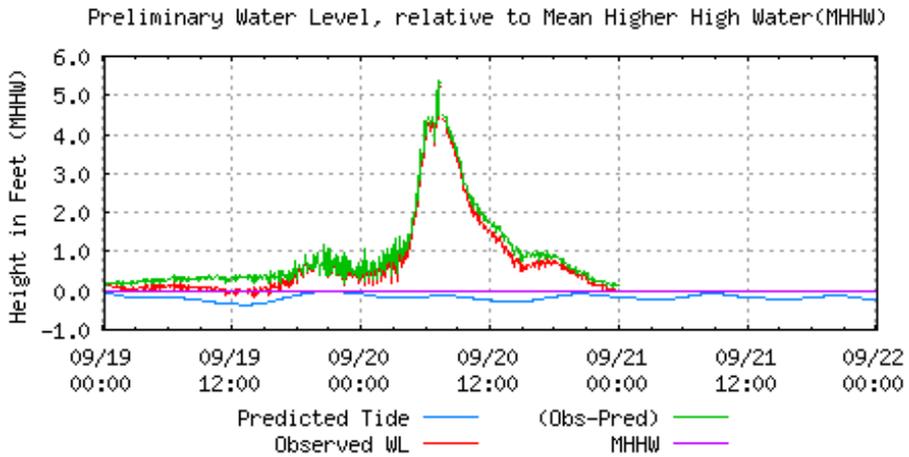
Last Observed Sample: 09/21/2017 00:06 (AST). Data relative to MHHW  
**Observed: 1.81 ft. Predicted: -0.29 ft. Residual: 2.10 ft.**  
Historical Maximum Water Level: Dec 23 2010, 1.24 ft.  
Next High Tide: 09/21/2017 09:09 (AST), -0.02 ft.

NOAA/NOS/CO-OPS 9759938 Mona Island, PR



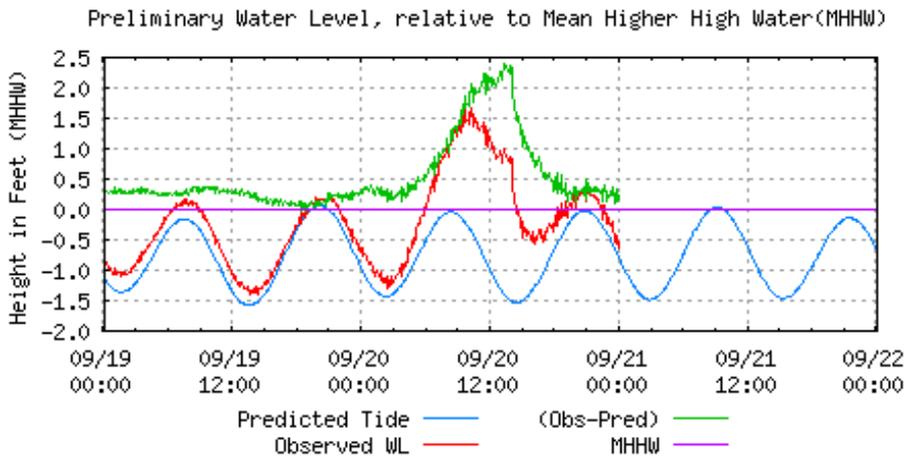
Last Observed Sample: 09/21/2017 00:06 (AST)  
**Barometric Pressure: 1001.3 mb**

NOAA/NOS/CO-OPS 9754228 Yabucoa Harbor, PR



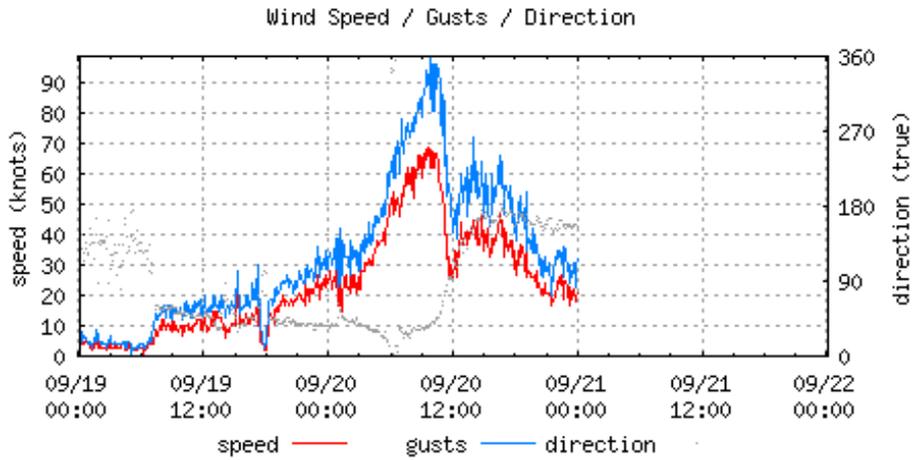
Last Observed Sample: 09/21/2017 00:00 (AST). Data relative to MHHW  
**Observed: 0.00 ft. Predicted: -0.16 ft. Residual: 0.16 ft.**  
 Historical Maximum Water Level: n/a  
 Next High Tide: 09/21/2017 08:39 (AST), -0.07 ft.

NOAA/NOS/CO-OPS 9757809 Arecibo, PR



Last Observed Sample: 09/21/2017 00:00 (AST). Data relative to MHHW  
**Observed: -0.62 ft. Predicted: -0.78 ft. Residual: 0.16 ft.**  
 Historical Maximum Water Level: Oct 8 2010, 0.90 ft.  
 Next High Tide: 09/21/2017 09:10 (AST), 0.03 ft.

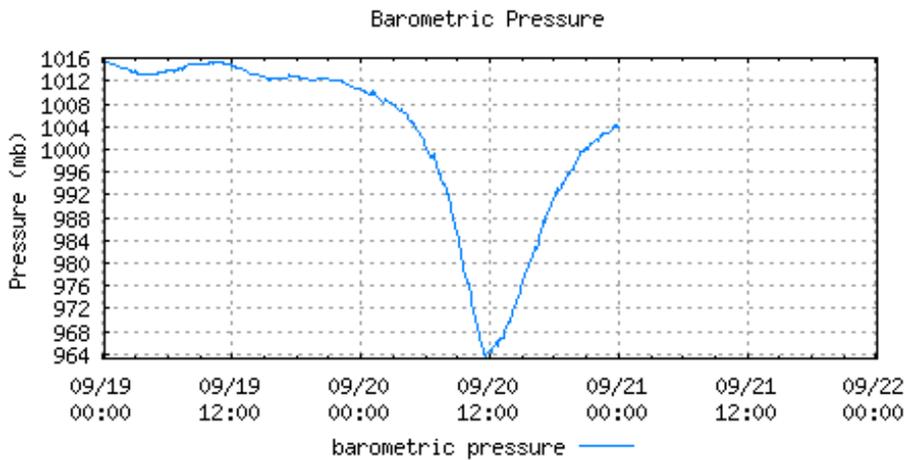
NOAA/NOS/CO-OPS 9757809 Arcibo, PR



Last Observed Sample: 09/21/2017 00:00 (AST)

Wind Speed: 21 knots Gusts: 32 knots Direction: 156° T

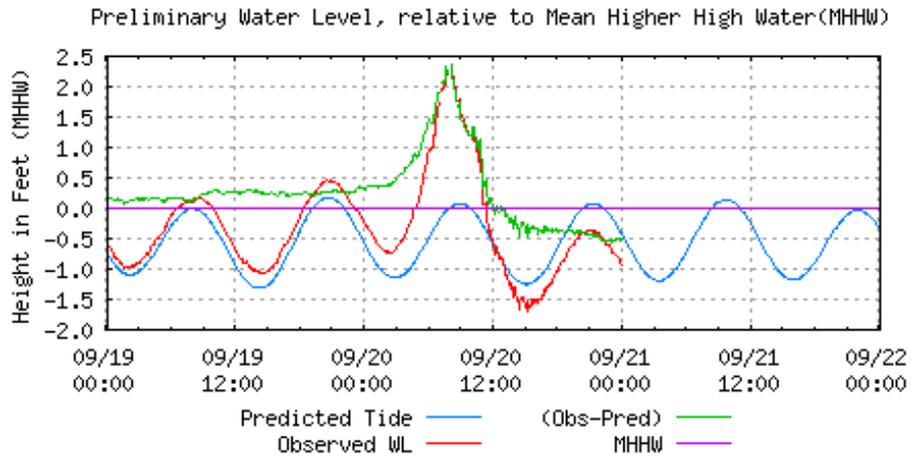
NOAA/NOS/CO-OPS 9757809 Arcibo, PR



Last Observed Sample: 09/21/2017 00:00 (AST)

Barometric Pressure: 1004.1 mb

NOAA/NOS/CO-OPS 9755371 San Juan, La Puntilla, San Juan Bay, PR



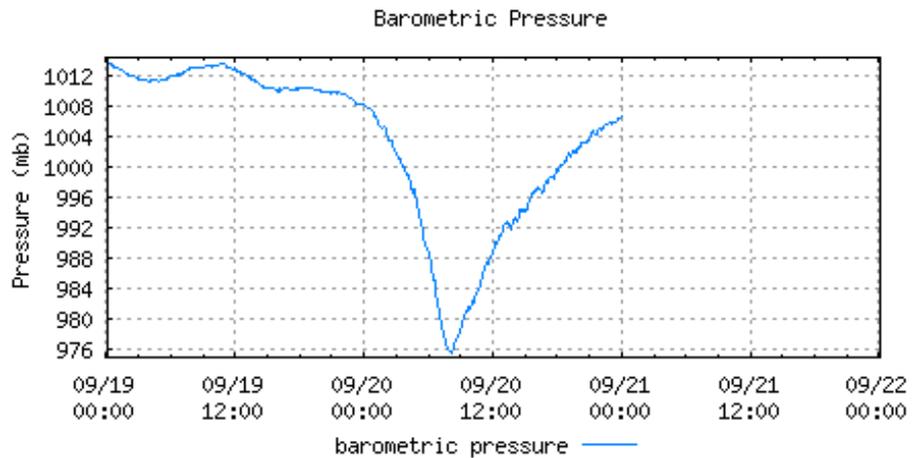
Last Observed Sample: 09/21/2017 00:00 (AST). Data relative to MHHW

Observed: -0.92 ft. Predicted: -0.41 ft. Residual: -0.51 ft.

Historical Maximum Water Level: Sep 18 1989, 2.77 ft.

Next High Tide: 09/21/2017 09:45 (AST), 0.14 ft.

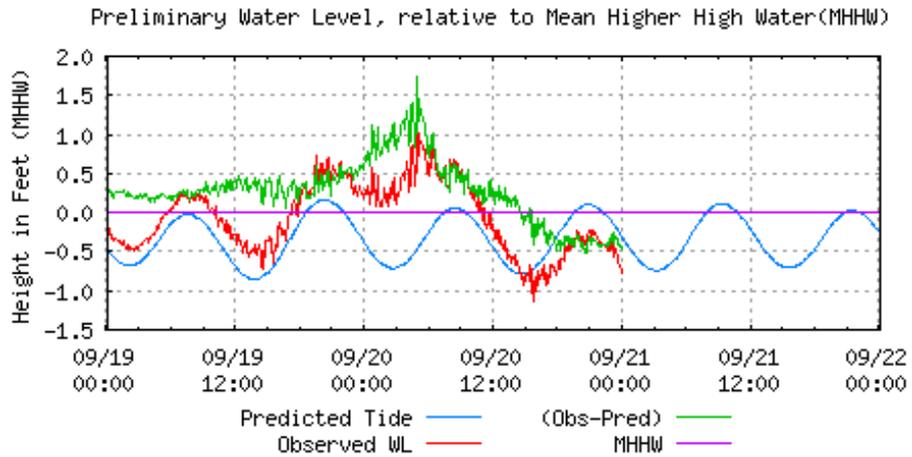
NOAA/NOS/CO-OPS 9755371 San Juan, La Puntilla, San Juan Bay, PR



Last Observed Sample: 09/21/2017 00:00 (AST)

Barometric Pressure: 1006.8 mb

NOAA/NOS/CO-OPS 9752235 Culebra, PR



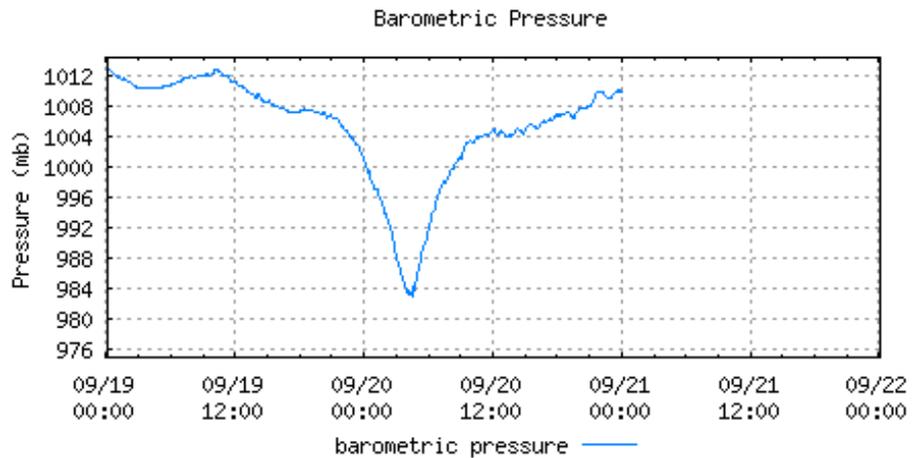
Last Observed Sample: 09/21/2017 00:00 (AST). Data relative to MHHW

Observed: -0.77 ft. Predicted: -0.30 ft. Residual: -0.47 ft.

Historical Maximum Water Level: Nov 6 2006, 0.84 ft.

Next High Tide: 09/21/2017 09:20 (AST), 0.11 ft.

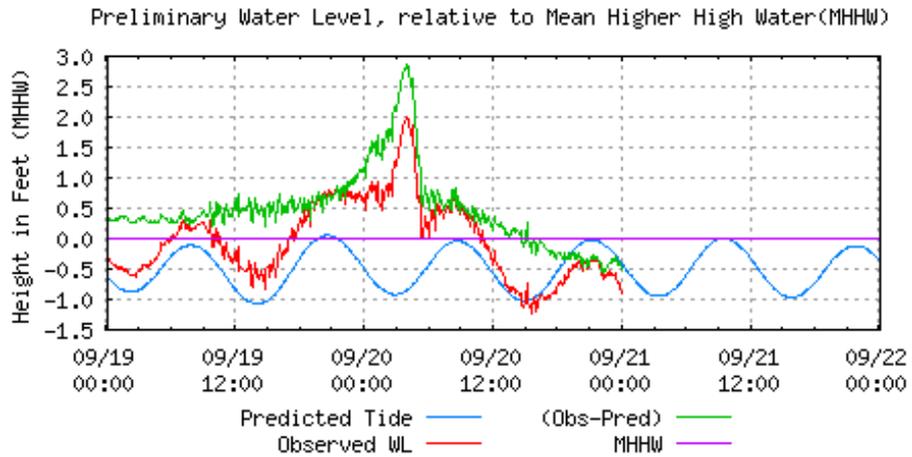
NOAA/NOS/CO-OPS 9752235 Culebra, PR



Last Observed Sample: 09/21/2017 00:00 (AST)

Barometric Pressure: 1009.8 mb

NOAA/NOS/CO-OPS 9752619 Isabel Segunda, Vieques Island, PR



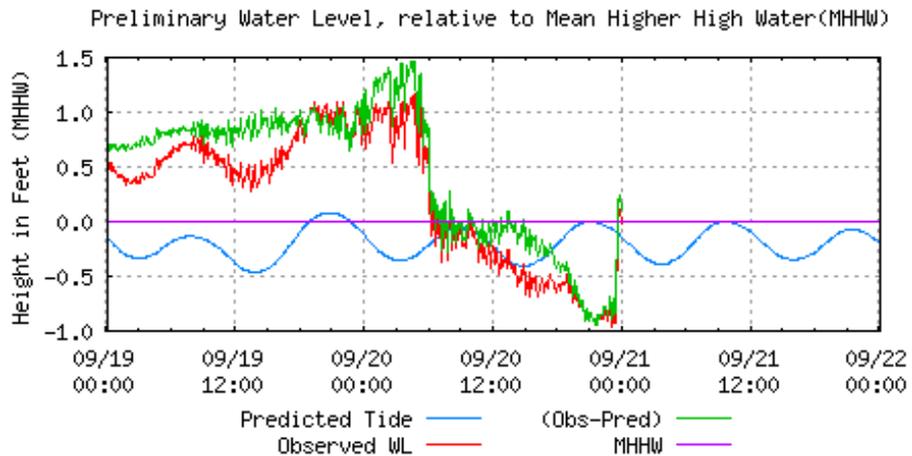
Last Observed Sample: 09/21/2017 00:00 (AST). Data relative to MHHW

Observed: -0.91 ft. Predicted: -0.40 ft. Residual: -0.51 ft.

Historical Maximum Water Level: n/a

Next High Tide: 09/21/2017 09:30 (AST), 0.00 ft.

NOAA/NOS/CO-OPS 9751381 Lameshur Bay, St John, VI



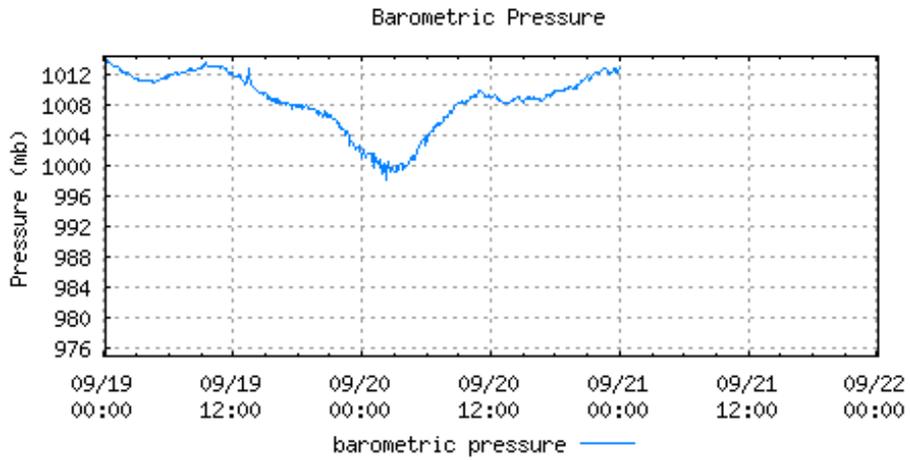
Last Observed Sample: 09/21/2017 00:06 (AST). Data relative to MHHW

Observed: 0.02 ft. Predicted: -0.15 ft. Residual: 0.17 ft.

Historical Maximum Water Level: Aug 30 2010, 0.89 ft.

Next High Tide: 09/21/2017 09:39 (AST), 0.00 ft.

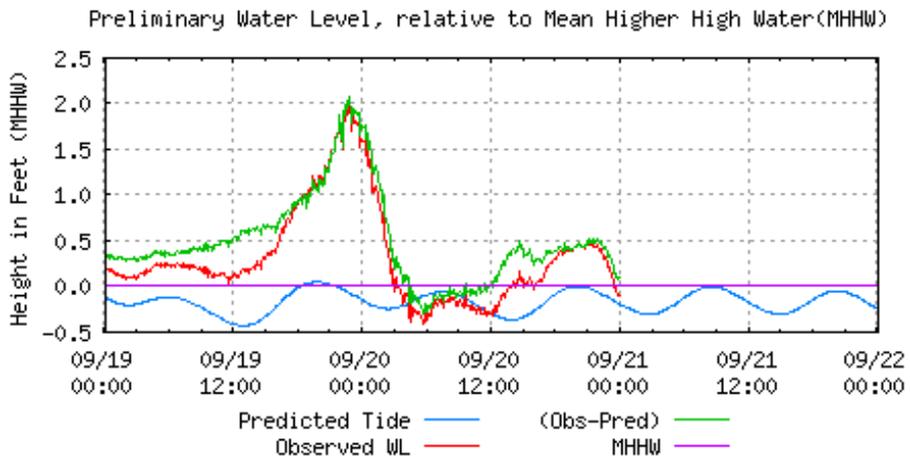
NOAA/NOS/CO-OPS 9751381 Lameshur Bay, St John, VI



Last Observed Sample: 09/21/2017 00:06 (AST)

Barometric Pressure: 1012.7 mb

NOAA/NOS/CO-OPS 9751364 Christiansted Harbor, St Croix, VI



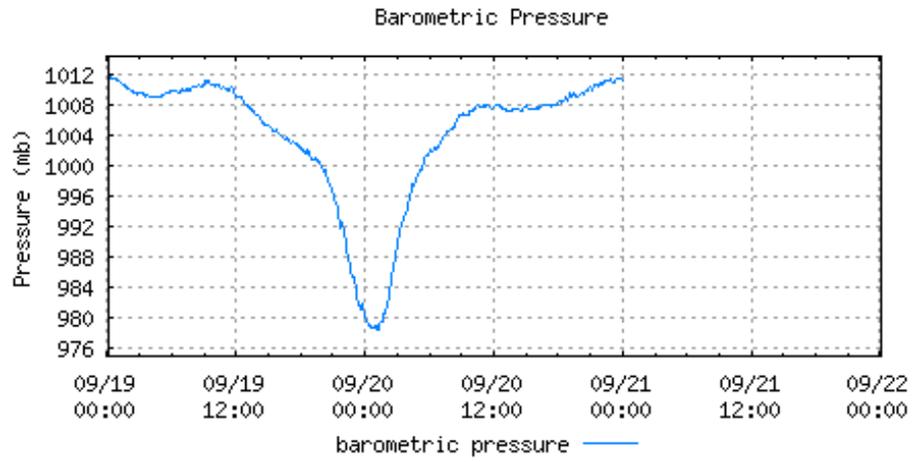
Last Observed Sample: 09/21/2017 00:00 (AST). Data relative to MHHW

Observed: -0.10 ft. Predicted: -0.19 ft. Residual: 0.09 ft.

Historical Maximum Water Level: Oct 16 2008, 1.17 ft.

Next High Tide: 09/21/2017 08:31 (AST), -0.01 ft.

NOAA/NOS/CO-OPS 9751364 Christiansted Harbor, St Croix, VI



Last Observed Sample: 09/21/2017 00:00 (AST)

Barometric Pressure: 1011.3 mb

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
9759938	Mona Island, PR	09/21/2017 00:06 (AST)	1.81 ft	-0.29 ft	2.10 ft	2.40 ft
9754228	Yabucoa Harbor, PR	09/21/2017 00:00 (AST)	0.00 ft	-0.16 ft	0.16 ft	5.27 ft
9757809	Arecibo, PR	09/21/2017 00:00 (AST)	-0.62 ft	-0.78 ft	0.16 ft	1.68 ft
9755371	San Juan, La Puntilla, San Juan Bay, PR	09/21/2017 00:00 (AST)	-0.92 ft	-0.41 ft	-0.51 ft	2.38 ft
9752235	Culebra, PR	09/21/2017 00:00 (AST)	-0.77 ft	-0.30 ft	-0.47 ft	1.29 ft
9752619	Isabel Segunda, Vieques Island, PR	09/21/2017 00:00 (AST)	-0.91 ft	-0.40 ft	-0.51 ft	2.01 ft
9751381	Lameshur Bay, St John, VI	09/21/2017 00:06 (AST)	0.02 ft	-0.15 ft	0.17 ft	1.16 ft
9751364	Christiansted Harbor, St Croix, VI	09/21/2017 00:00 (AST)	-0.10 ft	-0.19 ft	0.09 ft	1.61 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)  
 National Oceanic and Atmospheric Administration | U.S. Department of Commerce