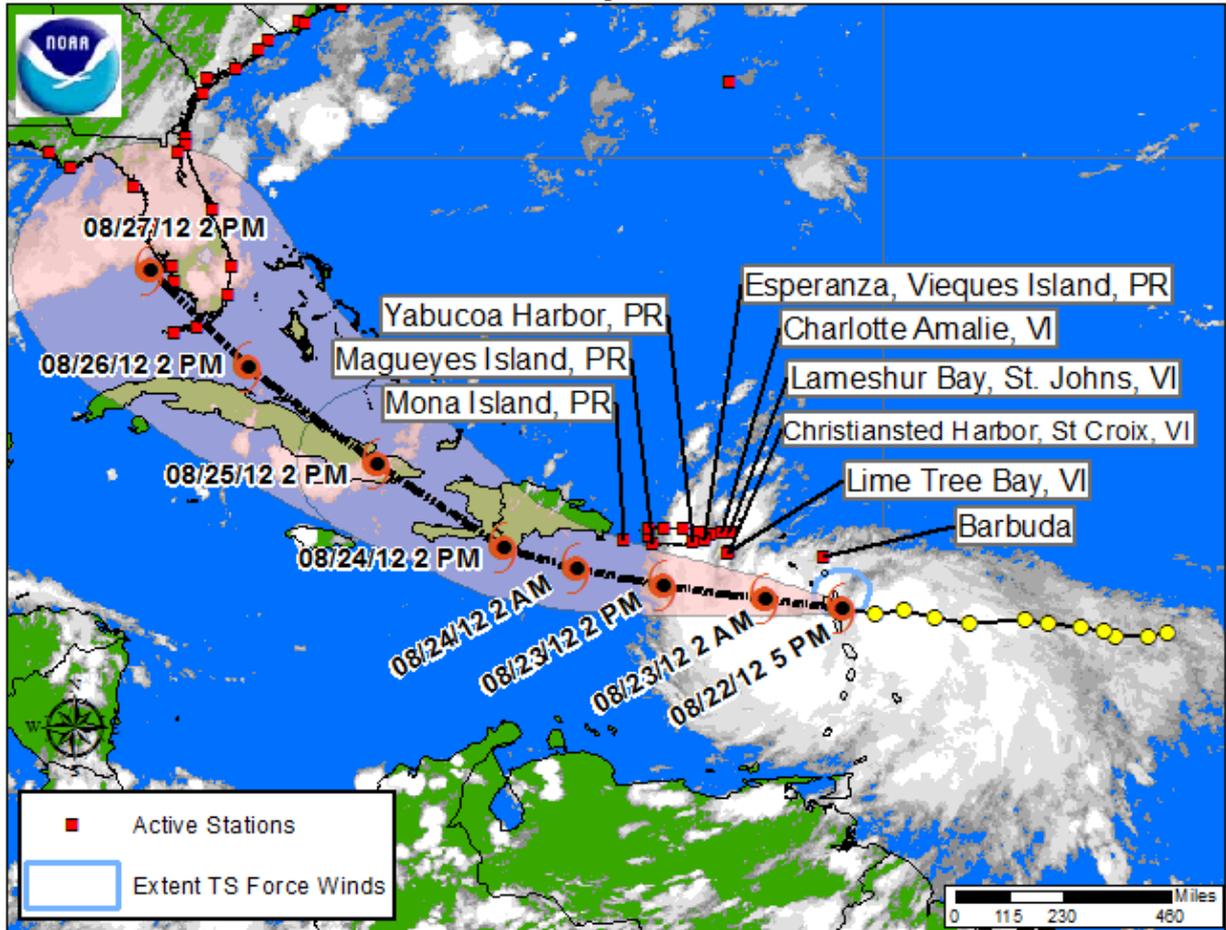




Tropical Storm ISAAC QuickLook  
Posted: 18:00 AST 08/22/2012

NOAA and NOAA Partnership Stations Relative to the Storm



### Storm Analysis

As of 08/22/2012 18:00 AST, water levels from Barbuda and the U.S. Virgin Islands to Puerto Rico are slowly rising and range between 0.5 to 1.0 ft above tidal predictions. Water levels from Barbuda to Puerto Rico have been elevated by up to 0.5 feet above tidal predictions over the past several months. This residual water level is in addition to any storm surge effects from Isaac. Winds range from 5 to 15 kts with gusts over 25 knots observed at Barbuda. Barometric pressure is slowly falling across the region.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Barbuda: Next predicted high tides are 0.7 ft (0.21 m) at 08/22/2012 19:00 AST and 0.7 ft (0.22 m) at 08/23/2012 19:17 AST.

Christiansted Harbor, St Croix, VI: Next predicted high tides are 0.5 ft (0.16 m) at 08/22/2012 21:11 AST and

Tropical Storm ISAAC QuickLook, POSTED 18:00 AST 08/22/2012

0.6 ft (0.20 m) at 08/23/2012 14:23 AST.

Lameshur Bay, St. John, VI: Next predicted high tides are 0.6 ft (0.18 m) at 08/22/2012 22:30 AST and 0.9 ft (0.29 m) at 08/23/2012 14:55 AST.

Lime Tree Bay, VI: Next predicted high tides are 0.7 ft (0.22 m) at 08/22/2012 18:32 AST and 0.8 ft (0.25 m) at 08/23/2012 18:19 AST.

Charlotte Amalie, VI: Next predicted high tides are 0.9 ft (0.28 m) at 08/23/2012 14:57 AST and 1.0 ft (0.30 m) at 08/24/2012 16:12 AST.

Esperanza, Vieques Island, PR: Next predicted high tides are 0.5 ft (0.17 m) at 08/22/2012 20:40 AST and 0.6 ft (0.20 m) at 08/23/2012 16:08 AST.

Yabucoa Harbor, PR: Next predicted high tides are 0.6 ft (0.20 m) at 08/23/2012 16:48 AST and 0.7 ft (0.22 m) at 08/24/2012 17:33 AST.

Magueyes Island, PR: Next predicted high tides are 0.7 ft (0.22 m) at 08/22/2012 18:07 AST and 0.8 ft (0.25 m) at 08/23/2012 18:14 AST.

Mona Island, PR: Next predicted high tides are 0.8 ft (0.25 m) at 08/23/2012 18:36 AST and 0.9 ft (0.28 m) at 08/24/2012 19:21 AST.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For information on Highest Astronomical Tide (HAT), NAVD88 and other datums, please see [Tidal Datums](#). For more information or archived products and reports, please see the [Storm QuickLook](#) Homepage.

Analyst:PFF

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SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM ISAAC ADVISORY NUMBER 7  
NWS NATIONAL HURRICANE CENTER MIAMI FL AL092012  
500 PM AST WED AUG 22 2012

...CENTER OF ISAAC MOVING THROUGH THE LEEWARD ISLANDS...NEW WARNINGS AND WATCHES ISSUED...

WATCHES AND WARNINGS  
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A TROPICAL STORM WARNING IS IN EFFECT FOR...

\* PUERTO RICO...VIEQUES...CULEBRA...AND THE U.S. VIRGIN ISLANDS

A HURRICANE WATCH IS IN EFFECT FOR...

\* PUERTO RICO...VIEQUES...CULEBRA...AND THE U.S. AND BRITISH VIRGIN ISLANDS

A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE WITHIN THE

Tropical Storm ISAAC QuickLook, POSTED 18:00 AST 08/22/2012

WATCH AREA. A WATCH IS TYPICALLY ISSUED 48 HOURS BEFORE THE ANTICIPATED FIRST OCCURRENCE OF TROPICAL-STORM-FORCE WINDS...CONDITIONS THAT MAKE OUTSIDE PREPARATIONS DIFFICULT OR DANGEROUS.

A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE EXPECTED SOMEWHERE WITHIN THE WARNING AREA WITHIN 36 HOURS.

A TROPICAL STORM WATCH MEANS THAT TROPICAL STORM CONDITIONS ARE POSSIBLE WITHIN THE WATCH AREA...GENERALLY WITHIN 48 HOURS.

INTERESTS IN CUBA AND JAMAICA SHOULD MONITOR THE PROGRESS OF ISAAC.

FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED STATES...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

DISCUSSION AND 48-HOUR OUTLOOK

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AT 500 PM AST THE CENTER OF TROPICAL STORM ISAAC WAS LOCATED ABOUT 365 MI ESE OF SAN JUAN PUERTO RICO. ISAAC IS MOVING TOWARD THE WEST NEAR 22 MPH AND THIS GENERAL MOTION IS EXPECTED TO CONTINUE FOR THE NEXT COUPLE OF DAYS. ON THE FORECAST TRACK...THE CENTER OF ISAAC SHOULD MOVE THROUGH THE LEEWARD ISLANDS DURING THE NEXT FEW HOURS...PASS NEAR OR SOUTH OF THE VIRGIN ISLANDS AND PUERTO RICO ON THURSDAY...AND APPROACH THE DOMINICAN REPUBLIC THURSDAY NIGHT AND FRIDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 45 MPH WITH HIGHER GUSTS. SOME STRENGTHENING IS FORECAST DURING THE NEXT 48 HOURS... AND ISAAC COULD BECOME A HURRICANE THURSDAY NIGHT OR FRIDAY.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 80 MILES MAINLY TO THE NORTH OF THE CENTER.

THE MINIMUM CENTRAL PRESSURE REPORTED BASED ON HURRICANE HUNTER AIRCRAFT AND SURFACE OBSERVATIONS IS 1004 MB...29.65 INCHES.

HAZARDS AFFECTING LAND

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WIND...TROPICAL STORM CONDITIONS ARE SPREADING ACROSS PORTIONS OF THE LEEWARD ISLANDS...MAKING OUTSIDE PREPARATIONS DIFFICULT OR DANGEROUS. TROPICAL STORM CONDITIONS ARE EXPECTED OVER PUERTO RICO AND THE U.S. AND BRITISH VIRGIN ISLANDS ON THURSDAY. HURRICANE CONDITIONS ARE POSSIBLE OVER PUERTO RICO...THE U.S. VIRGIN ISLANDS ON THURSDAY.

RAINFALL...TOTAL RAIN ACCUMULATIONS OF 1 TO 3 INCHES WITH MAXIMUM AMOUNTS OF 6 INCHES ARE POSSIBLE OVER PUERTO RICO AND THE VIRGIN ISLANDS. THESE RAINS COULD CAUSE LIFE-THREATENING FLASH FLOODS AND MUD SLIDES.

Tropical Storm ISAAC QuickLook, POSTED 18:00 AST 08/22/2012

STORM SURGE...A STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 1 TO 3 FEET ABOVE NORMAL TIDE LEVELS IN THE NORTHERN LEEWARD ISLANDS...PUERTO RICO...AND THE U.S. AND BRITISH VIRGIN ISLANDS. NEAR THE COAST...THE SURGE WILL BE ACCOMPANIED BY DANGEROUS WAVES.

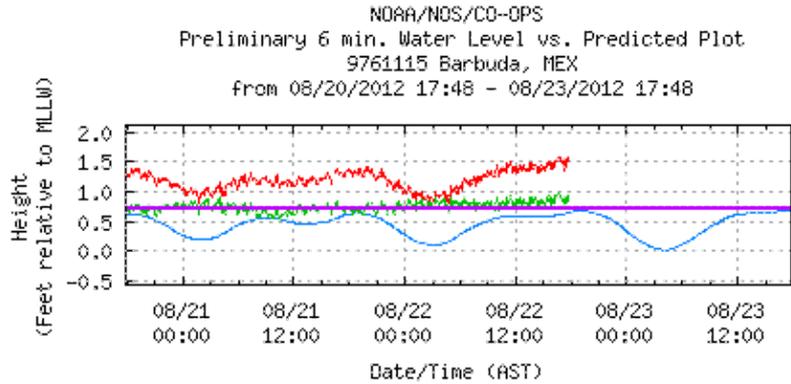
SURF...DANGEROUS SURF AND RIP CURRENT CONDITIONS WILL AFFECT THE WINDWARD ISLANDS...LEEWARD ISLANDS...VIRGIN ISLANDS...AND PUERTO RICO DURING THE NEXT COUPLE OF DAYS. PLEASE CONSULT PRODUCTS FROM YOUR LOCAL WEATHER OFFICE FOR MORE INFORMATION.

FORECASTER BEVEN

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: [Barbuda - Water Level](#), [Barbuda - Winds](#), [Barbuda - Barometric](#), [Barbuda - Air/Water Temp](#), [Christiansted Harbor](#), [St Croix - Water Level](#), [Christiansted Harbor](#), [St Croix - Winds](#), [Christiansted Harbor](#), [St Croix - Barometric](#), [Lameshur Bay](#), [St. John - Water Level](#), [Lime Tree Bay - Water Level](#), [Lime Tree Bay - Winds](#), [Lime Tree Bay - Barometric](#), [Charlotte Amalie - Water Level](#), [Charlotte Amalie - Winds](#), [Charlotte Amalie - Barometric](#), [Esperanza](#), [Vieques Island - Water Level](#), [Esperanza](#), [Vieques Island - Winds](#), [Esperanza](#), [Vieques Island - Barometric](#), [Yabucoa Harbor - Water Level](#), [Yabucoa Harbor - Winds](#), [Magueyes Island - Water Level](#), [Magueyes Island - Winds](#), [Magueyes Island - Barometric](#), [Mona Island - Water Level](#),

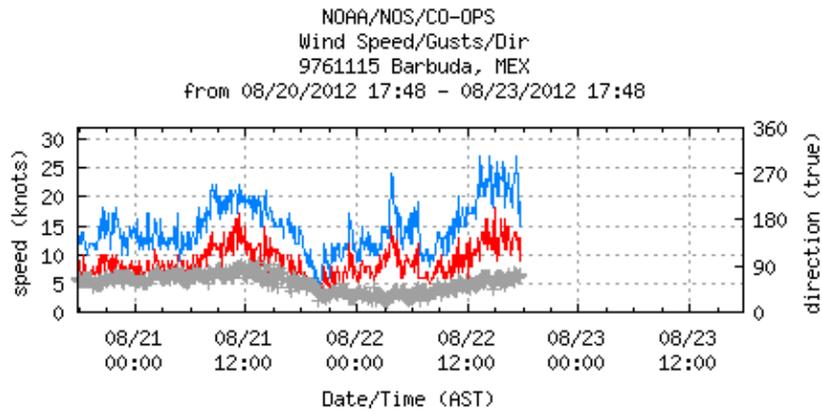
Barbuda, MEX - Return to List



Predicted Tide ——— (Obs-Pred) ———  
 Observed WL ——— MHHW ———

Last Observed Sample: 08/22/2012 17:42 (AST)  
 Relative to MLLW: **Observed: 1.50 ft.** **Predicted: 0.65 ft.** **Residual: 0.85 ft.**  
 Historical Maximum Water Level: , ft. above MHHW

Barbuda, MEX - Return to List

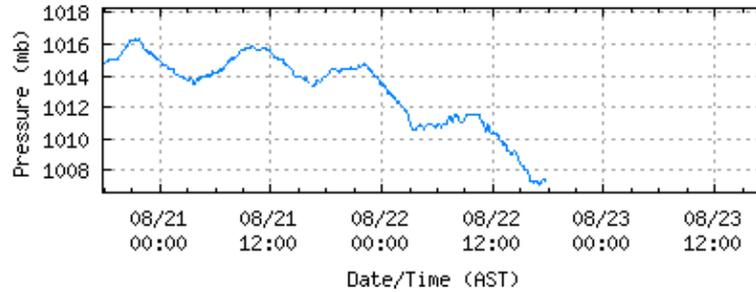


speed ——— gusts ——— direction +

Last Observed Sample: 08/22/2012 17:42 (AST)  
**Wind Speed: 13 knots** **Gusts: 19 knots** **Direction: 75° T**

Barbuda, MEX - Return to List

NOAA/NOS/CO-OPS  
Barometric Pressure Plot  
9761115 Barbuda, MEX  
from 08/20/2012 17:48 - 08/23/2012 17:48



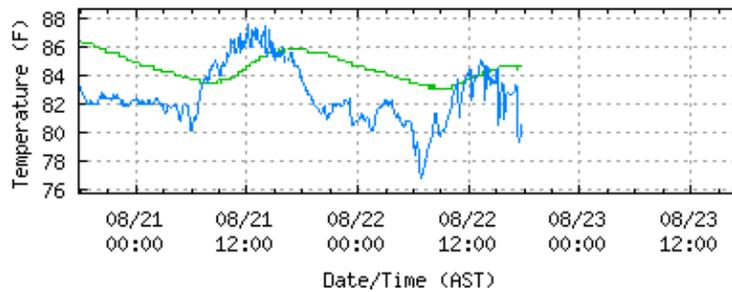
barometric pressure —

Last Observed Sample: 08/22/2012 17:42 (AST)

Barometric Pressure: 1007.3 mb

Barbuda, MEX - Return to List

NOAA/NOS/CO-OPS  
Air/Water Temperature Plot  
9761115 Barbuda, MEX  
from 08/20/2012 17:48 - 08/23/2012 17:48

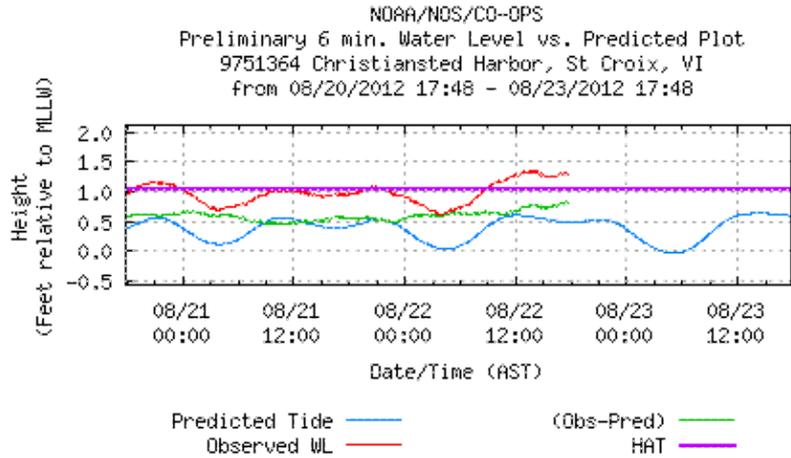


water temp. — air temp —

Last Observed Sample: 08/22/2012 17:42 (AST)

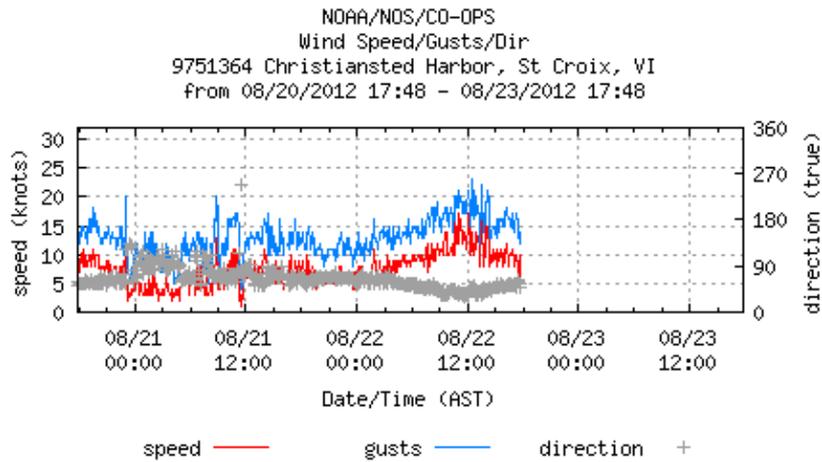
Water Temperature: 84.6° F Air Temperature: 80.6° F

Christiansted Harbor, St Croix, VI - Return to List



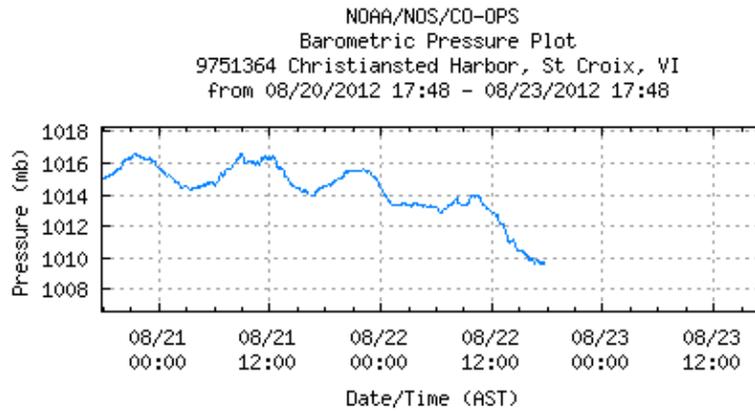
Last Observed Sample: 08/22/2012 17:42 (AST)  
Relative to MLLW: **Observed: 1.30 ft.** **Predicted: 0.48 ft.** **Residual: 0.82 ft.**  
Historical Maximum Water Level: Oct 16 2008, 1.17 ft. above MHHW

Christiansted Harbor, St Croix, VI - Return to List



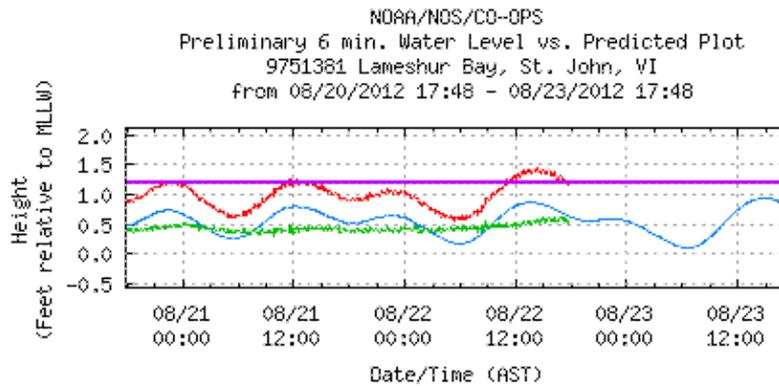
Last Observed Sample: 08/22/2012 17:42 (AST)  
**Wind Speed: 6 knots** **Gusts: 12 knots** **Direction: 50° T**

Christiansted Harbor, St Croix, VI - Return to List



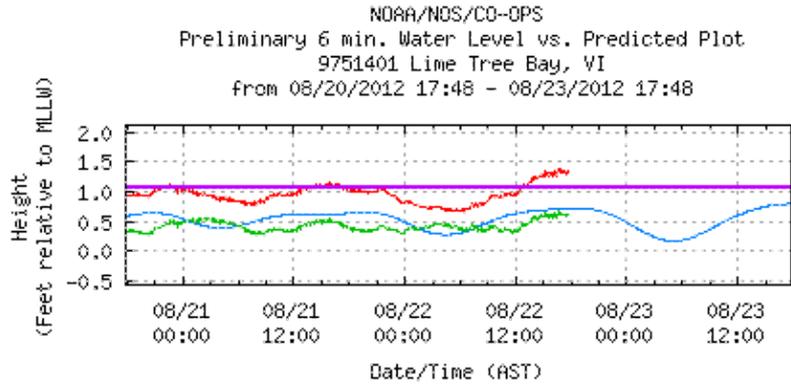
barometric pressure —  
Last Observed Sample: 08/22/2012 17:42 (AST)  
Barometric Pressure: 1009.7 mb

Lameshur Bay, St. John, VI - Return to List



Predicted Tide — (Obs-Pred) —  
Observed WL — HAT —  
Last Observed Sample: 08/22/2012 17:42 (AST)  
Relative to MLLW: Observed: 1.19 ft. Predicted: 0.64 ft. Residual: 0.55 ft.  
Historical Maximum Water Level: Aug 30 2010, 0.9 ft. above MHHW

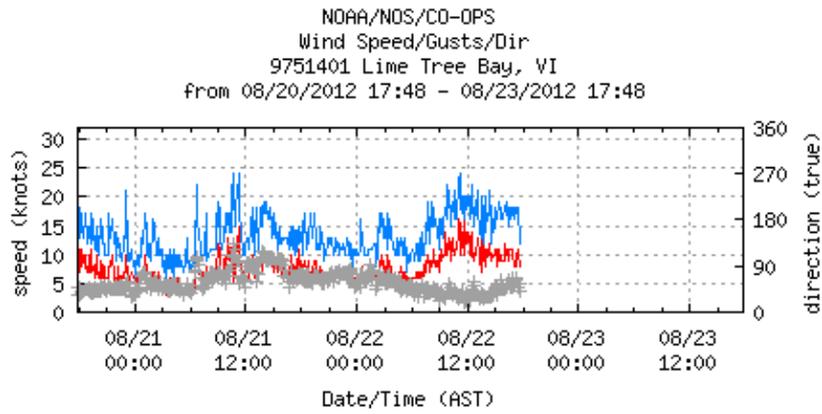
Lime Tree Bay, VI - Return to List



Predicted Tide ——— (Obs-Pred) ———  
 Observed WL ——— HAT ———

Last Observed Sample: 08/22/2012 17:42 (AST)  
 Relative to MLLW: **Observed: 1.33 ft.** **Predicted: 0.72 ft.** **Residual: 0.61 ft.**  
 Historical Maximum Water Level: Nov 17 1999, 1.88 ft. above MHHW

Lime Tree Bay, VI - Return to List

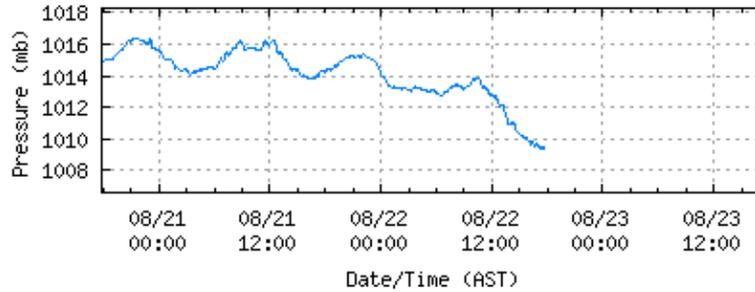


speed ——— gusts ——— direction +

Last Observed Sample: 08/22/2012 17:42 (AST)  
**Wind Speed: 8 knots** **Gusts: 12 knots** **Direction: 42° T**

Lime Tree Bay, VI - Return to List

NOAA/NOS/CO-OPS  
Barometric Pressure Plot  
9751401 Lime Tree Bay, VI  
from 08/20/2012 17:48 - 08/23/2012 17:48



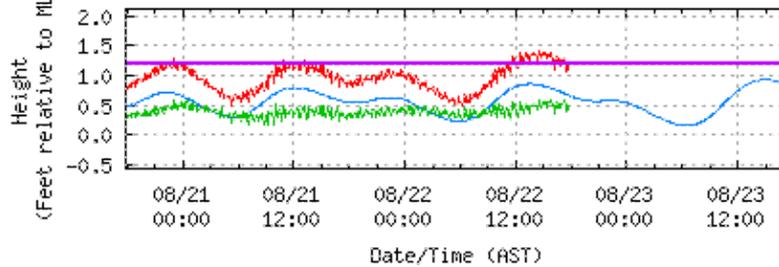
barometric pressure —

Last Observed Sample: 08/22/2012 17:42 (AST)

Barometric Pressure: 1009.4 mb

Charlotte Amalie, VI - Return to List

NOAA/NOS/CO-OPS  
Preliminary 6 min. Water Level vs. Predicted Plot  
9751639 Charlotte Amalie, VI  
from 08/20/2012 17:48 - 08/23/2012 17:48



Predicted Tide — (Obs-Pred) —  
Observed WL — HAT —

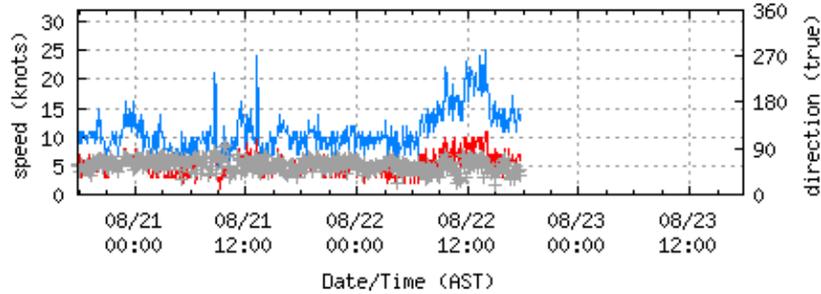
Last Observed Sample: 08/22/2012 17:42 (AST)

Relative to MLLW: **Observed: 1.17 ft.** **Predicted: 0.67 ft.** **Residual: 0.50 ft.**

Historical Maximum Water Level: Sep 16 1995, 2.93 ft. above MHHW

[Charlotte Amalie, VI - Return to List](#)

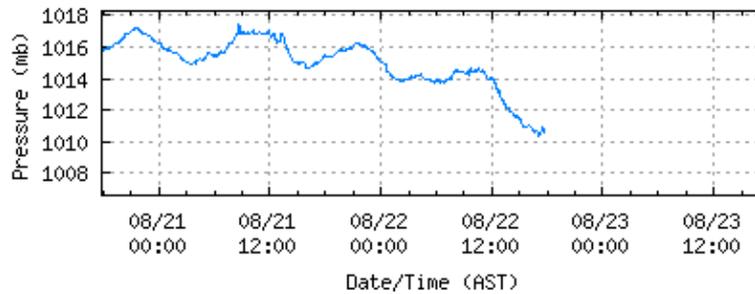
NOAA/NOS/CO-OPS  
Wind Speed/Gusts/Dir  
9751639 Charlotte Amalie, VI  
from 08/20/2012 17:48 - 08/23/2012 17:48



speed — gusts — direction +  
Last Observed Sample: 08/22/2012 17:42 (AST)  
Wind Speed: 6 knots Gusts: 13 knots Direction: 49° T

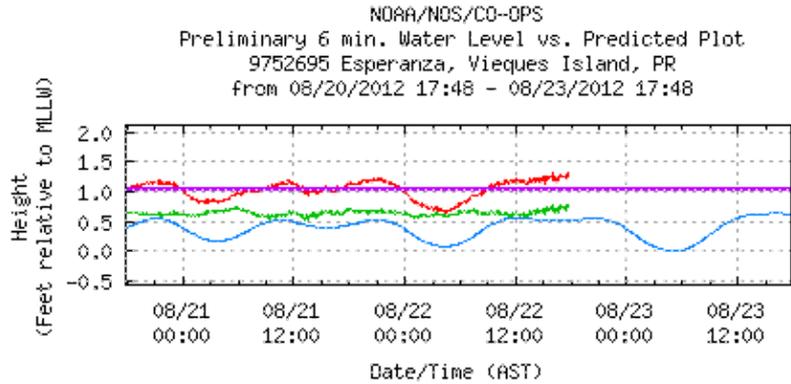
[Charlotte Amalie, VI - Return to List](#)

NOAA/NOS/CO-OPS  
Barometric Pressure Plot  
9751639 Charlotte Amalie, VI  
from 08/20/2012 17:48 - 08/23/2012 17:48



barometric pressure —  
Last Observed Sample: 08/22/2012 17:42 (AST)  
Barometric Pressure: 1010.6 mb

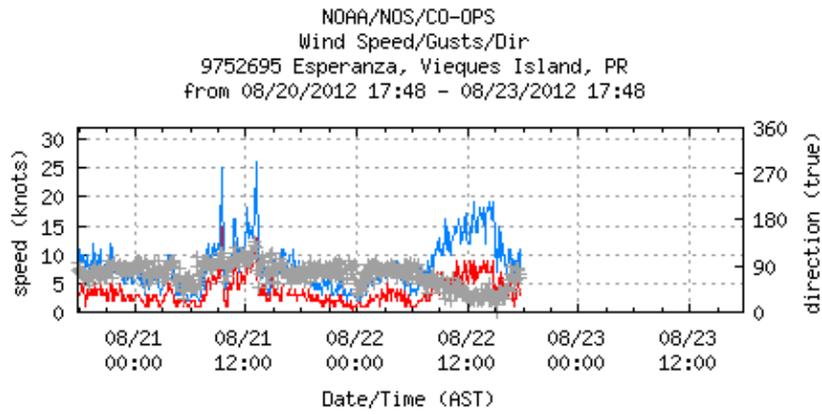
Esperanza, Vieques Island, PR - Return to List



Predicted Tide ——— (Obs-Pred) ———  
 Observed WL ——— HAT ———

Last Observed Sample: 08/22/2012 17:42 (AST)  
 Relative to MLLW: **Observed: 1.26 ft. Predicted: 0.52 ft. Residual: 0.74 ft.**  
 Historical Maximum Water Level: Aug 22 2011, 1.04 ft. above MHHW

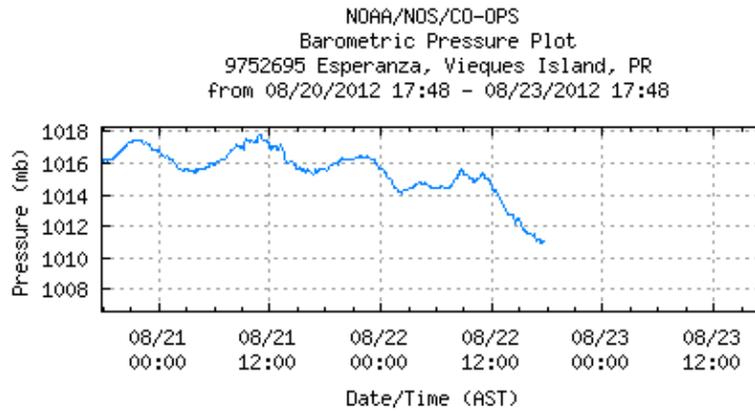
Esperanza, Vieques Island, PR - Return to List



speed ——— gusts ——— direction +

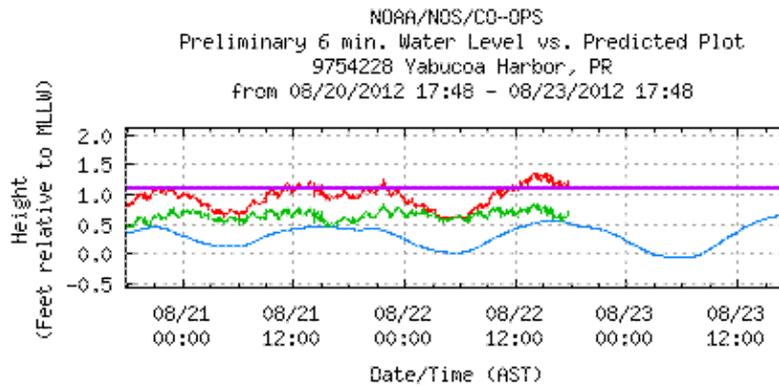
Last Observed Sample: 08/22/2012 17:42 (AST)  
**Wind Speed: 4 knots Gusts: 8 knots Direction: 75° T**

Esperanza, Vieques Island, PR - Return to List



barometric pressure —  
Last Observed Sample: 08/22/2012 17:42 (AST)  
Barometric Pressure: 1011.1 mb

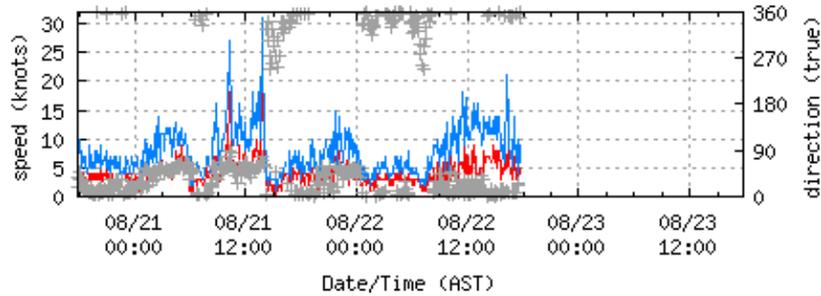
Yabucoa Harbor, PR - Return to List



Predicted Tide — (Obs-Pred) —  
Observed WL — HAT —  
Last Observed Sample: 08/22/2012 17:42 (AST)  
Relative to MLLW: Observed: 1.22 ft. Predicted: 0.52 ft. Residual: 0.70 ft.  
Historical Maximum Water Level: , 0 ft. above MHHW

Yabucoa Harbor, PR - Return to List

NOAA/NOS/CO-OPS  
Wind Speed/Gusts/Dir  
9754228 Yabucoa Harbor, PR  
from 08/20/2012 17:48 - 08/23/2012 17:48



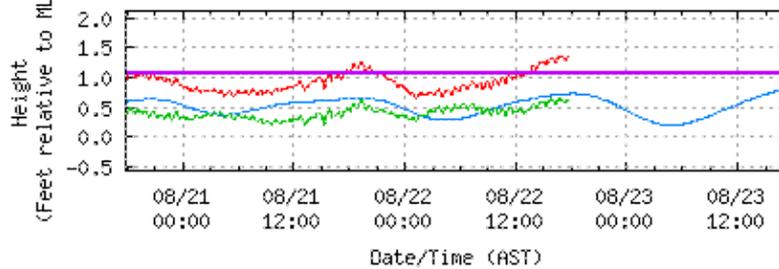
speed — gusts — direction +

Last Observed Sample: 08/22/2012 17:42 (AST)

Wind Speed: 4 knots Gusts: 6 knots Direction: 348° T

Magueyes Island, PR - Return to List

NOAA/NOS/CO-OPS  
Preliminary 6 min. Water Level vs. Predicted Plot  
9759110 Magueyes Island, PR  
from 08/20/2012 17:48 - 08/23/2012 17:48



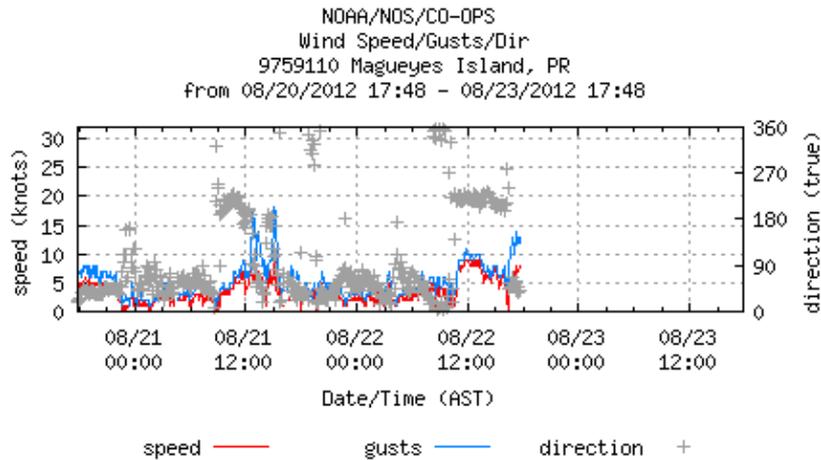
Predicted Tide — (Obs-Pred) —  
Observed WL — HAT —

Last Observed Sample: 08/22/2012 17:42 (AST)

Relative to MLLW: Observed: 1.35 ft. Predicted: 0.72 ft. Residual: 0.63 ft.

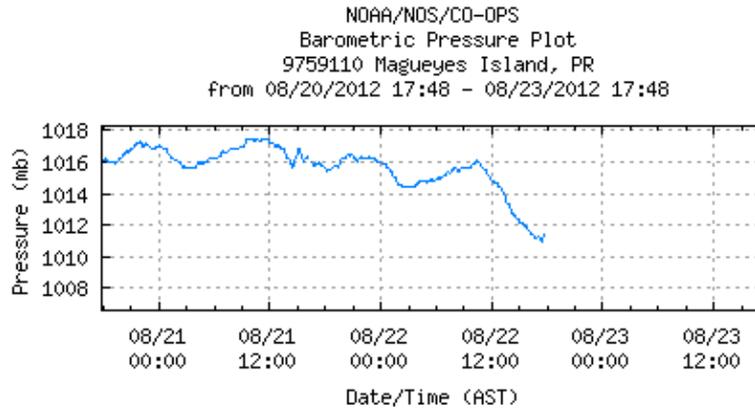
Historical Maximum Water Level: Sep 22 1998, 1.6 ft. above MHHW

Magueyes Island, PR - Return to List



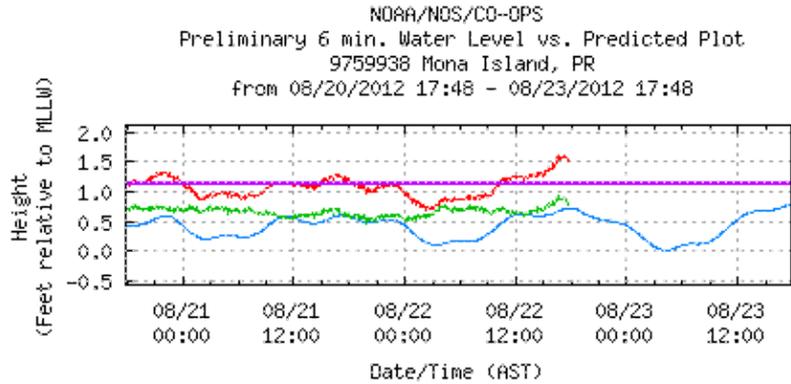
Last Observed Sample: 08/22/2012 17:42 (AST)  
Wind Speed: 8 knots Gusts: 13 knots Direction: 41° T

Magueyes Island, PR - Return to List



Last Observed Sample: 08/22/2012 17:42 (AST)  
Barometric Pressure: 1011.3 mb

Mona Island, PR - Return to List



Predicted Tide — (Obs-Pred) —  
Observed WL — HAT —

Last Observed Sample: 08/22/2012 17:42 (AST)

Relative to MLLW: **Observed: 1.50 ft. Predicted: 0.72 ft. Residual: 0.78 ft.**

Historical Maximum Water Level: Dec 23 2010, 1.26 ft. above MHHW

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