As of 08/02/2011 06:00 AST, water levels in the U.S. Virgin Islands and Puerto Rico are slightly elevated and range from 0.2 to 0.4 feet above predictions. Winds are generally steady, however gusts up to 25 knots have been recorded at Lime Tree Bay, VI and Esperanza, PR. 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:

Lime Tree Bay, VI: Next predicted high tides are 0.68 ft (0.21 m) at 08/02/2011 23:17 AST and 0.47 ft (0.14 m) at 08/03/2011 09:59 AST.

Lameshur Bay, VI: Next predicted high tides are 0.46 ft (0.14 m) at 08/02/2011 11:33 AST and 0.75 ft (0.23 m) at 08/03/2011 00:10 AST.
Charlotte Amalie, VI: Next predicted high tides are 0.55 ft (0.17 m) at 08/02/2011 11:19 AST and 0.79 ft (0.24 m) at 08/02/2011 23:53 AST.

Esperanza, PR: Next predicted high tides are 0.43 ft (0.13 m) at 08/02/2011 08:57 AST and 0.64 ft (0.19 m) at 08/02/2011 23:03 AST.

Magueyes Island, PR: Next predicted high tides are 0.67 ft (0.20 m) at 08/02/2011 23:13 AST and 0.62 ft (0.19 m) at 08/03/2011 22:10 AST.

Mayaguez, PR: Next predicted high tides are 0.94 ft (0.29 m) at 08/02/2011 11:32 AST and 1.10 ft (0.33 m) at 08/02/2011 23:58 AST.

Mona Island, PR: Next predicted high tides are 0.44 ft (0.13 m) at 08/02/2011 10:56 AST and 0.70 ft (0.21 m) at 08/02/2011 23:28 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

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM EMILY ADVISORY NUMBER 3

500 AM AST TUE AUG 02 2011

...EMILY CONTINUES MOVING WESTWARD WITH LITTLE CHANGE IN STRENGTH...

WATCHES AND WARNINGS

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SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A TROPICAL STORM WARNING IS IN EFFECT FOR...
* PUERTO RICO...VIEQUES AND CULEBRA

A TROPICAL STORM WATCH IS IN EFFECT FOR...
* U.S. VIRGIN ISLANDS

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

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

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

AT 500 AM AST...0900 UTC...THE CENTER OF TROPICAL STORM EMILY WAS LOCATED ABOUT 245 MI SE OF SAN JUAN PUERTO RICO. EMILY IS MOVING TOWARD THE WEST NEAR 16 MPH. A TURN TOWARD THE WEST-NORTHWEST AND A GRADUAL DECREASE IN FORWARD SPEED ARE EXPECTED DURING THE NEXT 48 HOURS. ON THE FORECAST TRACK...THE CENTER OF EMILY WILL MOVE ACROSS THE NORTHEASTERN CARIBBEAN SEA TODAY...AND APPROACH THE ISLAND OF HISPANIOLA TONIGHT AND WEDNESDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 40 MPH WITH HIGHER GUSTS. SOME SLOW STRENGTHENING IS POSSIBLE OVER THE NEXT DAY OR SO UNTIL EMILY INTERACTS WITH LAND.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 70 MILES FROM THE CENTER.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 1006 MB...29.71 INCHES.

HAZARDS AFFECTING LAND

WIND...TROPICAL STORM CONDITIONS ARE LIKELY OCCURRING OVER PORTIONS OF THE WARNING AREA IN THE LEEWARD ISLANDS. TROPICAL STORM CONDITIONS ARE EXPECTED IN PUERTO RICO...CULEBRA...AND VIEQUES LATER TODAY...AND IN THE DOMINICAN REPUBLIC BY TONIGHT. TROPICAL STORM CONDITIONS ARE POSSIBLE IN THE WATCH AREA IN THE LEEWARD ISLANDS OVER THE NEXT FEW HOURS...IN THE U.S. VIRGIN ISLANDS LATER THIS MORNING...AND IN HAITI BY WEDNESDAY.

RAINFALL...EMILY IS EXPECTED TO PRODUCE TOTAL RAIN ACCUMULATIONS OF 2 TO 4 INCHES IN THE NORTHERN WINDWARD ISLANDS AND LEEWARD ISLANDS. TOTAL RAIN ACCUMULATIONS OF 4 TO 6 INCHES ARE EXPECTED IN PUERTO RICO AND THE DOMINICAN REPUBLIC WITH ISOLATED MAXIMUM AMOUNTS OF 10 INCHES POSSIBLE. THESE RAINS COULD CAUSE LIFE-THREATENING FLASH FLOODS AND MUD SLIDES IN AREAS OF MOUNTAINOUS TERRAIN.

STORM SURGE...A STORM SURGE WILL RAISE WATER LEVELS BY 1 TO 2 FEET ABOVE NORMAL TIDE LEVELS IN THE TROPICAL STORM WARNING AREA. NEAR THE COAST...THE SURGE WILL BE ACCOMPANIED BY LARGE AND DANGEROUS WAVES.

FORECASTER PASCH

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.
Last Observed Sample: 08/02/2011 06:18 (AST)
Relative to MLLW: Observed: 0.82 ft.  Predicted: 0.53 ft.  Residual: 0.29 ft.
Historical Maximum Water Level: Nov 17 1999, 1.88 ft. above MHHW

Wind Speed: 11 knots  Gusts: 16 knots  Direction: 84° T
Tropical Storm EMILY QuickLook, POSTED 06:00 AST 08/02/2011

Lime Tree Bay, VI - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9/51401 Lime Tree Bay, VI
From 07/31/2011 06:18 - 08/03/2011 06:18

Barometric pressure
Last Observed Sample: 08/02/2011 06:18 (AST)
Barometric Pressure: 1010.1 mb

Lime Tree Bay, VI - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9/51401 Lime Tree Bay, VI
From 07/31/2011 06:18 - 08/03/2011 06:18

water temp.      air temp      
Last Observed Sample: 08/02/2011 06:18 (AST)
Water Temperature: 84.7° F Air Temperature: 81.3° F
Lameshur Bay, St. John, VI - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
9751381 Lameshur Bay, St. John, VI
from 07/31/2011 06:18 - 08/03/2011 06:18

Last Observed Sample: 08/02/2011 06:12 (AST)
Relative to MLLW: Observed: 0.57 ft. Predicted: 0.20 ft. Residual: 0.37 ft.
Historical Maximum Water Level: Aug 30 2010, 0.9 ft. above MHHW

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

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9751381 Lameshur Bay, St. John, VI
from 07/31/2011 06:18 - 08/03/2011 06:18

Last Observed Sample: 08/02/2011 06:12 (AST)
Barometric Pressure: 1011.1 mb
Lameshur Bay, St. John, VI - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9751381 Lameshur Bay, St. John, VI
FROM 07/31/2011 06:18 - 08/03/2011 06:18

Last Observed Sample: 08/02/2011 06:12 (AST)
Water Temperature: 82.9° F Air Temperature: 81.7° F

Charlotte Amalie, VI - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
375159 Charlotte Amalie, VI
FROM 07/31/2011 06:18 - 08/03/2011 06:18

Last Observed Sample: 08/02/2011 06:18 (AST)
Relative to MLLW: Observed: 0.49 ft. Predicted: 0.37 ft. Residual: 0.12 ft.
Historical Maximum Water Level: Sep 16 1995, 2.93 ft. above MHHW
Tropical Storm EMILY QuickLook, POSTED 06:00 AST 08/02/2011

Charlotte Amalie, VI - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9751639 Charlotte Amalie, VI
From 07/31/2011 06:18 - 08/03/2011 06:18

[Graph showing barometric pressure from 07/31/2011 06:18 to 08/03/2011 06:18]

Last Observed Sample: 08/02/2011 06:18 (AST)
Barometric Pressure: 1010.5 mb

Charlotte Amalie, VI - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9751639 Charlotte Amalie, VI
From 07/31/2011 06:18 - 08/03/2011 06:18

[Graph showing air and water temperature from 07/31/2011 06:18 to 08/03/2011 06:18]

Last Observed Sample: 08/02/2011 06:18 (AST)
Water Temperature: 85.5° F Air Temperature: 80.4° F
Esperanza, Vieques Island, PR - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
9752695 Esperanza, Vieques Island, PR
from 07/31/2011 06:18 - 08/03/2011 06:18

Relative to MLLW: Observed: 0.74 ft. Predicted: 0.40 ft. Residual: 0.34 ft.
Historical Maximum Water Level: Oct 13 2006, 0.83 ft. above MHHW

Esperanza, Vieques Island, PR - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
9752695 Esperanza, Vieques Island, PR
from 07/31/2011 06:18 - 08/03/2011 06:18

Wind Speed: 3 knots  Gusts: 7 knots  Direction: 74° T
Esperanza, Vieques Island, PR - Return to List

Barometric Pressure Plot

Last Observed Sample: 08/02/2011 06:12 (AST)
Barometric Pressure: 1011.8 mb

Esperanza, Vieques Island, PR - Return to List

Air/Water Temperature Plot

Last Observed Sample: 08/02/2011 06:12 (AST)
Water Temperature: 84.0° F Air Temperature: 77.9° F
Magueyes Island, PR - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
9759110 Magueyes Island, PR
from 07/31/2011 06:18 - 08/03/2011 06:18

Last Observed Sample: 08/02/2011 06:12 (AST)
Relative to MLLW: Observed: 0.67 ft. Predicted: 0.45 ft. Residual: 0.22 ft.
Historical Maximum Water Level: Sep 22 1998, 1.6 ft. above MHHW

Magueyes Island, PR - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
9759110 Magueyes Island, PR
from 07/31/2011 06:18 - 08/03/2011 06:18

Last Observed Sample: 08/02/2011 06:12 (AST)
Wind Speed: 3 knots Gusts: 3 knots Direction: 52° T
Magueyes Island, PR - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9759110 Magueyes Island, PR
from 07/31/2011 06:18 - 08/03/2011 06:18

Last Observed Sample: 08/02/2011 06:12 (AST)
Barometric Pressure: 1012.0 mb

Magueyes Island, PR - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9759110 Magueyes Island, PR
from 07/31/2011 06:18 - 08/03/2011 06:18

Last Observed Sample: 08/02/2011 06:12 (AST)
Water Temperature: 84.9° F Air Temperature: 78.3° F
Mayaguez, PR - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
S759394 Mayaguez, PR
from 07/31/2011 06:18 - 08/03/2011 06:18

Last Observed Sample: 08/02/2011 06:12 (AST)
Relative to MLLW: Observed: 0.45 ft. Predicted: -0.03 ft. Residual: 0.48 ft.
Historical Maximum Water Level: , 0 ft. above MHHW

Mayaguez, PR - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
S759394 Mayaguez, PR
from 07/31/2011 06:18 - 08/03/2011 06:18

Last Observed Sample: 08/02/2011 06:12 (AST)
Wind Speed: 1 knots Gusts: 3 knots Direction: 346° T
Mayaguez, PR - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
S759394 Mayaguez, PR
From 07/31/2011 06:18 - 08/03/2011 06:18

Barometric Pressure: 1015.9 mb

Mayaguez, PR - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
S759394 Mayaguez, PR
From 07/31/2011 06:18 - 08/03/2011 06:18

Water Temperature: 85.1° F Air Temperature: 77.9° F
Mona Island, PR - Return to List

Last Observed Sample: 08/02/2011 05:54 (AST)
Relative to MLLW: Observed: 0.45 ft. Predicted: 0.34 ft. Residual: 0.11 ft.
Historical Maximum Water Level: 0 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