Storm Analysis

As of 08/03/2011 00:00 AST, water levels in the U.S. Virgin Islands and Puerto Rico are slightly elevated and range from 0.3 to 0.6 feet above predictions. Winds are generally steady, however gusts up to 38 knots have been recorded at Lime Tree Bay, VI and Esperanza, PR. Barometric pressure continues to fall 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 0.47 ft (0.14 m) at 08/03/2011 09:59 AST and 0.64 ft (0.19 m) at 08/03/2011 22:29 AST.

Lameshur Bay, VI Next predicted high tides are 0.75 ft (0.23 m) at 08/03/2011 00:10 AST and 0.54 ft (0.16 m) at 08/03/2011 12:55 AST.
Charlotte Amalie, VI Next predicted high tides are 0.62 ft (0.19 m) at 08/03/2011 12:53 AST and 0.68 ft (0.21 m) at 08/04/2011 00:09 AST.

Esperanza, PR Next predicted high tides are 0.44 ft (0.13 m) at 08/03/2011 11:00 AST and 0.59 ft (0.18 m) at 08/03/2011 22:57 AST.

Magueyes, PR Next predicted high tides are 0.62 ft (0.19 m) at 08/03/2011 22:10 AST and 0.65 ft (0.20 m) at 08/04/2011 20:49 AST.

Mayaguez, PR Next predicted high tides are 1.01 ft (0.31 m) at 08/03/2011 12:29 AST and 1.00 ft (0.30 m) at 08/04/2011 00:44 AST.

Mona Island, PR Next predicted high tides are 0.47 ft (0.14 m) at 08/03/2011 11:58 AST and 0.62 ft (0.19 m) at 08/03/2011 23:46 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: CMF

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM EMILY ADVISORY NUMBER 6
1100 PM AST TUE AUG 02 2011

...EMILY MOVING WEST-NORTHWESTWARD...EXPECTED TO APPROACH HISPANIOLA ON WEDNESDAY...

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

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.

DISCUSSION AND 48-HOUR OUTLOOK

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AT 1100 PM AST THE CENTER OF TROPICAL STORM EMILY WAS ESTIMATED TO BE ABOUT 125 MI S OF PONCE PUERTO RICO AND ABOUT 265 MI SE OF SANTO DOMINGO DOMINICAN REPUBLIC. EMILY IS MOVING TOWARD THE WEST-NORTHWEST NEAR 14 MPH. A TURN TOWARD THE NORTHWEST WITH LITTLE CHANGE IN FORWARD SPEED IS EXPECTED OVER THE NEXT COUPLE OF DAYS. ON THE FORECAST TRACK...THE CENTER OF EMILY WILL...
MOVE ACROSS HISPANIOLA LATE WEDNESDAY AND WEDNESDAY NIGHT AND INTO THE SOUTHEASTERN BAHAMAS AND TURKS AND CAICOS ISLANDS ON THURSDAY.

MAXIMUM SUSTAINED WINDS REMAIN NEAR 50 MPH WITH HIGHER GUSTS. SOME STRENGTHENING IS POSSIBLE BEFORE THE CENTER REACHES HISPANIOLA AND WEAKENING IS EXPECTED AS THE CENTER MOVES OVER THE HIGH TERRAIN OF THAT ISLAND.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 120 MILES MAINLY TO THE NORTH AND EAST OF THE CENTER.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 1005 MB.

HAZARDS AFFECTING LAND

WIND...TROPICAL STORM CONDITIONS ARE OCCURRING OR IMMINENT IN PUERTO RICO...CULEBRA AND VIEQUES. TROPICAL STORM CONDITIONS ARE POSSIBLE IN THE U.S. VIRGIN ISLANDS TONIGHT.

RAINFALL...EMILY IS EXPECTED TO PRODUCE TOTAL RAIN ACCUMULATIONS OF 4 TO 6 INCHES IN PUERTO RICO 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 BRENNA
Relatives to MLLW: Observed: 0.97 ft. Predicted: 0.65 ft. Residual: 0.32 ft.
Historical Maximum Water Level: Nov 17 1999, 1.88 ft. above MHHW
Tropical Storm EMILY QuickLook, POSTED 00:00 AST 08/03/2011

Lime Tree Bay, VI - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9751401 Lime Tree Bay, VI
from 07/31/2011 23:54 - 08/03/2011 23:54

Barometric Pressure: 1010.6 mb

Lime Tree Bay, VI - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9751401 Lime Tree Bay, VI
from 07/31/2011 23:54 - 08/03/2011 23:54

Water Temperature: 83.7° F Air Temperature: 83.4° 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 23:54 - 08/03/2011 23:54

Last Observed Sample: 08/02/2011 23:48 (AST)
Relative to MLLW: Observed: 1.18 ft. Predicted: 0.73 ft. Residual: 0.45 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 23:54 - 08/03/2011 23:54

Last Observed Sample: 08/02/2011 23:48 (AST)
Barometric Pressure: 1011.3 mb
Tropical Storm EMILY QuickLook, POSTED 00:00 AST 08/03/2011

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

Last Observed Sample: 08/02/2011 23:48 (AST)
Water Temperature: 83.7° F Air Temperature: 82.8° F

Charlotte Amalie, VI - Return to List

Relative to MLLW: Observed: 1.18 ft. Predicted: 0.76 ft. Residual: 0.42 ft.
Historical Maximum Water Level: Sep 16 1995, 2.93 ft. above MHHW

Tropical Storm EMILY QuickLook, POSTED 00:00 AST 08/03/2011
Barometric Pressure Plot
9751639 Charlotte Amalie, VI
from 07/31/2011 23:54 - 08/03/2011 23:54

Last Observed Sample: 08/02/2011 23:54 (AST)
Barometric Pressure: 1010.6 mb

Air/Water Temperature Plot
9751639 Charlotte Amalie, VI
from 07/31/2011 23:54 - 08/03/2011 23:54

Last Observed Sample: 08/02/2011 23:54 (AST)
Water Temperature: 85.2° F Air Temperature: 82.2° F
Esperanza, Vieques Island, PR - Return to List

Last Observed Sample: 08/02/2011 23:48 (AST)
Relative to MLLW: Observed: 1.16 ft. Predicted: 0.56 ft. Residual: 0.60 ft.
Historical Maximum Water Level: Oct 13 2006, 0.83 ft. above MHHW

Esperanza, Vieques Island, PR - Return to List

Wind Speed: 18 knots  Gusts: 23 knots  Direction: 141° T
Esperanza, Vieques Island, PR - Return to List

NOAA/NOS/CO-OPS
Barometric Pressure Plot
3752695 Esperanza, Vieques Island, PR
From 07/31/2011 23:54 - 08/03/2011 23:54

Barometric Pressure: 1012.1 mb

Esperanza, Vieques Island, PR - Return to List

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
3752695 Esperanza, Vieques Island, PR
From 07/31/2011 23:54 - 08/03/2011 23:54

Water Temperature: 84.2° F Air Temperature: 83.5° F
Magueyes Island, PR - Return to List

NOAA/NOS/CO-OPS
Preliminary 6 min. Water Level vs. Predicted Plot
9759110 Magueyes Island, PR
From 07/31/2011 23:54 - 08/03/2011 23:54

Last Observed Sample: 08/02/2011 23:42 (AST)
Relative to MLLW: Observed: 0.96 ft. Predicted: 0.64 ft. Residual: 0.32 ft.
Historical Maximum Water Level: Sep 22 1998, 1.6 ft. above MHHW

Magueyes Island, PR - Return to List

NOAA/NOS/CO-OPS
Wind Speed/Gusts/Dir
9759110 Magueyes Island, PR
From 07/31/2011 23:54 - 08/03/2011 23:54

Last Observed Sample: 08/02/2011 23:42 (AST)
Wind Speed: 7 knots Gusts: 15 knots Direction: 119° T
Magueyes Island, PR - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9759110 Magueyes Island, PR
from 07/31/2011 23:54 - 08/03/2011 23:54

Last Observed Sample: 08/02/2011 23:42 (AST)
Barometric Pressure: 1010.8 mb

Magueyes Island, PR - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9759110 Magueyes Island, PR
from 07/31/2011 23:54 - 08/03/2011 23:54

Last Observed Sample: 08/02/2011 23:42 (AST)
Water Temperature: 85.1° F Air Temperature: 81.5° 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 23:54 - 08/03/2011 23:54

Last Observed Sample: 08/02/2011 23:48 (AST)
Relative to MLLW: Observed: 1.54 ft. Predicted: 1.04 ft. Residual: 0.50 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 23:54 - 08/03/2011 23:54

Last Observed Sample: 08/02/2011 23:48 (AST)
Wind Speed: 2 knots Gusts: 4 knots Direction: 54° T
Mayaguez, PR - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9759394 Mayaguez, PR
From 07/31/2011 23:54 - 08/03/2011 23:54

Last Observed Sample: 08/02/2011 23:48 (AST)
Barometric Pressure: 1014.6 mb

Mayaguez, PR - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9759394 Mayaguez, PR
From 07/31/2011 23:54 - 08/03/2011 23:54

Last Observed Sample: 08/02/2011 23:48 (AST)
Water Temperature: 84.7° F Air Temperature: 77.4° F
Mona Island, PR - Return to List

Preliminary 6 min. Water Level vs. Predicted Plot
9759938 Mona Island, PR
From 07/31/2011 23:54 - 08/03/2011 23:54

Last Observed Sample: 08/02/2011 22:54 (AST)
Relative to MLLW: Observed: 0.98 ft. Predicted: 0.69 ft. Residual: 0.29 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