As of 08/29/2010 00:45 EDT, water levels across the U.S. Virgin Islands and Puerto Rico are about 0.5 feet above predictions.

Wind speeds are generally ranging from 5 to 10 kts with some gusts up to 15 kts recorded over the past 6 hours. Barometric pressure is falling across the region.

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

CHRISTIANSTED HARBOR, ST CROIX, VI Next predicted high tides are 0.59 ft (0.18 m) at 08/29/2010 12:13 AST and 0.48 ft (0.15 m) at 08/29/2010 22:07 AST.

LAMESHUR BAY, ST. JOHN, VI Next predicted high tides are 0.66 ft (0.20 m) at 08/29/2010
13:20 AST and 0.45 ft (0.14 m) at 08/30/2010 00:14 AST.

CHARLOTTE AMALIE, VI Next predicted high tides are 0.78 ft (0.24 m) at 08/29/2010 13:30 AST and 0.82 ft (0.25 m) at 08/30/2010 14:50 AST.

CULEBRA, PR Next predicted high tides are 0.90 ft (0.27 m) at 08/29/2010 13:10 AST and 0.70 ft (0.21 m) at 08/30/2010 00:22 AST.

ESPERANZA, VIEQUES ISLAND, PR Next predicted high tides are 0.53 ft (0.16 m) at 08/29/2010 12:08 AST and 0.48 ft (0.15 m) at 08/29/2010 21:24 AST.

SAN JUAN, PR Next predicted high tides are 1.24 ft (0.38 m) at 08/29/2010 00:03 AST and 1.56 ft (0.48 m) at 08/29/2010 13:11 AST.

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: WFR

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM EARL ADVISORY NUMBER 15
1100 PM AST SAT AUG 28 2010

...EARL MOVING WESTWARD TOWARD THE LEEWARD ISLANDS...NEW WATCHES AND WARNINGS ISSUED...

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY...

A HURRICANE WATCH HAS BEEN ISSUED FOR PUERTO RICO AND THE U. S. VIRGIN ISLANDS...INCLUDING THE ISLANDS OF CULEBRA AND VIEQUES.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

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

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 1100 PM AST...THE CENTER OF TROPICAL STORM EARL WAS LOCATED ABOUT 520 MI
E OF THE NORTHERN LEEWARD ISLANDS. EARL IS MOVING TOWARD THE WEST NEAR 20 MPH AND THIS GENERAL MOTION IS EXPECTED TO CONTINUE WITH A GRADUAL DECREASE IN FORWARD SPEED ON SUNDAY. A GRADUAL TURN TOWARD THE WEST-NORTHWEST IS EXPECTED SUNDAY NIGHT AND MONDAY. ON THE FORECAST TRACK...THE CENTER OF EARL COULD PASS NEAR OR OVER THE NORTHERN LEEWARD ISLANDS SUNDAY NIGHT OR MONDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 65 MPH WITH HIGHER GUSTS. STRENGTHENING IS FORECAST DURING THE NEXT 48 HOURS AND EARL IS EXPECTED TO BECOME A HURRICANE ON SUNDAY.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 160 MILES FROM THE CENTER. ESTIMATED MINIMUM CENTRAL PRESSURE IS 989 MB.

HAZARDS AFFECTING LAND
-----------------------
WIND...HURRICANE CONDITIONS ARE EXPECTED OVER THE NORTHERN LEEWARD ISLANDS BY SUNDAY NIGHT. HURRICANE CONDITIONS MAY SPREAD OVER THE VIRGIN ISLANDS AND PUERTO RICO MONDAY AND MONDAY NIGHT.

STORM SURGE...STORM SURGE WILL RAISE WATER LEVELS 1 TO 3 FEET ABOVE NORMAL TIDE LEVELS...ACCOMPANIED BY LARGE AND DANGEROUS BATTERING WAVES...NEAR THE CENTER OF EARL.

RAINFALL...EARL IS EXPECTED TO PRODUCE TOTAL RAINFALL ACCUMULATIONS OF 3 TO 5 INCHES OVER MUCH OF THE NORTHERN LEEWARD ISLANDS...WITH POSSIBLE MAXIMUM ISOLATED AMOUNTS OF 8 INCHES.

NEXT ADVISORY
------------
NEXT INTERMEDIATE ADVISORY...200 AM AST.
NEXT COMPLETE ADVISORY...500 AM AST.

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.
Island - Barometric, Esperanza, Vieques Island - Air/Water Temp, San Juan - Water Level, San Juan - Winds, San Juan - Barometric, San Juan - Air/Water Temp.
Christiansted Harbor, St Croix, VI  

Last Observed Sample: 08/29/2010 00:54 (AST)

Relative to MLLW: Observed: 0.69 ft. Predicted: 0.24 ft. Residual: 0.45 ft.

Historical Maximum Water Level: Oct 13 2006, 0.73 ft. above MHHW

---

Christiansted Harbor, St Croix, VI  

Last Observed Sample: 08/29/2010 00:54 (AST)

Wind Speed: 5 knots  Gusts: 7 knots  Direction: 054° T
Christiansted Harbor, St Croix, VI

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9751364 Christiansted Harbor, St Croix, VI
From 08/27/2010 01:05 - 08/30/2010 01:06

Last Observed Sample: 08/29/2010 00:54 (AST)
Barometric Pressure: 1012.1 mb

Christiansted Harbor, St Croix, VI

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9751364 Christiansted Harbor, St Croix, VI
From 08/27/2010 01:05 - 08/30/2010 01:06

Last Observed Sample: 08/29/2010 00:54 (AST)
Water Temperature: 87.6° F Air Temperature: 84.6° F
Tropical Storm EARL QuickLook, POSTED 01:00 AST 08/29/2010

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 08/27/2010 01:05 - 08/30/2010 01:06

Last Observed Sample: 08/29/2010 00:54 (AST)
Relative to MLLW: Observed: 0.90 ft. Predicted: 0.40 ft. Residual: 0.50 ft.
Historical Maximum Water Level: Nov 6 2006, 0.83 ft. above MHHW

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

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9751381 Lameshur Bay, St. John, VI
from 08/27/2010 01:05 - 08/30/2010 01:06

Last Observed Sample: 08/29/2010 00:54 (AST)
Water Temperature: 87.4° F Air Temperature: 79.0° F
Charlotte Amalie, VI - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
9751639 Charlotte Amalie, VI
from 08/27/2010 01:06 - 08/30/2010 01:06

Last Observed Sample: 08/29/2010 00:54 (AST)
Relative to MLLW: Observed: 0.85 ft. Predicted: 0.48 ft. Residual: 0.37 ft.
Historical Maximum Water Level: Sep 16 1995, 2.93 ft. above MHHW

Charlotte Amalie, VI - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
9751639 Charlotte Amalie, VI
from 08/27/2010 01:06 - 08/30/2010 01:06

Last Observed Sample: 08/29/2010 00:54 (AST)
Wind Speed: 3 knots Gusts: 6 knots Direction: 051° T
Charlotte Amalie, VI - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9751639 Charlotte Amalie, VI
From 08/27/2010 01:05 - 08/30/2010 01:06

Barometric Pressure: 1011.5 mb

Charlotte Amalie, VI - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9751639 Charlotte Amalie, VI
From 08/27/2010 01:05 - 08/30/2010 01:06

Water Temperature: 93.6° F Air Temperature: 84.7° F
Culebra, PR - Return to List

NOAA/NOCCS
Preliminary 6 min. Water Level vs. Predicted Plot
9752235 Culebra, PR
from 08/27/2010 01:05 - 08/30/2010 01:06

Relative to MLLW: Observed: 1.07 ft. Predicted: 0.60 ft. Residual: 0.47 ft.

Historical Maximum Water Level: Nov 6 2006, 0.86 ft. above MHHW

Culebra, PR - Return to List

NOAA/NOCCS
Wind Speed/Gusts/Dir
9752235 Culebra, PR
from 08/27/2010 01:05 - 08/30/2010 01:06

Wind Speed: 3 knots Gusts: 5 knots Direction: 063° T
Culebra, PR - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9752235 Culebra, PR
From 08/27/2010 01:00 - 08/30/2010 01:00

Date/Time (AST)

12:00 00:00 12:00 00:00 12:00 00:00 12:00 00:00
Pressure (mb)

barometric pressure

Last Observed Sample: 08/29/2010 00:54 (AST)
Barometric Pressure: 1013.7 mb

Culebra, PR - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9752235 Culebra, PR
From 08/27/2010 01:00 - 08/30/2010 01:00

Date/Time (AST)

12:00 00:00 12:00 00:00 12:00 00:00 12:00 00:00
Temperature (°F)

water temp.  air temp

Last Observed Sample: 08/29/2010 00:54 (AST)
Water Temperature: 86.9° F Air Temperature: 83.1° F
Esperanza, Vieques Island, PR - Return to List

**Tropical Storm EARL QuickLook, POSTED 01:00 AST 08/29/2010**

**Esperanza, Vieques Island, PR**

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
9752695 Esperanza, Vieques Island, PR
from 08/27/2010 01:05 - 08/30/2010 01:06

Relative to MLLW:
- Observed: 0.68 ft.
- Predicted: 0.24 ft.
- Residual: 0.44 ft.

Historical Maximum Water Level: Oct 13 2006, 0.83 ft. above MHHW

**Esperanza, Vieques Island, PR**

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
9752695 Esperanza, Vieques Island, PR
from 08/27/2010 01:05 - 08/30/2010 01:06

Last Observed Sample: 08/29/2010 00:54 (AST)

Wind Speed: 1 knots
Gusts: 2 knots
Direction: 038° T
Esperanza, Vieques Island, PR

Barometric Pressure Plot

Last Observed Sample: 08/29/2010 00:54 (AST)
Barometric Pressure: 1013.1 mb

Esperanza, Vieques Island, PR

Air/Water Temperature Plot

Last Observed Sample: 08/29/2010 00:54 (AST)
Water Temperature: 88.5° F Air Temperature: 79.7° F
**San Juan, PR** - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
S755371 San Juan, PR
from 08/27/2010 01:05 - 08/30/2010 01:06

Last Observed Sample: 08/29/2010 01:00 (AST)
Relative to MLLW: Observed: 1.37 ft. Predicted: 1.04 ft. Residual: 0.33 ft.
Historical Maximum Water Level: Sep 21 1998, 1.21 ft. above MHHW

**San Juan, PR** - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
S755371 San Juan, PR
from 08/27/2010 01:05 - 08/30/2010 01:06

Last Observed Sample: 08/29/2010 01:00 (AST)
Wind Speed: 5 knots Gusts: 7 knots Direction: 235° T
San Juan, PR - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
S75571 San Juan, PR
From 08/27/2010 01:06 - 08/30/2010 01:06

<table>
<thead>
<tr>
<th>Date/Time (AST)</th>
<th>Barometric Pressure (mb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/27/2010</td>
<td>1014.0</td>
</tr>
<tr>
<td>08/28/2010</td>
<td>1012.0</td>
</tr>
<tr>
<td>08/29/2010</td>
<td>1013.1</td>
</tr>
<tr>
<td>08/30/2010</td>
<td>1012.0</td>
</tr>
</tbody>
</table>

Last Observed Sample: 08/29/2010 01:00 (AST)
Barometric Pressure: 1013.1 mb

San Juan, PR - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
S75571 San Juan, PR
From 08/27/2010 01:06 - 08/30/2010 01:06

<table>
<thead>
<tr>
<th>Date/Time (AST)</th>
<th>Water Temperature (°F)</th>
<th>Air Temperature (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/27/2010</td>
<td>88.5</td>
<td>82.0</td>
</tr>
<tr>
<td>08/28/2010</td>
<td>89.0</td>
<td>82.0</td>
</tr>
<tr>
<td>08/29/2010</td>
<td>88.5</td>
<td>82.0</td>
</tr>
<tr>
<td>08/30/2010</td>
<td>88.5</td>
<td>82.0</td>
</tr>
</tbody>
</table>

Last Observed Sample: 08/29/2010 01:00 (AST)
Water Temperature: 88.5° F Air Temperature: 82.0° F