As of 08/29/2010 06:00 EDT, water levels across the U.S. Virgin Islands and Puerto Rico are about 0.4 to 0.5 feet above predictions.

Wind speeds are generally ranging from 5 to 10 kts with some gusts up to 22 kts at San Juan PR and 31 kts at Christiansted Harbor, St. Croix, USVI. Barometric pressure has leveled off and began to increase 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 1.56 ft (0.48 m) at 08/29/2010 13:11 AST and 1.16 ft (0.35 m) at 08/30/2010 00:29 AST.

AQUADILLA, PR Next predicted high tides are 1.28 ft (0.39 m) at 08/29/2010 12:11 AST and 1.00 ft (0.30 m) at 08/30/2010 00:10 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: MPM

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SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM EARL ADVISORY NUMBER 16

500 AM AST SUN AUG 29 2010

...EARL HEADED FOR THE NORTHERN LEEWARD ISLANDS...EXPECTED TO BECOME A HURRICANE LATER TODAY...

LOCATED NEAR LATITUDE 16.9 NORTH...LONGITUDE 56.9 WEST ABOUT 420 MI E OF THE NORTHERN LEEWARD ISLANDS

WATCHES AND WARNINGS
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SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WATCH IS IN EFFECT FOR...

* U.S. VIRGIN ISLANDS
* PUERTO RICO INCLUDING THE ISLANDS OF CULEBRA AND VIEQUES
HURRICANE CONDITIONS ARE EXPECTED WITHIN THE WARNING AREA BEGINNING WITHIN 24 HOURS. PREPARATIONS TO PROTECT LIFE AND PROPERTY SHOULD BE RUSHED TO COMPLETION.

HURRICANE CONDITIONS ARE POSSIBLE WITHIN THE WATCH AREA WITHIN THE NEXT 36 HOURS.

DISCUSSION AND 48-HOUR OUTLOOK
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AT 500 AM AST THE CENTER OF TROPICAL STORM EARL WAS LOCATED NEAR LATITUDE 16.9 NORTH...LONGITUDE 56.9 WEST ABOUT 420 MI E OF THE NORTHERN LEEWARD ISLANDS. EARL IS MOVING TOWARD THE WEST NEAR 18 MPH. A TURN TOWARD THE WEST-NORTHWEST WITH A GRADUAL DECREASE IN FORWARD SPEED IS EXPECTED IN THE NEXT 48 HOURS. ON THE FORECAST TRACK...THE CENTER OF EARL WILL PASS NEAR OR OVER THE NORTHERN LEEWARD ISLANDS SUNDAY NIGHT AND MONDAY.

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

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 160 MILES FROM THE CENTER.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 989 MB...29.21 INCHES.

HAZARDS AFFECTING LAND
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STORM SURGE...STORM SURGE WILL RAISE WATER LEVELS 1 TO 3 FEET ABOVE NORMAL TIDE LEVELS IN THE WARNING AREA NEAR AND TO THE RIGHT OF THE PATH OF THE CENTER OF EARL. THE SURGE WILL BE ACCOMPANIED BY LARGE AND DANGEROUS BATTERING WAVES.

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.

FORECASTER BRENNAN

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.
Christiansted Harbor, St Croix, VI - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
9751364 Christiansted Harbor, St Croix, VI
from 08/27/2010 05:18 - 08/30/2010 05:18

Last Observed Sample: 08/29/2010 05:00 (AST)
Relative to MLLW: Observed: 0.57 ft. Predicted: 0.10 ft. Residual: 0.47 ft.
Historical Maximum Water Level: Oct 13 2006, 0.73 ft. above MHHW

Christiansted Harbor, St Croix, VI - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
9751364 Christiansted Harbor, St Croix, VI
from 08/27/2010 05:18 - 08/30/2010 05:18

Last Observed Sample: 08/29/2010 05:00 (AST)
Wind Speed: 7 knots Gusts: 11 knots Direction: 042° T
Christiansted Harbor, St Croix, VI - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9751364 Christiansted Harbor, St Croix, VI
From 08/27/2010 05:18 - 08/30/2010 05:18

Barometric Pressure: 1010.9 mb

Last Observed Sample: 08/29/2010 05:00 (AST)

Christiansted Harbor, St Croix, VI - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9751364 Christiansted Harbor, St Croix, VI
From 08/27/2010 05:18 - 08/30/2010 05:18

Water Temperature: 87.1° F Air Temperature: 85.1° F

Last Observed Sample: 08/29/2010 05:00 (AST)
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 05:18 - 08/30/2010 05:18

Last Observed Sample: 08/29/2010 05:06 (AST)
Relative to MLLW: Observed: 0.58 ft. Predicted: 0.10 ft. Residual: 0.48 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 05:18 - 08/30/2010 05:18

Last Observed Sample: 08/29/2010 05:06 (AST)
Water Temperature: 87.1° F Air Temperature: 81.3° F
Tropical Storm EARL QuickLook, POSTED 06:00 EDT 08/29/2010

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 05:18 to 08/30/2010 05:18

Last Observed Sample: 08/29/2010 05:06 (AST)
Relative to MLLW: Observed: 0.50 ft. Predicted: 0.29 ft. Residual: 0.21 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 05:18 to 08/30/2010 05:18

Last Observed Sample: 08/29/2010 05:06 (AST)
Wind Speed: 5 knots Gusts: 9 knots Direction: 057° T
Charlotte Amalie, VI - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9751639 Charlotte Amalie, VI
From 08/27/2010 05:18 - 08/30/2010 05:18

Barometric Pressure: 1010.6 mb

Last Observed Sample: 08/29/2010 05:06 (AST)

Charlotte Amalie, VI - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9751639 Charlotte Amalie, VI
From 08/27/2010 05:18 - 08/30/2010 05:18

Water Temperature: 93.6° F Air Temperature: 84.3° F

Last Observed Sample: 08/29/2010 05:06 (AST)
Culebra, PR - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
9752235 Culebra, PR
from 08/27/2010 05:18 - 08/30/2010 05:18

<table>
<thead>
<tr>
<th>Date/Time (AST)</th>
<th>08/27</th>
<th>08/28</th>
<th>08/28</th>
<th>08/29</th>
<th>08/29</th>
<th>08/29</th>
<th>08/30</th>
<th>08/30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (feet relative to MLLW)</td>
<td>0.5</td>
<td>1.0</td>
<td>1.5</td>
<td>2.0</td>
<td>0.5</td>
<td>1.0</td>
<td>1.5</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Predicted WL  -  Obs-Pred)
Observed WL  -  MHHW
Historical Maximum Water Level: Nov 6 2006, 0.86 ft. above MHHW

Culebra, PR - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
9752235 Culebra, PR
from 08/27/2010 05:18 - 08/30/2010 05:18

<table>
<thead>
<tr>
<th>Date/Time (AST)</th>
<th>08/27</th>
<th>08/28</th>
<th>08/28</th>
<th>08/29</th>
<th>08/29</th>
<th>08/29</th>
<th>08/30</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Speed (knots)</td>
<td>4</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
<td>35</td>
</tr>
<tr>
<td>Gusts (knots)</td>
<td>7</td>
<td>5</td>
<td>7</td>
<td>9</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>Direction</td>
<td>030° T</td>
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</tr>
</tbody>
</table>

Last Observed Sample: 08/29/2010 05:06 (AST)
Wind Speed: 4 knots Gusts: 7 knots Direction: 030° T
Culebra, PR - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9752235 Culebra, PR
From 08/27/2010 05:18 - 08/30/2010 05:18

![Barometric pressure graph]

Last Observed Sample: 08/29/2010 05:06 (AST)
Barometric Pressure: 1012.7 mb

Culebra, PR - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9752235 Culebra, PR
From 08/27/2010 05:18 - 08/30/2010 05:18

![Temperature graph]

Last Observed Sample: 08/29/2010 05:06 (AST)
Water Temperature: 86.7° F Air Temperature: 83.7° F
Esperanza, Vieques Island, PR - Return to List

Last Observed Sample: 08/29/2010 05:06 (AST)

Relative to MLLW: Observed: 0.58 ft. Predicted: 0.17 ft. Residual: 0.41 ft.

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

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Esperanza, Vieques Island, PR - Return to List

Last Observed Sample: 08/29/2010 05:06 (AST)

Wind Speed: 1 knots Gusts: 2 knots Direction: 088° T
Esperanza, Vieques Island, PR - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9752695 Esperanza, Vieques Island, PR
From 08/27/2010 05:18 - 06/30/2010 05:18

Barometric Pressure: 1012.1 mb

Esperanza, Vieques Island, PR - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
9752695 Esperanza, Vieques Island, PR
From 08/27/2010 05:18 - 06/30/2010 05:18

Water Temperature: 87.4° 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 05:18 - 08/30/2010 05:18

Last Observed Sample: 08/29/2010 05:06 (AST)
Relative to MLLW: Observed: 0.65 ft. Predicted: 0.30 ft. Residual: 0.35 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 05:18 - 08/30/2010 05:18

Last Observed Sample: 08/29/2010 05:06 (AST)
Wind Speed: 7 knots Gusts: 8 knots Direction: 240° T
San Juan, PR

NOAA/NOS/CO-OPS
Barometric Pressure Plot
S753371 San Juan, PR
From 08/27/2010 05:18 - 08/30/2010 05:18

Last Observed Sample: 08/29/2010 05:06 (AST)
Barometric Pressure: 1012.1 mb

San Juan, PR

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
S753371 San Juan, PR
From 08/27/2010 05:18 - 08/30/2010 05:18

Last Observed Sample: 08/29/2010 05:06 (AST)
Water Temperature: 88.2° F Air Temperature: 80.6° F
**Aguadilla, PR** - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
9759412 Aguadilla, PR
from 08/27/2010 05:18 - 08/30/2010 05:18

Last Observed Sample: 08/29/2010 05:06 (AST)
Relative to **MLLW**: Observed: 0.40 ft. Predicted: 0.06 ft. Residual: 0.34 ft.
Historical Maximum Water Level: Oct 28 2007, 0.95 ft. above **MHHW**

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**Aguadilla, PR** - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
9759412 Aguadilla, PR
from 08/27/2010 05:18 - 08/30/2010 05:18

Last Observed Sample: 08/29/2010 05:06 (AST)
Barometric Pressure: 1013.4 mb
Aguadilla, PR

NOAA/NOS/C0-OPS
Air/Water Temperature Plot
9793412 Aguadilla, PR
From 08/27/2010 05:18 - 08/30/2010 05:18

Last Observed Sample: 08/29/2010 05:06 (AST)

Water Temperature: 86.7° F  Air Temperature: 80.2° F

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