Storm Analysis
As of 08/27/2015 18:00 AST, water levels along the coasts of Puerto Rico, the U.S. Virgin Islands and Barbuda are measuring 0.3-0.7 feet above tidal predictions. Wind speeds are slowly increasing across the region, measuring 5 to 25 knots with gusts up to 30 knots. Barometric pressure has begun to decrease across the islands.
Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

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: AC

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SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM ERIKA ADVISORY NUMBER 12

NWS NATIONAL HURRICANE CENTER MIAMI FL

500 PM AST THU AUG 27 2015

...ERIKA PRODUCING VERY HEAVY RAINS OVER PORTIONS OF THE LEEWARD ISLANDS...

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

* Culebra

* 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. 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 PM AST, the center of Tropical Storm Erika was located about 175 MI W of Guadeloupe. Erika is moving toward the west-northwest near 15 mph and this general motion is expected to continue for the next 48 hours. On the forecast track, the center of Erika will move near the Virgin Islands this evening, move near or over Puerto Rico tonight, and move near or over the Dominican Republic on Friday.

Maximum sustained winds are near 45 mph with higher gusts.
No significant change in strength is forecast during the next 48 hours.

Tropical storm force winds extend outward up to 140 miles from the center.

The estimated minimum central pressure is 1006 mb.

HAZARDS AFFECTING LAND

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WIND: Tropical storm conditions are expected to continue over portions of the warning area in the Leeward Islands for the next few hours, and reach the Virgin Islands this evening and Puerto Rico tonight. Tropical storm conditions are possible in the watch area in the Leeward Islands for the next few hours. Tropical storm conditions could reach portions of the watch area in the Dominican Republic on Friday, and the southeastern Bahamas and Turks and Caicos Islands late Friday and Friday night.

RAINFALL: Erika is expected to produce total rainfall accumulations of 4 to 8 inches with maximum amounts of 12 inches possible across portions of the Leeward Islands, the Virgin Islands, Puerto Rico, the Dominican Republic, the Turks and Caicos Islands, and the southeastern Bahamas through Saturday. These rains could cause life-threatening flash floods and mud slides.

NEXT ADVISORY

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Next intermediate advisory at 800 PM AST.

Next complete advisory at 1100 PM AST.

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: 08/27/2015 17:48 (AST). Data relative to MHHW

- Observed: 0.41 ft. Predicted: 0.09 ft. Residual: 0.32 ft.
- Historical Maximum Water Level: Aug 23 2012, 1.05 ft.
- Next High Tide: 08/28/2015 02:39 (AST), 0.08 ft.

Last Observed Sample: 08/27/2015 17:48 (AST)

Wind Speed: 16 knots  Gusts: 23 knots  Direction: 117° T
NOAA/NOS/CO-OPS 9761115 Barbuda

Barometric Pressure

Last Observed Sample: 08/27/2015 17:48 (AST)

Barometric Pressure: 1012.7 mb

Tropical Storm ERIKA QuickLook, POSTED 18:00 AST 08/27/2015

NOAA/NOS/CO-OPS 9751364 Christiansted Harbor, St Croix, VI

Preliminary Water Level, relative to Mean Higher High Water (MHHW)

Last Observed Sample: 08/27/2015 17:48 (AST). Data relative to MHHW

Observed: 0.46 ft. Predicted: -0.05 ft. Residual: 0.51 ft.


Next High Tide: 08/27/2015 19:42 (AST), 0.04 ft.
Tropical Storm ERIKA QuickLook, POSTED 18:00 AST 08/27/2015

NOAA/NOS/CO-OPS 9751364 Christiansted Harbor, St Croix, VI

Wind Speed / Gusts / Direction

Last Observed Sample: 08/27/2015 17:48 (AST)
Wind Speed: 5 knots Gusts: 14 knots Direction: 113° T

Barometric Pressure

Last Observed Sample: 08/27/2015 17:48 (AST)
Barometric Pressure: 1009.5 mb
Last Observed Sample: 08/27/2015 17:48 (AST). Data relative to MHHW
Observed: 0.64 ft.  Predicted: 0.10 ft.  Residual: 0.54 ft.
Historical Maximum Water Level: Sep 16 1995, 2.93 ft.
Next High Tide: 08/27/2015 19:56 (AST), 0.26 ft.

LastObservedSample: 08/27/2015 17:48 (AST)
Wind Speed: 9 knots  Gusts: 22 knots  Direction: 94° T
NOAA/NOS/CO-OPS 9752619 Isabel Segunda, Vieques Island, PR

Preliminary Water Level, relative to Mean Higher High Water (MHHW)

Last Observed Sample: 08/27/2015 17:48 (AST). Data relative to MHHW

Observed: 0.58 ft. Predicted: -0.11 ft. Residual: 0.69 ft.

Historical Maximum Water Level: n/a

Next High Tide: 08/27/2015 19:20 (AST), 0.05 ft.

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NOAA/NOS/CO-OPS 9752619 Isabel Segunda, Vieques Island, PR

Wind Speed / Gusts / Direction

Last Observed Sample: 08/27/2015 17:48 (AST)

Wind Speed: 8 knots Gusts: 13 knots Direction: 111° T
Last Observed Sample: 08/27/2015 17:54 (AST). Data relative to MHHW
Observed: 0.60 ft. Predicted: -0.06 ft. Residual: 0.66 ft.
Historical Maximum Water Level: Aug 22 2011, 0.99 ft.
Next High Tide: 08/27/2015 20:08 (AST), 0.03 ft.

Last Observed Sample: 08/27/2015 17:54 (AST)
Wind Speed: 12 knots Gusts: 19 knots Direction: 111° T
Tropical Storm ERIKA QuickLook, POSTED 18:00 AST 08/27/2015

NOAA/NOS/CO-OOPS 9752695 Esperanza, Vieques Island, PR

Barometric Pressure

Last Observed Sample: 08/27/2015 17:54 (AST)
Barometric Pressure: 1010.6 mb

NOAA/NOS/CO-OOPS 9753216 Fajardo, PR

Preliminary Water Level, relative to Mean Higher High Water (MHHW)

Last Observed Sample: 08/27/2015 17:48 (AST). Data relative to MHHW
Observed: 0.50 ft. Predicted: 0.09 ft. Residual: 0.41 ft.
Historical Maximum Water Level: Aug 30 2010, 0.84 ft.
Next High Tide: 08/27/2015 18:56 (AST), 0.20 ft.
Tropical Storm ERIKA QuickLook, POSTED 18:00 AST 08/27/2015

NOAA/NOS/CO-OPS 9753216 Fajardo, PR

Wind Speed / Gusts / Direction

Last Observed Sample: 08/27/2015 17:48 (AST)
Wind Speed: 16 knots Gusts: 20 knots Direction: 83° T

NOAA/NOS/CO-OPS 9754228 Yabucoa Harbor, PR

Preliminary Water Level, relative to Mean Higher High Water (MHHW)

Last Observed Sample: 08/27/2015 17:48 (AST). Data relative to MHHW
Observed: 0.61 ft. Predicted: -0.12 ft. Residual: 0.73 ft.
Historical Maximum Water Level: n/a
Next High Tide: 08/27/2015 20:51 (AST), 0.08 ft.
NOAA/NOS/CO-OPS 9754228 Yabucoa Harbor, PR

Wind Speed / Gusts / Direction

- Wind Speed: 6 knots
- Gusts: 14 knots
- Direction: 54° T

NOAA/NOS/CO-OPS 9755371 San Juan, PR

Last Observed Sample: 08/27/2015 17:48 (AST)

- Observed: 0.53 ft.  
- Predicted: 0.12 ft.  
- Residual: 0.41 ft.

Historical Maximum Water Level: Sep 18 1989, 2.77 ft.

Next High Tide: 08/27/2015 19:20 (AST), 0.32 ft.
Tropical Storm ERIKA QuickLook, POSTED 18:00 AST 08/27/2015

NOAA/NOS/CO-OPS 9755371 San Juan, PR
Wind Speed / Gusts / Direction

Wind Speed: 17 knots  
Gusts: 20 knots  
Direction: 75° T

NOAA/NOS/CO-OPS 9755371 San Juan, PR
Barometric Pressure

Barometric Pressure: 1010.7 mb
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<tr>
<th>Station ID</th>
<th>Station Name</th>
<th>Date/Time</th>
<th>Observed Water Level</th>
<th>Predicted Tide</th>
<th>Residual Water Level</th>
<th>24 Hour Maximum Storm Tide</th>
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<td>Barbuda</td>
<td>08/27/2015 17:48 (AST)</td>
<td>0.41 ft</td>
<td>0.09 ft</td>
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<td>0.46 ft</td>
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<td>Isabel Segunda, Vieques Island, PR</td>
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