Storm Analysis

As of 08/29/2016 18:00 EDT, water levels along the North Carolina and Virginia coasts are at or near normal and range between 0 and 0.6 ft above normal tide levels. Winds are increasing, with gusts up to 17 knots along the Outer Banks. Barometric pressure is gradually falling across the region.
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: AJC

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SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL DEPRESSION EIGHT ADVISORY NUMBER 6

NWS NATIONAL HURRICANE CENTER MIAMI FL

500 PM EDT MON AUG 29 2016

...TROPICAL STORM WARNING ISSUED FOR PARTS OF THE NORTH CAROLINA COAST...

WATCHES AND WARNINGS

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CHANGES WITH THIS ADVISORY:

A Tropical Storm Warning has been issued for the coast of North Carolina from Cape Lookout to Oregon Inlet, including Pamlico Sound.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Tropical Storm Warning is in effect for...

* The coast of North Carolina from Cape Lookout to Oregon Inlet

* Pamlico Sound

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area, in this case within 24 hours.

Interests elsewhere along the Outer Banks of North Carolina should monitor the progress of the depression. Additional watches or warnings may be required later today.

For storm information specific to your area, 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 500 PM EDT, the center of Tropical Depression Eight was located about 140 MI SE of Cape Hatteras, North Carolina. The depression is moving toward the northwest near 6 mph. This general motion with a slower forward speed is expected later this evening, with a gradual turn toward the north forecast on Tuesday. On the forecast track, the center of the depression will be near the Outer Banks of North Carolina late Tuesday.

Maximum sustained winds remain near 35 mph with higher gusts. Slow strengthening is forecast during the next 48 hours, and the depression is expected to become a tropical storm by early Tuesday.

The minimum central pressure estimated from Air Force Reserve Hurricane Hunter aircraft data is 1011 mb.

HAZARDS AFFECTING LAND

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WIND: Tropical storm conditions are expecting within the warning area, beginning by Tuesday afternoon.

RAINFALL: The depression is expected to produce total rain accumulations of 1 to 3 inches with isolated maximum amounts of 5 inches over far eastern North Carolina, including the Outer Banks.

NEXT ADVISORY

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Next intermediate advisory at 800 PM EDT.

Next complete advisory at 1100 PM EDT.

Forecaster Blake

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.

Jump to: USCG Station Hatteras - Water Level, USCG Station Hatteras - Winds, USCG Station Hatteras - Barometric, Oregon Inlet Marina - Water Level, Oregon Inlet Marina - Winds, Oregon Inlet Marina - Barometric, Duck - Water Level, Duck - Winds, Duck - Barometric, Chesapeake Bay Bridge Tunnel - Water Level, Chesapeake Bay Bridge Tunnel - Winds, Chesapeake Bay Bridge Tunnel - Barometric, Beaufort - Water Level, Beaufort - Winds, Beaufort - Barometric, Wrightsville Beach - Water Level, Wrightsville Beach - Winds, Wrightsville Beach - Barometric
NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC

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

Last Observed Sample: 08/29/2016 17:42 (EDT). Data relative to MHHW

- Observed: 0.18 ft.
- Predicted: -0.03 ft.
- Residual: 0.21 ft.

Historical Maximum Water Level: Oct 29 2012, 4.02 ft.

Next High Tide: 08/29/2016 19:18 (EDT), 0.06 ft.

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**Wind Speed / Gusts / Direction**

Last Observed Sample: 08/29/2016 17:42 (EDT)

- Wind Speed: 14 knots
- Gusts: 20 knots
- Direction: 33° T
NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC

Barometric Pressure

Last Observed Sample: 08/29/2016 17:42 (EDT)
Barometric Pressure: 1017.2 mb

NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC

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

Last Observed Sample: 08/29/2016 17:48 (EDT). Data relative to MHHW
Observed: 0.02 ft. Predicted: 0.18 ft. Residual: -0.16 ft.
Historical Maximum Water Level: Aug 28 2011, 6.32 ft.
Next High Tide: 08/29/2016 18:47 (EDT), 0.24 ft.
**NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC**

**Wind Speed / Gusts / Direction**

- **Wind Speed:** 9 knots
- **Gusts:** 14 knots
- **Direction:** 11° T

**Barometric Pressure**

- **Barometric Pressure:** 1017.9 mb

Last Observed Sample: 08/29/2016 17:48 (EDT)
Last Observed Sample: 08/29/2016 17:48 (EDT). Data relative to MHHW

Observed: 0.82 ft. Predicted: 0.31 ft. Residual: 0.51 ft.

Historical Maximum Water Level: Sep 18 2003, 4.13 ft.

Next High Tide: 08/29/2016 18:13 (EDT), 0.35 ft.

Last Observed Sample: 08/29/2016 17:48 (EDT)

Wind Speed: 13 knots Gusts: 15 knots Direction: 28° T
NOAA/NOS/CO-OPS 8651370 Duck, NC
Barometric Pressure

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<th>Pressure (mb)</th>
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<tbody>
<tr>
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<tr>
<td>08/28 00:00</td>
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Barometric Pressure: 1018.0 mb

NOAA/NOS/CO-OPS 8638863 Chesapeake Bay Bridge Tunnel, VA
Preliminary Water Level, relative to Mean Higher High Water (MHHW)

<table>
<thead>
<tr>
<th>Height in Feet (MHHW)</th>
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<tbody>
<tr>
<td>-3.0</td>
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</table>

Last Observed Sample: 08/29/2016 17:48 (EDT).

- Observed: 0.62 ft.
- Predicted: 0.03 ft.
- Residual: 0.59 ft.

Historical Maximum Water Level: Nov 12 2009, 4.66 ft.
Next High Tide: 08/29/2016 19:11 (EDT), 0.30 ft.
NOAA/NOS/CO-OPS 8638863 Chesapeake Bay Bridge Tunnel, VA

Wind Speed / Gusts / Direction

Barometric Pressure

Last Observed Sample: 08/29/2016 17:48 (EDT)

Wind Speed: 8 knots  Gusts: 9 knots  Direction: 61° T

Barometric Pressure: 1019.1 mb
Last Observed Sample: 08/29/2016 17:48 (EDT). Data relative to MHHW
Observed: 0.59 ft. Predicted: 0.31 ft. Residual: 0.28 ft.
Historical Maximum Water Level: Sep 14 2005, 3.01 ft.
Next High Tide: 08/29/2016 18:33 (EDT), 0.46 ft.

Last Observed Sample: 08/29/2016 17:48 (EDT)
Wind Speed: 8 knots Gusts: 12 knots Direction: 7° T
NOAA/NOS/CO-OPS 8656483 Beaufort, NC

Barometric Pressure

Last Observed Sample: 08/29/2016 17:48 (EDT)
Barometric Pressure: 1016.6 mb

NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC

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

Last Observed Sample: 08/29/2016 17:48 (EDT). Data relative to MHHW
Observed: 0.87 ft. Predicted: 0.61 ft. Residual: 0.26 ft.
Historical Maximum Water Level: Sep 25 2008, 2.81 ft.
Next High Tide: 08/29/2016 18:01 (EDT), 0.63 ft.
Wind Speed: 9 knots  Gusts: 11 knots  Direction: 333° T

Barometric Pressure: 1016.7 mb
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<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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<tr>
<td>8654467</td>
<td>USCG Station Hatteras, NC</td>
<td>08/29/2016 17:42 (EDT)</td>
<td>0.18 ft</td>
<td>-0.03 ft</td>
<td>0.21 ft</td>
<td>0.34 ft</td>
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<td>8652587</td>
<td>Oregon Inlet Marina, NC</td>
<td>08/29/2016 17:48 (EDT)</td>
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<td>0.18 ft</td>
<td>-0.16 ft</td>
<td>0.23 ft</td>
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<td>8651370</td>
<td>Duck, NC</td>
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<td>0.31 ft</td>
<td>0.51 ft</td>
<td>0.85 ft</td>
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<td>Chesapeake Bay Bridge Tunnel, VA</td>
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<td>0.26 ft</td>
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