Storm Analysis

As of 05/09/2015 00:00 EDT water levels from northeast Florida to the central coast of North Carolina are slightly elevated and generally range between 0.5 and 1.0 feet above tidal predictions. Winds along the Carolina coast range from 10 to 20 knots with a few gusts over 30 knots. Barometric pressure has leveled out 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 QuickLookHomepage.

Analyst: PFF

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

SUBTROPICAL STORM ANA ADVISORY NUMBER  5

NWS NATIONAL HURRICANE CENTER MIAMI FL

1100 PM EDT FRI MAY 08 2015

...HURRICANE HUNTERS FIND ANA STRONGER...

WATCHES AND WARNINGS

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A Tropical Storm Warning is in effect for...

* South Santee River South Carolina to Cape Lookout

A Tropical Storm Watch is in effect for...

* Edisto Beach South Carolina to South of South Santee River

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area within 36 hours.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area, in this case within 24-36 hours.

Interests elsewhere in eastern North Carolina should monitor the progress of Ana.

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 1100 PM EDT (0300 UTC), the center of Subtropical Storm Ana was located ABOUT 140 MI...225 KM SE OF MYRTLE BEACH SOUTH CAROLINA. The storm is moving toward the north near 2 mph (4 km/h). A turn
toward the northwest and then back to the north at a slightly faster forward speed is expected over the next 48 hours. On the forecast track, the center will be near the coasts of South and North Carolina by Sunday morning.

Reports from an Air Force Reserve Unit Hurricane Hunter aircraft indicate the maximum sustained winds have increased to near 60 mph (95 km/h) with higher gusts. Little additional strengthening is forecast through Saturday morning. A gradual weakening trend is likely to begin within 24 hours.

Winds of 40 mph extend outward up to 140 miles (220 km) from the center.

The minimum central pressure estimated from Hurricane Hunter aircraft data is 998 mb (29.47 inches).

HAZARDS AFFECTING LAND

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WIND: Tropical storm conditions are expected within the warning area, and possible within the watch area, by Saturday afternoon or evening. STORM SURGE: The combination of storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters. The water could reach 1 to 2 ft above ground at times of high tide in coastal areas from Cape Hatteras, North Carolina southward through South Carolina. For information specific to your area, please see products issued by your local National Weather Service forecast office.

RAINFALL: Ana is expected to produce rainfall accumulations of 2 to 4 inches, with isolated amounts of 6 inches, over eastern portions of North Carolina and South Carolina through the weekend.

SURF: Swells generated by Ana are affecting portions of the southeastern U.S. coast. These swells will likely cause life-threatening surf and rip currents. Please see statements issued by your local National Weather Service forecast office.

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.

Jump to: Charleston - Water Level, Charleston - Winds, Charleston - Barometric, Oyster Landing (N Inlet Estuary) - Water Level, Springmaid Pier - Water Level, Springmaid Pier - Winds, Springmaid Pier - Barometric, Wrightsville Beach - Water Level, Wrightsville Beach - Winds, Wrightsville Beach - Barometric, Beaufort - Water Level, Beaufort - Winds, Duck - Water Level, Duck - Winds, Fort Pulaski - Water Level, Fort Pulaski - Winds, Fernandina Beach - Water Level, Fernandina Beach - Winds
Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW

- Observed: 0.96 ft. Predicted: 0.02 ft. Residual: 0.94 ft.
- Historical Maximum Water Level: Sep 21 1989, 6.76 ft.
- Next High Tide: 05/09/2015 00:01 (EDT), 0.04 ft.

Wind Speed: 8 knots  Gusts: 12 knots  Direction: 350° T
NOAA/NOS/CO-OPS 8665530 Charleston, SC

Barometric Pressure

Last Observed Sample: 05/08/2015 23:42 (EDT)
Barometric Pressure: 1015.5 mb

NOAA/NOS/CO-OPS 8662245 Oyster Landing (N Inlet Estuary), SC

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

Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW
Observed: 0.41 ft. Predicted: -0.36 ft. Residual: 0.77 ft.
Historical Maximum Water Level: Aug 26 2011, 2.40 ft.
Next High Tide: 05/09/2015 00:54 (EDT), -0.12 ft.
Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW

- Observed: 1.17 ft. Predicted: -0.06 ft. Residual: 1.23 ft.
- Historical Maximum Water Level: Jan 1 1987, 3.65 ft.
- Next High Tide: 05/09/2015 12:04 (EDT), -0.97 ft.

Last Observed Sample: 05/08/2015 23:42 (EDT)

- Wind Speed: 14 knots
- Gusts: 17 knots
- Direction: 5° T
NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC

Barometric Pressure

Last Observed Sample: 05/08/2015 23:42 (EDT)
Barometric Pressure: 1016.1 mb

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

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

Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW
Observed: 0.71 ft. Predicted: 0.13 ft. Residual: 0.58 ft.
Historical Maximum Water Level: Sep 25 2008, 2.81 ft.
Next High Tide: 05/09/2015 12:00 (EDT), -0.73 ft.
NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC

Wind Speed / Gusts / Direction

Last Observed Sample: 05/08/2015 23:42 (EDT)
Wind Speed: 16 knots Gusts: 20 knots Direction: 52° T

Barometric Pressure

Last Observed Sample: 05/08/2015 23:42 (EDT)
Barometric Pressure: 1016.6 mb
NOAA/NOS/CO-OPS 8656483 Beaufort, NC
Preliminary Water Level, relative to Mean Higher High Water (MHHW)

Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW
Observed: 0.60 ft. Predicted: 0.00 ft. Residual: 0.60 ft.
Historical Maximum Water Level: Sep 14 2005, 3.01 ft.
Next High Tide: 05/09/2015 00:09 (EDT), 0.04 ft.

NOAA/NOS/CO-OPS 8656483 Beaufort, NC
Wind Speed / Gusts / Direction

Last Observed Sample: 05/08/2015 23:42 (EDT)
Wind Speed: 8 knots Gusts: 13 knots Direction: 95° T
Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW

**Observed:** 0.16 ft. **Predicted:** 0.02 ft. **Residual:** 0.14 ft.

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

**Next High Tide:** 05/09/2015 12:00 (EDT), -0.64 ft.

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Last Observed Sample: 05/08/2015 23:42 (EDT)

**Wind Speed:** 11 knots  **Gusts:** 12 knots  **Direction:** 52° T
NOAA/NOS/CO-OPS 8670870  Fort Pulaski, GA

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

Last Observed Sample: 05/08/2015 23:36 (EDT). Data relative to MHHW

- Observed: 0.75 ft.  Predicted: -0.20 ft.  Residual: 0.95 ft.
- Next High Tide: 05/09/2015 00:13 (EDT), -0.08 ft.

NOAA/NOS/CO-OPS 8670870  Fort Pulaski, GA

Wind Speed / Gusts / Direction

Last Observed Sample: 05/08/2015 23:36 (EDT)

Wind Speed: 6 knots  Gusts: 8 knots  Direction: 14° T
Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW

- Observed: 0.41 ft. Predicted: -0.57 ft. Residual: 0.98 ft.
- Historical Maximum Water Level: Oct 2 1898, 6.94 ft.
- Next High Tide: 05/09/2015 01:04 (EDT), -0.02 ft.

Last Observed Sample: 05/08/2015 23:42 (EDT)

- Wind Speed: 1 knots
- Gusts: 3 knots
- Direction: 120° T
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<thead>
<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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<tbody>
<tr>
<td>8665530</td>
<td>Charleston, SC</td>
<td>05/08/2015 23:42 (EDT)</td>
<td>0.96 ft</td>
<td>0.02 ft</td>
<td>0.94 ft</td>
<td>1.37 ft</td>
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<td>0.98 ft</td>
<td>1.25 ft</td>
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