Storm Analysis

As of 9/14/2016 06:00 EDT, water levels from northern Florida to South Carolina are slightly elevated running from 0 to 0.5 feet above tidal predictions.

Winds are running generally from 10-20 knots with some higher gusts. The breeziest conditions this morning are concentrated over northeast Florida and coastal Georgia. Barometric pressure continues to fall slightly across the
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: CRD

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SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM JULIA ADVISORY NUMBER 2
NWS NATIONAL HURRICANE CENTER MIAMI FL
500 AM EDT WED SEP 14 2016

...RAINBANDS SPREADING NORTHWARD ALONG THE GEORGIA COASTLINE...

SUMMARY OF 500 AM EDT INFORMATION
-------------------------------------------------------------------------
LOCATION...30.9N 81.8W
ABOUT 40 MI... N OF JACKSONVILLE FLORIDA
ABOUT 25 MI... SW OF BRUNSWICK GEORGIA
MAXIMUM SUSTAINED WINDS...40 MPH
PRESENT MOVEMENT...N OR 350 DEGREES AT 7 MPH
MINIMUM CENTRAL PRESSURE...1012 MB

WATCHES AND WARNINGS
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CHANGES WITH THIS ADVISORY:
The Tropical Storm Warning south of Fernandina Beach has been discontinued.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Tropical Storm Warning is in effect for...
* Fernandina Beach to Altamaha Sound

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 AM EDT, the center of Tropical Storm Julia was located near latitude 30.9 North, longitude 81.8 West. Julia is moving toward the north near 7 mph. A reduction in forward speed is expected today, and Julia is forecast to drift northward over eastern Georgia during the next couple of days.

Maximum sustained winds are near 40 mph with higher gusts. Gradual weakening is forecast during the next day or
so, and Julia is expected to weaken to a tropical depression later today.

Tropical-storm-force winds extend outward up to 80 miles primarily over water to the northeast of the center. A wind gust of 39 mph was recently reported at St. Simons Island, Georgia.

The estimated minimum central pressure is 1012 mb (29.89 inches).

HAZARDS AFFECTING LAND
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WIND: Tropical-storm-force winds are already occurring within portions of the tropical storm warning area. Wind gusts to tropical storm force are possible elsewhere along the coast of Georgia and southern South Carolina this morning.

RAINFALL: Julia is expected to produce 3 to 6 inches of rain near the Georgia and South Carolina coastlines through Friday afternoon. Isolated totals of 10 inches are possible. This rainfall could lead to flash flooding. Flooding may be further compounded with persistent strong onshore flow reducing river and stream discharges. Additional rainfall amounts of 1 to 2 inches are possible across northeast Florida today.

TORNADOES: An isolated tornado is possible across coastal Georgia and southern South Carolina today.

NEXT ADVISORY
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Next intermediate advisory at 800 AM EDT.
Next complete advisory at 1100 AM EDT.

Forecaster Brown
Last Observed Sample: 09/14/2016 06:00 (EDT). Data relative to MHHW
Observed: -0.61 ft. Predicted: -0.61 ft. Residual: 0.00 ft.
Historical Maximum Water Level: Oct 2 1898, 6.94 ft.
Next High Tide: 09/14/2016 07:14 (EDT), -0.10 ft.

Last Observed Sample: 09/14/2016 06:00 (EDT)
Wind Speed: 5 knots Gusts: 9 knots Direction: 214° T
NOAA/NOS/CO-OPS 8720030 Fernandina Beach, FL

Barometric Pressure

Last Observed Sample: 09/14/2016 06:00 (EDT)
Barometric Pressure: 1013.4 mb

NOAA/NOS/CO-OPS 8720218 Mayport (Bar Pilots Dock), FL

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

Last Observed Sample: 09/14/2016 05:54 (EDT). Data relative to MHHW
Observed: -0.38 ft. Predicted: -0.19 ft. Residual: -0.19 ft.
Historical Maximum Water Level: Sep 27 2004, 2.47 ft.
Next High Tide: 09/14/2016 07:02 (EDT), 0.13 ft.
NOAA/NOS/CO-OPS 8720218 Mayport (Bar Pilots Dock), FL

Wind Speed / Gusts / Direction

Last Observed Sample: 09/14/2016 05:54 (EDT)
Wind Speed: 10 knots Gusts: 13 knots Direction: 217° T

NOAA/NOS/CO-OPS 8720357 I-295 Bridge, St Johns River, FL

Last Observed Sample: 09/14/2016 05:54 (EDT). Data relative to MHHW
Observed: -0.21 ft. Predicted: -0.24 ft. Residual: 0.03 ft.
Historical Maximum Water Level: Sep 27 2004, 3.46 ft.
Next High Tide: 09/14/2016 09:39 (EDT), 0.42 ft.
NOAA/NOS/CO-OPS 8720357 I-295 Bridge, St Johns River, FL

Last Observed Sample: 09/14/2016 05:54 (EDT)
Wind Speed: 6 knots  Gusts: 9 knots  Direction: 233° T

NOAA/NOS/CO-OPS 8720625 Racy Point, St Johns River, FL

Last Observed Sample: 09/14/2016 05:54 (EDT)
Data relative to MHHW
Observed: -0.42 ft.  Predicted: -0.50 ft.  Residual: 0.08 ft.
Historical Maximum Water Level: n/a
Next High Tide: 09/14/2016 13:13 (EDT), 0.39 ft.
Last Observed Sample: 09/14/2016 05:48 (EDT). Data relative to MHHW

- Observed: -0.00 ft. Predicted: -0.29 ft. Residual: 0.29 ft.
- Next High Tide: 09/14/2016 06:27 (EDT), -0.11 ft.

Wind Speed: 11 knots Gusts: 16 knots Direction: 126° T
NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA

Barometric Pressure

- Last Observed Sample: 09/14/2016 05:48 (EDT)
- Barometric Pressure: 1016.8 mb

NOAA/NOS/CO-OPS 8665530 Charleston, SC

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

- Last Observed Sample: 09/14/2016 05:54 (EDT)
- Data relative to MHHW
- Observed: 0.20 ft. Predicted: -0.17 ft. Residual: 0.37 ft.
- Historical Maximum Water Level: Sep 21 1989, 6.76 ft.
- Next High Tide: 09/14/2016 06:14 (EDT), -0.15 ft.
NOAA/NOS/CO-OPS 8665530 Charleston, SC
Wind Speed / Gusts / Direction

Last Observed Sample: 09/14/2016 05:54 (EDT)
Wind Speed: 8 knots Gusts: 11 knots Direction: 34° T

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

Last Observed Sample: 09/14/2016 05:54 (EDT)
Data relative to MHHW
Observed: -0.21 ft. Predicted: -0.50 ft. Residual: 0.29 ft.
Historical Maximum Water Level: Aug 26 2011, 2.40 ft.
Next High Tide: 09/14/2016 06:56 (EDT), -0.19 ft.
Last Observed Sample: 09/14/2016 05:54 (EDT). Data relative to MHHW

- Observed: 0.15 ft.  Predicted: -0.26 ft.  Residual: 0.41 ft.
- Historical Maximum Water Level: Jan 1 1987, 3.65 ft.
- Next High Tide: 09/14/2016 18:19 (EDT), 0.62 ft.

Last Observed Sample: 09/14/2016 05:54 (EDT)

- Wind Speed: 10 knots  Gusts: 11 knots  Direction: 88° 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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<td>Fernandina Beach, FL</td>
<td>09/14/2016 06:00 (EDT)</td>
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