Hurricane IRENE QuickLook, POSTED 07:00 EDT 08/25/2011

NOAA and NOAA Partnership Stations Relative to the Storm

As of 08/25/2011 07:00 EDT, water levels along the eastern the U.S. are at or near predicted levels. Winds range from 5 to 15 knots with gusts as high as 20 knots. Barometric pressure is steady along the coast.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Fort Pulaski, GA: Next predicted high tides are 7.7 ft (2.34 m) at 08/25/2011 17:41 EDT and 6.7 ft (2.08 m) at 08/26/2011 06:06 EDT.

Charleston, SC: Next predicted high tides are 6.0 ft (1.82 m) at 08/25/2011 17:34 EDT and 5.1 ft (1.58 m) at 08/26/2011 05:56 EDT.

Springmaid Pier, SC: Next predicted high tides are 5.7 ft (1.74 m) at 08/25/2011 16:57 EDT and 4.9 ft (1.51 m)
Wrightsville Beach, NC: Next predicted high tides are 4.5 ft (1.36 m) at 08/25/2011 17:06 EDT and 3.8 ft (1.16 m) at 08/26/2011 05:30 EDT.

Wilmington, NC: Next predicted high tides are 4.6 ft (1.40 m) at 08/25/2011 19:22 EDT and 4.2 ft (1.28 m) at 08/26/2011 07:44 EDT.

Beaufort, NC: Next predicted high tides are 3.6 ft (1.10 m) at 08/25/2011 17:36 EDT and 3.0 ft (0.93 m) at 08/26/2011 05:52 EDT.

USCG Station Hatteras, NC: Next predicted high tides are 0.5 ft (0.15 m) at 08/25/2011 18:53 EDT and 0.5 ft (0.15 m) at 08/26/2011 06:53 EDT.

Duck, NC: Next predicted high tides are 3.8 ft (1.16 m) at 08/25/2011 17:02 EDT and 3.2 ft (0.98 m) at 08/26/2011 05:30 EDT.

Chesapeake Bay Bridge Tunnel, VA: Next predicted high tides are 3.0 ft (0.90 m) at 08/25/2011 17:54 EDT and 2.6 ft (0.79 m) at 08/26/2011 06:19 EDT.

For additional data, please see the Center for Operational Oceanographic Products & Services website.

For information on Highest Astronomical Tide (HAT), NAVD88 and other datums, please see Tidal Datums.

For more information or archived products and reports, please see the Storm QuickLook Homepage.

SELECT NATIONAL HURRICANE CENTER (NHC) ADVISORY INFORMATION:

HURRICANE IRENE ADVISORY NUMBER 20
500 AM EDT THU AUG 25 2011

...HURRICANE AND TROPICAL STORM WATCHES ISSUED FOR A PORTION OF THE U.S. EAST COAST...

WATCHES AND WARNINGS
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A HURRICANE WATCH IS IN EFFECT FOR...
* NORTH OF SURF CITY NORTH CAROLINA TO THE NORTH CAROLINA-VIRGINIA BORDER INCLUDING THE PAMLICO...ALBEMARLE...AND CURRITUCK SOUNDS

A TROPICAL STORM WATCH IS IN EFFECT FOR...
* NORTH OF EDISTO BEACH SOUTH CAROLINA TO SURF CITY NORTH CAROLINA

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

MAXIMUM SUSTAINED WINDS ARE NEAR 115 MPH WITH HIGHER GUSTS. IRENE IS A CATEGORY THREE HURRICANE ON THE SAFFIR-SIMPSON HURRICANE WIND SCALE. SOME STRENGTHENING IS EXPECTED TODAY AND TONIGHT.

IRENE IS A LARGE TROPICAL CYCLONE. HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 70 MILES FROM THE CENTER AND TROPICAL-STORM-FORCE WINDS EXTEND OUTWARD UP TO 255 MILES.

THE ESTIMATED MINIMUM CENTRAL PRESSURE IS 950 MB.

HAZARDS AFFECTING LAND

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STORM SURGE...IN AREAS OF ONSHORE WINDS NEAR THE CENTER OF IRENE...AN EXTREMELY DANGEROUS STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 7 TO 11 FEET ABOVE NORMAL TIDE LEVELS, NEAR THE COAST...THE SURGE WILL BE ACCOMPANIED BY LARGE AND DANGEROUS WAVES.

SURF...SWELLS GENERATED BY IRENE WILL BEGIN AFFECTING PORTIONS OF THE COAST OF THE SOUTHEASTERN UNITED STATES TODAY. THESE SWELLS ARE EXPECTED TO CAUSE LIFE-THREATENING SURF AND RIP CURRENT CONDITIONS.

PLEASE CONSULT PRODUCTS FROM YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE.

FORECASTER PASCH/KIMBERLAIN

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: Fort Pulaski - Water Level, Fort Pulaski - Air/Water Temp, Fort Pulaski - Winds, Fort Pulaski - Barometric, Charleston - Water Level, Charleston - Air/Water Temp, Charleston - Winds, Charleston - Barometric, Springmaid Pier - Water Level, Springmaid Pier - Air/Water Temp, Springmaid Pier - Winds, Springmaid Pier - Barometric, Wilmington - Water Level, Wilmington - Air/Water Temp, Wrightsville Beach - Winds, Wilmington - Barometric, Beaufort - Water Level, Beaufort - Air/Water Temp, Beaufort - Winds, Beaufort - Barometric, USCG Station Hatteras - Water Level, USCG Station Hatteras - Air/Water Temp, USCG Station Hatteras - Winds, USCG Station Hatteras - Barometric, Duck - Water Level, Duck - Air/Water Temp, Duck - Winds, Duck - Barometric, Chesapeake Bay Bridge Tunnel - Water Level, Chesapeake Bay
Bridge Tunnel - Air/Water Temp, Chesapeake Bay Bridge Tunnel - Winds, Chesapeake Bay Bridge Tunnel - Barometric.
Fort Pulaski, GA - Return to List

**NOAA/NOS/C0-CPS**

Preliminary 6 min. Water Level vs. Predicted Plot
8670870 Fort Pulaski, GA
from 08/23/2011 08:35 - 08/25/2011 08:35

Last Observed Sample: 08/25/2011 08:30 (EDT)

Relative to MLLW: Observed: 4.27 ft. Predicted: 3.48 ft. Residual: 0.79 ft.

Historical Maximum Water Level: Oct 15 1947, 3.4 ft. above MHHW

Fort Pulaski, GA - Return to List

**NOAA/NOS/C0-CPS**

Air/Water Temperature Plot
8670870 Fort Pulaski, GA
from 08/23/2011 08:35 - 08/25/2011 08:35

Last Observed Sample: 08/25/2011 08:30 (EDT)

Water Temperature: 85.6° F Air Temperature: 80.4° F
Hurricane IRENE QuickLook, POSTED 07:00 EDT 08/25/2011

Fort Pulaski, GA - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
85708/0 Fort Pulaski, GA
From 08/23/2011 06:35 - 08/26/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Wind Speed: 7 knots GUSTS: 9 knots Direction: 13° T

Fort Pulaski, GA - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
85708/0 Fort Pulaski, GA
From 08/23/2011 06:35 - 08/26/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Barometric Pressure: 1014.4 mb
Charleston, SC - Return to List

NOAA/NOS/CO-OPS
Preliminary 6 min. Water Level vs. Predicted Plot
8665530 Charleston, SC
from 08/23/2011 08:35 - 08/25/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Relative to MLLW: Observed: 2.79 ft. Predicted: 2.25 ft. Residual: 0.54 ft.
Historical Maximum Water Level: Sep 21 1989, 6.76 ft. above MHHW

Charleston, SC - Return to List

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
8665530 Charleston, SC
from 08/23/2011 08:35 - 08/25/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Water Temperature: n/a Air Temperature: 79.7° F
Charleston, SC - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
8665530 Charleston, SC
from 08/23/2011 08:35 - 08/26/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Wind Speed: 3 knots Gusts: 5 knots Direction: 353° T

Charleston, SC - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
8665530 Charleston, SC
from 08/23/2011 06:35 - 08/26/2011 00:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Barometric Pressure: 1015.2 mb
Springmaid Pier, SC - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
8661070 Springmaid Pier, SC
from 08/23/2011 08:36 - 08/25/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Relative to MLLW: Observed: 1.94 ft. Predicted: 1.70 ft. Residual: 0.24 ft.
Historical Maximum Water Level: Jan 1 1987, 3.65 ft. above MHHW

Springmaid Pier, SC - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
8661070 Springmaid Pier, SC
from 08/23/2011 08:36 - 08/25/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Water Temperature: 84.6° F Air Temperature: 82.8° F
Springmaid Pier, SC - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
08/25/2011 08:30 (EDT)

Wind Speed: 5 knots Gusts: 5 knots Direction: 78° T

Springmaid Pier, SC - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
08/25/2011 08:30 (EDT)

Barometric Pressure: 1015.6 mb
Hurricane IRENE QuickLook, POSTED 07:00 EDT 08/25/2011

Wilmington, NC - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
8658120 Wilmington, NC
from 08/23/2011 06:36 - 08/25/2011 06:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Relative to MLLW: Observed: 3.37 ft. Predicted: 3.27 ft. Residual: 0.10 ft.
Historical Maximum Water Level: Oct 15 1954, 3.47 ft. above MHHW

Wilmington, NC - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
8658120 Wilmington, NC
from 08/23/2011 06:36 - 08/26/2011 06:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Water Temperature: 84.0° F Air Temperature: 78.3° F
Wrightsville Beach, NC - Return to List

NOAA/NOA/C0-CPS
Wind Speed/Gusts/Dir
8858163 Wrightsville Beach, NC
FROM 08/23/2011 08:35 - 08/26/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Wind Speed: 5 knots  Gusts: 6 knots  Direction: 84° T

Wilmington, NC - Return to List

NOAA/NOA/C0-CPS
Barometric Pressure Plot
8858129 Wilmington, NC
FROM 08/23/2011 08:35 - 08/26/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Barometric Pressure: 1015.9 mb
Beaufort, NC - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
6655483 Beaufort, NC
from 08/23/2011 08:35 - 08/25/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Relative to MLLW: Observed: 1.47 ft. Predicted: 1.15 ft. Residual: 0.32 ft.
Historical Maximum Water Level: Sep 16 1999, 2.74 ft. above MHHW

Beaufort, NC - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
6655483 Beaufort, NC
from 08/23/2011 08:35 - 08/26/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Water Temperature: 81.3° F Air Temperature: 81.0° F
Hurricane IRENE QuickLook, POSTED 07:00 EDT 08/25/2011

Beaufort, NC - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
8655483 Beaufort, NC
From 08/23/2011 08:35 - 08/26/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Wind Speed: 3 knots  Gusts: 4 knots  Direction: 127° T

Beaufort, NC - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
8655483 Beaufort, NC
From 08/23/2011 06:35 - 08/26/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Barometric Pressure: 1016.8 mb
USCG Station Hatteras, NC - Return to List

NOAA/NOS/CO-OPS
Preliminary 6 min. Water Level vs. Predicted Plot
865467 USCG Station Hatteras, NC
from 08/23/2011 08:36 - 08/25/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Relative to MLLW: Observed: 0.42 ft. Predicted: 0.41 ft. Residual: 0.01 ft.
Historical Maximum Water Level: 0 ft. above MHHW

USCG Station Hatteras, NC - Return to List

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
865467 USCG Station Hatteras, NC
from 08/23/2011 08:36 - 08/26/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Water Temperature: 78.4°F Air Temperature: 79.3°F
USCG Station Hatteras, NC - Return to List

Hurricane IRENE QuickLook, POSTED 07:00 EDT 08/25/2011

NOAA/NOAA/COOPS
Wind Speed/Gusts/Dir
0654457 USCG Station Hatteras, NC
From 08/23/2011 08:35 - 08/26/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Wind Speed: 3 knots Gusts: 3 knots Direction: 115° T

USCG Station Hatteras, NC - Return to List

NOAA/NOAA/COOPS
Barometric Pressure Plot
0654457 USCG Station Hatteras, NC
From 08/23/2011 06:35 - 08/26/2011 06:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Barometric Pressure: 1016.4 mb
Duck, NC - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
8851370 Duck, NC
from 08/23/2011 08:35 - 08/25/2011 08:36

Relative to MLLW: Observed: 1.12 ft. Predicted: 1.23 ft. Residual: -0.11 ft.
Historical Maximum Water Level: Aug 30 1999, 3.23 ft. above MHHW

Duck, NC - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
8851370 Duck, NC
from 08/23/2011 08:35 - 08/25/2011 08:36

Water Temperature: 75.4° F Air Temperature: 79.3° F
Hurricane IRENE QuickLook, POSTED 07:00 EDT 08/25/2011

Duck, NC - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
8551370 Duck, NC
From 08/23/2011 08:35 - 08/26/2011 08:36

Wind Speed: 8 knots Gusts: 9 knots Direction: 170° T

Duck, NC - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
8551370 Duck, NC
From 08/23/2011 08:35 - 08/26/2011 08:36

Barometric Pressure: 1014.5 mb
Chesapeake Bay Bridge Tunnel, VA - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
863863 Chesapeake Bay Bridge Tunnel, VA
from 08/23/2011 08:35 - 08/25/2011 08:36

Height relative to MLLW

Date/Time (EDT)
08/23 08/24 08/24 08/25 08/25 08/26
12:00 00:00 12:00 00:00 12:00 00:00

Predicted WL
(Obs-Pred)
Observed WL
MLLW

Last Observed Sample: 08/25/2011 08:30 (EDT)
Historical Maximum Water Level: Feb 5 1998, 3.68 ft. above MHHW

Chesapeake Bay Bridge Tunnel, VA - Return to List

NOAA/NOS/C0-CPS
Air/Water Temperature Plot
863863 Chesapeake Bay Bridge Tunnel, VA
from 08/23/2011 08:35 - 08/25/2011 08:36

Temperature (°F)

Date/Time (EDT)
08/23 08/24 08/24 08/25 08/25 08/26
12:00 00:00 12:00 00:00 12:00 00:00

water temp.  air temp

Last Observed Sample: 08/25/2011 08:30 (EDT)
Water Temperature: 67.8° F Air Temperature: 76.3° F
Chesapeake Bay Bridge Tunnel, VA - Return to List

NOAA/NOS/CO-CPS
Wind Speed/Gusts/Dir
8638863 Chesapeake Bay Bridge Tunnel, VA
From 08/23/2011 08:35 - 08/26/2011 08:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Wind Speed: 13 knots  Gusts: 14 knots  Direction: 215° T

Chesapeake Bay Bridge Tunnel, VA - Return to List

NOAA/NOS/CO-CPS
Barometric Pressure Plot
8638863 Chesapeake Bay Bridge Tunnel, VA
From 08/23/2011 06:35 - 08/26/2011 06:36

Last Observed Sample: 08/25/2011 08:30 (EDT)
Barometric Pressure: 1015.3 mb