NOAA and NOAA Partnership Stations Relative to the Storm

As of 08/27/2011 00:00 EDT, water levels at stations from northeastern Florida to North Carolina are elevated between 0.5 and 3.5 feet above predicted tide levels, with the exception of Oregon Inlet Marina, NC and USCG Station Hatteras, NC. Water levels along the North Carolina coast are rising. Levels along the Atlantic coast of Virginia and Maryland as well as the entrance to the Chesapeake Bay remain at or slightly above predicted. Winds are generally increasing from Georgia to the Carolinas, especially at Wrightsville Beach, NC and Springmaid Pier, SC where sustained winds of 40 kts and gusts close to 50 kts have been measured over the past few hours. Barometric pressure continues to fall across the region.

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

Charleston, SC: Next predicted high tides are 5.5 ft (1.67 m) at 08/27/2011 06:50 EDT and 6.5 ft (2.00 m) at 08/27/2011 19:17 EDT.

Springmaid Pier, SC: Next predicted high tides are 5.3 ft (1.63 m) at 08/27/2011 06:21 EDT and 6.3 ft (1.95 m) at 08/27/2011 18:40 EDT.

Wrightsville Beach, NC: Next predicted high tides are 4.2 ft (1.27 m) at 08/27/2011 06:20 EDT and 5.0 ft (1.54 m) at 08/27/2011 18:44 EDT.

Wilmington, NC: Next predicted high tides are 4.4 ft (1.34 m) at 08/27/2011 08:37 EDT and 5.0 ft (1.54 m) at 08/27/2011 21:02 EDT.
Beaufort, NC: Next predicted high tides are 3.3 ft (1.00 m) at 08/27/2011 06:45 EDT and 3.9 ft (1.20 m) at 08/27/2011 19:15 EDT.

USCG Station Hatteras, NC: Next predicted high tides are 0.5 ft (0.16 m) at 08/27/2011 07:51 EDT and 0.6 ft (0.18 m) at 08/27/2011 20:39 EDT.

Oregon Inlet Marina, NC: Next predicted high tides are 1.2 ft (0.37 m) at 08/27/2011 06:52 EDT and 1.5 ft (0.45 m) at 08/27/2011 19:19 EDT.

Duck, NC: Next predicted high tides are 3.5 ft (1.06 m) at 08/27/2011 06:22 EDT and 4.2 ft (1.28 m) at 08/27/2011 18:44 EDT.

Chesapeake Bay Bridge Tunnel, VA: Next predicted high tides are 2.82 ft (0.86 m) at 08/27/2011 07:13 EDT and 3.25 ft (0.99 m) at 08/27/2011 19:37 EDT.

Ocean City Inlet, MD: Next predicted high tides are 2.2 ft (0.68 m) at 08/27/2011 06:50 EDT and 2.7 ft (0.83 m) at 08/27/2011 19:31 EDT.

Fort Pulaski, GA: Next predicted high tides are 7.2 ft (2.19 m) at 08/27/2011 07:00 EDT and 8.3 ft (2.57 m) at 08/27/2011 19:26 EDT.

Fernandina Beach, FL: Next predicted high tides are 6.3 ft (1.91 m) at 08/27/2011 07:45 EDT and 7.2 ft (2.23 m) at 08/27/2011 20:15 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.

Analyst: KG

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

HURRICANE IRENE ADVISORY NUMBER 27
1100 PM EDT FRI AUG 26 2011

...IRENE MOVING NORTH-NORTHEASTWARD TOWARD SOUTHEASTERN NORTH CAROLINA...TROPICAL STORM CONDITIONS LASHING THE CAROLINA COAST...

SUMMARY OF 1100 PM EDT INFORMATION

LOCATION...ABOUT 140 MI S OF CAPE LOOKOUT NORTH CAROLINA ABOUT 195 MI SSW OF CAPE HATTERAS NORTH CAROLINA
MAXIMUM SUSTAINED WINDS...100 MPH
PRESENT MOVEMENT...NNE OR 20 DEGREES AT 13 MPH
MINIMUM CENTRAL PRESSURE...951 MB.

WATCHES AND WARNINGS

CHANGES IN WATCHES AND WARNINGS WITH THIS ADVISORY...

NONE.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WARNING IS IN EFFECT FOR...
- LITTLE RIVER INLET NORTH CAROLINA NORTHWARD TO SAGAMORE BEACH MASSACHUSETTS...INCLUDING THE PAMLICO...ALBEMARLE...AND CURRITUCK SOUNDS...DELAWARE BAY...CHESAPEAKE BAY SOUTH OF DRUM POINT...NEW YORK CITY...LONG ISLAND...LONG ISLAND SOUND...COASTAL CONNECTICUT AND RHODE ISLAND...BLOCK ISLAND...MARTHAS VINEYARD AND NANTUCKET.

A TROPICAL STORM WARNING IS IN EFFECT FOR...
- NORTH OF EDISTO BEACH SOUTH CAROLINA TO LITTLE RIVER INLET
- CHESAPEAKE BAY FROM DRUM POINT NORTHWARD AND THE TIDAL POTOMAC
- NORTH OF SAGAMORE BEACH TO MERRIMACK RIVER

A TROPICAL STORM WATCH IS IN EFFECT FOR...
* MERRIMACK RIVER TO EASTPORT MAINE

INTERESTS IN SOUTHEASTERN CANADA SHOULD MONITOR THE PROGRESS OF IRENE.

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
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AT 1100 PM EDT...0300 UTC...THE CENTER OF HURRICANE IRENE WAS LOCATED NEAR LATITUDE 32.6 NORTH...LONGITUDE 76.9 WEST. IRENE IS MOVING TOWARD THE NORTH-NORTHEAST NEAR 13 MPH...20 KM/H...AND THIS GENERAL MOTION IS EXPECTED TO CONTINUE THROUGH TONIGHT AND SATURDAY. ON THE FORECAST TRACK...THE CORE OF THE HURRICANE WILL APPROACH THE COAST OF NORTH CAROLINA TONIGHT AND PASS NEAR OR OVER THE NORTH CAROLINA COAST SATURDAY MORNING. THE HURRICANE IS FORECAST TO MOVE NEAR OR OVER THE MID-ATLANTIC COAST SATURDAY NIGHT AND MOVE OVER SOUTHERN NEW ENGLAND ON SUNDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 100 MPH...160 KM/H...WITH HIGHER GUSTS. IRENE IS A CATEGORY TWO HURRICANE ON THE SAFFIR SIMPSON HURRICANE WIND SCALE. NO SIGNIFICANT CHANGE IN STRENGTH IS FORECAST BEFORE IRENE REACHES THE COAST OF NORTH CAROLINA. SOME WEAKENING IS EXPECTED AFTER THAT...BUT IRENE IS FORECAST TO REMAIN A HURRICANE AS IT MOVES ALONG THE MID-ATLANTIC COAST ON SUNDAY.

HURRICANE-FORCE WINDS EXTEND OUTWARD UP TO 90 MILES...150 KM...FROM THE CENTER...AND TROPICAL-STORM-FORCE WINDS EXTEND OUTWARD UP TO 290 MILES...465 KM. DURING THE PAST HOUR...A WEATHERFLOW AUTOMATED STATION REPORTED A SUSTAINED WIND OF 48 MPH...78 KM/H...AND A GUST TO 64 MPH...104 KM/H AT THE FORT MACON STATE PARK NEAR ATLANTIC BEACH NORTH CAROLINA.

THE MINIMUM CENTRAL PRESSURE RECENTLY REPORTED BY AIR FORCE RESERVE AND NOAA HURRICANE HUNTER AIRCRAFT WAS 951 MB.

HAZARDS AFFECTING LAND
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WIND...TROPICAL-STORM-FORCE WINDS WILL CONTINUE TO SPREAD INLAND OVER THE SOUTHERN AND EASTERN PORTIONS OF THE WARNING AREA TONIGHT. HURRICANE-FORCE WINDS ARE EXPECTED TO FIRST REACH THE HURRICANE WARNING AREA BY EARLY SATURDAY MORNING. TROPICAL-STORM-FORCE WINDS ARE EXPECTED TO BEGIN ALONG THE MID-ATLANTIC COAST SATURDAY MORNING WITH HURRICANE CONDITIONS EXPECTED BY SATURDAY AFTERNOON. TROPICAL STORM CONDITIONS ARE EXPECTED TO REACH SOUTHERN NEW ENGLAND SATURDAY NIGHT WITH HURRICANE CONDITIONS EXPECTED ON SUNDAY.

STORM SURGE...AN EXTREMELY DANGEROUS STORM TIDE WILL RAISE WATER LEVELS BY AS MUCH AS 6 TO 11 FEET ABOVE GROUND LEVEL IN THE HURRICANE WARNING AREA IN NORTH CAROLINA...INCLUDING THE ALBEMARLE AND PAMLICO SOUNDS. STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 4 TO 8 FEET ABOVE GROUND LEVEL WITHIN THE HURRICANE WARNING AREA FROM THE NORTH CAROLINA/VIRGINIA BORDER NORTHWARD TO CAPE COD INCLUDING SOUTHERN PORTIONS OF THE CHESAPEAKE BAY AND ITS TRIBUTARIES. NEAR THE COAST...THE SURGE WILL BE ACCOMPANIED BY LARGE...DESTRUCTIVE...AND LIFE-THREATENING WAVES. STORM SURGE VALUES ARE VERY LOCATION-SPECIFIC...AND USERS ARE URGED TO CONSULT PRODUCTS ISSUED BY THEIR LOCAL NATIONAL WEATHER SERVICE OFFICES.

RAINFALL...IRENE IS EXPECTED TO PRODUCE RAINFALL ACCUMULATIONS OF 6 TO 10 INCHES...WITH ISOLATED MAXIMUM AMOUNTS OF 15 INCHES...FROM EASTERN NORTH CAROLINA NORTHWARD THROUGH THE MID-ATLANTIC STATES...NEW YORK...AND NEW ENGLAND THROUGH MONDAY MORNING. THESE RAINS COULD CAUSE WIDESPREAD FLOODING AND LIFE-THREATENING FLASH FLOODS.

SURF...LARGE SWELLS GENERATED BY IRENE ARE AFFECTING PORTIONS OF THE

http://tidesandcurrents.noaa.gov/quicklook/data/IRENE-print.html
COAST OF THE SOUTHEASTERN UNITED STATES. THESE SWELLS WILL CAUSE
LIFE-THREATENING SURF AND RIP CURRENT CONDITIONS.

TORNADOES...ISOLATED TORNADOES ARE POSSIBLE OVER EXTREME EASTERN
NORTH CAROLINA LATE TONIGHT AND SATURDAY.

FORECASTER STEWART

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,
Springmaid Pier - Water Level, Springmaid Pier - Winds,
Wrightsville Beach - Water Level, Wrightsville Beach - Winds,
Wrightsville Beach - Barometric, Wilmington - Water Level, Beaufort - Water Level,
Beaufort - Winds, Beaufort - Barometric, Beaufort - Air/Water Temp,
USCG Station Hatteras - Water Level, USCG Station Hatteras - Winds,
Oregon Inlet Marina - Water Level, Oregon Inlet Marina - Winds, Duck - Water Level,
Duck - Winds, Duck - Barometric, Duck - Air/Water Temp,
Chesapeake Bay Bridge Tunnel - Water Level,
Chesapeake Bay Bridge Tunnel - Winds, Ocean City Inlet - Water Level,
Fort Pulaski - Water Level, Fort Pulaski - Winds, Fort Pulaski - Barometric,
Fernandina Beach - Water Level, Fernandina Beach - Winds.

Charleston, SC - Return to List

NDIN/NOS/CC-OPS
Preliminary 6 min. Water Level vs. Predicted Plot
08/25/2011 00:12 - 08/27/2011 00:12

Relative to MLLW: Observed: 2.26 ft. Predicted: 0.56 ft. Residual: 1.70 ft.
Historical Maximum Water Level: Sep 21 1989, 6.76 ft. above MHHW

Charleston, SC - Return to List
Last Observed Sample: 08/27/2011 00:12 (EDT)

Wind Speed: 15 knots  Gusts: 24 knots  Direction: 316° T

Springmaid Pier, SC - Return to List

Last Observed Sample: 08/27/2011 00:12 (EDT)

Relative to MLLW: Observed: 1.61 ft.  Predicted: 0.42 ft.  Residual: 1.19 ft.
Historical Maximum Water Level: Jan 1 1987, 3.65 ft. above MHHW

Springmaid Pier, SC - Return to List

Last Observed Sample: 08/27/2011 00:12 (EDT)

Wind Speed: 23 knots  Gusts: 32 knots  Direction: 338° T

Wrightsville Beach, NC - Return to List
Last Observed Sample: 08/27/2011 00:12 (EDT)
Relative to MLLW: Observed: 3.41 ft. Predicted: 0.22 ft. Residual: 3.19 ft.
Historical Maximum Water Level: Sep 25 2008, 2.81 ft. above MHHW

Wrightsville Beach, NC - Return to List

Last Observed Sample: 08/27/2011 00:12 (EDT)
Wind Speed: 30 knots Gusts: 41 knots Direction: 17° T

Wrightsville Beach, NC - Return to List

Last Observed Sample: 08/27/2011 00:12 (EDT)
Barometric Pressure: 989.1 mb

Wilmington, NC - Return to List
Last Observed Sample: 08/27/2011 00:12 (EDT)
Relative to MLLW: Observed: 2.57 ft. Predicted: 2.12 ft. Residual: 0.45 ft.
Historical Maximum Water Level: Oct 15 1954, 3.47 ft. above MHHW

Beaufort, NC - Return to List

Last Observed Sample: 08/27/2011 00:12 (EDT)
Relative to MLLW: Observed: 3.26 ft. Predicted: 0.49 ft. Residual: 2.77 ft.
Historical Maximum Water Level: Sep 16 1999, 2.74 ft. above MHHW

Beaufort, NC - Return to List

Wind Speed: 18 knots  Gusts: 34 knots  Direction: 83° T
Last Observed Sample: 08/27/2011 00:12 (EDT)
Barometric Pressure: 993.5 mb

Beaufort, NC

Relative to MLLW: Observed: -0.33 ft. Predicted: 0.36 ft. Residual: -0.69 ft.

Historical Maximum Water Level: 0 ft. above MHHW

USCG Station Hatteras, NC

Last Observed Sample: 08/27/2011 00:12 (EDT)

Water Temperature: 81.1° F  Air Temperature: 77.7° F

USCG Station Hatteras, NC

Last Observed Sample: 08/27/2011 00:12 (EDT)

Preliminary 6 min. Water Level vs. Predicted Plot
Last Observed Sample: 08/27/2011 00:12 (EDT)
Relative to MLLW: Observed: 0.84 ft. Predicted: 0.18 ft. Residual: 0.66 ft.
Historical Maximum Water Level: Aug 30 1999, 3.23 ft. above MHHW

Duck, NC - Return to List

Wind Speed/Gusts/Dir
from 08/25/2011 00:24 - 08/26/2011 00:24
Wind Speed: 24 knots Gusts: 26 knots Direction: 49° T

Duck, NC - Return to List

Barometric Pressure Plot
from 08/25/2011 00:24 - 08/26/2011 00:24
Barometric Pressure: 1004.3 mb

Duck, NC - Return to List
Hurricane IRENE QuickLook, POSTED 00:00 EDT 08/27/2011

http://tidesandcurrents.noaa.gov/quicklook/data/IRENE-print.html

Last Observed Sample: 08/27/2011 00:12 (EDT)
Relative to MLLW: Observed: 0.80 ft. Predicted: 0.21 ft. Residual: 0.59 ft.
Historical Maximum Water Level: Feb 5 1998, 3.61 ft. above MHHW

Fort Pulaski, GA - Return to List

Last Observed Sample: 08/27/2011 00:12 (EDT)
Relative to MLLW: Observed: 3.18 ft. Predicted: 0.85 ft. Residual: 2.33 ft.
Historical Maximum Water Level: Oct 15 1947, 3.4 ft. above MHHW

Fort Pulaski, GA - Return to List

Last Observed Sample: 08/27/2011 00:12 (EDT)
Wind Speed: 12 knots  Gusts: 16 knots  Direction: 297° T
Fort Pulaski, GA

Barometric Pressure Plot
8670079 Fort Pulaski, GA
from 08/25/2011 00:24 - 08/26/2011 00:24

Barometric Pressure:
1004.2 mb

Last Observed Sample: 08/27/2011 00:12 (EDT)

Fernandina Beach, FL

Preliminary 6 min. Water Level vs. Predicted Plot
8720030 Fernandina Beach, FL
from 08/25/2011 00:24 - 08/26/2011 00:24

Relative to MLLW: Observed: 3.86 ft. Predicted: 1.03 ft. Residual: 2.83 ft.

Historical Maximum Water Level: Oct 2 1898, 6.94 ft. above MHHW

Fernandina Beach, FL

Wind Speed/Gusts/Dir
8720030 Fernandina Beach, FL
from 08/25/2011 00:24 - 08/26/2011 00:24

Wind Speed: 4 knots
Gusts: 4 knots
Direction: 228° T

Last Observed Sample: 08/27/2011 00:12 (EDT)