Storm Analysis

As of 10/03/2013 1700 CDT, water levels across the northern Gulf of Mexico are rising and range between 0.7 to 1.6 ft above predicted. Winds are increasing across the region, with gusts between 10 to 35 knots observed.

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. Water level predictions relative to Mean Lower Low Water (MLLW) are:

Grand Isle, LA: Next predicted high tides are 1.0 ft (0.32 m) at 10/03/2013 22:17 CDT and 1.2 ft (0.36 m) at 10/04/2013 22:17 CDT.

Pilottown, LA: Next predicted high tides are 0.6 ft (0.18 m) at 10/03/2013 23:17 CDT and 0.7 ft (0.22 m) at 10/04/2013 22:56 CDT.
Shell Beach, LA: Next predicted high tides are 0.9 ft (0.29 m) at 10/04/2013 03:58 CDT and 0.9 ft (0.28 m) at 10/04/2013 17:42 CDT.

Bay Waveland Yacht Club, MS: Next predicted high tides are 1.5 ft (0.44 m) at 10/04/2013 00:51 CDT and 1.5 ft (0.45 m) at 10/04/2013 15:24 CDT.

Pascagoula NOAA Lab, MS: Next predicted high tides are 1.0 ft (0.29 m) at 10/03/2013 21:33 CDT and 0.9 ft (0.29 m) at 10/04/2013 14:08 CDT.

Dauphin Island, AL: Next predicted high tides are 1.1 ft (0.34 m) at 10/03/2013 22:31 CDT and 1.3 ft (0.40 m) at 10/04/2013 22:36 CDT.

Coast Guard Sector Mobile, AL: Next predicted high tides are 1.0 ft (0.30 m) at 10/04/2013 01:00 CDT and 0.9 ft (0.29 m) at 10/04/2013 16:21 CDT.

Pensacola, FL: Next predicted high tides are 1.2 ft (0.37 m) at 10/03/2013 23:09 CDT and 1.4 ft (0.42 m) at 10/04/2013 23:12 CDT.

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:CMF

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM KAREN ADVISORY NUMBER 3
400 PM CDT THU OCT 03 2013

...TROPICAL STORM WARNING ISSUED FOR A PORTION OF SOUTHEASTERN LOUISIANA...

WATCHES AND WARNINGS
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CHANGES WITH THIS ADVISORY...

A TROPICAL STORM WARNING IS IN EFFECT FROM GRAND ISLE LOUISIANA TO THE MOUTH OF THE PEARL RIVER. THIS DOES NOT INCLUDE METROPOLITAN NEW ORLEANS...LAKE MAUREPAS...OR LAKE PONTCHARTRAIN.

THE HURRICANE WATCH FROM DESTIN TO INDIAN PASS FLORIDA HAS BEEN CHANGED TO A TROPICAL STORM WATCH.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WATCH IS IN EFFECT FOR...
* GRAND ISLE LOUISIANA TO WEST OF DESTIN FLORIDA

A TROPICAL STORM WARNING IS IN EFFECT FOR...
* GRAND ISLE LOUISIANA TO THE MOUTH OF THE PEARL RIVER
A TROPICAL STORM WATCH IS IN EFFECT FOR...
* WEST OF GRAND ISLE TO EAST OF MORGAN CITY LOUISIANA
* METROPOLITAN NEW ORLEANS
* LAKE MAUREPAS
* LAKE PONTCHARTRAIN
* DESTIN TO INDIAN PASS FLORIDA

A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE WITHIN THE WATCH AREA. A WATCH IS TYPICALLY ISSUED 48 HOURS BEFORE THE ANTICIPATED FIRST OCCURRENCE OF TROPICAL-STORM-FORCE WINDS...CONDITIONS THAT MAKE OUTSIDE PREPARATIONS DIFFICULT OR DANGEROUS.

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...GENERALLY WITHIN 48 HOURS.

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 400 PM CDT THE CENTER OF TROPICAL STORM KAREN WAS LOCATED BY AIR FORCE RESERVE AND NOAA HURRICANE HUNTER AIRCRAFT ABOUT 400 MI S OF THE MOUTH OF THE MISSISSIPPI RIVER. KAREN IS MOVING TOWARD THE NORTH-NORTHWEST NEAR 12 MPH. A TURN TOWARD THE NORTH AND A DECREASE IN FORWARD SPEED ARE EXPECTED DURING THE NEXT 48 HOURS. ON THE FORECAST TRACK...THE CENTER OF KAREN IS EXPECTED TO BE NEAR THE COAST WITHIN THE HURRICANE WATCH AREA ON SATURDAY.

DATA FROM THE AIRCRAFT INDICATE THAT MAXIMUM SUSTAINED WINDS REMAIN NEAR 65 MPH WITH HIGHER GUSTS. SOME STRENGTHENING IS FORECAST IN THE NEXT DAY OR SO AND KAREN IS EXPECTED TO BE AT OR NEAR HURRICANE STRENGTH LATE FRIDAY AND EARLY SATURDAY.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 140 MILES MAINLY TO THE NORTH AND EAST OF THE CENTER.

THE LATEST MINIMUM CENTRAL PRESSURE MEASURED BY THE NOAA AIRCRAFT WAS 999 MB.

HAZARDS AFFECTING LAND
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WIND...HURRICANE CONDITIONS ARE POSSIBLE WITHIN PORTIONS OF THE HURRICANE WATCH AREA ON SATURDAY...WITH TROPICAL STORM CONDITIONS POSSIBLE AS SOON AS FRIDAY NIGHT. TROPICAL STORM CONDITIONS ARE EXPECTED WITHIN PORTIONS OF THE TROPICAL STORM WARNING AREA BY FRIDAY NIGHT.

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 THE FOLLOWING HEIGHTS ABOVE GROUND IF THE PEAK SURGE OCCURS AT THE TIME OF HIGH TIDE...

MOUTH OF THE MISSISSIPPI RIVER TO MOBILE BAY...2 TO 4 FT
EAST OF MOBILE BAY TO WEST OF APALACHEE BAY...1 TO 2 FT
APALACHEE BAY...2 TO 4 FT
SOUTH OF APALACHEE BAY TO TAMPA BAY...1 TO 2 FT

THE HIGHEST WATER WILL OCCUR ALONG THE IMMEDIATE COAST NEAR AND TO THE EAST OF WHERE LANDFALL OCCURS...WHERE THE SURGE WILL BE ACCOMPANIED BY DANGEROUS WAVES. SURGE-RELATED FLOODING DEPENDS ON THE RELATIVE TIMING OF THE SURGE AND THE TIDAL CYCLE...AND CAN VARY GREATLY OVER SHORT DISTANCES. FOR INFORMATION SPECIFIC TO YOUR AREA...PLEASE SEE PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE OFFICE.

RAINFALL...KAREN IS EXPECTED TO PRODUCE RAINFALL AMOUNTS OF 4 TO 8 INCHES OVER PORTIONS OF THE CENTRAL AND EASTERN GULF COAST THROUGH SUNDAY NIGHT...MAINLY NEAR AND TO THE RIGHT OF THE PATH OF THE CENTER. ISOLATED STORM TOTAL AMOUNTS OF 12 INCHES ARE POSSIBLE. ADDITIONAL RAINFALL AMOUNTS OF 1 TO 2 INCHES ARE POSSIBLE OVER PORTIONS OF WESTERN CUBA AND THE NORTHERN YUCATAN PENINSULA.

FORECASTER BRENNAAN

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: Grand Isle - Water Level, Grand Isle - Winds, Grand Isle - Barometric, Pilottown - Water Level, Pilottown - Winds, Pilottown - Barometric, Shell Beach - Water Level, Shell Beach - Winds, Bay Waveland Yacht Club - Water Level, Bay Waveland Yacht Club - Winds, Bay Waveland Yacht Club - Barometric, Pascagoula NOAA Lab - Water Level, Dock C, Port of Pascagoula - Winds, Dock C, Port of Pascagoula - Barometric, Dauphin Island - Water Level, Dauphin Island - Winds, Dauphin Island - Barometric, Coast Guard Sector Mobile - Water Level, Coast Guard Sector Mobile - Winds, Coast Guard Sector Mobile - Barometric, Pensacola - Water Level, Pensacola - Winds, Pensacola - Barometric
Grand Isle, LA - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Flat
8761/24 Grand Isle, LA
From 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:18 (CDT)
Relative to MLLW: Observed: 1.67 ft. Predicted: 0.95 ft. Residual: 0.72 ft.
Historical Maximum Water Level: Aug 29 2005, 5.59 ft. above MLLW

Grand Isle, LA - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
8761/24 Grand Isle, LA
From 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:18 (CDT)
Wind Speed: 5 knots Gusts: 9 knots Direction: 105° T
Grand Isle, LA - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
8/6/124 Grand Isle, LA
from 10/01/2013 17:24 - 10/04/2013 17:24

Barometric pressure

Last Observed Sample: 10/03/2013 17:18 (CDT)
Barometric Pressure: 1013.6 mb

Pilottown, LA - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
8/6/721 Pilottown, LA
from 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:18 (CDT)
Relative to MLLW: Observed: 1.17 ft. Predicted: 0.43 ft. Residual: 0.74 ft.
Historical Maximum Water Level: n/a
Pilottown, LA - Return to List

NOAA/NOS/CO-OPS
Wind Speed/Gusts/Dir
8/6/21 Pilottown, LA
from 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:18 (CDT)
Wind Speed: 6 knots Gusts: 8 knots Direction: 57° T

Pilottown, LA - Return to List

NOAA/NOS/CO-OPS
Barometric Pressure Plot
8/6/21 Pilottown, LA
from 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:18 (CDT)
Barometric Pressure: 1014.2 mb
Last Observed Sample: 10/03/2013 17:18 (CDT)
Relative to MLLW: Observed: 2.43 ft. Predicted: 0.89 ft. Residual: 1.54 ft.
Historical Maximum Water Level: Aug 29 2012, 10.88 ft. above MLLW

Last Observed Sample: 10/03/2013 17:18 (CDT)
Wind Speed: 15 knots Gusts: 17 knots Direction: 105° T
Bay Waveland Yacht Club, MS - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
8747437 Bay Waveland Yacht Club, MS
from 10/01/2013 17:24 - 10/04/2013 17:24

<table>
<thead>
<tr>
<th>Date/Time (CDT)</th>
<th>Observed (ft)</th>
<th>Predicted (ft)</th>
<th>Residual (ft)</th>
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<tr>
<td>10/03 12:00</td>
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<td>10/04 00:00</td>
<td>2.74</td>
<td>1.26</td>
<td>1.48</td>
</tr>
<tr>
<td>10/04 12:00</td>
<td>2.74</td>
<td>1.26</td>
<td>1.48</td>
</tr>
</tbody>
</table>

Last Observed Sample: 10/03/2013 17:18 (CDT)
Historical Maximum Water Level: Sep 1 2008, 10.89 ft. above MLLW

Bay Waveland Yacht Club, MS - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
8747437 Bay Waveland Yacht Club, MS
from 10/01/2013 17:24 - 10/04/2013 17:24

<table>
<thead>
<tr>
<th>Date/Time (CDT)</th>
<th>Speed (knots)</th>
<th>Gusts (knots)</th>
<th>Direction (°)</th>
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<tr>
<td>10/04 12:00</td>
<td>10</td>
<td>10</td>
<td>126</td>
</tr>
</tbody>
</table>

Last Observed Sample: 10/03/2013 17:18 (CDT)
Wind Speed: 19 knots Gusts: 24 knots Direction: 126° T
Bay Waveland Yacht Club, MS - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
8747437 Bay Waveland Yacht Club, MS
from 10/01/2013 17:24 - 10/04/2013 17:24

Barometric pressure

Last Observed Sample: 10/03/2013 17:18 (CDT)
Barometric Pressure: 1014.2 mb

Pascagoula NOAA Lab, MS - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
8741533 Pascagoula NOAA Lab, MS
from 10/01/2013 17:24 - 10/04/2013 17:24

Predicted Tide
Observed WL
(Obs-Pred)
MHHW
MLLW

Last Observed Sample: 10/03/2013 17:24 (CDT)
Relative to MLLW: Observed: 2.01 ft. Predicted: 0.75 ft. Residual: 1.26 ft.
Historical Maximum Water Level: Sep 1 2008, 6.43 ft. above MLLW
Dock C, Port of Pascagoula, MS - Return to List

NOAA/NWS/C0-CPS
Wind Speed/Gusts/Dir
8741501 Dock C, Port of Pascagoula, MS
from 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:24 (CDT)
Wind Speed: 9 knots  Gusts: 15 knots  Direction: 96° T

Dock C, Port of Pascagoula, MS - Return to List

NOAA/NWS/C0-CPS
Barometric Pressure Plot
8741501 Dock C, Port of Pascagoula, MS
from 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:24 (CDT)
Barometric Pressure: 1015.5 mb
Dauphin Island, AL - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
8735180 Dauphin Island, AL
FROM 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:12 (CDT)
Relative to MLLW: Observed: 1.77 ft. Predicted: 0.92 ft. Residual: 0.85 ft.
Historical Maximum Water Level: Sep 16 2004, 7.14 ft. above MLLW

Dauphin Island, AL - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
8735180 Dauphin Island, AL
FROM 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:12 (CDT)
Wind Speed: 11 knots Gusts: 19 knots Direction: 111° T
Dauphin Island, AL - Return to List

NOAA/NOES/C0-CPS
Barometric Pressure Plot
8735380 Dauphin Island, AL
from 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:12 (CDT)
Barometric Pressure: 1016.7 mb

Coast Guard Sector Mobile, AL - Return to List

NOAA/NOES/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
8736897 Coast Guard Sector Mobile, AL
from 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:18 (CDT)
Relative to MLLW: Observed: 2.21 ft. Predicted: 0.83 ft. Residual: 1.38 ft.
Historical Maximum Water Level: Sep 1 2008, 5.41 ft. above MLLW
Coast Guard Sector Mobile, AL - Return to List

NOAA/NOS/C0-OPS
Wind Speed/Gusts/Dir
3736897 Coast Guard Sector Mobile, AL
from 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:18 (CDT)
Wind Speed: 7 knots Gusts: 11 knots Direction: 133° T

Coast Guard Sector Mobile, AL - Return to List

NOAA/NOS/C0-OPS
Barometric Pressure Plot
3736897 Coast Guard Sector Mobile, AL
from 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:18 (CDT)
Barometric Pressure: 1014.8 mb
Tropical Storm KAREN QuickLook, POSTED 17:00 CDT 10/03/2013

Pensacola, FL - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
8729840 Pensacola, FL
from 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:18 (CDT)
Relative to MLLW: Observed: 1.72 ft. Predicted: 0.95 ft. Residual: 0.77 ft.
Historical Maximum Water Level: Sep 18 1926, 8.67 ft. above MLLW

Pensacola, FL - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
8729840 Pensacola, FL
from 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:18 (CDT)
Wind Speed: 6 knots Gusts: 9 knots Direction: 158° T
Tropical Storm KAREN QuickLook, POSTED 17:00 CDT 10/03/2013

Pensacola, FL - Return to List

NOAA/NOS/CO-OPS
Barometric Pressure Plot
8729840 Pensacola, FL
from 10/01/2013 17:24 - 10/04/2013 17:24

Last Observed Sample: 10/03/2013 17:18 (CDT)
Barometric Pressure: 1016.3 mb

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce