Storm Analysis

As of 08/31/2008 23:00 CDT, water levels along the Florida Keys and southern Florida are beginning to fall, though they still remain elevated 0.5 to 1 feet above predictions. Water levels along the Gulf coast from Old Port Tampa, FL to Bay Waveland Yacht Club, LA are 1-3 feet above predicted and are still rising. Sites along the Louisiana Coast from Cypremort westward are beginning to elevate and seeing water levels roughly 0.5 feet above predicted. Winds are picking up along the Gulf coast with Dauphin Island, AL and Grand Isle, LA both measuring wind gusts up to 40 mph. Barometric pressure continues to fall from the Florida panhandle to Louisiana.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:
Naples, FL: Next predicted high tide is 2.90 ft (0.88 m) at 09/01/2008 01:30 EDT.

Old Port Tampa, FL: Next predicted high tide is 2.36 ft (0.72 m) at 09/01/2008 03:12 EDT.

Cedar Key, FL: Next predicted high tide is 3.87 ft (1.18 m) at 09/01/2008 03:18 CDT.

Panama City, FL: Next predicted high tide is 1.18 ft (0.36 m) at 09/01/2008 13:00 CDT.

Dauphin Island, AL: Next predicted high tide is 0.93 ft (0.28 m) at 09/01/2008 13:18 CDT.

Bay Waveland Yacht Club, MS: Next predicted high tide is 1.09 ft (0.33 m) at 09/01/2008 03:24 CDT.

Pilots Station East, SW Pass, LA: Next predicted high tide is 1.03 ft (0.31 m) at 09/01/2008 12:12 CDT.

Grand Isle, LA: Next predicted high tide is 0.76 ft (0.23 m) at 09/01/2008 01:39 CDT.

Cypremore Point, LA: Next predicted high tide is 1.12 ft (0.34 m) at 09/01/2008 07:54 CDT.

Calcasieu Pass, LA: Next predicted high tide is 1.92 ft (0.59 m) at 09/01/2008 04:21 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: PFF

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SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

HURRICANE GUSTAV ADVISORY NUMBER 30

1000 PM CDT SUN AUG 31 2008

...GUSTAV CLOSING IN ON THE NORTHERN GULF COAST...

A HURRICANE WARNING REMAINS IN EFFECT FROM JUST EAST OF HIGH ISLAND TEXAS EASTWARD TO THE ALABAMA-FLORIDA BORDER...INCLUDING THE CITY OF NEW ORLEANS AND LAKE PONTCHARTRAIN. PREPARATIONS TO PROTECT LIFE AND PROPERTY SHOULD BE RUSHED TO COMPLETION.

A TROPICAL STORM WARNING REMAINS IN EFFECT FROM EAST OF THE ALABAMA-FLORIDA BORDER TO THE OCHLOCKONEE RIVER.

AT 1000 PM CDT THE CENTER OF HURRICANE GUSTAV WAS LOCATED ABOUT 220 MILES SOUTHEAST OF NEW ORLEANS LOUISIANA AND ABOUT 310 MILES SOUTHEAST OF LAFAYETTE LOUISIANA. THIS POSITION IS ALSO ABOUT 180 MILES SOUTHEAST OF PORT FOURCHON ALONG THE LOUISIANA COAST.

GUSTAV IS MOVING TOWARD THE NORTHWEST NEAR 16 MPH AND THIS MOTION IS
EXPECTED TO CONTINUE PRIOR TO LANDFALL. ON THE FORECAST TRACK...THE CENTER OF GUSTAV WOULD REACH THE NORTHERN GULF COAST DURING THE DAYLIGHT HOURS TOMORROW. A DECREASE IN FORWARD SPEED IS EXPECTED TO OCCUR ON TUESDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 115 MPH WITH HIGHER GUSTS. GUSTAV IS A CATEGORY THREE HURRICANE ON THE SAFFIR-SIMPSON SCALE. A LITTLE STRENGTHENING IS POSSIBLE PRIOR TO LANDFALL.

GUSTAV 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 220 MILES.

THE LATEST MINIMUM CENTRAL PRESSURE ESTIMATED FROM NOAA AIRCRAFT RECONNAISSANCE DATA WAS 954 MB...28.17 INCHES.

AN EXTREMELY DANGEROUS STORM SURGE OF 10 TO 14 FEET ABOVE NORMAL TIDAL LEVELS IS EXPECTED NEAR AND TO THE EAST OF WHERE THE CENTER OF GUSTAV CROSSES THE COAST.

GUSTAV IS EXPECTED TO PRODUCE TOTAL RAINFALL ACCUMULATIONS OF 6 TO 12 INCHES OVER PORTIONS OF LOUISIANA...SOUTHERN AND WESTERN MISSISSIPPI...ARKANSAS AND NORTHEASTERN TEXAS...WITH ISOLATED MAXIMUM AMOUNTS OF UP TO 20 INCHES POSSIBLE THROUGH WEDNESDAY.

ISOLATED TORNADOES ARE POSSIBLE OVER THE CENTRAL GULF COAST TONIGHT.

FORECASTER FRANKLIN

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.
Naples, FL - Station Map

NOAA/NOS/C0-OPS
Preliminary 6 min. Water Level vs. Predicted Plot
9725110 Naples, FL
from 08/30/2008 00:00 - 09/02/2008 03:30

Last Observed Sample: 08/31/2008 23:48 (EDT)

Relative to MLLW: Observed: 3.25 ft. Predicted: 2.49 ft. Residual: 0.76 ft.

Historical Maximum Water Level: 12/21/1972, 3.11 ft. above MHHW

Naples, FL - Station Map

NOAA/NOS/C0-OPS
Wind Speed/Gusts/Dir
9725110 Naples, FL
from 08/30/2008 00:00 - 09/02/2008 03:30

Last Observed Sample: 08/31/2008 23:48 (EDT)

Wind Speed: 6 knots Gusts: 9 knots Direction: 105° T
**Naples, FL** - Station Map

Last Observed Sample: 08/31/2008 23:48 (EDT)

Barometric Pressure: 1011.3 mb

**Old Port Tampa, FL** - Station Map

Last Observed Sample: 08/31/2008 23:48 (EDT)

Relative to MLLW: Observed: 3.27 ft. Predicted: 0.96 ft. Residual: 2.31 ft.

Historical Maximum Water Level: 10/08/1996, 3.56 ft. above MHHW
Old Port Tampa, FL - Station Map

Return to List

NOAA/NOS/C0-OPS
Wind Speed/Gusts/Dir
9726587 Old Port Tampa, FL
from 08/30/2008 00:00 - 09/02/2008 03:30

Last Observed Sample: 08/31/2008 23:48 (EDT)

Wind Speed: 10 knots Gusts: 16 knots Direction: 103° T

Cedar Key, FL - Station Map

Return to List

NOAA/NOS/C0-OPS
Preliminary 6 min. Water Level vs. Predicted Plot
8726526 Cedar Key, FL
from 08/30/2008 00:00 - 09/02/2008 03:30

Last Observed Sample: 08/31/2008 23:48 (EDT)


Historical Maximum Water Level: 10/07/1996, 5.15 ft. above MHHW
**Panama City, FL - Station Map**

Last Observed Sample: 08/31/2008 22:42 (CDT)

Relative to **MLLW**: Observed: 2.15 ft. Predicted: 0.93 ft. Residual: 1.22 ft.

Historical Maximum Water Level: 10/04/1995, 5.72 ft. above **MHHW**

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Wind Speed: 9 knots  Gusts: 16 knots  Direction: 092° T
**Dauphin Island, AL - Station Map**

**Preliminary 6 min. Water Level vs. Predicted Plot**

Historical Maximum Water Level: 09/02/1985, 3.36 ft. above MHHW

Relative to MLLW: Observed: 2.02 ft. Predicted: 0.73 ft. Residual: 1.29 ft.

Last Observed Sample: 08/31/2008 22:42 (CDT)

**Wind Speed/Gusts/Dir**

Wind Speed: 24 knots Gusts: 31 knots Direction: 044° T

Last Observed Sample: 08/31/2008 22:42 (CDT)
Dauphin Island, AL - Station Map

NOAA/NOS/C0-OPS
Air-Water Temperature Plot
8725100 Dauphin Island, AL
from 08/29/2008 23:00 - 09/01/2008 23:00

Last Observed Sample: 08/31/2008 22:42 (CDT)
Water Temperature: 82.2° F  Air Temperature: 80.8° F

Dauphin Island, AL - Station Map

NOAA/NOS/C0-OPS
Barometric Pressure Plot
8725100 Dauphin Island, AL
from 08/29/2008 23:00 - 09/01/2008 23:00

Last Observed Sample: 08/31/2008 22:42 (CDT)
Barometric Pressure: 1006.5 mb
Last Observed Sample: 08/31/2008 22:42 (CDT)
Relative to MLLW: Observed: 2.17 ft. Predicted: 0.77 ft. Residual: 1.40 ft.
Historical Maximum Water Level: 10/28/1985, 5.05 ft. above MHHW

Bay Waveland Yacht Club, MS - Station Map

Hurricane GUSTAV QuickLook, POSTED 23:00 CDT 08/31/2008

Wind Speed: 16 knots  Gusts: 19 knots  Direction: 022° T
Last Observed Sample: 08/31/2008 22:42 (CDT)
Water Temperature: 82.9° F Air Temperature: 77.9° F

Bay Waveland Yacht Club, MS - Station Map

Barometric Pressure: 1007.7 mb
Pilots Station East, SW Pass, LA - Station Map

Last Observed Sample: 08/31/2008 22:48 (CDT)
Relative to MLLW: Observed: 2.28 ft. Predicted: 0.76 ft. Residual: 1.52 ft.
Historical Maximum Water Level: n/a

Grand Isle, LA - Station Map

Last Observed Sample: 08/31/2008 22:48 (CDT)
Relative to MLLW: Observed: 1.52 ft. Predicted: 0.72 ft. Residual: 0.80 ft.
Historical Maximum Water Level: n/a
Grand Isle, LA - Station Map

Wind Speed/Gusts/Dir
0761724 Grand Isle, LA
from 08/29/2008 23:00 - 09/01/2008 23:00

Last Observed Sample: 08/31/2008 22:48 (CDT)
Wind Speed: 22 knots Gusts: 32 knots Direction: 044° T

Grand Isle, LA - Station Map

Air/Water Temperature Plot
0761724 Grand Isle, La
from 08/29/2008 23:00 - 09/01/2008 23:00

Last Observed Sample: 08/31/2008 22:48 (CDT)
Water Temperature: 83.3° F Air Temperature: 78.6° F
Grand Isle, LA - Station Map

Last Observed Sample: 08/31/2008 22:48 (CDT)
Barometric Pressure: 1005.4 mb

Cypremort Point, LA - Station Map

Last Observed Sample: 08/31/2008 21:48 (CDT)
Relative to MLLW: Observed: 1.43 ft. Predicted: 0.99 ft. Residual: 0.44 ft.
Historical Maximum Water Level: n/a
Calcasieu Pass, LA - Station Map

Last Observed Sample: 08/31/2008 22:42 (CDT)

Relative to MLLW: Observed: 0.79 ft. Predicted: 0.56 ft. Residual: 0.23 ft.

Historical Maximum Water Level: n/a
**Calcasieu Pass, LA - Station Map**

NOAA/NOS/CO-OPS

**Wind Speed/Gusts/Dir**
0760094 Calcasieu Pass, LA
from 08/29/2008 22:54 - 09/01/2008 22:54

**Last Observed Sample:** 08/31/2008 22:42 (CDT)

- **Wind Speed:** 6 knots
- **Gusts:** 7 knots
- **Direction:** 031° T

**Calcasieu Pass, LA - Station Map**

NOAA/NOS/CO-OPS

**Barometric Pressure Plot**
0760094 Calcasieu Pass, LA
from 08/29/2008 22:54 - 09/01/2008 22:54

**Last Observed Sample:** 08/31/2008 22:42 (CDT)

- **Barometric Pressure:** 1008.5 mb