Tropical Storm CHANTAL QuickLook, POSTED 00:00 AST 07/09/2013

NOAA and NOAA Partnership Stations Relative to the Storm

Storm Analysis
As of 07/09/2013 00:00 AST, water levels in the U.S. Virgin Islands and Puerto Rico are at or near predicted tide levels. Winds are light and steady across the region, while barometric pressure is slowly increasing.

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 are:

Lameshur Bay, St. John, VI: Next predicted high tides are 0.9 ft (0.26 m) at 07/09/2013 22:31 AST and 0.8 ft (0.26 m) at 07/10/2013 22:55 AST.

Lime Tree Bay, VI: Next predicted high tides are 0.7 ft (0.23 m) at 07/09/2013 23:11 AST and 0.7 ft (0.22 m) at 07/10/2013 23:18 AST.
Charlotte Amalie, VI: Next predicted high tides are 0.8 ft (0.25 m) at 07/09/2013 22:35 AST and 0.8 ft (0.25 m) at 07/10/2013 22:56 AST.

Esperanza, Vieques Island, PR: Next predicted high tides are 0.8 ft (0.24 m) at 07/09/2013 22:20 AST and 0.8 ft (0.23 m) at 07/10/2013 22:34 AST.

Yabucoa Harbor, PR: Next predicted high tides are 0.7 ft (0.20 m) at 07/09/2013 22:31 AST and 0.6 ft (0.19 m) at 07/10/2013 22:37 AST.

Magueyes Island, PR: Next predicted high tides are 0.7 ft (0.22 m) at 07/09/2013 23:11 AST and 0.7 ft (0.21 m) at 07/10/2013 23:23 AST.

Mayaguez, PR: Next predicted high tides are 0.8 ft (0.25 m) at 07/09/2013 09:15 AST and 1.3 ft (0.41 m) at 07/09/2013 22:05 AST.

Mona Island, PR: Next predicted high tides are 0.9 ft (0.26 m) at 07/09/2013 21:54 AST and 0.8 ft (0.26 m) at 07/10/2013 22:22 AST.

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: TKM

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TROPICAL STORM CHANTAL ADVISORY NUMBER 5
1100 PM AST MON JUL 08 2013

...CHANTAL RACING TOWARD THE LESSER ANTILLES...

WATCHES AND WARNINGS
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CHANGES WITH THIS ADVISORY...

THE GOVERNMENT OF THE DOMINICAN REPUBLIC HAS REPLACED THE TROPICAL STORM WATCH WITH A TROPICAL STORM WARNING FROM CABO ENGANO TO THE BORDER WITH HAITI. A TROPICAL STORM WATCH HAS BEEN ISSUED FOR THE NORTHERN COAST OF HAITI FROM NORTH OF CABO ENGANO TO CABO FRANCES VIEJO.

A TROPICAL STORM WATCH HAS BEEN ISSUED FOR HAITI.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A TROPICAL STORM WARNING IS IN EFFECT FOR...
* BARBADOS
* DOMINICA
* ST. LUCIA
* MARTINIQUE
Tropical Storm CHANTAL QuickLook, POSTED 00:00 AST 07/09/2013

* GUADALOUPE
* PUERTO RICO
* SOUTHERN COAST OF THE DOMINICAN REPUBLIC FROM CABO ENGANO TO THE BORDER WITH HAITI

A TROPICAL STORM WATCH IS IN EFFECT FOR...
* ST. VINCENT
* U.S. VIRGIN ISLANDS
* VIEQUES AND CULEBRA
* NORTHERN COAST OF THE DOMINICAN REPUBLIC FROM NORTH OF CABO ENGANO TO CABO FRANCES VIEJO

INTERESTS IN THE REMAINDER OF THE NORTHERN LEeward ISLANDS...THE SOUTHEASTERN BAHAMAS AND TURKS AND CAICOS SHOULD MONITOR THE PROGRESS OF CHANTAL.

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.

DISCUSSION AND 48-HOUR OUTLOOK
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AT 1100 PM AST...0300 UTC...THE CENTER OF TROPICAL STORM CHANTAL WAS LOCATED NEAR LATITUDE 12.4 NORTH...LONGITUDE 56.1 WEST. CHANTAL IS MOVING TOWARD THE WEST-NORTHWEST NEAR 26 MPH...43 KM/H...AND THIS GENERAL MOTION IS EXPECTED TO CONTINUE FOR THE NEXT COUPLE OF DAYS. ON THE FORECAST TRACK...THE CENTER OF CHANTAL WILL MOVE THROUGH THE LESSER ANTILLES EARLY TUESDAY...MOVE INTO THE EASTERN CARIBBEAN SEA LATER ON TUESDAY...AND BE NEAR THE DOMINICAN REPUBLIC ON WEDNESDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 50 MPH...85 KM/H...WITH HIGHER GUSTS. SOME STRENGTHENING IS FORECAST DURING THE NEXT 48 HOURS.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 90 MILES...150 KM...MAINLY TO THE NORTH OF THE CENTER.

THE ESTIMATED MINIMUM CENTRAL PRESSURE IS 1010 MB...29.83 INCHES.

HAZARDS AFFECTING LAND
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WIND...TROPICAL STORM CONDITIONS ARE EXPECTED TO REACH PORTIONS OF THE WINDWARD ISLANDS BY TUESDAY MORNING...AND REACH PUERTO RICO TUESDAY NIGHT OR EARLY WEDNESDAY. TROPICAL STORM CONDITIONS ARE EXPECTED TO REACH THE SOUTHEASTERN PORTION OF THE DOMINICAN REPUBLIC BY WEDNESDAY MORNING. TROPICAL STORM CONDITIONS ARE POSSIBLE IN HAITI BY LATE WEDNESDAY.

STORM SURGE...A STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 1 TO 3 FEET ABOVE NORMAL TIDE LEVELS IN THE LEeward ISLANDS...WINDWARD ISLANDS...AND PUERTO RICO. A STORM SURGE WILL ALSO RAISE
WATER LEVELS BY AS MUCH AS 2 TO 4 FEET ABOVE NORMAL TIDE LEVELS ALONG THE SOUTHERN COAST OF THE DOMINICAN REPUBLIC. NEAR THE COAST...THE SURGE WILL BE ACCOMPANIED BY DANGEROUS WAVES.

RAINFALL...CHANTAL IS EXPECTED TO PRODUCE RAIN ACCUMULATIONS OF 2 TO 4 INCHES OVER THE LEEWARD AND WINDWARD ISLANDS...PUERTO RICO AND THE U.S. VIRGIN ISLANDS...AND PORTIONS OF THE DOMINICAN REPUBLIC AND HAITI...WITH MAXIMUM AMOUNTS OF 6 INCHES POSSIBLE.

FORECASTER BROWN

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.

Tropical Storm CHANTAL QuickLook, POSTED 00:00 AST 07/09/2013

Lameshur Bay, St. John, VI - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
S751381 Lameshur Bay, St. John, VI
from 07/06/2013 23:54 - 07/09/2013 23:54

Relative to MLLW:
- Observed: 1.01 ft.
- Predicted: 0.78 ft.
- Residual: 0.23 ft.
- Historical Maximum Water Level: Aug 30 2010, 1.71 ft. above MLLW

Barometric Pressure: 1018.7 mb

Last Observed Sample: 07/08/2013 23:54 (AST)

Barometric Pressure: 1018.7 mb
Tropical Storm CHANTAL QuickLook, POSTED 00:00 AST 07/09/2013

Lime Tree Bay, VI - Return to List

Last Observed Sample: 07/08/2013 23:48 (AST)
Relative to MLLW: Observed: 0.87 ft. Predicted: 0.74 ft. Residual: 0.13 ft.
Historical Maximum Water Level: Nov 17 1999, 2.59 ft. above MLLW

Lime Tree Bay, VI - Return to List

Last Observed Sample: 07/09/2013 00:00 (AST)
Wind Speed: 10 knots Gusts: 16 knots Direction: 110° T
Lime Tree Bay, VI - Return to List

Barometric Pressure Plot
9751401 Lime Tree Bay, VI
from 07/06/2013 23:54 - 07/09/2013 23:54

Last Observed Sample: 07/09/2013 00:00 (AST)
Barometric Pressure: 1017.8 mb

Charlotte Amalie, VI - Return to List

Preliminary 6 min. Water Level vs. Predicted Plot
9751639 Charlotte Amalie, VI
from 07/06/2013 23:54 - 07/09/2013 23:54

Relative to MLLW: Observed: 0.96 ft. Predicted: 0.76 ft. Residual: 0.20 ft.
Historical Maximum Water Level: Sep 16 1995, 3.72 ft. above MLLW
Tropical Storm CHANTAL QuickLook, POSTED 00:00 AST 07/09/2013

Charlotte Amalie, VI - Return to List

**NOAA/NOS/C0-CPS**
Wind Speed/Gusts/Dir
9751639 Charlotte Amalie, VI
FROM 07/06/2013 23:54 - 07/09/2013 23:54

Last Observed Sample: 07/09/2013 00:00 (AST)
Wind Speed: 4 knots Gusts: 10 knots Direction: 73° T

Charlotte Amalie, VI - Return to List

**NOAA/NOS/C0-CPS**
Barometric Pressure Plot
9751639 Charlotte Amalie, VI
FROM 07/06/2013 23:54 - 07/09/2013 23:54

Last Observed Sample: 07/09/2013 00:00 (AST)
Barometric Pressure: 1018.8 mb
Esperanza, Vieques Island, PR - Return to List

Last Observed Sample: 07/08/2013 23:54 (AST)
Relative to MLLW: Observed: 1.02 ft. Predicted: 0.76 ft. Residual: 0.26 ft.
Historical Maximum Water Level: Aug 22 2011, 1.78 ft. above MLLW

Esperanza, Vieques Island, PR - Return to List

Last Observed Sample: 07/09/2013 00:06 (AST)
Wind Speed: 4 knots Gusts: 10 knots Direction: 84° T
Esperanza, Vieques Island, PR - Return to List

Last Observed Sample: 07/09/2013 00:06 (AST)
Barometric Pressure: 1018.3 mb

Yabucoa Harbor, PR - Return to List

Last Observed Sample: 07/08/2013 23:54 (AST)
Relative to MLLW: Observed: 1.04 ft. Predicted: 0.66 ft. Residual: 0.38 ft.
Historical Maximum Water Level: n/a
Magueyes Island, PR - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
9759110 Magueyes Island, PR
FROM 07/06/2013 23:54 - 07/09/2013 23:54

Last Observed Sample: 07/08/2013 23:48 (AST)
Relative to MLLW: Observed: 0.92 ft. Predicted: 0.70 ft. Residual: 0.22 ft.
Historical Maximum Water Level: Sep 22 1998, 2.26 ft. above MLLW

Magueyes Island, PR - Return to List

NOAA/NOS/C0-CPS
Wind Speed/Gusts/Dir
9759110 Magueyes Island, PR
FROM 07/06/2013 23:54 - 07/09/2013 23:54

Last Observed Sample: 07/08/2013 23:48 (AST)
Wind Speed: 3 knots Gusts: 7 knots Direction: 122° T
Magueyes Island, PR - Return to List

NOAA/NOS/C0-CPS
Barometric Pressure Plot
97991.10 Magueyes Island, PR
From 07/06/2013 23:54 - 07/09/2013 23:54

Last Observed Sample: 07/08/2013 23:48 (AST)
Barometric Pressure: 1017.8 mb

Mayaguez, PR - Return to List

NOAA/NOS/C0-CPS
Preliminary 6 min. Water Level vs. Predicted Plot
9759394 Mayaguez, PR
From 07/06/2013 23:54 - 07/09/2013 23:54

Last Observed Sample: 07/08/2013 23:54 (AST)
Relative to MLLW: Observed: 1.17 ft. Predicted: 1.02 ft. Residual: 0.15 ft.
Historical Maximum Water Level: Jul 13 2010, 2.17 ft. above MLLW
Mayaguez, PR - Return to List

Last Observed Sample: 07/08/2013 23:54 (AST)

Wind Speed: 2 knots  Gusts: 4 knots  Direction: 42° T

Mayaguez, PR - Return to List

Last Observed Sample: 07/08/2013 23:54 (AST)

Barometric Pressure: 1024.9 mb
Mona Island, PR - Return to List

Preliminary 6 min. Water Level vs. Predicted Plot
9759398 Mona Island, PR
from 07/06/2013 23:54 - 07/09/2013 23:54

Last Observed Sample: 07/08/2013 23:54 (AST)
Relative to MLLW: Observed: 0.86 ft. Predicted: 0.78 ft. Residual: 0.08 ft.
Historical Maximum Water Level: Dec 23 2010, 2.06 ft. above MLLW

Mona Island, PR - Return to List

Barometric Pressure Plot
9759398 Mona Island, PR
from 07/06/2013 23:54 - 07/09/2013 23:54

Last Observed Sample: 07/08/2013 23:54 (AST)
Barometric Pressure: 1018.0 mb

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