

**MONTHLY REPORT OF HYDROLOGIC CONDITIONS**

REPORT FOR:  
MONTH            YEAR  
October            2010

TO: Hydrologic Information Center, W/OS31  
NOAA's National Weather Service  
1325 East West Highway  
Silver Spring, MD 20910-3283

SIGNATURE  
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Service Hydrologist  
DATE  
11/22/2010

*When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).*

An X inside this box indicates that no flooding occurred within this hydrologic service area.

Summary: The San Juan ASOS reported 7.86 inches of rain for the month of October; 2.80 inches greater than the normal of 5.06 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 16.20 inches for the month of October; 10.63 inches greater than the normal of 2.27 inches.

*"Afternoon convection was the rule during the first few days of October as a result of daytime heating and sea breeze convergence. The steering flow focused this shower activity along the north central and northwestern sections of Puerto Rico each afternoon. This scenario changed around the 4<sup>th</sup> of the month as a broad area of low pressure (which developed into [hurricane Otto](#)) combined with an upper level low to produce an active/wet pattern across the local islands through the second week of the month. Then, generally fair weather prevailed across the local islands through the end of the month with limited afternoon convection across western Puerto Rico each afternoon. By the end of the month, a very active tropical wave to our southeast became [hurricane Tomas](#). This system tracked south of the area leaving hazardous and choppy sea conditions across the Caribbean waters.*

*The highest 24-hour precipitation total across Puerto Rico for the month of October was 11.10", which fell in [Jajome Alto](#) over the 24 hour period ending at 8am October 8<sup>th</sup>. The highest weekly rainfall across Puerto Rico also occurred in [Jajome Alto](#), where 21.51" of rain accumulated the week ending October 8<sup>th</sup>. Across the U.S. Virgin Islands, the highest 24-hour precipitation total fell at [Coral Bay](#) on Saint John, where 8.50" fell over the 24 hour period ending at 8 am on October 6<sup>th</sup>. For the week ending October 8<sup>th</sup>, 21.52" of rain fell at [Red Hook Bay](#) on Saint Thomas, representing the highest weekly rainfall across the U.S. Virgin Islands for the month of October." (Excerpts from SJU's climate reports ... for more local climate details ... see <http://www.srh.noaa.gov/sju/?n=oct2010cr>)*

Widespread flooding was experienced just about everywhere across the forecast area during the month of October; the question was just the order of magnitude. The U.S. Virgin Islands was once again pounded with flooding reported across all of the islands; St. Croix, St. John and St. Thomas where some evacuations took place and significant flooding was reported in downtown Charlotte Amalie early in the month in response to over 6.50 inches of rain from one event.

In Puerto Rico, significant flooding was also reported throughout the month of October with a wide range of problems; from flash floods to areal river flooding and land/mudslides leading to evacuations, road closures and lots of emergency operations.

The most serious flooding was in the western and southern sections of the island; river flooding and land slides in the Utuado, Anasco, Aguada and Aguadilla areas and flash flooding in the Ponce, Yauco and Salinas areas.

(See the LSRs and E3 flood stage reports for details)

## LSRs for the month of October

### A few significant flood events are posted below.

1034 PM FLASH FLOOD SALINAS 17.98N 66.30W  
10/07/2010 SALINAS PR EMERGENCY MNGR

RESIDENCE FLOODED ON HIGHWAY 3 ENTERING BY THE BAKERY LA GOMERA  
VILLA LARES

1130 PM FLASH FLOOD SALINAS 17.98N 66.30W  
10/07/2010 SALINAS PR EMERGENCY MNGR

HOME FLOODED ON HIGHWAY 3 BARRIADA LOPEZ -- HIGHWAY 3  
ENROUTE TO GUAYAMA IMPASSABLE

0347 AM FLASH FLOOD 4 NW SAN GERMAN 18.13N 67.09W  
10/08/2010 SAN GERMAN PR EMERGENCY MNGR

HOME FLOODED ON HIGHWAY 347 IN BARRIO COTTO OF SAN GERMAN

0527 AM AVALANCHE PONCE 17.99N 66.61W  
10/08/2010 PONCE PR EMERGENCY MNGR

FLOODING IN COMUNIDAD LA YUCA CLOSE TO LAS COLINAS MOTEL

0640 AM AVALANCHE 5 SE ANASCO 18.24N 67.08W  
10/08/2010 MAYAGUEZ PR EMERGENCY MNGR

MUDSLIDE ON HIGHWAY 108 KM 14 CLOSE TO LEHONERA CACEI  
BARRIO LEGUISAMO

0640 AM AVALANCHE 3 SE CAYEY 18.09N 66.13W  
10/08/2010 CAYEY PR EMERGENCY MNGR

MUDSLIDE ACROSS HIGHWAY 15

0154 PM FLASH FLOOD 6 WNW CAROLINA 18.45N 66.06W  
10/09/2010 SAN JUAN PR EMERGENCY MNGR

AVENIDA BALDORIOTY FLOODED NEAR LA CASTROVINA

0823 PM FLASH FLOOD 4 E HORMIGUEROS 18.14N 67.06W  
10/09/2010 SAN GERMAN PR EMERGENCY MNGR

HIGHWAY 114 FLOODED ONE TRUCK STRANDED ENROUTE FROM SAN

GERMAN TO MAYAGUEZ

0742 AM FLASH FLOOD YAUCO 18.04N 66.86W  
10/08/2010 YAUCO PR EMERGENCY MNGR

ROUTES 368...121 AND 335 FLOODED DUE TO RIO LOCO OUT OF ITS BANKS.

0928 AM FLASH FLOOD PONCE 17.99N 66.61W  
10/08/2010 PONCE PR EMERGENCY MNGR

HIGHWAYS 1 AND 2 FLOODED IN PONCE. TIBES...INABON AND CANAS RIVERS OUT OF THEIR BANKS.

1000 AM FLASH FLOOD VEGA BAJA 18.44N 66.40W  
10/08/2010 VEGA BAJA PR EMERGENCY MNGR

INDIO RIVER OUT OF ITS BANKS IMPACTING ROAD 160.

1033 AM FLOOD ANASCO 18.29N 67.14W  
10/08/2010 ANASCO PR EMERGENCY MNGR

SEVERAL FAMILIES WERE EVACUATED DUE TO FLOODING IN THE PAGAN...POZO HONDO AND ESPINO COMMUNITIES DUE TO THE ANASCO RIVER OUT OF ITS BANKS.

1033 AM FLOOD ANASCO 18.29N 67.14W  
10/08/2010 ANASCO PR EMERGENCY MNGR

ROAD 109 NEAR THE INTERSECTION WITH HIGHWAY 2 FLOODED DUE TO THE ANASCO RIVER OUT OF ITS BANKS.

1033 AM FLOOD AGUADA 18.38N 67.19W  
10/08/2010 AGUADA PR EMERGENCY MNGR

ROAD 115 FLOODED DUE TO CULEBRINAS RIVER OUT OF ITS BANKS.

1033 AM FLOOD AGUADILLA 18.44N 67.15W  
10/08/2010 AGUADILLA PR EMERGENCY MNGR

ROAD 459 FLOODED DUE TO HEAVY RAINFALL EARLIER IN THE DAY.

1205 AM HEAVY RAIN CHARLOTTE AMALIE 18.34N 64.93W  
10/06/2010 6.61 INCH SAINT THOMAS VI EMERGENCY MNGR

HEAVY RAINFALL WITH MEASURED RAINFALL ACCUMULATIONS SO FAR IN EXCESS OF 6 INCHES IN SOME AREAS... LEAD TO FLOODING OF HOMES IN THE DOWNTOWN AREA OF SAINT THOMAS U.S.VIRGIN ISLANDS. SEVERAL FAMILIES WERE EVACUATED DUE TO FLOODED HOMES BASED ON INFORMATION RECEIVED FROM THE 911 LOCAL EMERGENCY MANAGERS.

0500 PM AVALANCHE UTUADO 18.27N 66.71W

10/03/2010 UTUADO PR NEWSPAPER

VARIOUS MUDSLIDES OCCURRED DURING THE DAY. ONE BLOCKED ROUTE 10 BETWEEN UTUADO AND ARECIBO AT KM 64. ANOTHER OCCURRED ON ROUTE 111 AT KM 2.2. ANOTHER MUDSLIDE OCCURRED ON ROAD 612 IN BARRIO ALONSO. THERE WERE ALSO MUDSLIDES ON HIGHWAY 607 AT KM 4.8 AND HIGHWAY 140 AT KM 20.2. NEWSPAPER CITED EMERGENCY MANAGER AS SOURCE.

0500 PM AVALANCHE CABO ROJO 18.09N 67.15W  
10/03/2010 CABO ROJO PR NEWSPAPER

A MUDSLIDE OCCURRED ON BRANCH ROUTE 111 THAT BLOCKED THE ROAD. EMERGENCY MANAGER WAS CITED AS SOURCE OF REPORT. EXACT TIME WAS NOT GIVEN.

0335 PM FLASH FLOOD PONCE 17.99N 66.61W  
10/17/2010 PONCE PR EMERGENCY MNGR

ROUTE 505 CLOSED DUE TO DE LA YUCA RIVER OUT OF ITS BANKS.

1130 AM AVALANCHE ARROYO 17.97N 66.06W  
10/07/2010 ARROYO PR EMERGENCY MNGR

LANDSLIDE ALONG ROAD 753 AT BARRIO PALMAREJO.

The approximate amounts of Hydrologic Products issued during the month of October are as follows:

**Table 1 - Hydrologic Products Issued**

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	7
Flood Watches (SJUFFASJU)	27
Flood Warnings (SJUFLWSJU)	57
Flash Flood Warnings (SJUFFWSJU)	50
Flash Flood Statements (SJUFFSSJU)	29
Urban/Small Stream Flood Advisories (SJUFLSSJU)	168

For monthly "radar totals" use the archive of the Advanced Hydrologic Prediction Service (AHPS) - click on Puerto Rico and request the duration you would like to view...daily or monthly remembering that the 24 hour totals are from 12z – 12z (8am to 8am in PR) - [AHPS archive of radar totals/ images](#). Here are the [October 2010 totals](#).