

ACCA72 TJSJ 040037 CCA
PSHSJU

POST TROPICAL CYCLONE REPORT...MARIA
NATIONAL WEATHER SERVICE SAN JUAN PR
943 AM AST SAT SEP 30 2017

NOTE: THE DATA SHOWN HERE ARE PRELIMINARY...AND SUBJECT TO UPDATES
AND CORRECTIONS AS APPROPRIATE.

THIS REPORT INCLUDES EVENTS OCCURRING WHEN WATCHES AND/OR WARNINGS
WERE IN EFFECT...OR WHEN SIGNIFICANT FLOODING ASSOCIATED WITH MARIA
OR ITS REMNANTS WAS AFFECTING THE AREA.

COUNTIES INCLUDED...AJUNTAS...AGUADA...AGUADILLA...AGUAS BUENAS...
AIBONITO...ANASCO...ARECIBO...ARROYO...BARCELONETA...BARRANQUITAS...
BAYAMON...CABO ROJO...CAGUAS...CAMUY...CANOVANAS...CAROLINA...
CATANO...CAYEY...CEIBA...CIALES...CIDRA...COAMO...COMERIO...
COROZAL...CULEBRA...DORADO...FAJARDO...FLORIDA...GUANICA...
GUAYAMA...GUAYANILLA...GUAYNABO...GURABO...HATILLO...HORMIGUEROS...
HUMACAO...ISABELA...JAYUYA...JUANA DIAZ...JUNCOS...LAJAS...LARES...
LAS MARIAS...LAS PIEDRAS...LOIZA...LUQUILLO...MANATI...MARICAO...
MAUNABO...MAYAGUEZ...MOCA...MOROVIS...NAGUABO...NARANJITO...
OROCOVIS...PATILLAS...PENUELAS...PONCE...QUEBRADILLAS...RINCON...
RIO GRANDE...SABANA GRANDE...SALINAS...SAN GERMAN...SAN JUAN...
SAN LORENZO...SAN SEBASTIAN...SANTA ISABEL...TOA ALTA...TOA BAJA...
TRUJILLO ALTO...UTUADO...VEGA ALTA...VEGA BAJA...VIEQUES...
VILLALBA...YABUCOA...YAUCO...ST CROIX...ST JOHN...ST THOMAS

A. LOWEST SEA LEVEL PRESSURE/MAXIMUM SUSTAINED WINDS AND PEAK GUSTS

METAR OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IS 10 METERS AND WIND AVERAGING IS 2 MINUTES

LOCATION ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT LON	PRES	TIME	SUST	TIME	GUST	TIME
DEG DECIMAL	(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)

TJSJ						
18.45 -66.00	986.0	20/0935	025/056	20/0919	025/079	20/0919

TISX						
17.42 -64.48	990.8	20/0153	030/051	20/0235	030/074	20/0200

TIST						
18.33 -64.97	1006.9	19/2153	040/031	19/2215	040/043	19/2153

REMARKS:

NON-METAR OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN
MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN

LOCATION ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT LON	PRES	TIME	SUST	TIME	GUST	TIME
DEG DECIMAL	(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)

XCRX

17.68 -64.90 950.1 20/0538 150/093 20/0628 101/119 20/0508
 10
 CVAV3
 17.74 -64.62 I 090/086 20/0613 090/118 20/0613
 4
 YABP4
 18.05 -66.83 I 160/070 20/1124 160/095 20/1124
 CSAP4
 18.00 -66.29 I 300/055 20/1109 300/103 20/1109
 10
 CRRP4
 17.97 -67.16 I 290/043 20/1857 290/070 20/1857
 10

REMARKS: MOST, IF NOT ALL THE STATIONS FAILED DURING THE PASSAGE OF THE HURRICANE MARIA.

B. MARINE OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN

LOCATION LAT DEG	ID LON DECIMAL	MIN PRES (MB)	DATE/ TIME (UTC)	MAX SUST (KT)	DATE/ TIME (UTC)	PEAK GUST (KT)	DATE/ TIME (UTC)
41053 18.50	-66.10	981.0	20/1320	045/050	20/1020	045/066	20/1020
				4			
41056 18.16	-65.45	977.4	20/0800	070/054	20/0830	070/064	20/0830
				4			
42085 17.86	-66.52	983.0	20/1100	210/051	20/1600	210/068	20/1600
				4			

REMARKS:

C. STORM TOTAL RAINFALL FROM 1200 UTC SEP 19 UNTIL 1200 UTC SEP 21

CITY/TOWN LAT DEG	TOWN LON DECIMAL	COUNTY	ID	RAINFALL (IN)
CAGUAS 18.23	-66.04	CAGUAS	CAIP4	37.90
VILLALBA 18.13	-66.48	VILLALBA	TOXP4	27.82
CAGUAS 18.23	-66.04	CAGUAS	BZDP4	23.43
VILLALBA 18.13	-66.48	VILLALBA	VINP4	22.95
AIBONITO 18.14	-66.27	AIBONITO	AIBP4	22.79
CIALES 18.33	-66.47	CIALES	VILP4	19.23

CAGUAS 18.23 -66.04	CAGUAS	BZCP4	18.51
UTUADO 18.27 -66.70	UTUADO	VIVP4	18.38
COMERIO 18.22 -66.22	COMERIO	COMP4	17.50
YAUCO 18.03 -66.86	YAUCO	LLYP4	16.73
SAN LORENZO 18.19 -65.97	SAN LORENZO	SLGP4	16.52
BAYAMON 18.38 -66.16	BAYAMON	BAYP4	16.36
SAN LORENZO 18.19 -65.97	SAN LORENZO	SLEP4	15.22
ARECIBO 18.45 -66.73	ARECIBO	ARFP4	14.71
CAGUAS 18.23 -66.04	CAGUAS	CAMP4	13.56
CIDRA 18.17 -66.16	CIDRA	DRAP4	12.17
AGUAS BUENAS 18.25 -66.11	AGUAS BUENAS	BZAP4	12.15
PONCE 17.98 -66.61	PONCE	PRTP4	11.65
SAN GERMAN 18.08 -67.05	SAN GERMAN	MAOP4	11.12
PONCE 17.98 -66.61	PONCE	PRNP4	10.47
UTUADO 18.27 -66.70	UTUADO	UTHP4	10.11
CABO ROJO 18.08 -67.15	CABO ROJO	CRRP4	7.92
SALINAS 17.97 -66.30	SALINAS	CSAP4	7.56
GUANICA 17.97 -66.93	GUANICA	GCAP4	7.12
LARES 18.29 -66.88	LARES	LARP4	6.91
NAGUABO 18.21 -65.74	NAGUABO	NGIP4	6.31
CHRISTIANSTED 17.74 -64.71	SAINT CROIX	CVAV3	5.03

REMARKS:

D. INLAND FLOODING...

 PUERTO RICO...FLOODS ARE GENERALLY CATEGORIZED BASED ON THE LEVEL OF THEIR IMPACTS, AND THE EXTREME RAINFALL FLOODING EVENT CAUSED BY HURRICANE MARIA IN PUERTO RICO CAN BE CONSIDERED AS CATASTROPHIC DUE TO THE NUMEROUS EVACUATION AND RESCUES PERFORMED, OVERWHELMING OVERFLOWING OF RIVERS AND TRIBUTARIES, MEDIUM TO LARGE SCALE MUDSLIDES AND THE EXTENSIVE DAMAGE TO STRUCTURES, AS WELL AS ROADS AND BRIDGES. IN FACT, STREAMFLOW DATA FROM THE U.S. GEOLOGICAL SURVEY SHOWED THAT 53 OUT OF 65 RIVER GAUGES MET OR EXCEEDED FLOOD STAGE. AMONG THESE RIVERS, 30 EXCEEDED MAJOR FLOOD STAGE WHILE 13 REACHED OR EXCEEDED ALL-TIME RECORD LEVEL. WIDESPREAD RIVER FLOODING WAS OBSERVED ACROSS THE ISLAND, PARTICULARLY ALONG THE SOUTHEASTERN, NORTHERN AND WESTERN PORTIONS OF PUERTO RICO.

E. MAXIMUM STORM SURGE AND STORM TIDE...
 OFFICIAL TIDE GAUGES NOTED WITH LEADING G

COUNTY	CITY/TOWN OR LOCATION	SURGE (FT)	TIDE (FT)	DATE/TIME	BEACH EROSION
YABUCOA	G YABUCOA	5.44	5.68	20/1118	MAJOR
SAINT CROIX	G LIME TREE BAY	2.85	3.17	20/0318	MODERATE
PUERTO RICO	G MONA ISLAND	2.54	2.80	21/0148	MODERATE
SAN JUAN	G PUNTILLA	2.35	3.18	20/1206	MODERATE
FAJARDO	G FAJARDO	3.17	3.01	20/0842	MINOR
VIEQUES	G ISABEL SEGUNDA	2.86	2.66	20/0800	MINOR
SAINT CROIX	G CHRISTIANSTED	2.27	2.37	20/0248	MINOR
ARECIBO	ARECIBO	2.40	2.79	20/1418	MINOR
MAYAGUEZ	G MAYAGUEZ	2.56	2.19	20/1742	MINOR
ST JOHN	G LAMESHUR BAY	1.48	1.59	20/0848	MINOR
CULEBRA	G CULEBRA	1.56	1.68	20/0900	MINOR

REMARKS:

F. TORNADOES...

(DIST)CITY/TOWN LAT LON (DEG DECIMAL) DESCRIPTION	COUNTY	DATE/ TIME(UTC)	EF SCALE (IF KNOWN)

G. STORM IMPACTS BY COUNTY...

COUNTY DESCRIPTION	DEATHS	INJURIES	EVACUATIONS

DURING A SURVEY OF AREAS ALONG THE PATH OF HURRICANE MARIA CENTER IT WAS EVIDENT THAT CATASTROPHIC DAMAGE HAD OCCURRED. MARIA'S STRONG WINDS SPREAD LARGE AMOUNTS OF DEBRIS ACROSS THE ENTIRE AREA. ALL FULL TREES WERE LEAFLESS, AND THOSE THAT WERE NOT SNAPPED OR UPROOTED BY MARIA'S STRONG WINDS, LOST MEDIUM TO LARGE BRANCHES. DURING THE INTERVIEW PROCESS, STORIES AND IMAGES WERE PARTICULARLY SIMILAR. NUMEROUS LOCALS REPORTED THAT THEY FELT THE GROUND SHAKING AS MARIA CROSSED THE ISLAND, WHILE MOST WERE AMAZED BY THE FORCE OF THE UNPRECEDENTED STRONG WINDS THAT NOT ONLY TRANSFORMED THEIR SURROUNDINGS BUT THEIR LIVES. ALTHOUGH MOST STRUCTURES ACROSS THE ISLAND ARE BUILT USING CONCRETE AS THE MAIN MATERIAL, COUNTLESS HOMES AND BUILDINGS SUSTAINED SOME TYPE OF STRUCTURAL DAMAGE. STRUCTURES WITHOUT A CONCRETE ROOF SUFFERED SOME TYPE OF ROOF DAMAGE OR IT WAS COMPLETELY BLOWN OFF. NEARLY ALL COMMERCIAL SIGNAGE, FENCES, AND CANOPIES WERE DESTROYED, INCLUDING LARGE DIGITAL HIGH DEFINITION BILLBOARDS. THE LAST TIME THAT PUERTO RICO EXPERIENCED A CATEGORY 4 OR MORE HURRICANE WAS BACK ON 1928 WITH HURRICANE SAN FELIPE II.

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LEGEND:

I-INCOMPLETE DATA

E-ESTIMATED

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