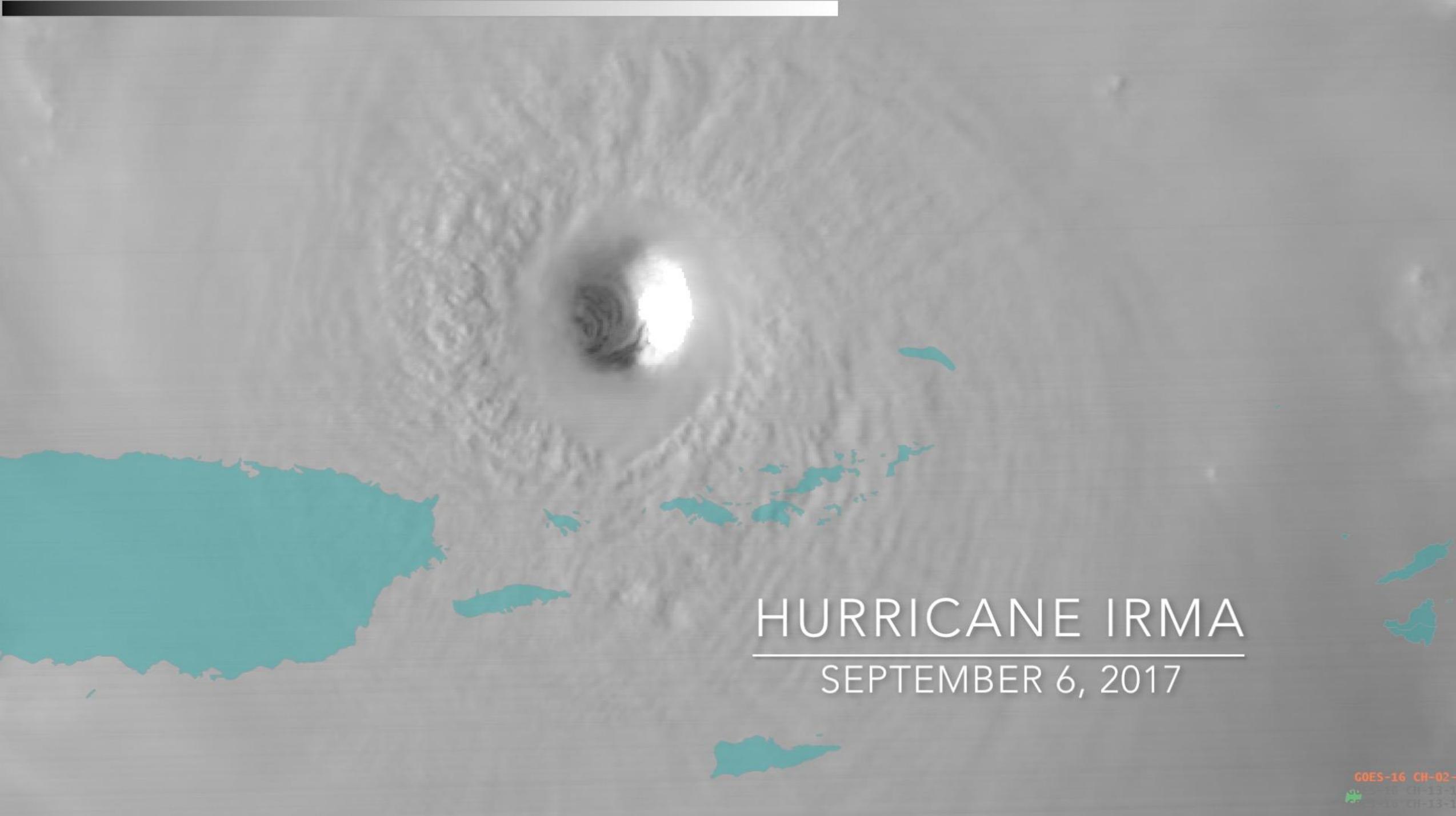


HURACAN MARIA Y PUERTO RICO QUE PASO? COMO ESTAMOS?

FORMACION/DESARROLLO



HURRICANE IRMA

SEPTEMBER 6, 2017



Two-Day Graphical Tropical Weather Outlook

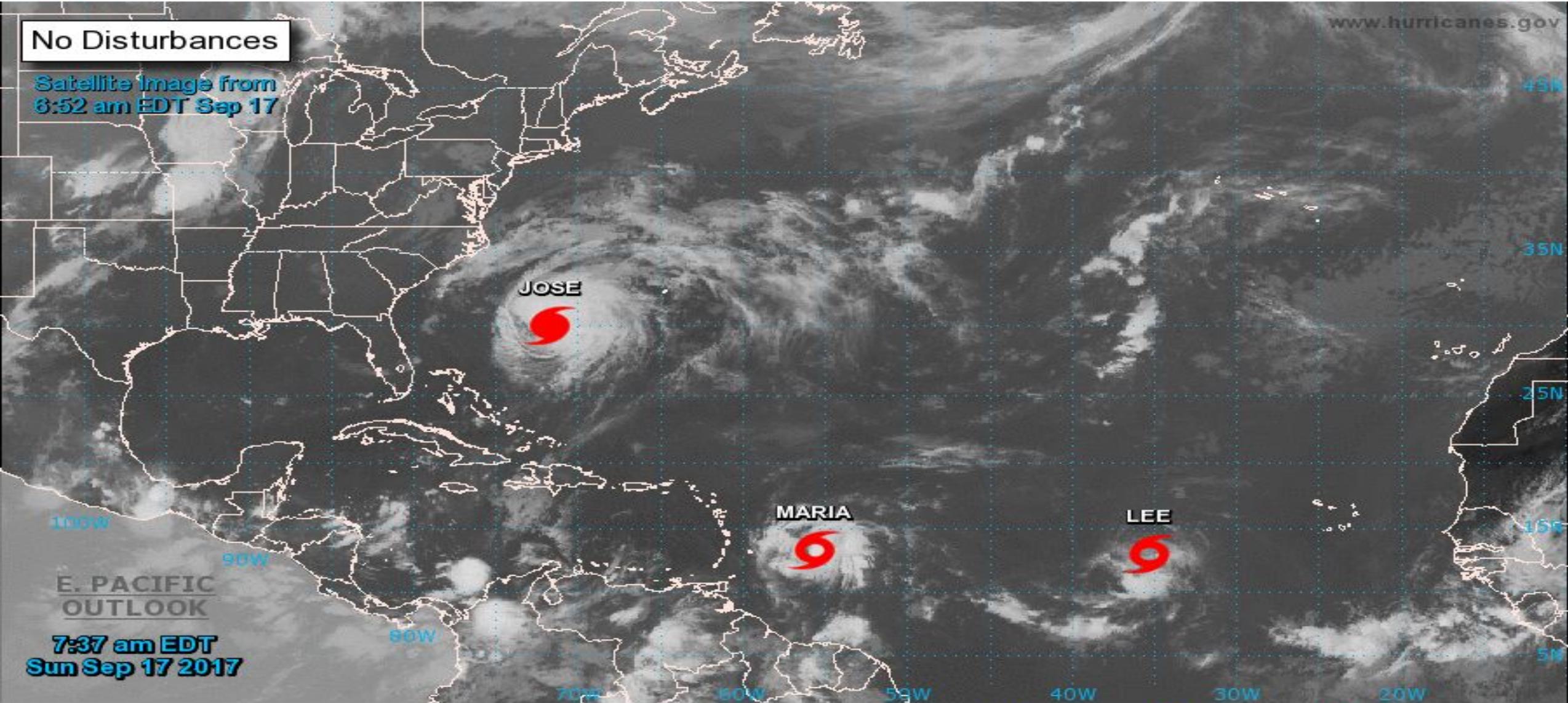
National Hurricane Center Miami, Florida



www.hurricanes.gov

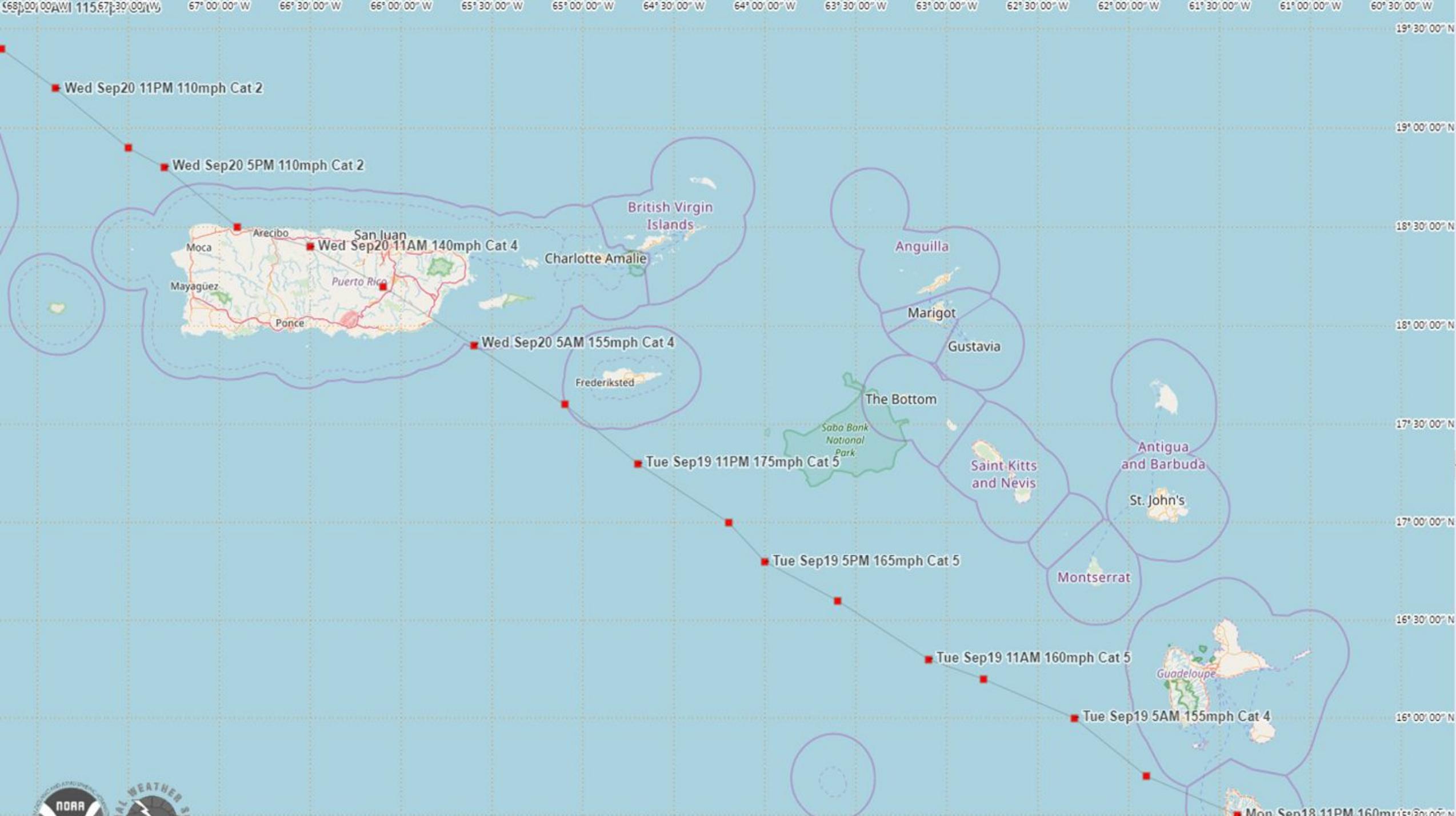
No Disturbances

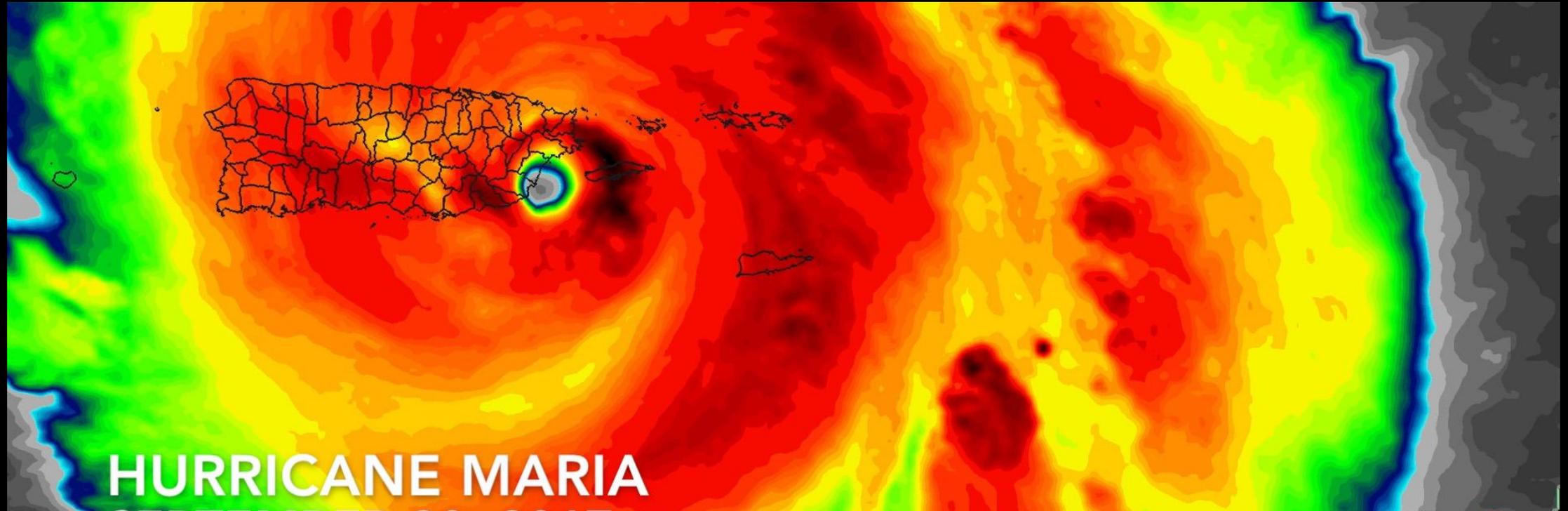
Satellite Image from
6:52 am EDT Sep 17



E. PACIFIC
OUTLOOK
7:37 am EDT
Sun Sep 17 2017

Current Disturbances and Two-Day Cyclone Formation Chance: < 40% 40-60% > 60%
 Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane
 Post-Tropical Cyclone Remnants





HURACAN MARIA Y PUERTO RICO QUE PASO? COMO ESTAMOS?

OBSERVACIONES

Maximum Wind Gust (MPH) measured during Hurricane Maria

Most of the stations failed during the hurricane



Maximum Storm Surge (feet above MSL) during Hurricane Maria

Data: NOAA National Ocean Service





Hurricane María Estimated Rainfall

National Weather Service WFO San Juan

Data Source: USGS, COOP, RAWS

48-hr Total Sept. 19 to Sept. 21, 2017

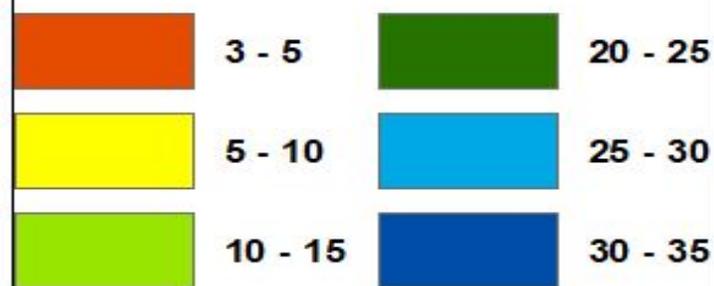
Data is Preliminary



*Many of our stations were not able to report due to the damages sustained by Hurricane María.



Rainfall (inches)



Saint Thomas / Saint John



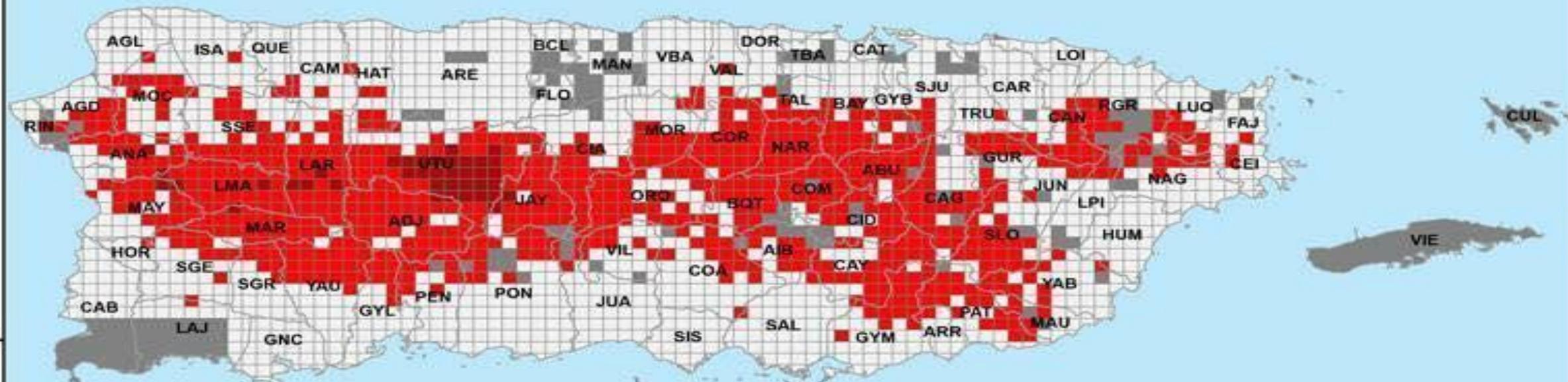
Saint Croix



Station	Flood Stage	Stage Height	Rank
RIO CIBUCO AT VEGA BAJA, PR	15	19.98	1
RIO GRANDE DE ARECIBO NR SAN PEDRO, PR	11	21.96	1
RIO CULEBRINAS AT MARGARITA DAMSITE NR AGUADA, PR	15	21.99	1
RIO GURABO BLW EL MANGO, PR	18	23.78	1
RIO DE LA PLATA AT COMERIO, PR	11	34.86	1
RIO DE LA PLATA BLW LA PLATA DAMSITE, PR	16	44.63	1
RIO PORTUGUES NR TIBES, PR	14	14.04	2
RIO ROSARIO NR HORMIGUEROS, PR	10	19.50	2
RIO GRANDE DE ARECIBO BLW UTUADO, PR	14	24.54	2
RIO GUANAJIBO NR HORMIGUEROS, PR	20	28.50	2
RIO DE LA PLATA AT HWY 2 NR TOA ALTA, PR	16	28.56	2
RIO GRANDE DE MANATI NR MOROVIS, PR	10	18.55	3
RIO COAMO AT HWY 14 AT COAMO, PR	10	20.34	3
RIO GRANDE DE MANATI AT CIALES, PR	10	28.33	3
RIO GRANDE DE ANASCO NR SAN SEBASTIAN, PR	11	31.36	3
RIO CERRILLOS ABV LAGO CERRILLOS NR PONCE, PR	6	11.77	4
RIO CULEBRINAS AT HWY 404 NR MOCA, PR	24	33.18	4



Map showing concentration of landslides caused by Hurricane Maria, Puerto Rico



Explanation

Legal Municipalities



Landslide Density



Not Examined



No Landslides



Less than 25 per SqKm



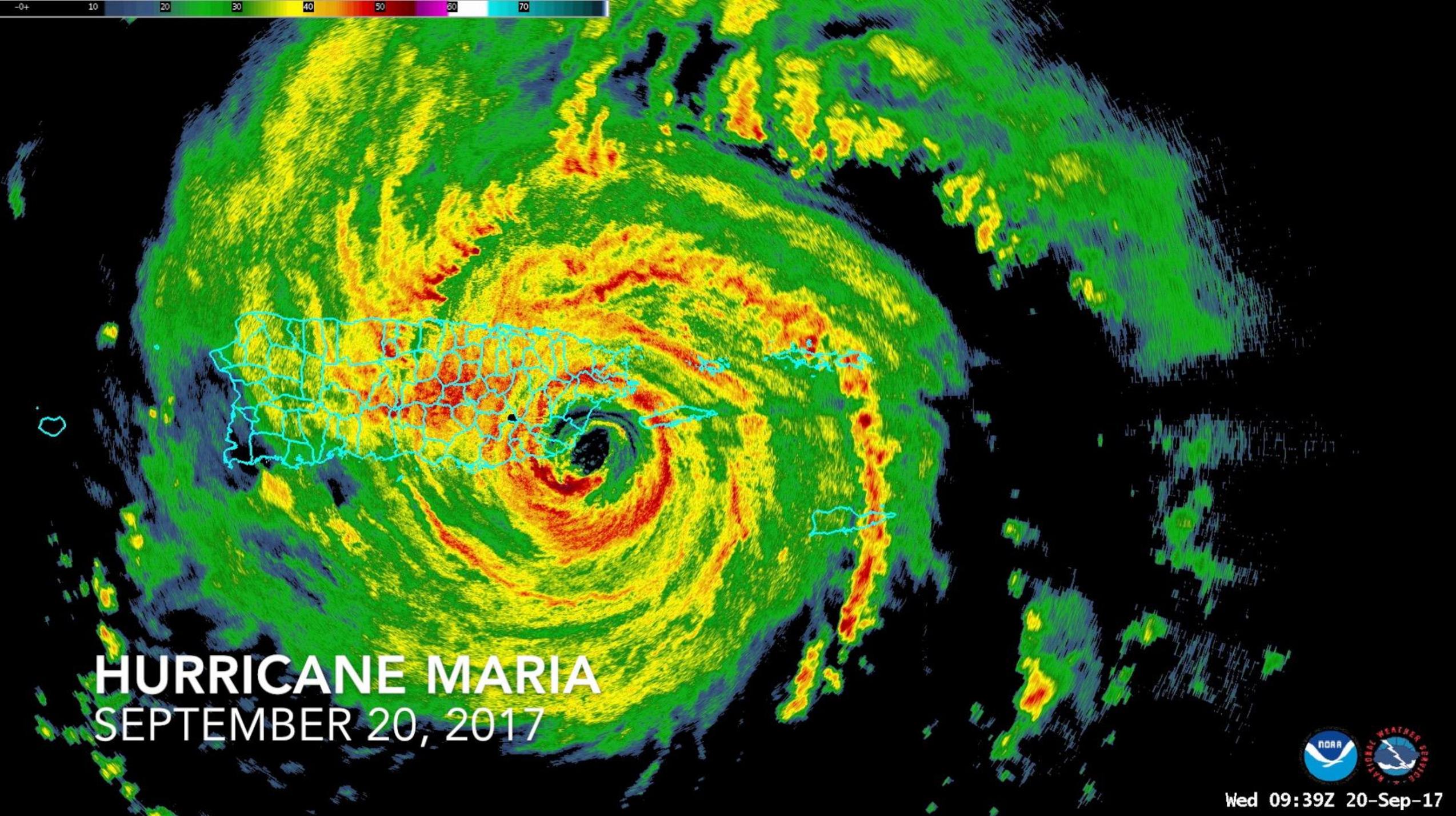
More than 25 per SqKm

0 5 10 20 Miles

0 5 10 20 Kilometers

Date: 10/23/2017

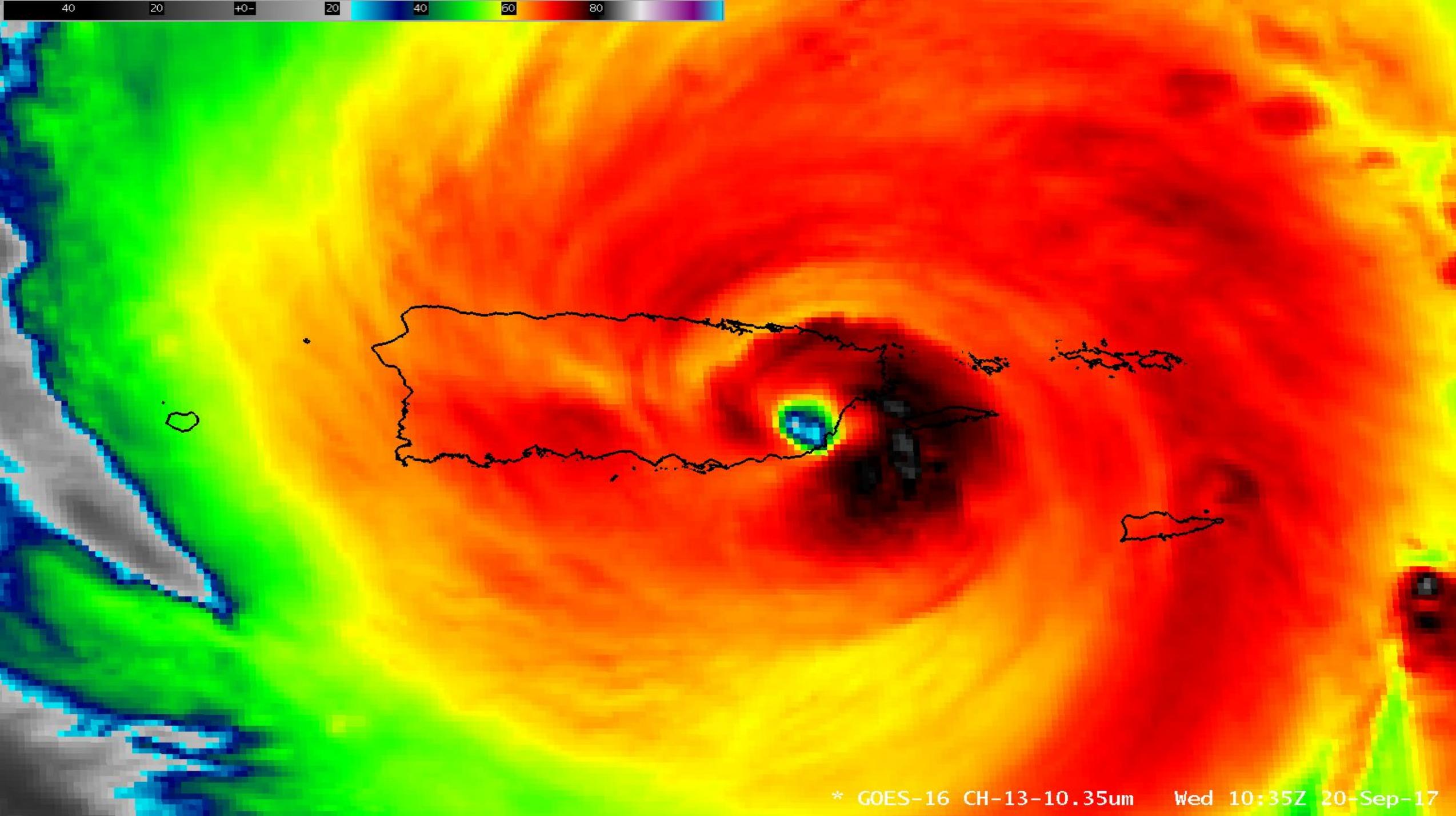
Source - Bessette-Kirton, E.K., Coe, J.A., Godt, J.W., Kean, J.W., Rengers, F.K., Schulz, W.H., Baum, R.L., Jones, E.S., and Staley, D.M., 2017. Map data showing concentration of landslides caused by Hurricane Maria in Puerto Rico: U.S. Geological Survey data release, <https://doi.org/10.5066/F7JD4VRF>



HURRICANE MARIA

SEPTEMBER 20, 2017





* GOES-16 CH-13-10.35um Wed 10:35Z 20-Sep-17

68°W

66°W

64°W

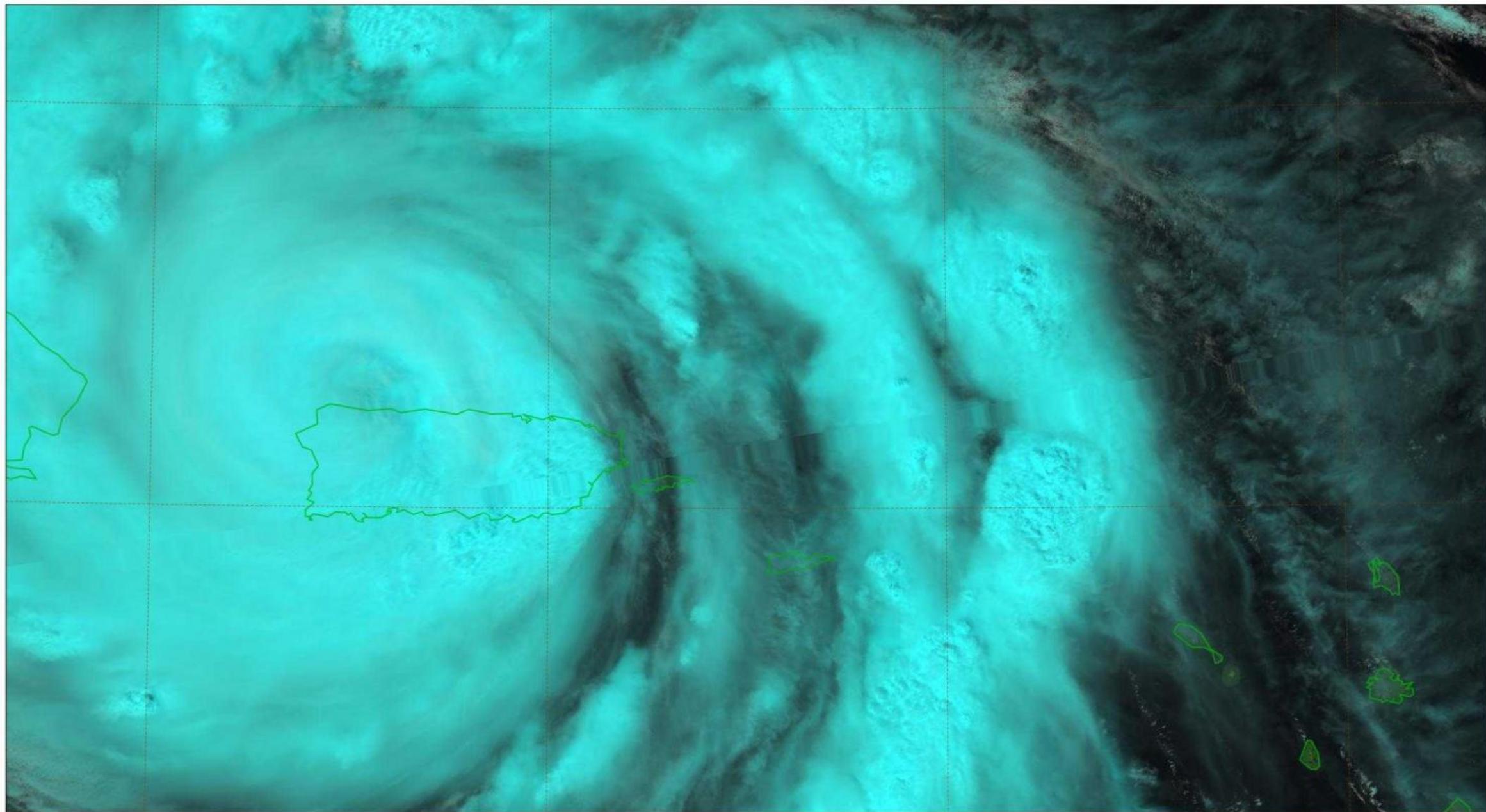
62°W

20°N

20°N

18°N

18°N

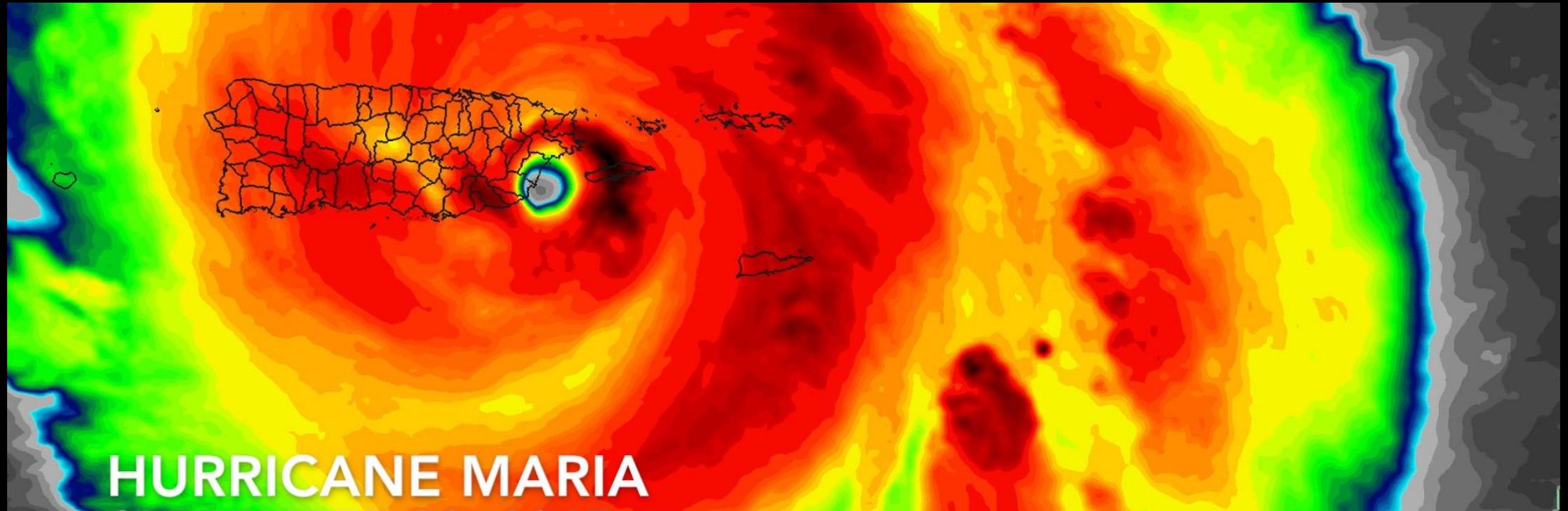


68°W

66°W

64°W

62°W

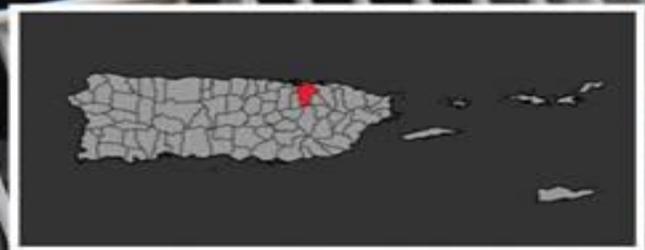


HURACAN MARIA Y PUERTO RICO QUE PASO? COMO ESTAMOS?

IMPACTOS; VIENTOS



**Muñoz Rivera Ave.
San Juan, PR**



Cidra, PR





Aibonito, PR



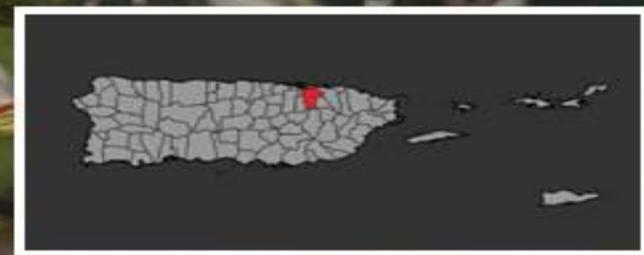


Barranquitas, PR





**Jesus T. Piñero Ave.
San Juan, PR**





Cidra, PR



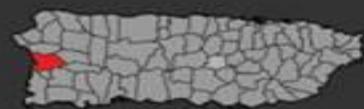


**Égida de la Asociación de La Policía de Maunabo
Maunabo, PR**



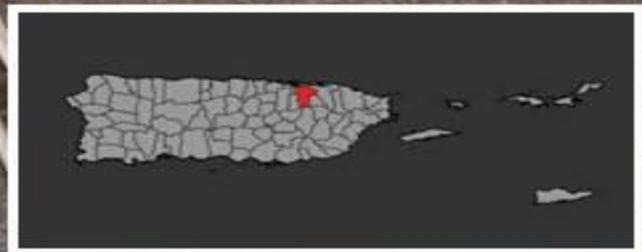


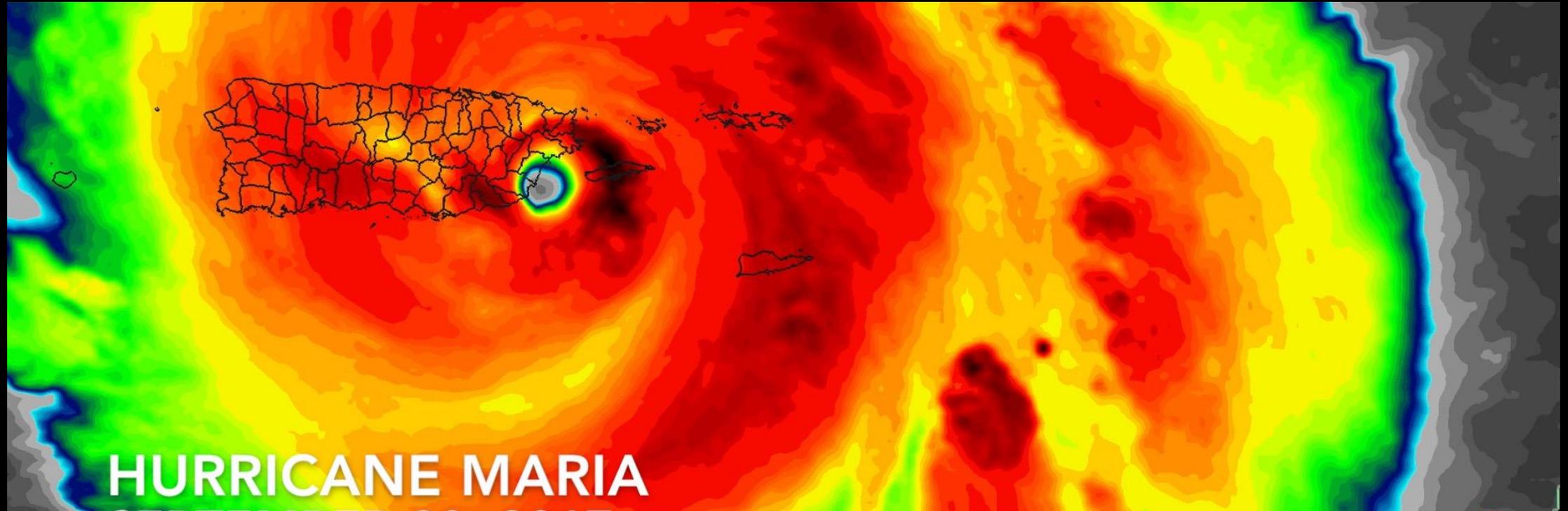
Mayaguez, PR





San Juan, PR





HURACAN MARIA Y PUERTO RICO QUE PASO? COMO ESTAMOS?

IMPACTOS; LLUVIA

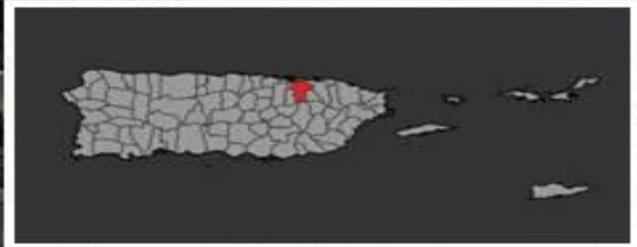


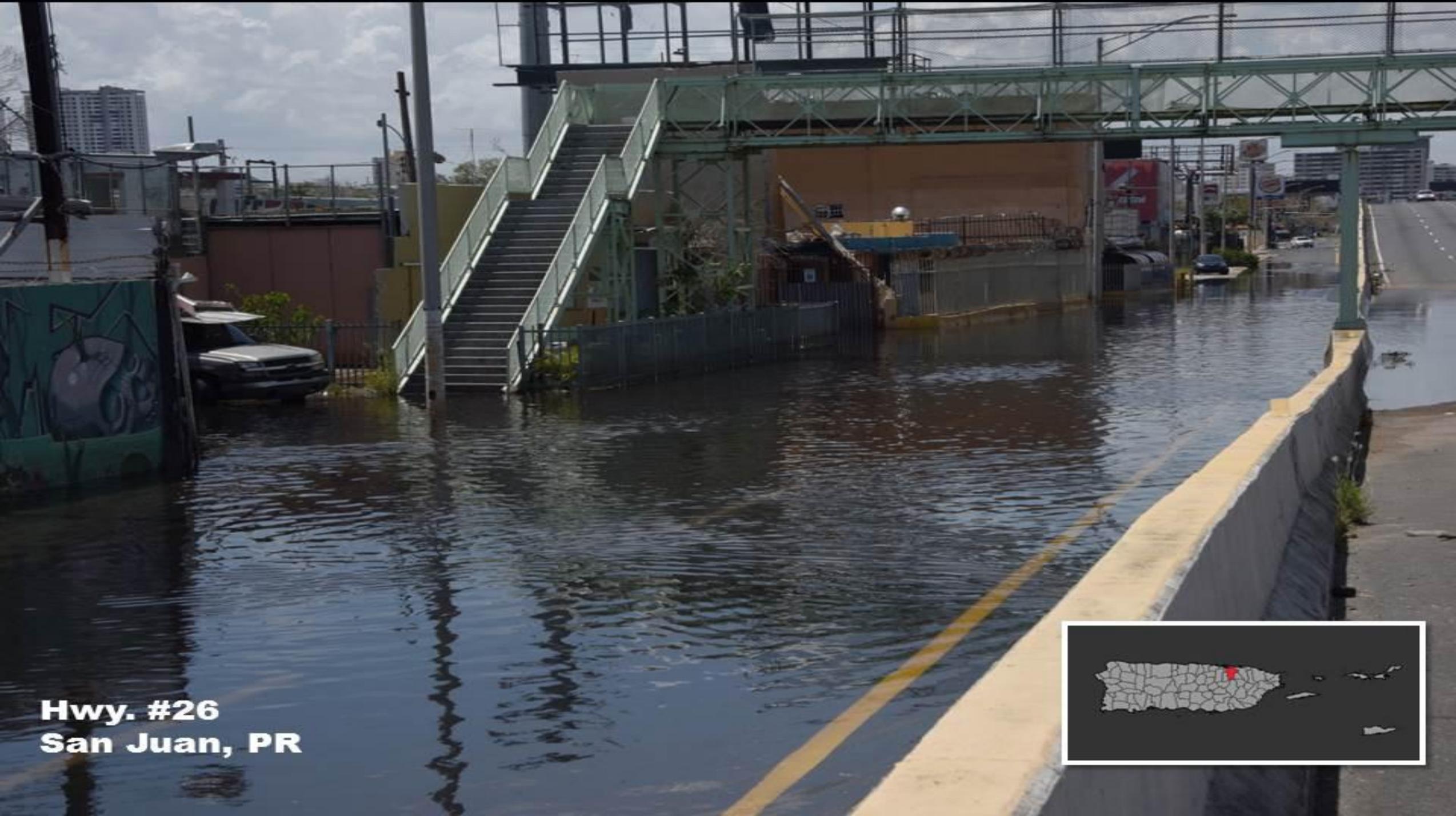
Hwy. #26
San Juan, PR





**McCleary Street
San Juan, PR**



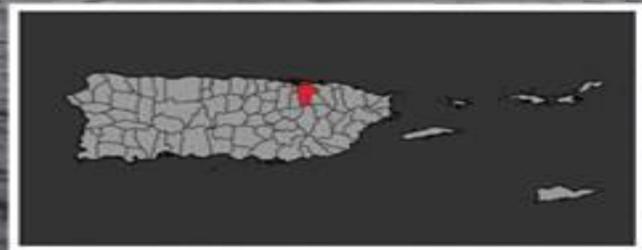


Hwy. #26
San Juan, PR





**Loiza Street
San Juan, PR**





Jayuya, PR





Jayuya, PR





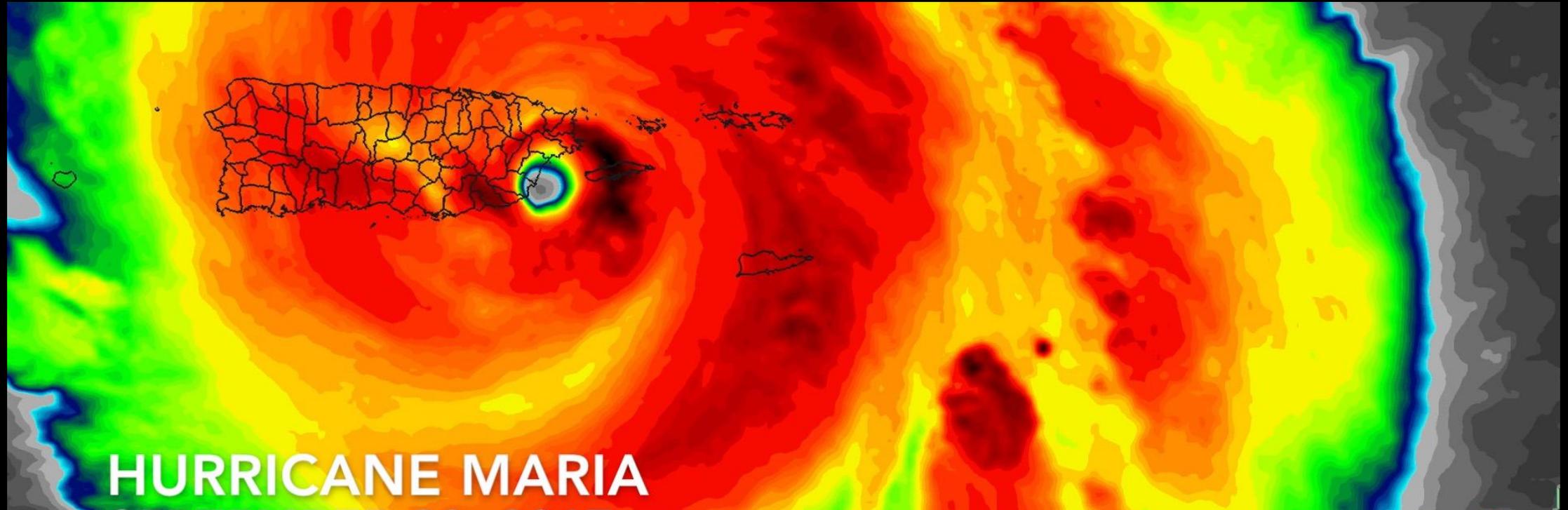
Jayuya, PR





Jayuya, PR





HURACAN MARIA Y PUERTO RICO QUE PASO? COMO ESTAMOS?

IMPACTOS; MAREJADA CICLONICA/OLEAJE



**El Mani
Mayaguez, PR**

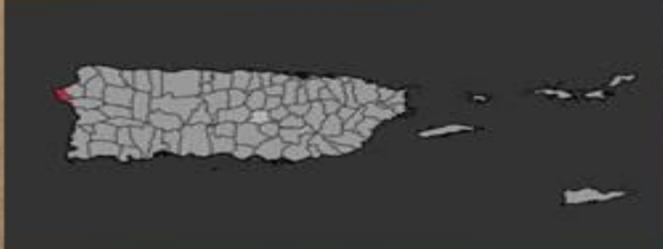




Estos
contenedores
son mantenidos
por nosotros de
seguridad las
24 horas



Rincon, PR





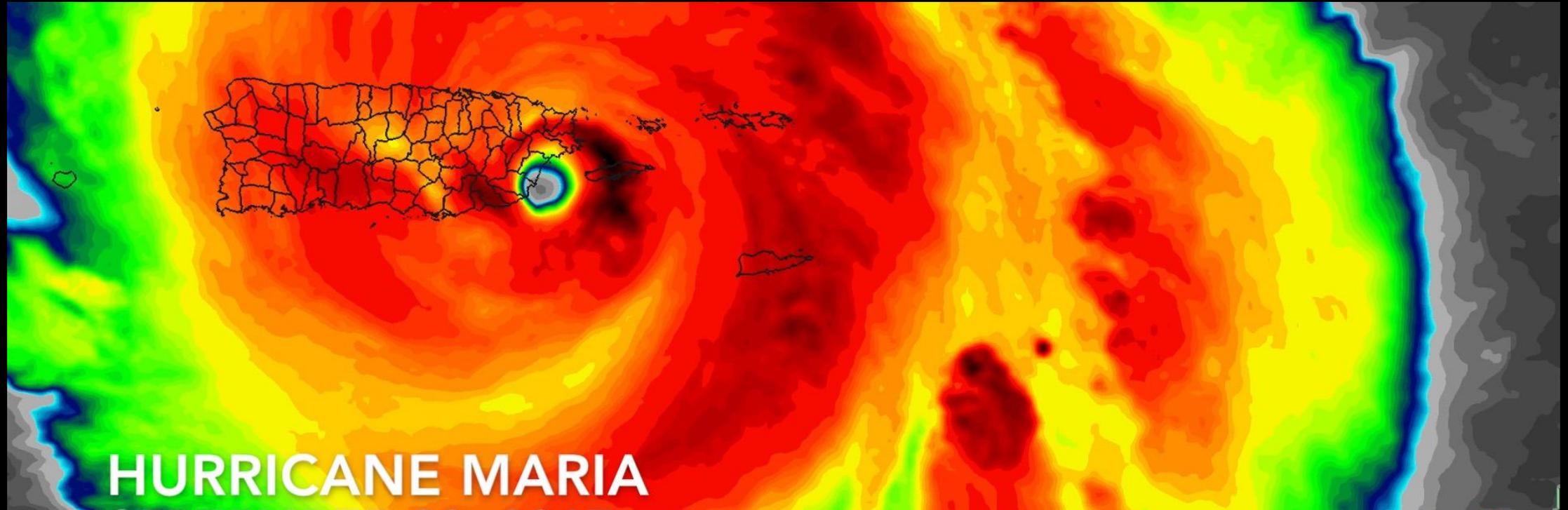
Rincon, PR





Rincon, PR

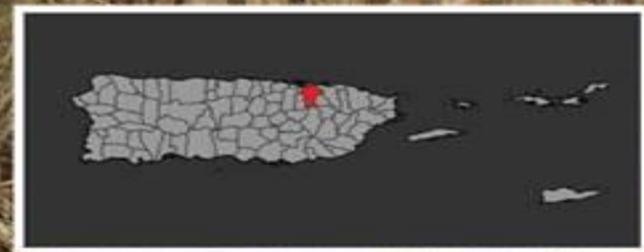




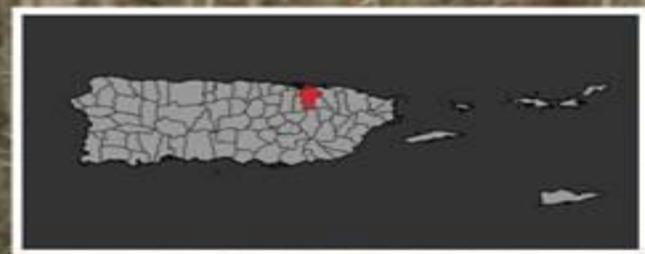
HURACAN MARIA Y PUERTO RICO QUE PASO? COMO ESTAMOS?

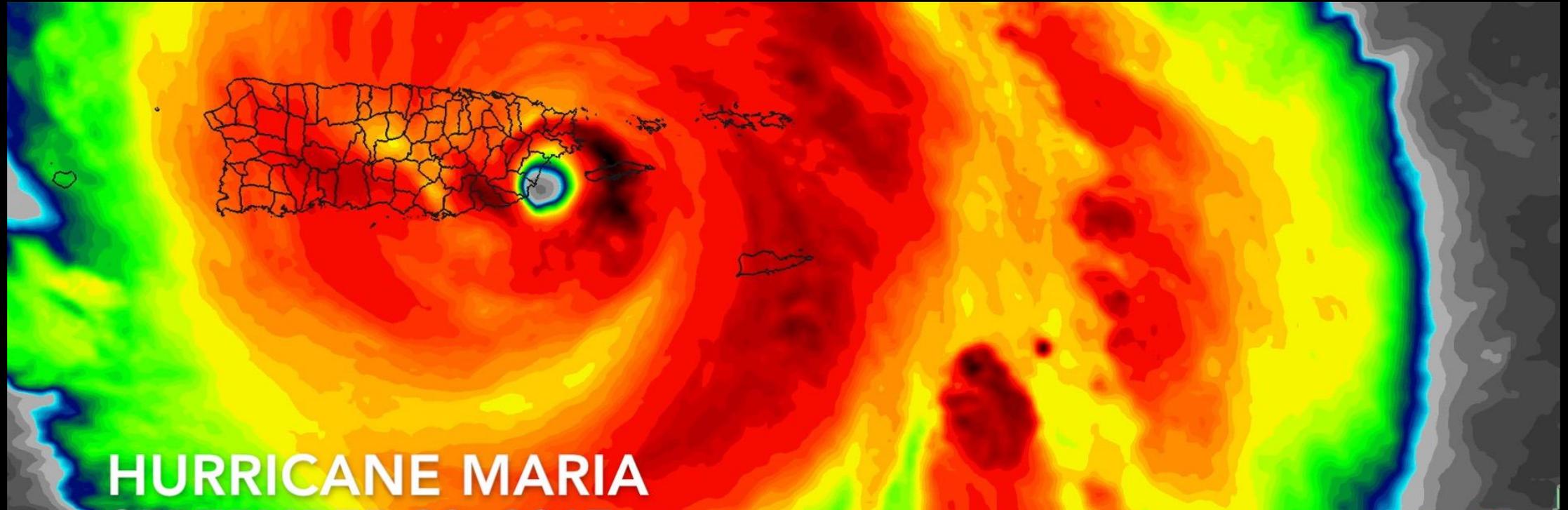
IMPACTOS; FLORA

**#52 Highway Caimito
San Juan, PR**



Highway 52 Caimito
San Juan, PR



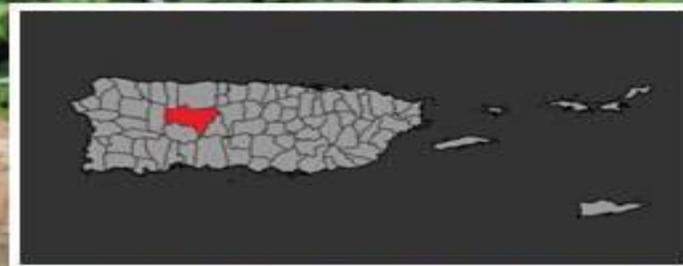


HURACAN MARIA Y PUERTO RICO QUE PASO? COMO ESTAMOS?

IMPACTOS; DESLIZAMIENTOS DE TIERRA



Utuado, PR





Utuado, PR





Utuado, PR



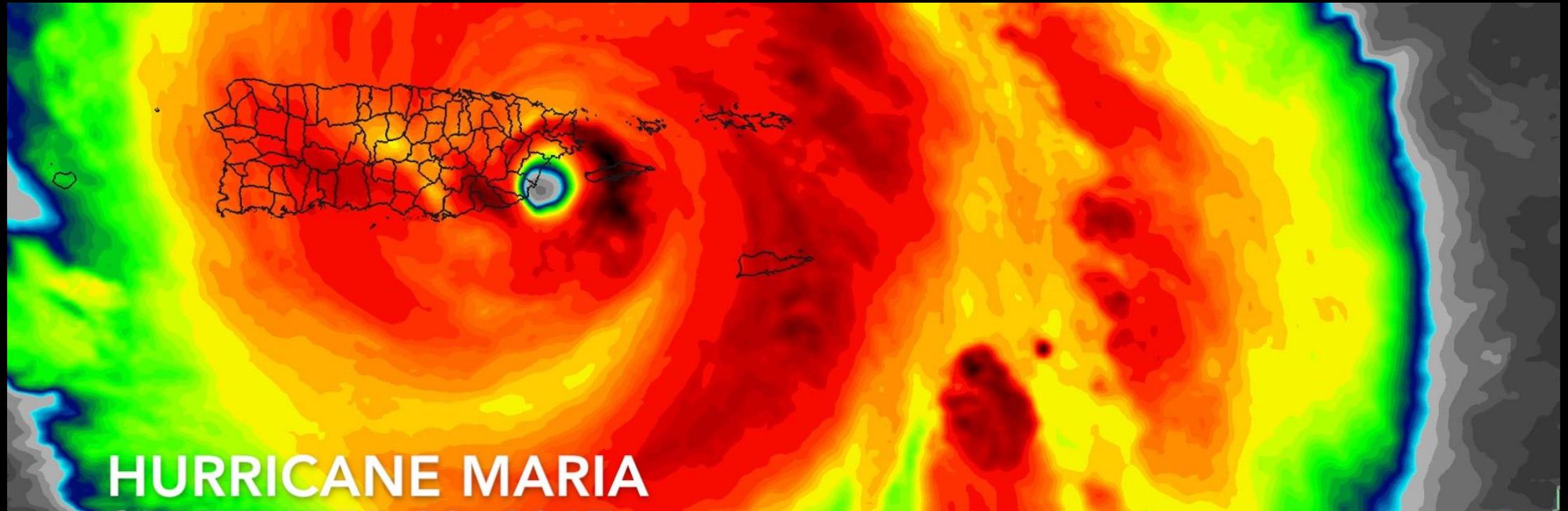


Utuado, PR





BARRANQUITAS
PUERTO RICO



HURACAN MARIA Y PUERTO RICO QUE PASO? COMO ESTAMOS?

LUZ AL FINAL DEL TUNEL







National Weather Service

ONE WAY

NWS STAFF

♿



NOAA
National
Weather
Service



!Gracias...Thank you...!

