

Marie González

Emergency Response Planner Federal Emergency Management Agency Wednesday, May 15, 2019





Hurricane María Historic Response



Longest sustained domestic air mission of food and water in U.S. history

62 days



Largest disaster air mission in U.S. history

Sorties 4,679



Largest disaster commodity mission in U.S. history

72.97 million liters of water,
63.24 million meals and continuing



Largest disaster generator mission in U.S. history

2,044 generators installed



One of, if not the, largest disaster medical response missions ever

38,037 patients cared for



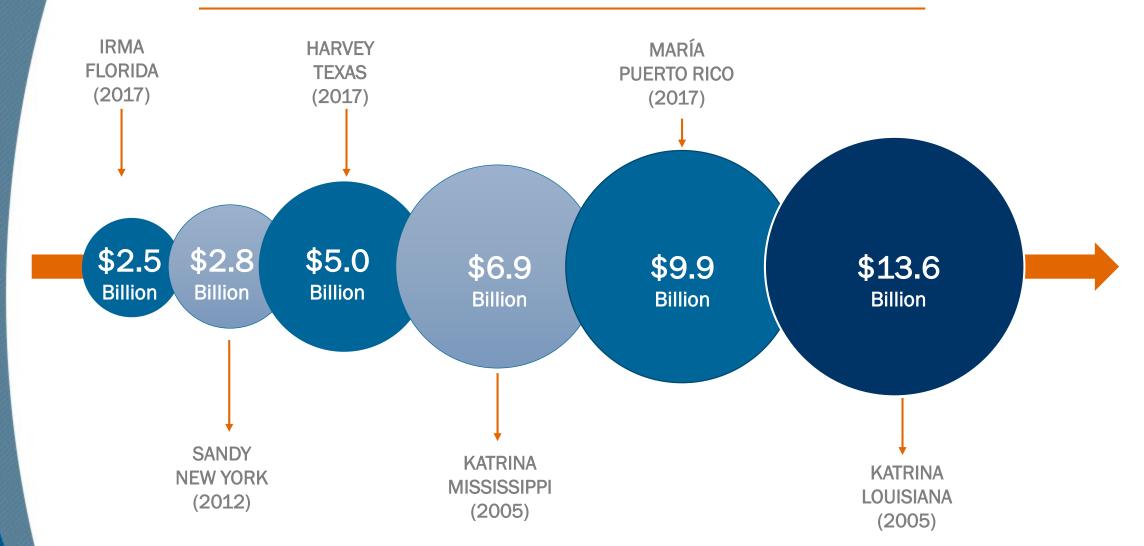
One of, if not the, largest disaster housing missions in U.S. history



The largest sea-bridge operation in U.S. history

Hurricane María

Total **FEMA** Funding: First 180 Days





FEMA-3391-EM-PR/FEMA-4339-DR-PR

Damaged highway in the Municipality of Toa Alta on 09/24/2017 and on 03/17/2018.





FEMA-3391-EM-PR/FEMA-4339-DR-PR

Aerial view of a baseball field in the Municipality of Cataño on 09/22/2017 and 03/18/2018.





FEMA-3391-EM-PR/FEMA-4339-DR-PR

A neighborhood destroyed by hurricane winds in the Municipality of Corozal on 09/24/2017 and being repaired six (6) months later on 03/18/2018.





FEMA-3391-EM-PR/FEMA-4339-DR-PR

Aerial view of the damage caused by La Plata river in the Municipality of Toa Alta on 09/24/2017 and 03/18/2018.





FEMA-3391-EM-PR/FEMA-4339-DR-PR

Lateral view of the Rio Abajo bridge collapsed in the Municipality of Utuado on 10/01/2017 and six (6) months later after being completed on 03/13/2018.







After-Action Report – Lessons Learned



Revise the National Response Framework and the Response Federal Interagency Operational Plan.



Promote federally supported, state managed, locally executed logistics operations.



Broaden FEMA's capability to quickly get teams on the ground.



Develop a more comprehensive understanding of local, regional, and national supply chains.



Support state, local and government agencies improve capabilities.





Top Objectives of Puerto Rico's Plan

for ECONOMIC and DISASTER RECOVERY

1



Promote a society that is educated, healthy and sustainable.

2



Enhance Puerto Rico's ability to withstand and recover from other disasters.

3



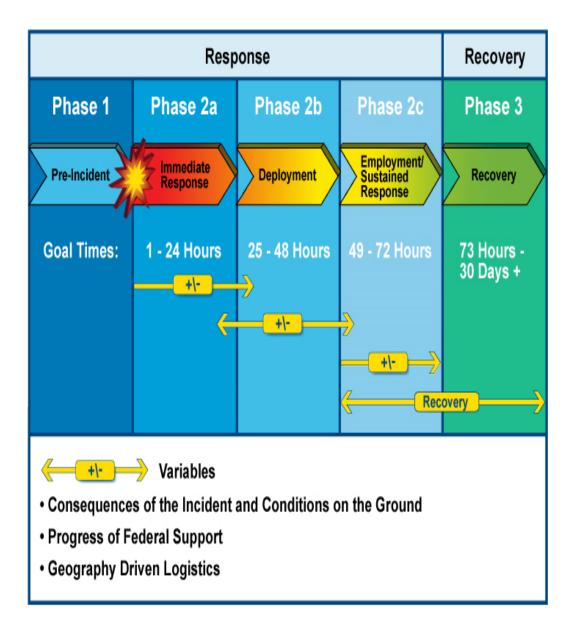
Ensure rebuilding and restoration efforts promote sustainable economic growth and social transformation.

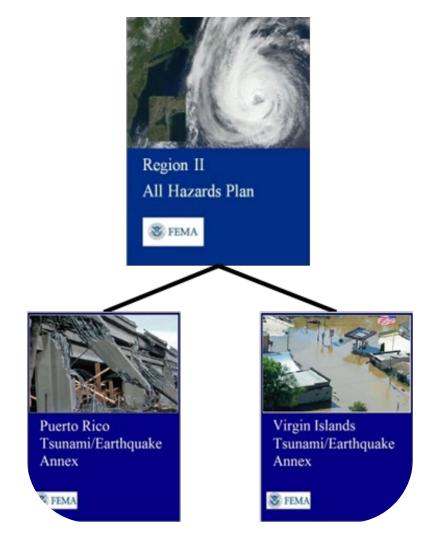
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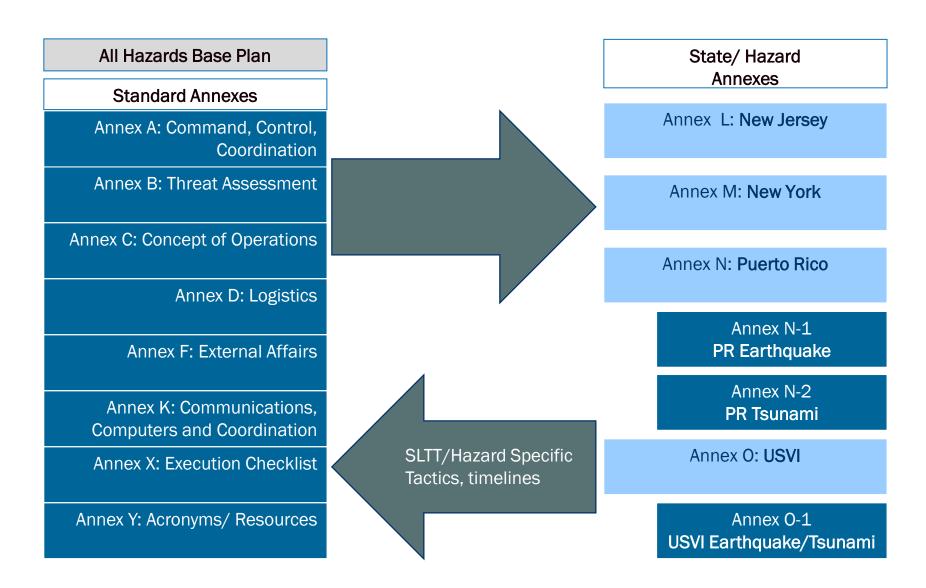
Strengthen
Puerto Rico's critical
infrastructure.



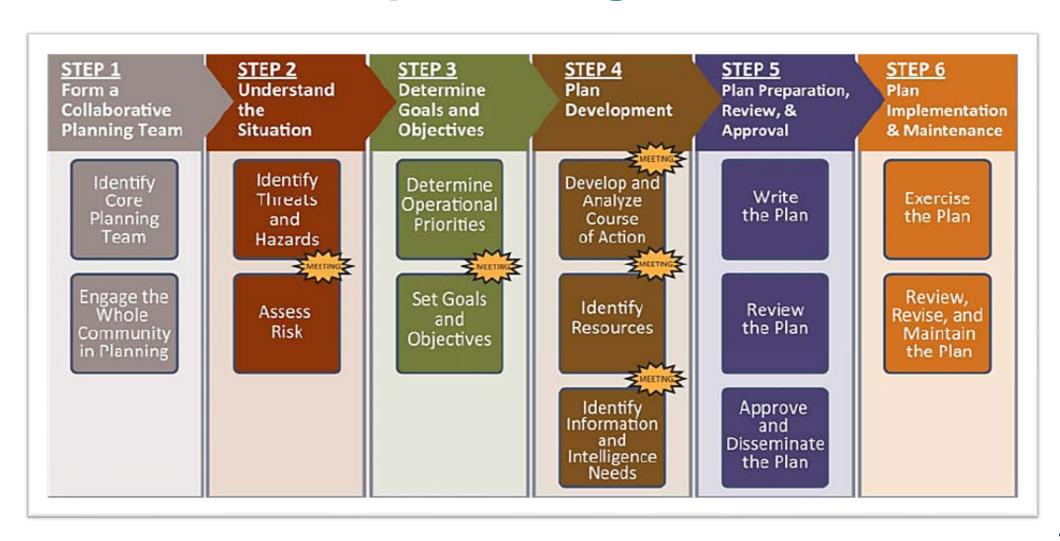




All-Hazards Plan / Annex Integration



FEMA Six-Step Planning Process





2018 Puerto Rico Response Contingency Plan August 7, 2018

Joint Recovery Office 50 Carr 165 #3 Guaynabo, PR 00968



FOR INTERNAL USE ONLY

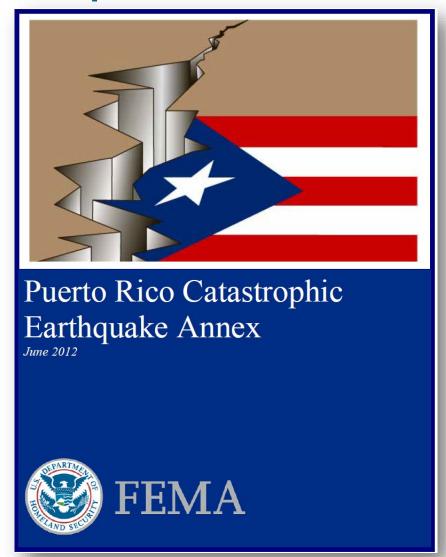


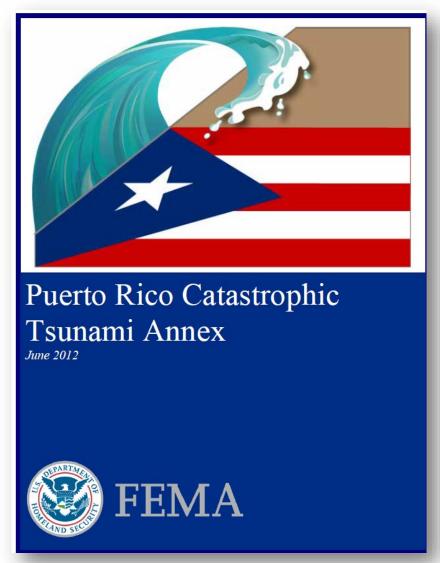
FEMA Region II Hurricane Annex for Puerto Rico & US Virgin Islands

October 20, 2014

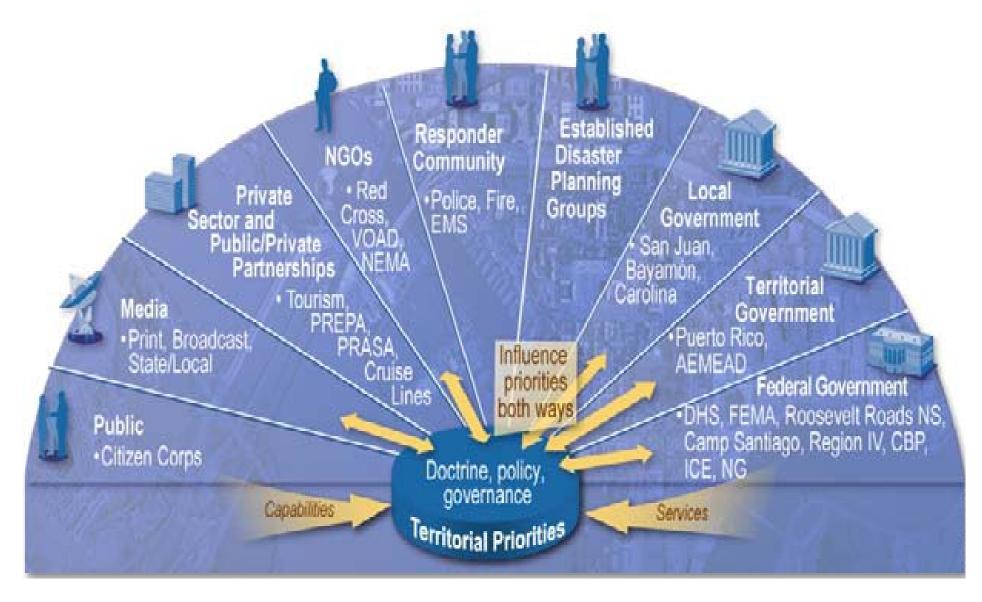


Puerto Rico Catastrophic Annexes Earthquake and Tsunami





Whole Community Concept



Phased Response - Core Capabilities

Enable Rapid and Effective Response

- Situational Assessment
- Public Messaging
- Command, Control, & Coordination
- Critical Communications
- Environmental Health & Safety
- Critical Transportation
- Planning

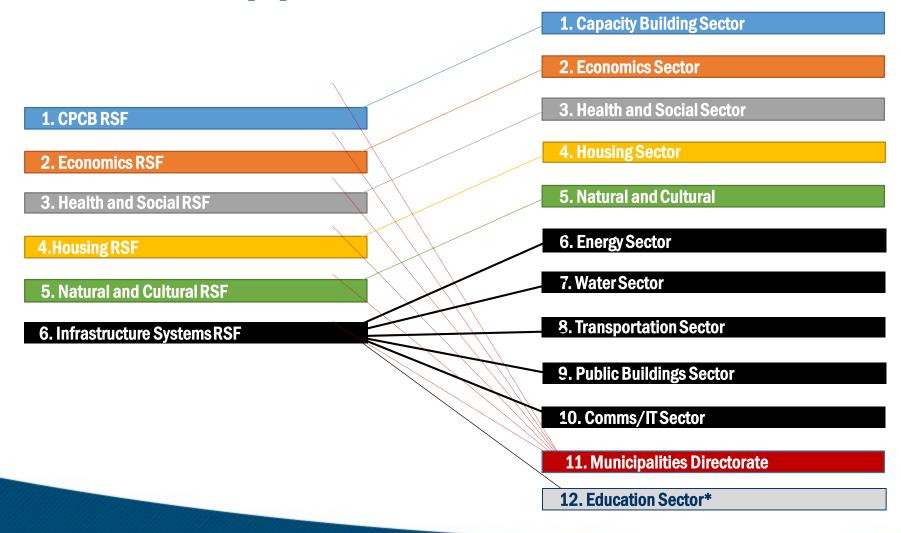




Survivor Needs

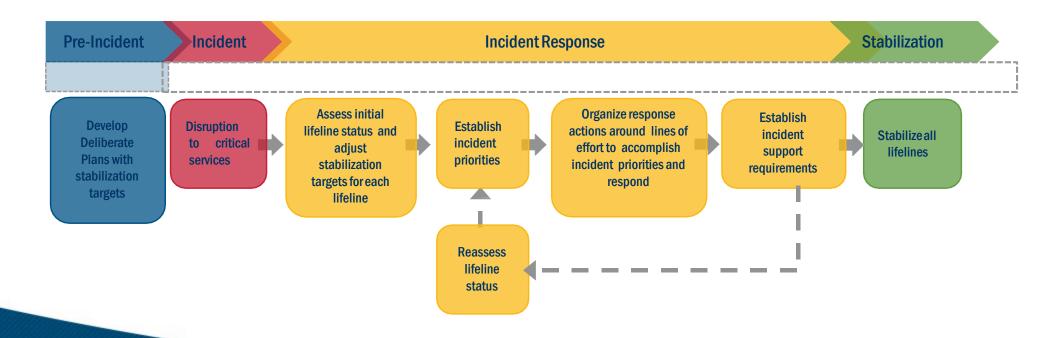
- On-Scene Security and Protection
- Mass Search and Rescue Operations
- Health and Medical Treatment
- Mass Care Services
- Public & Private Services & Resources
- Stabilize and Repair Essential Infrastructure
- Fatality Management Services

Sector-Based Approach



Lifelines Drive Response

Incident responders iteratively assess lifeline status, establish priorities, organize lines of effort, and respond until the incident is stabilized





Community Lifeline Components















Multiple components establish the parameters of and key assessment elements for each of the lifelines; component-level analysis is required to determine if each lifeline is stable

1. Safety and Security

- Law Enforcement/Security
- Search and Rescue
- Fire Services
- Government Service
- Responder Safety
- Imminent Hazard Mitigation

2. Food, Water, Sheltering

- Evacuations
- Food/Potable Water
- Shelter
- Durable Goods
- Water Infrastructure
- Agriculture Infrastructure

3. Health and Medical

- Medical Care
- Patient Movement
- Public Health
- Fatality Management
- Health Care Supply Chain

4. Energy

- Power (Grid)
- Temporary Power
- Fuel

5. Communications

- Infrastructure
- Alerts, Warnings, Messages
- 911 and Dispatch
- Responder Communications

6. Transportation

- Highway/Roadway
- Mass Transit
- Railway
- Aviation
- Maritime
- Pipeline

7. Hazardous Material

- Facilities
- Hazardous Debris, Pollutants, Contaminants

Root Cause Analysis		
Status	"What?"	
Impact	"So What?"	
Actions	"Now What?"	
And any Limiting Factors?		



CommunicationsComponents and EEIs

Infrastructure	Alerts, Warnings, Messages	911 and Dispatch	Responder
 Status of telecommunications service Reliability of internet service Reliability of cellular service Requirements for radio/satellite communication capability 	 Status of the emergency alert system (e.g., TV, radio, cable, cell) Status of public safety radio communications Options for dissemination of information to the whole community External affairs and media communication 	 Status of phone infrastructure and emergency line Number of callers and availability of staff and facilities Status of responder communications Availability of communications equipment 	 Communications Status of EOC(s), dispatcher, and field responder communications Availability and status of first responder communications equipment



Facilities

- Status of hazardous material facilities
- Amount, type, and containment procedures of hazardous materials
- Reported or suspected hazardous material/toxic release incidents
- Status of hazardous material supply chain

Incident Debris, Pollutants, Contaminants

- Debris issues affecting the transportation system
- Status of debris clearance operations
- Reported or suspected hazardous material/toxic release incidents
- Actual or potential radiological or nuclear incidents
- Monitoring actions planned or underway for HAZMAT incidents

BY THE NUMBERS

REPAIRS



VALOR Repairs Completed

3,868

TU HOGAR RENACE Repairs Completed

108,484

POWER-GENERATORS



1,667 AT PEAK

DEBRIS CLEARED



11.6 MILLION CUBIC YARDS

RESTORED SERVICES

PRASA 99%

PREPA **99.9%**

WASTEWATER 100%
TREATMENT
PLANTS

FEMA INDIVIDUALS AND HOUSEHOLDS PROGRAM

TOTAL DOLLARS
OBLIGATED

\$2.4 BILLION

HOUSING ASSISTANCE \$774 MILLION
OTHER NEEDS ASSISTANCE \$419 MILLION
IMMEDIATE NEEDS ASSISTANCE \$943 MILLION

FEMA PUBLIC ASSISTANCE

PROJECT WORKSHEETS
OBLIGATED

1,186

TOTAL DOLLARS OBLIGATED

\$5.7 BILLION



ARCHITECTURAL AND ENGINEERING

\$358 MILLION OBLIGATED COSTS

DISASTER UNEMPLOYMENT ASSISTANCE

TOTAL CLAIMS APPROVED

9,097

FUNDING ALLOCATED

\$24* MILLION

56.509

*Includes administrative costs

U.S. SMALL BUSINESS ADMINISTRATION

LOANS APPROVED

TOTAL DOLLARS APPROVED

\$2 BILLION

HUD - COMMUNITY DEVELOPMENT BLOCK GRANTS

TOTAL DOLLARS APPROVED

\$20 BILLION

NUMBER OF FEDERAL EMPLOYEES



FEMA EMPLOYEES (TOTAL) 1,841

LOCAL FEMA EMPLOYEES 1.538 (84%) OTHER FEDERAL / CONTRACTORS 505

2,346 TOTAL

MAY 13, 2019

FEDERAL HOUSING SNAPSHOT



RENTAL ASSISTANCE

\$132 Million

ESSENTIAL HOME REPAIRS

\$535 Million

HOME REPLACEMENT

\$84 Million

VOLUNTARY AGENCIES LEADING & ORGANIZING REPAIR



Repairs Completed

3,868
Estimated Total

\$16.8 Million

TU HOGAR RENACE

Repairs Completed 108,484

Average cost per home

\$10,409

TEMPORARY ROOFING

100%

Completed

Blue Roof FEMA Self Help Tarps

59,469 125,981

Direct Lease/Multi-Family Lease and Repair

Number of Families Leased In

62

Total Dollar Amount

\$11.7 Million



US SMALL BUSINESS ADMINISTRATION ASSISTANCE for Homeowners & Businesses



Home Loans

Business Loans

\$206 Million

Loans Approved Total Dollars Approved

56,509 \$2

\$2 Billion



Survivors who meet U.S. Department of Housing and Urban Development income requirements are being referred directly to HUD's programs. Survivors can then go online or to the local housing authority to work with HUD on available Section 8 properties in their area.



DR-4336-PR / DR-4339-PR

MAY 13, 2019





PUERTO RICO REBUILDING





\$5.7 BILLION TOTAL APPROVED

\$629 MILLION

Funding for Debris Removal

\$4.4 BILLION

Funding for Emergency Protective Measures

\$379 Million (includes A&E) **Permanent Work**

Puerto Rico Electric Power Authority



\$16.5 MILLION **OBLIGATED**

COMMUNITY DISASTER

LOANS



\$299 MILLION

TOTAL APPROVED

Number of Municipalities



BILLION

Restoration BILLION

Power

Generators

Generator Maintenance to Critical Infrastructure

S136 MILLION

Debris Removal Mission Assignments

MILLION

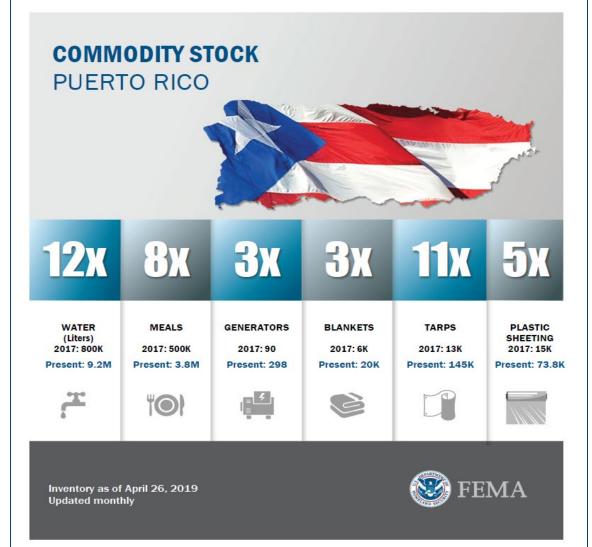
HUD COMMUNITY DEVELOPMENT DISASTER RECOVERY

BILLION AWARDED



MILLION

NEARLY **APPROVED** As of May 29







Atlantic Basin Storm Name 2019

- Andrea
- Barry
- Chantal
- Dorian
- Erin
- Fernand
- Gabrielle
- Humberto
- Imelda
- Jerry
- Karen
- Lorenzo

- Melissa
- Nestor
- Olga
- Pablo
- Rebekah
- Sebastien
- Tanya
- Van
- Wendy

Earthquake Details			
Estimated Maximum Intensity:	IV in Maunabo, PR		
Date:	May 02, 2019 01:10:26 UTC May 01, 2019 21:10:26 Local Time		
Region:	Southeast Region of Puerto Rico		
Distances:	11.16 Km Southeast of Yabucoa,PR 11.55 Km East-Southeast of Maunabo,PR 50.99 Km South-Southeast of San Juan,PR		
Magnitude:	4.1 MI		
Location:	Latitude:17.9946 Longitude:-65.8256		
Depth:	13 Km		
Tsunami Warning Level:	No Warning, Advisory or Watch is in effect for Puerto Rico and the Virgin Islands		
Issued date and time :	2019-05-01 22:28:52		
ID:	20190502011025		
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Questions & Discussion

Challenges, Innovation, the way forward

