

*Presented by:*

Welcome to



# Hurricane Preparedness for Healthcare through Lessons Learned



*Speaker:*

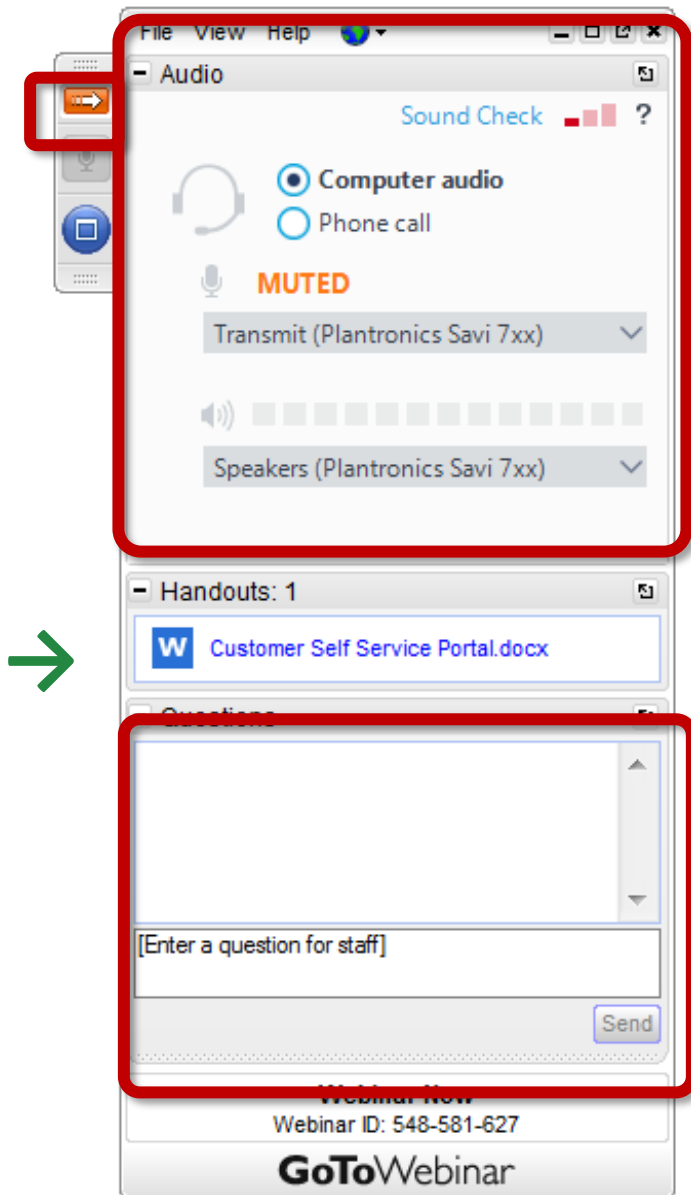
**Marc Moriguchi**

Director

Hawaii Healthcare Emergency Management

May 18, 2021

2:00 - 3:00 pm HST



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### Join audio:

- Choose "Computer audio" to use VoIP
- Choose "Phone Call" and dial in using the information provided

### Questions/Comments:

- Submit questions and comments via the Questions panel.

**Note:** Today's presentation is being recorded. A link to the recording will be shared with registrants.

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3. Complete the corresponding evaluation

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May 18<sup>th</sup> Evaluation:

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# **Emergency Preparedness for Healthcare through Lessons Learned**

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**Marc Moriguchi  
Director**

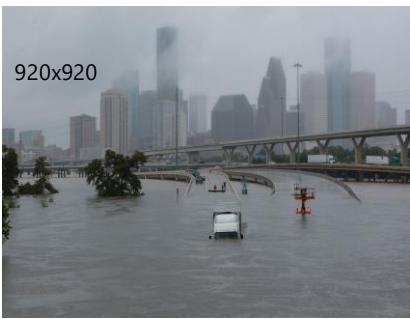
**Hawaii Healthcare Emergency Management**



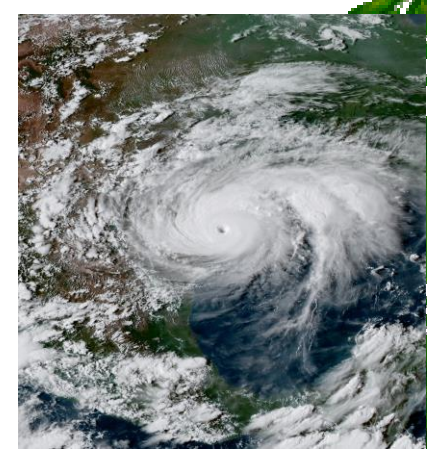
# Learning objectives

- ★ Hawaii's climate and geography is unique.
- ★ CMS Emergency preparedness
- ★ Preparing your facility for a disaster
- ★ How to prepare yourself and your staff





# Background



## \* Hurricane Harvey 2017

- Category 4
- August 25<sup>th</sup> – 29<sup>th</sup>
- Made landfall 3 times
- More than 25 trillion gallons of water
- \$125 Billion in Damage
- 58 declared counties declared disasters
  - \* 776 Assisted Living Facilities
  - \* 422 Nursing Facilities
  - \* 100+facility evacuations



# Lessons Learned

- ★ Lack of contingency communication
  - Phone lines down
  - Cell service and internet down
  - Lack of depth in comms and contingencies



# Lessons Learned

## \*Back Up Power (Generators)

- \* Generators not used to running for extended periods of time.

- \* Many broke down and did not have backup.
- \* Parts difficult to get

- \* Lack of generators at facilities forced evacuations, and resulted in heat illness.

- \* Not enough fuel on hand and fuel hard to get

## \*Medical Gases

- Lack of Electricity





# Lessons Learned

- ★ Transportation challenges
  - Unable to access locations due to high water levels.
- ★ Sheltering in place
- ★ Lack of medical shelters.



# Lessons Learned from Hurricane Harvey, Irma and Maria

- ★ External Water System Failure – Resulted in evacuations and closure of medical facilities.
  - Lack of emergency water storage tanks
- ★ Waste management System
  - Lack of contingency waste management system or protocol.



# Lessons Learned from Hurricane Harvey, Irma and Maria

- ★ Lack of paperwork to follow patient
  - Electronic Medical Records System were down.
    - ★ Resulting in the lack of available patient records for transfers and evacuations.
- ★ Staff
  - Family accommodations facilitated staff returning.
  - Lack of access to return resulted in staffing shortages.



# Lessons Learned from Hurricane Harvey, Irma and Maria

## ★ Dialysis Patients

- Lack of food for specialized diet
- Lack of open acute or non-acute dialysis centers.



## ★ Chronic Medications refill

- Lack of refrigeration (Insulin)
- Pharmacies closed
- Lack of adequate supply



# Lessons Learned

## ★ Security Challenges

### – Looting

- ★ Pharmaceuticals
- ★ Fuel
- ★ Food and Water



## ★ Social Media

- staff and volunteers

# Relocation Capacity

- ★ Lack of Beds availability
  - Other facilities in anticipated impact area evacuated earlier resulting in the lack of beds.
  - The Coalition played a significant role in coordinating the placement and relocation of the patients, etc.



# CMS Findings 2019

- ★ E-0022 Sheltering in place
- ★ E-0035 LTC & ICF/IID sharing plan with patients
  - Method for sharing info from the emergency plan with residents/clients and their families.
- ★ E-0036 EP Training and Testing
  - Testing and training program for emergency preparedness
  - Training and testing must reflect risks from risk assessment.
- ★ E-0024 Policies/Procedures-Volunteers & Staffing
  - Develop and implement emergency preparedness P&P
  - Reviewed every 2 yrs (annual for LTC)



# BE READY! FLOODS

## DURING



Unplug appliances to prevent electrical shock when power comes back on.

Do NOT drive or walk across flooded roads. Cars and people can be swept away.

Gather emergency supplies and follow local radio or TV updates.

WEATHER ALERT!

### RECOGNIZE FLOOD RISK



- Identify flood-prone or landslide-prone areas near you.
- Know your community's warning signals, evacuation routes, and emergency shelter locations.
- Know flood evacuation routes near you.

When power lines are down, water is in your home, or before you evacuate, TURN OFF gas, power, and water.

Tie down or bring outdoor items inside.

Throw away items that cannot be disinfected, like wall coverings, cloth, rugs, and drywall.

### PRACTICE SAFE HYGIENE

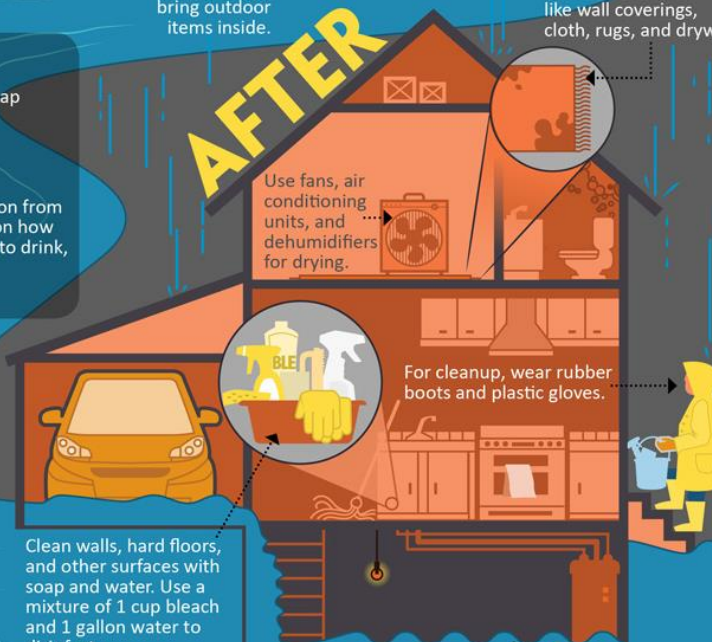


Wash hands with soap and water to help prevent germs.



Listen for information from your local officials on how to safely use water to drink, cook, or clean.

## AFTER



Use fans, air conditioning units, and dehumidifiers for drying.

For cleanup, wear rubber boots and plastic gloves.

Clean walls, hard floors, and other surfaces with soap and water. Use a mixture of 1 cup bleach and 1 gallon water to disinfect.

Caution! Flood water

# Flooding

Flooding is the No. 1 natural disaster in the United States.





# Flooding in Hawaii

- ★ One of the problems of living on an island is where does all that rainwater go?
- ★ The natural watershed takes over and diverts the water through streams and man made diversion canals.
- ★ During heavy rain Oahu's drainage system is overwhelmed and flooding occurs.



# 2004 UH Manoa flood



# Hamilton Library 2004



# Tropical Storm Darby July 2016



# **lao Valley flood 2016**



# March 2021 flooding in Haleiwa

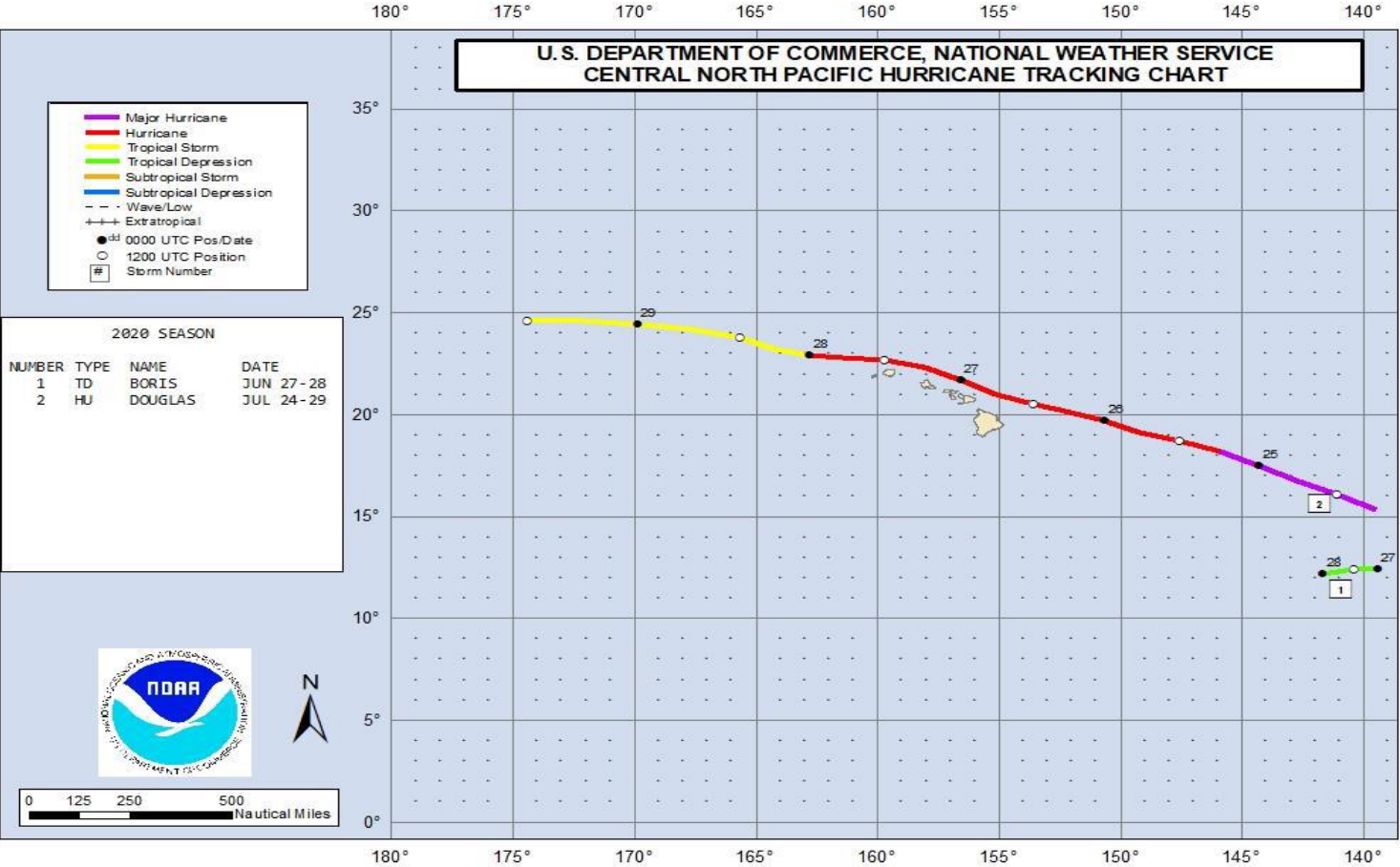


# 2020 Hurricane summary for Central Pacific Basin

- ★ Had a below season average with two tropical cyclones.
- ★ Tropical Depression Boris
- ★ Hurricane Douglas
  - Passed just north of the state, keeping the most damaging wind and rain away from land.



# Hurricane Douglas





# Future Outlook

- ★ Hawaii is in for dryer weather but is at risk for localized heavy rain events due to changes in the climate especially during La Nina years.
- ★ Due to urbanization, there is an increase in runoff into drainage canals
- ★ With the weather changing we need to be more aggressive in mitigating flooding.



# Why prepare for a disaster?

- ★ Too costly?
- ★ Purchasing supplies, I might never use
- ★ I don't know where to start
- ★ Too much humbug
- ★ Pros:
  - Could save your life
  - Being prepared for those life changing moments
  - Apps for smartphone is easy to stay informed
  - Putting together a home kit is easy to do.



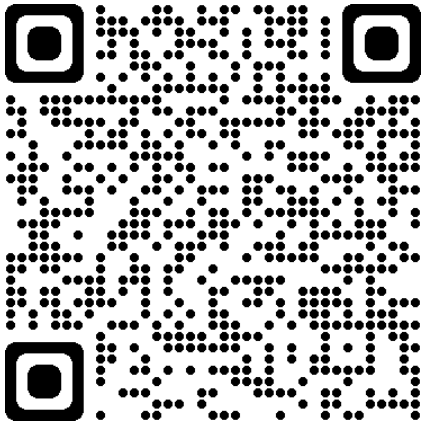
# Weather language

- ★ How to “Speak” Weather Forecasting
- ★ National weather service Hawaii
- ★ Top APPS for disasters



# Emergency supplies

- ★ [FEMA: how to build a kit for emergencies](#)
- ★ [HI-EMA emergency preparedness brochures](#)





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# *Questions?*

*Type your questions into the Questions tab of your Control Panel.*

**Marc Moriguchi**  
Director  
Hawaii Healthcare Emergency Management



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**On behalf of the Healthcare Association of Hawaii,  
and Hawaii Healthcare Emergency Management,  
thank you for attending today's webinar:**

***Hurricane Preparedness for Healthcare  
through Lessons Learned***



**Evaluation:**

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