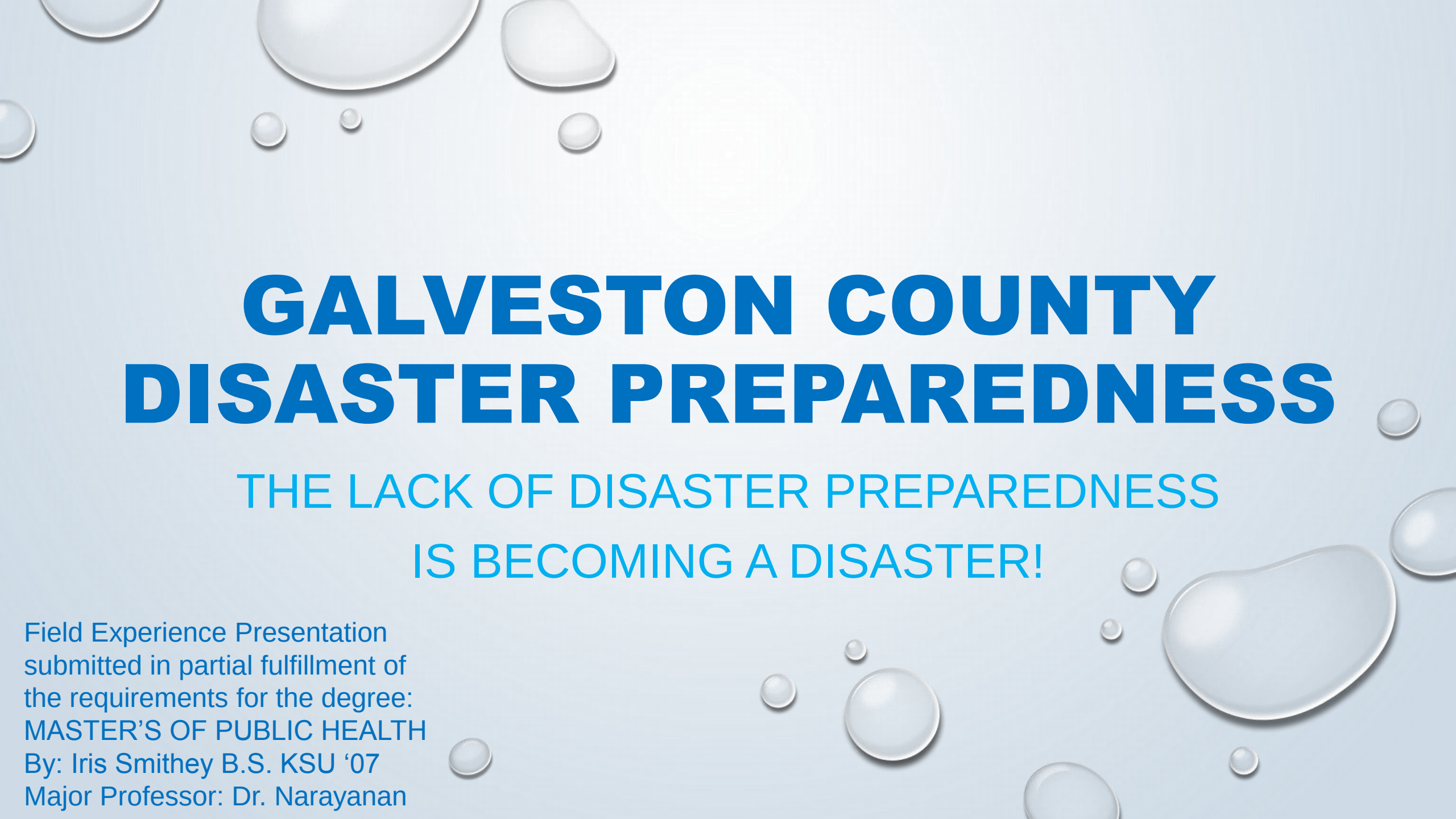


The background of the slide is a light blue gradient with several realistic water droplets of various sizes scattered across it, particularly concentrated at the top and bottom edges.

GALVESTON COUNTY DISASTER PREPAREDNESS

THE LACK OF DISASTER PREPAREDNESS
IS BECOMING A DISASTER!

Field Experience Presentation
submitted in partial fulfillment of
the requirements for the degree:
MASTER'S OF PUBLIC HEALTH
By: Iris Smithey B.S. KSU '07
Major Professor: Dr. Narayanan

WELCOME

MPH STUDENT

MPH COMMITTEE

IRIS SMITHEY

- GREW UP IN KANSAS
- 2007 KSU GRADUATE
- COMPLETED 3 YEARS AT KSUCVM
- CANDIDATE FOR MPH AT KSU IN 2013

SANJEEV K. NARAYANAN
(MENTOR)

JUSTIN KASTNER

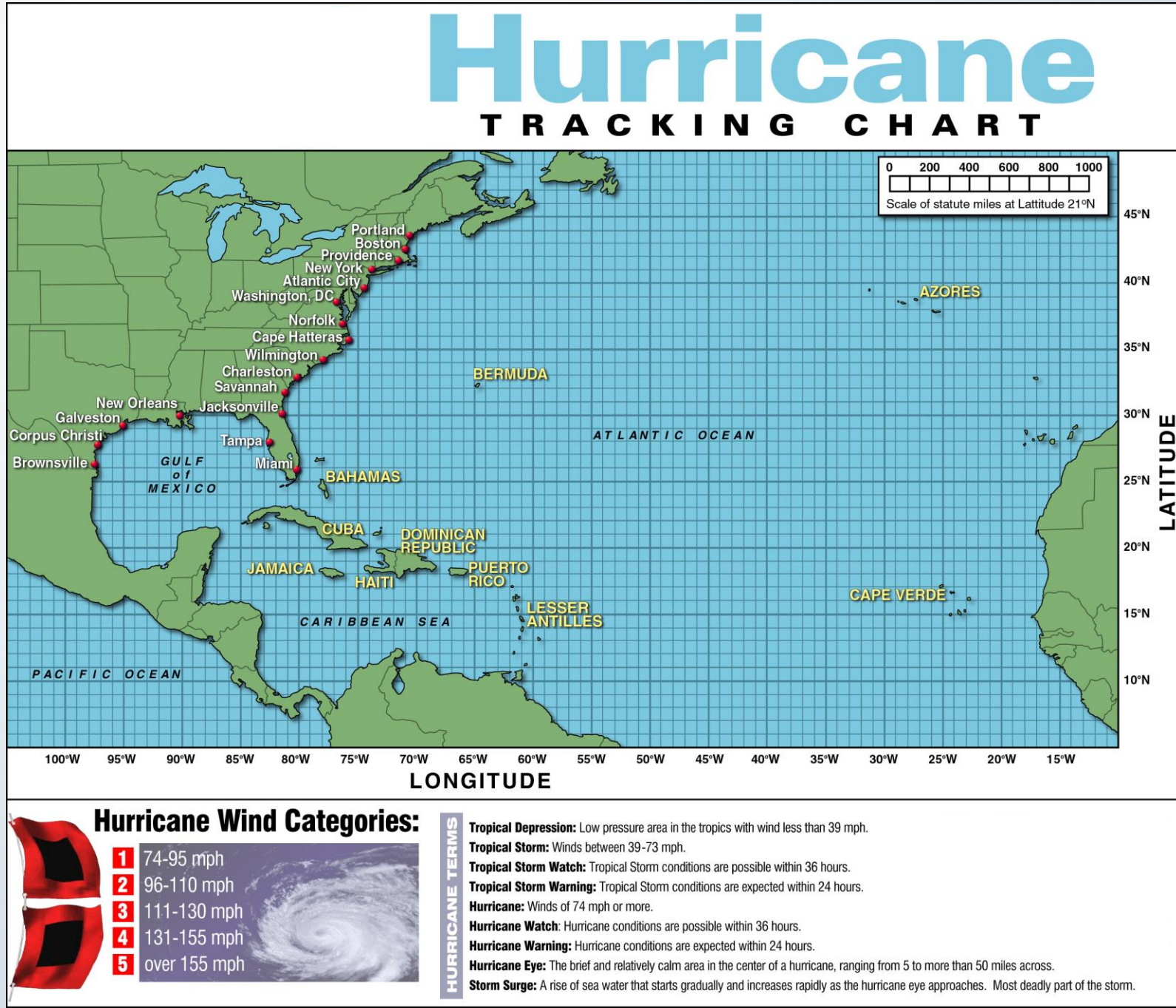
DAN THOMSON

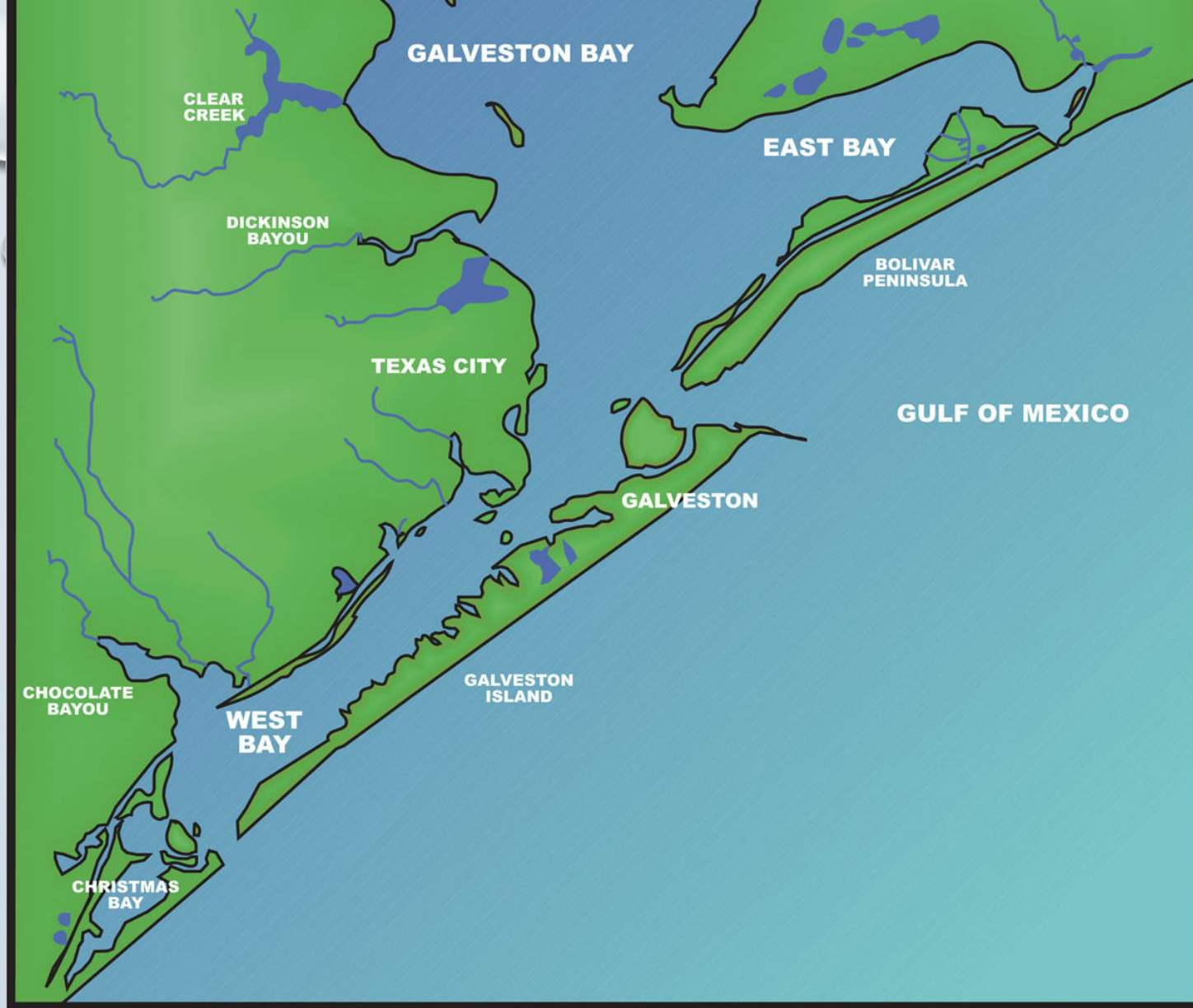
OTHER
INTRODUCTIONS



OUTLINE

- GEOGRAPHY LESSON
- HISTORY LESSON
- GALVESTON COUNTY HEALTH DISTRICT
- HURRICANE GAVIOTA
- PODS





Galveston County:

- Land area: 378.36 square miles
- Total population: 300,484
- Number of natural disasters in Galveston county is higher than the national average
- 109,568 households with an average of 2.66 people/household
- 77% “white color” employees and 22% “blue collar” employees
- Crime rate is above the national average (30% higher than average)



GEOGRAPHY LESSON



HISTORY LESSON

Bolivar Peninsula

- 27 mile long barrier island just northeast of Galveston Island
- Includes the communities of Port Bolivar, Crystal Beach, Caplen, Gilchrist, and High Island
- Permanent home for 3,900 residents
- Tourist destination for beach and wildlife lovers

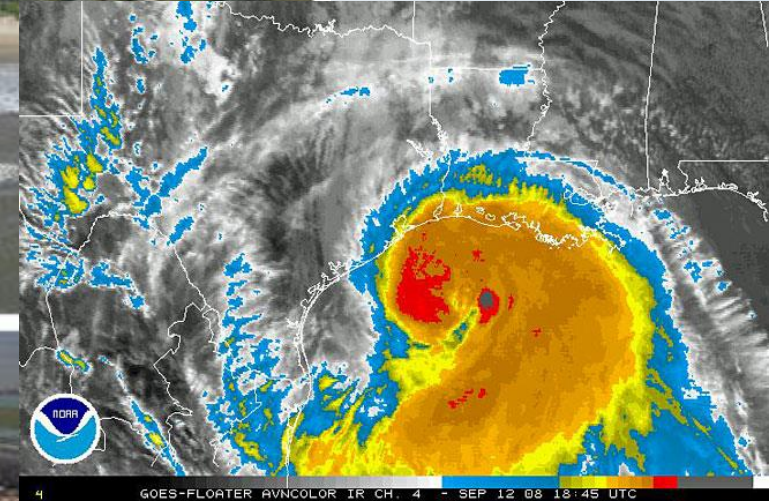
Hurricane Ike

- Began as a tropical wave off the coast of Africa around August 29, 2008
- Gained considerable strength after moving into the Gulf of Mexico
- High storm tides of 10-15 feet were common up to 24 hours before landfall
- Landfall on September 13, 2008 at 2:10 am on Bolivar Peninsula
- Winds reaching over 110 mph but labeled as a category 4 storm
- 70% larger than the average hurricane

September 9, 2008



September 15, 2008



USGS

HURRICANE IKE



BOLIVAR PENINSULA

RAVAGED!

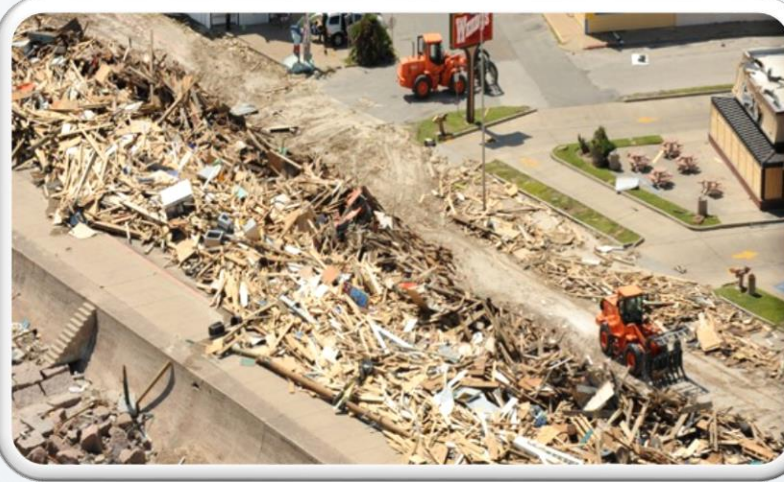
Storm surges and wind reduced the community to rubble

Storm surge arrived much quicker than expected

Flood waters rose to at least 18 feet above normal tide

Entire homes were washed into the bay

21 million cubic yards of debris were removed from the Peninsula



GALVESTON ISLAND

By 4pm on the 12th, waves crested over the seawall

Galveston County spent \$600 thousand spraying for mosquitoes right after Ike

6 feet of water in the Galveston County Courthouse



OTHER AREAS

Cincinnati, Ohio even felt winds of 61 mph from Hurricane Ike

Over 6 million homes lost power in the US resulting from Ike

Caused damage to many windows of skyscrapers in Houston

Affected states: Texas, Mississippi, Florida Keys, Louisiana, Great Lakes Region

Affected Countries: Cuba, Bahamas, Turks and Caicos Islands, Dominican Republic, Haiti, Canada



GALVESTON COUNTY HEALTH DISTRICT

GALVESTON COUNTY HEALTH DISTRICT ORGANIZATION AND OPPORTUNITIES

- AIR AND WATER POLLUTION
 - CONSUMER HEALTH
 - EPIDEMIOLOGY
 - ANIMAL SERVICES
- COMMUNITY OUTREACH
- COASTAL HEALTH AND WELLNESS CLINIC
- GALVESTON AREA AMBULANCE AUTHORITY
 - IMMUNIZATIONS
 - PUBLIC INFORMATION
- PUBLIC HEALTH EMERGENCY PREPAREDNESS
 - PUBLIC HEALTH LABORATORY
 - SENIOR HEALTH
- SEXUALLY TRANSMITTED DISEASE (STD/HIV)
 - TUBERCULOSIS SERVICES
 - VITAL STATISTICS
- WOMEN, INFANTS AND CHILDREN (WIC)

GALVESTON COUNTY ANIMAL RESOURCE CENTER



- Animal sheltering
- Field animal control services
- Open-intake facility where no animal is turned away
- Do not have a veterinarian on staff



GALVESTON COUNTY HEALTH DISTRICT ORGANIZATION AND OPPORTUNITIES

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ACTIVITIES WITH EPIDEMIOLOGY

- PFGE teleconference
- Regional conference calls
- Pool gastrointestinal illness outbreak
- Regional epidemiology meeting



POOL GASTROINTESTINAL OUTBREAK

PRESENTATION:

Fever, nausea, vomiting, diarrhea, leg pain, headache, loss of appetite, and fatigue

Most common complaint is vomiting while only about 50% report diarrhea as a symptom

Average onset is between 24 to 36 hours after swimming in the pool and duration is lasting on average 1-2 days

1/3 infectivity rate



Conclusion? **Norovirus**

GALVESTON COUNTY HEALTH DISTRICT ORGANIZATION AND OPPORTUNITIES

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Public Health
Prevent. Promote. Protect.

PUBLIC HEALTH EMERGENCY PREPAREDNESS

ACTIVITIES:

- Psychological first aid
 - Maps meeting
- Hurricane preparedness meeting for GCHD staff
- Galveston County Emergency Response Collaborative Meeting
 - Public Health Emergency Preparedness Collaborative
- Regional Allocation, Distribution, and Dispensing Full-Scale Exercise Master Scenario Events List Review Meeting



HURRICANE GAVIOTA



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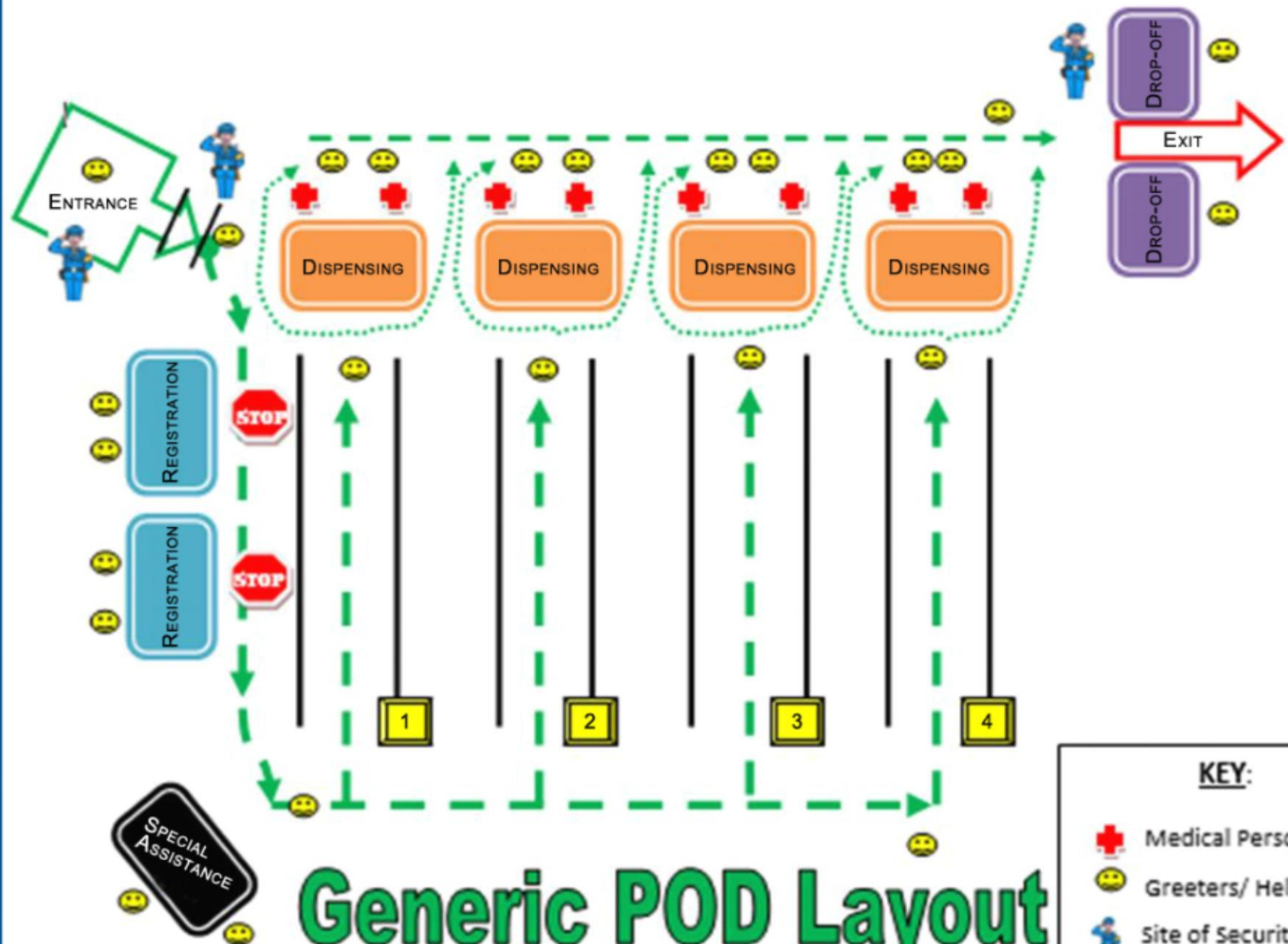


- # College of the Mainland POD Lay-Out





PODS



Generic POD Layout

KEY:

-  Medical Personnel
-  Greeters/ Helpers
-  Site of Security
-  Flow of Public

Point Of Dispensing

BOX ORGANIZATION

12 PODs in Galveston County

Four (4) Boxes per POD:

1. Trunk
2. Refrigerator Box
3. 3-drawer box
4. Storage box

Boxes organized by use



VOLUNTEER RECRUITMENT

- Rotary Club meeting
- MRC recruitment PowerPoint
- Kemah Citizen's Police Academy
 - Lion's Club
- Senior Organizations
- Meeting with pastor from local church
- Meeting with Red Cross regional Executive Director
- **Volunteer involvement opportunities**

VOLUNTEER TRAINING

Psychological first aid

ICS trainings

Red Cross First Aid

POD deployment drills

Strategic National Stockpile

Disease 101

POD manager certification

Epidemiology 101



**American
Red Cross**



LESSONS LEARNED

HURRICANES

GOVERNMENTAL AGENCIES

DISASTER RESPONSE



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