



# Hurricane Preparedness

**Brian Mason**

**Director**

July 21, 2025

# Agenda

- Timelines
- EOC Processes
- Four Principles of Preparedness
- Q&A



The screenshot displays the City of Houston Office of Emergency Management (OEM) website. At the top, there is a navigation bar with the City of Houston seal, the OEM logo, and links for Home, Prepare +, Respond, Recover, and About Us +. A language dropdown menu is set to English, and a red button prompts users to 'SIGN UP FOR ALERTS' with a right arrow. The main content area features a city skyline background with the headline 'THE CITY OF HOUSTON OEM HAVE YOU MADE YOUR EMERGENCY PLAN?'. Below this, a sub-header reads: 'Knowing what to do protects you and your family. Be sure to practice your plan on a regular basis.' A red button labeled 'Personal Preparedness' is visible. At the bottom, a dark blue banner indicates the 'EMERGENCY OPERATIONS CENTER ACTIVATION LEVEL' as 'LEVEL IV: NORMAL OPERATIONS' with a right arrow.



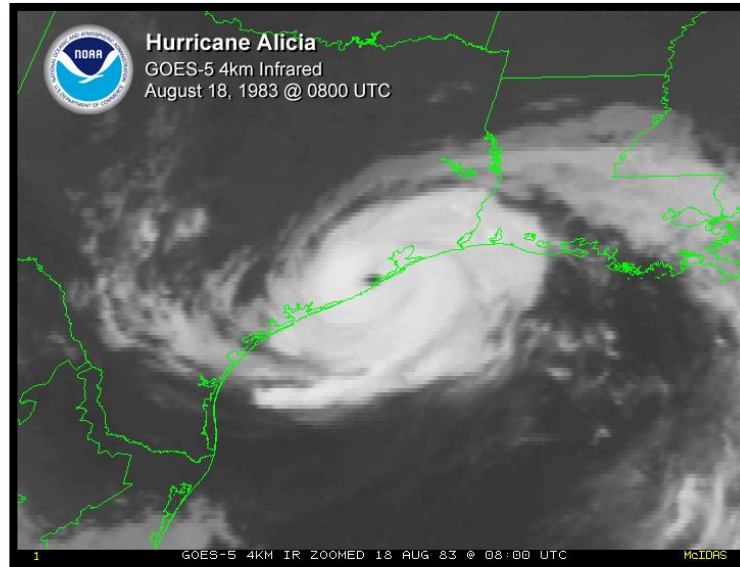
# Timelines





# Hurricane Response and Initial Recovery Timeline

- Timeline Structure:  
The **H-Numbers** refer to the **arrival of tropical storm-force winds** on the Texas Coast
- Every storm is different
  - Size, Surge, Wind, Rain



Alicia 1983

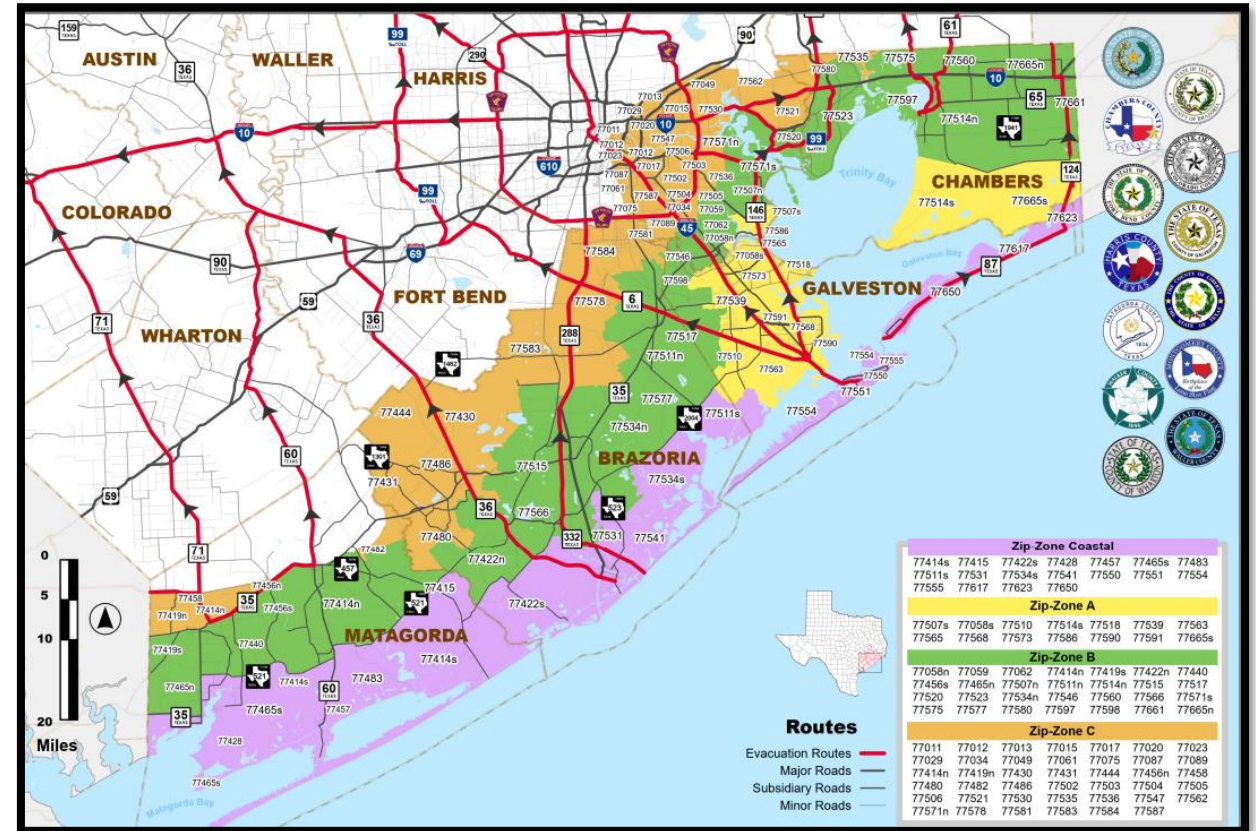


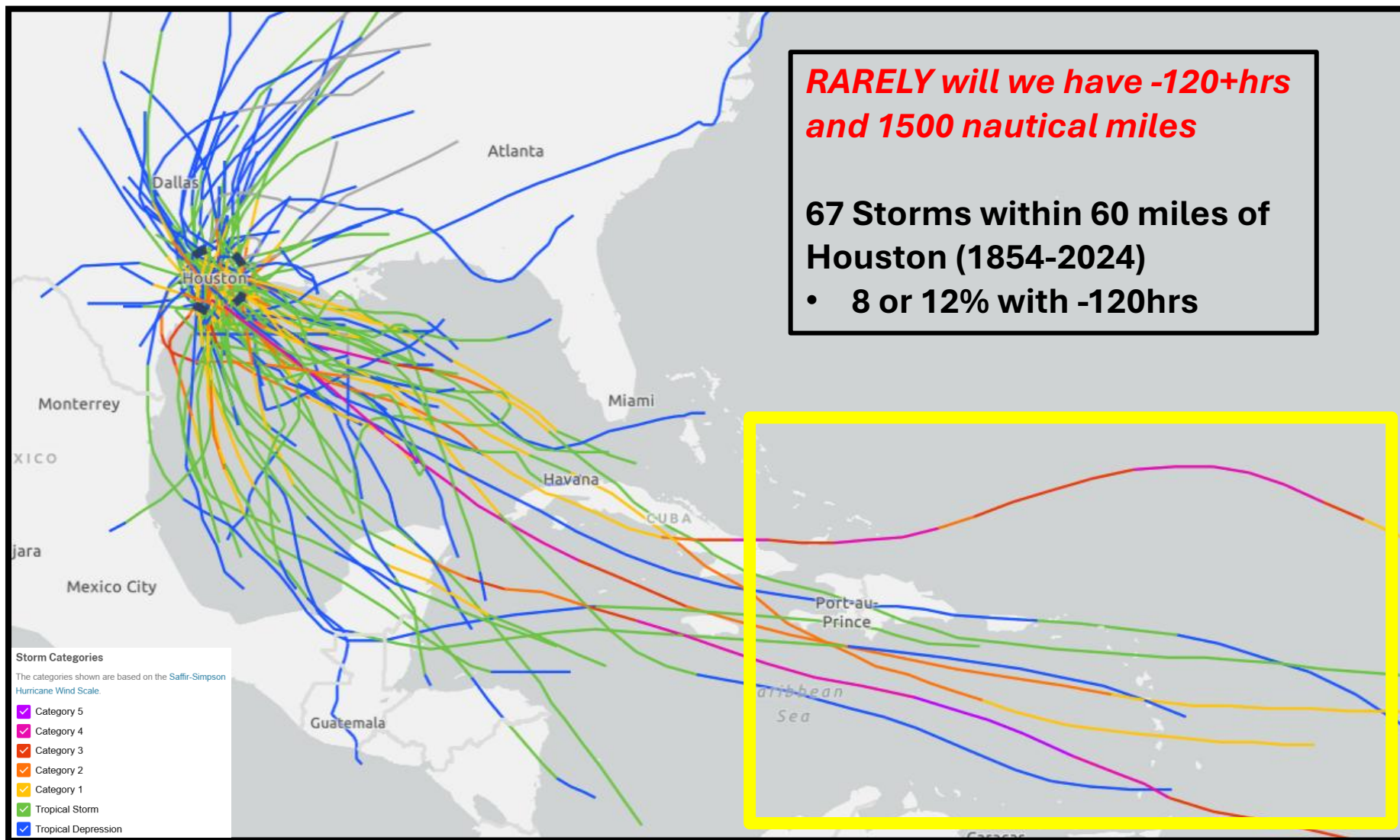
Ike 2008



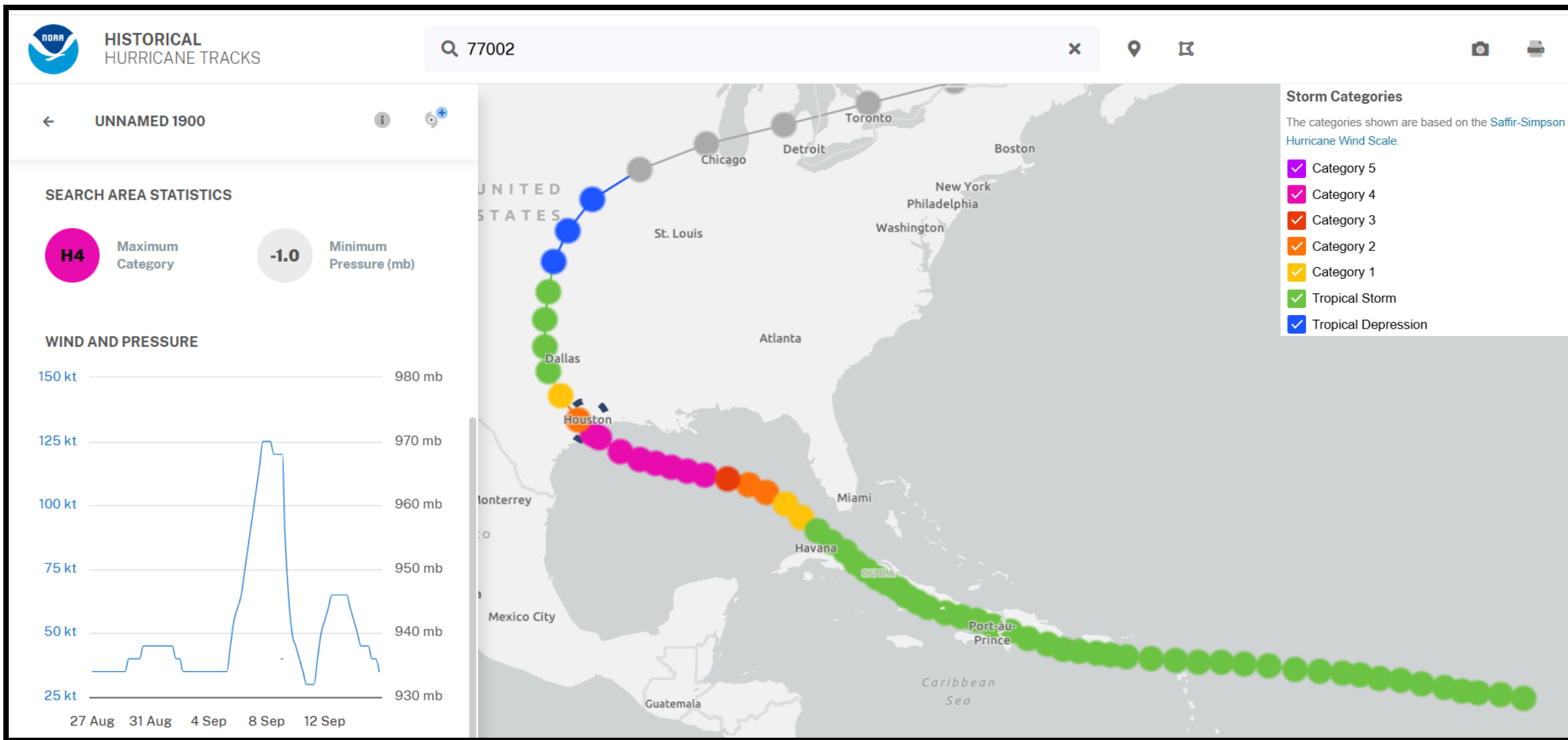
# Hurricane Response and Recovery Timeline

- ***RUN from the storm surge, HIDE from the wind***









Unnamed 1900 (-120+ hrs)





# HISTORICAL HURRICANE TRACKS

77002



← IKE 2008



## SEARCH AREA STATISTICS

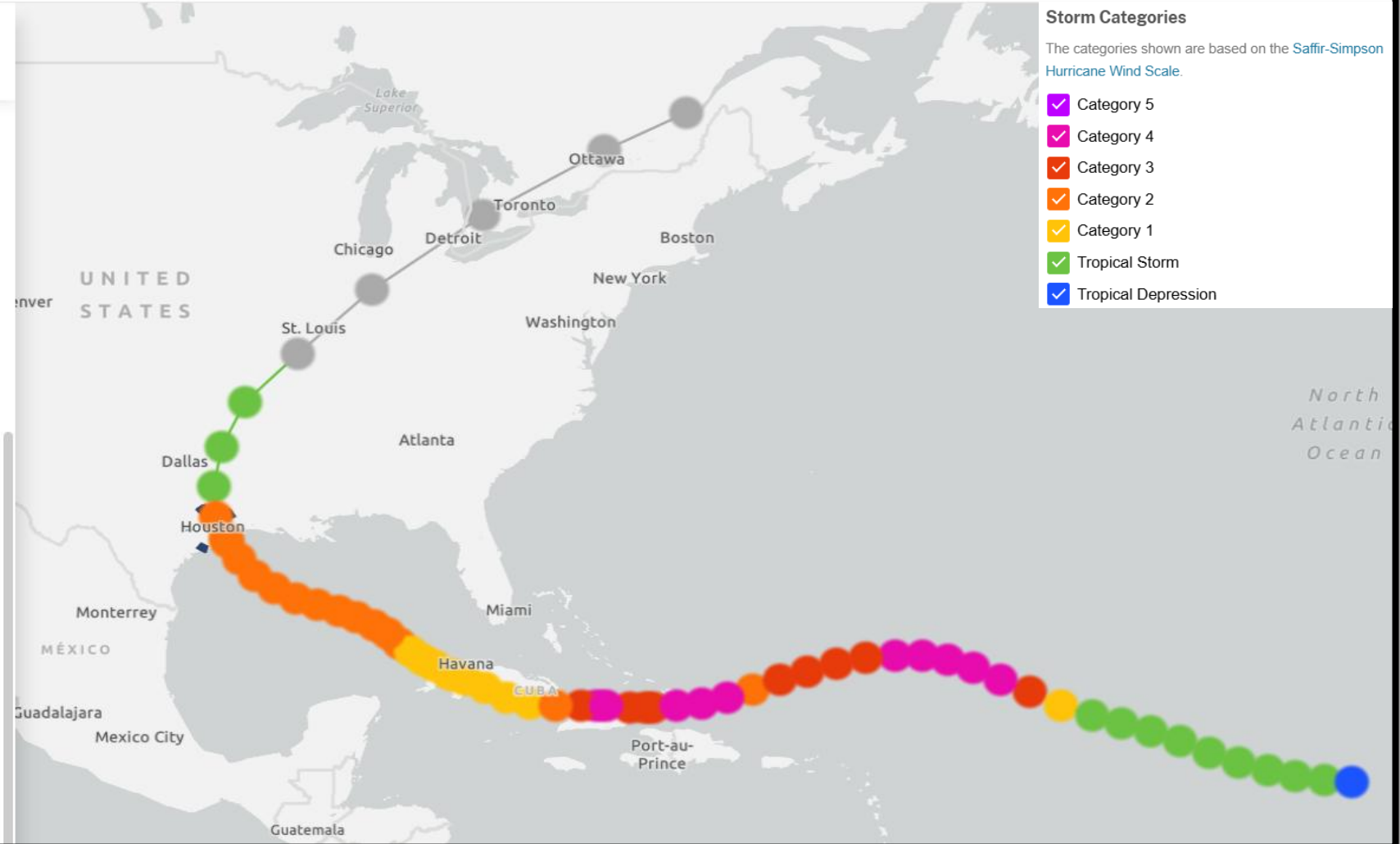
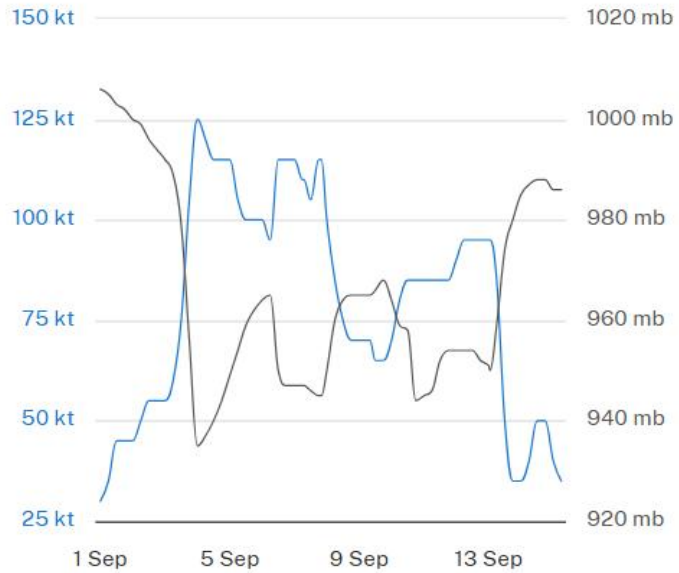


Maximum  
Category

950.0

Minimum  
Pressure (mb)

## WIND AND PRESSURE



Ike 2008 (-120+ hrs)







← ALICIA 1983



SEARCH AREA STATISTICS

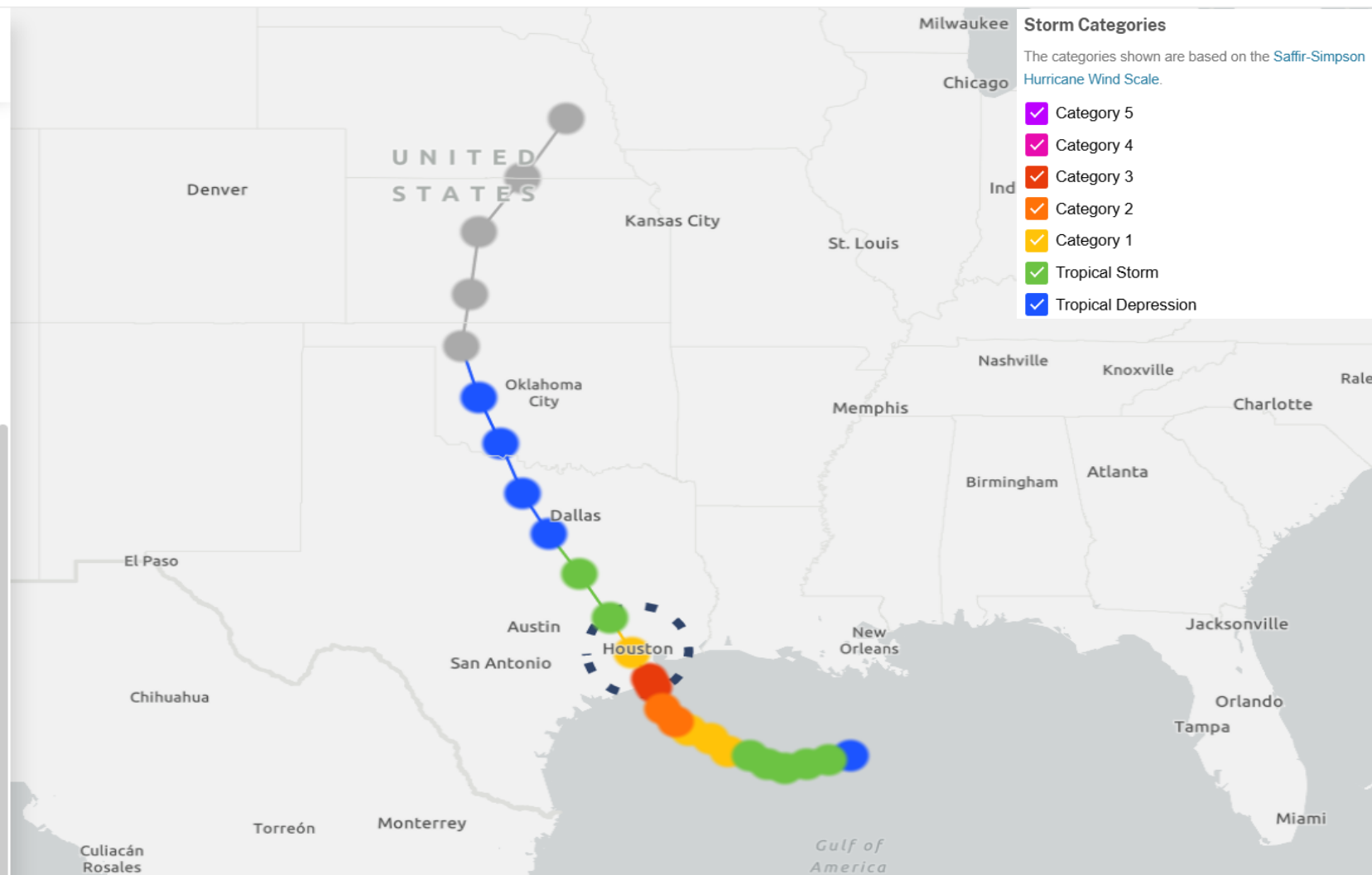
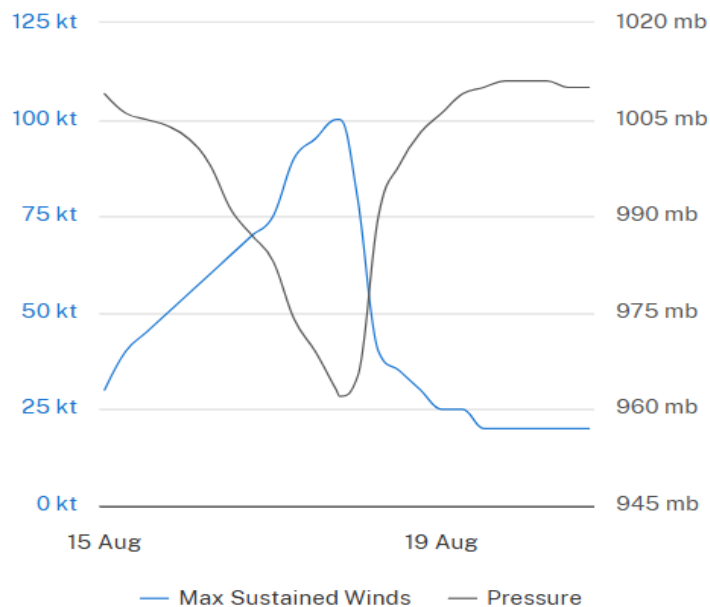


Maximum  
Category

962.0

Minimum  
Pressure (mb)

WIND AND PRESSURE



Alicia 1983 (-72 hrs)





# HISTORICAL HURRICANE TRACKS

77002



UNNAMED 1932



## SEARCH AREA STATISTICS

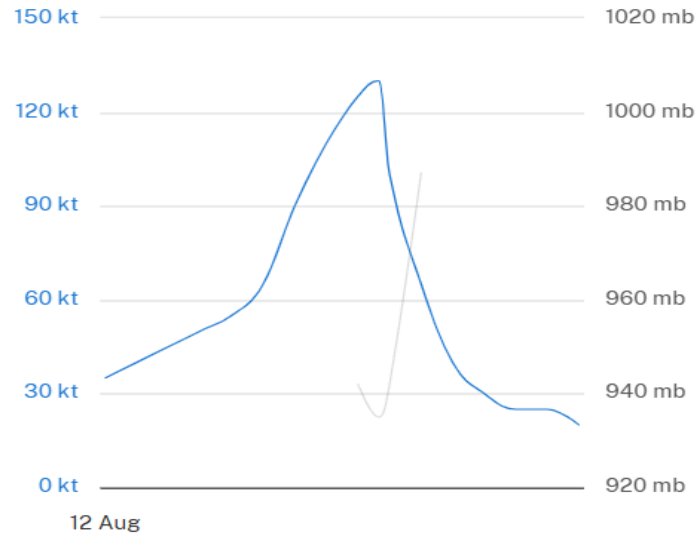
H4

Maximum  
Category

935.0

Minimum  
Pressure (mb)

## WIND AND PRESSURE



Unnamed 1932 (-60 hrs)





# HISTORICAL HURRICANE TRACKS

77002



CHANTAL 1989



## SEARCH AREA STATISTICS

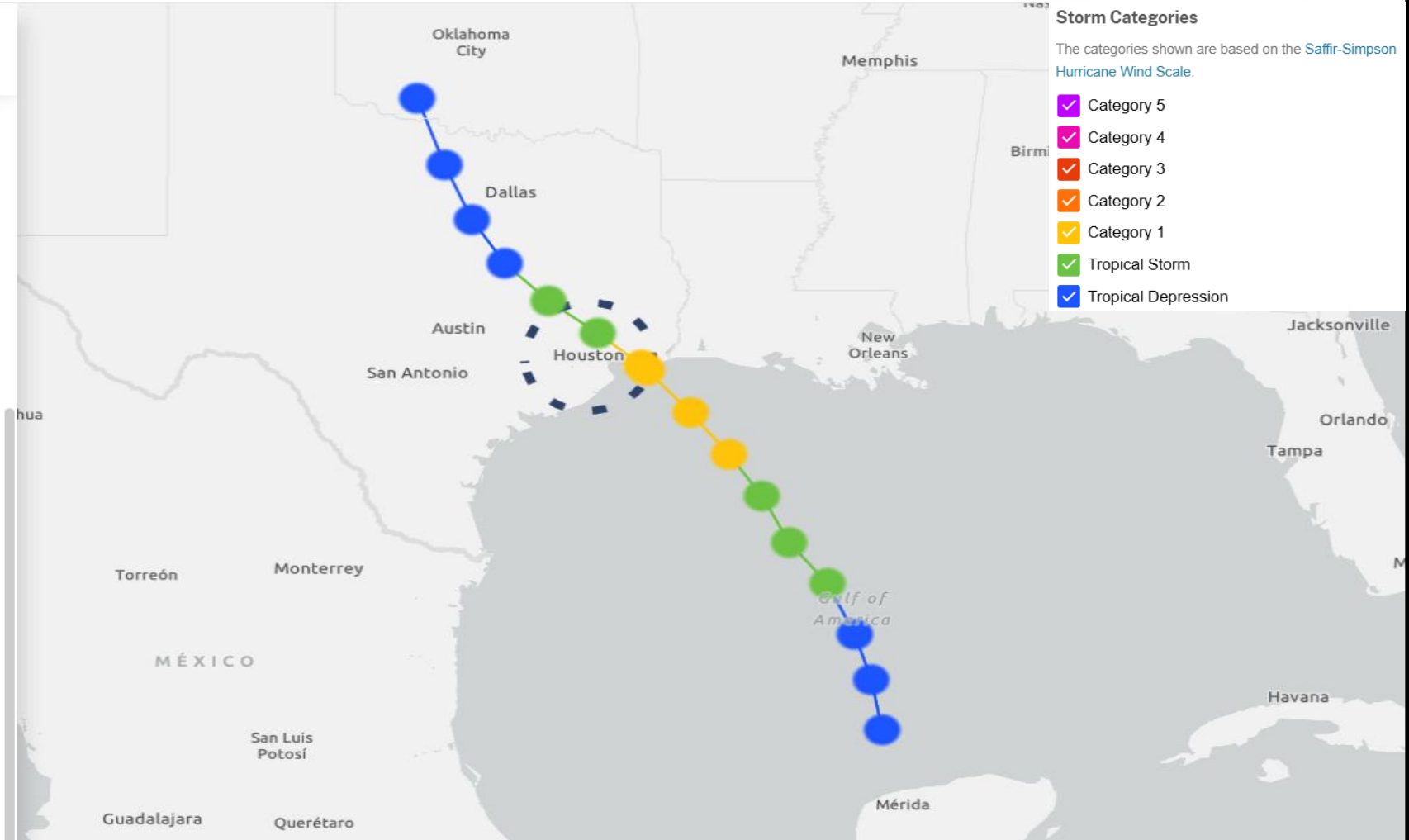
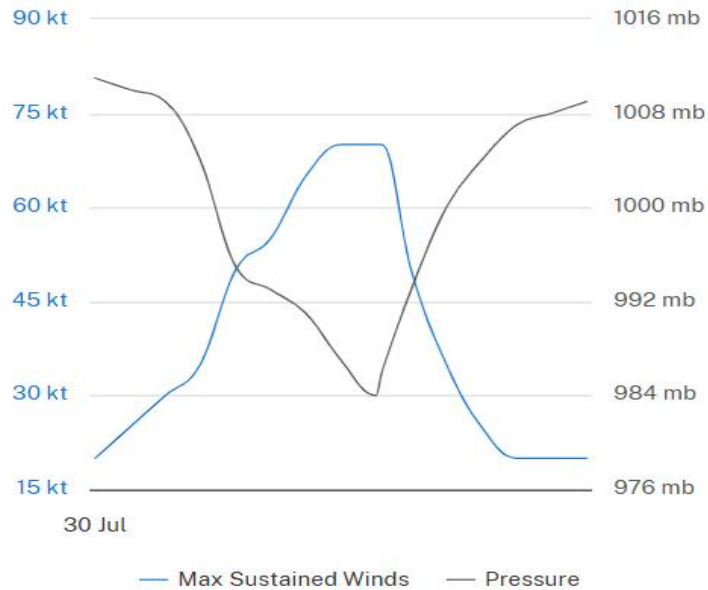
H1

Maximum  
Category

984.0

Minimum  
Pressure (mb)

## WIND AND PRESSURE



## Storm Categories

The categories shown are based on the [Saffir-Simpson Hurricane Wind Scale](#).

- ☒ Category 5
- ☒ Category 4
- ☒ Category 3
- ☒ Category 2
- ☒ Category 1
- ☒ Tropical Storm
- ☒ Tropical Depression

Chantal 1989 (-54 hrs)







# HISTORICAL HURRICANE TRACKS

77002



## HUMBERTO 2007



### SEARCH AREA STATISTICS

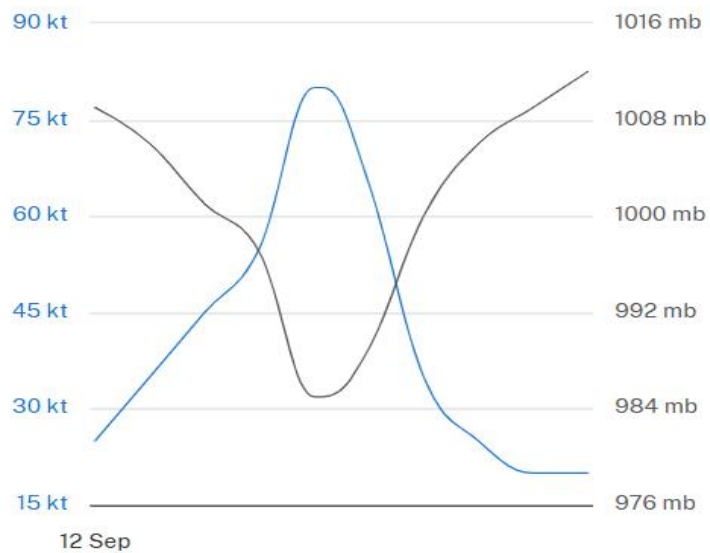


Maximum  
Category

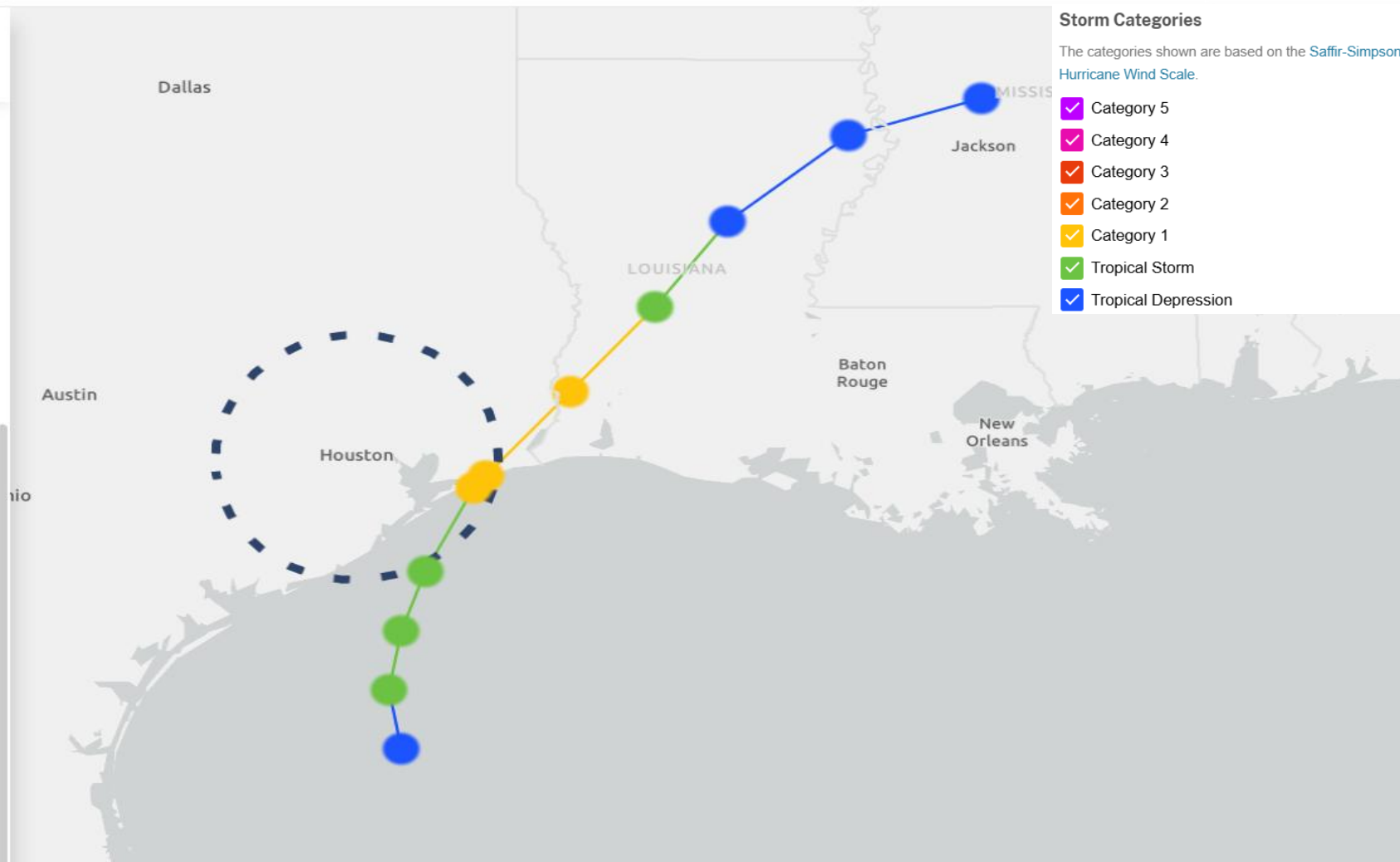
985.0

Minimum  
Pressure (mb)

### WIND AND PRESSURE



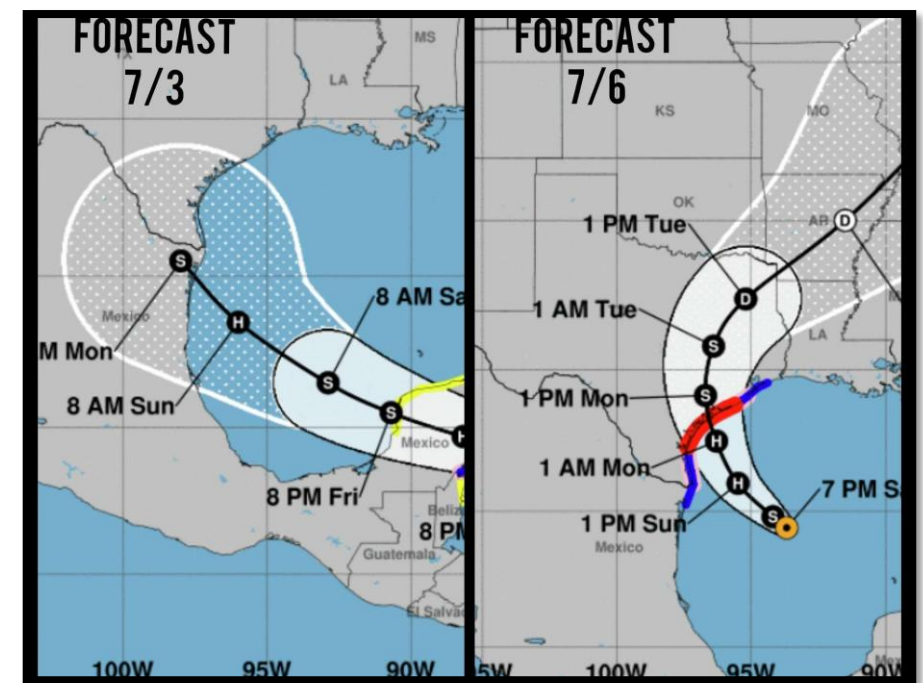
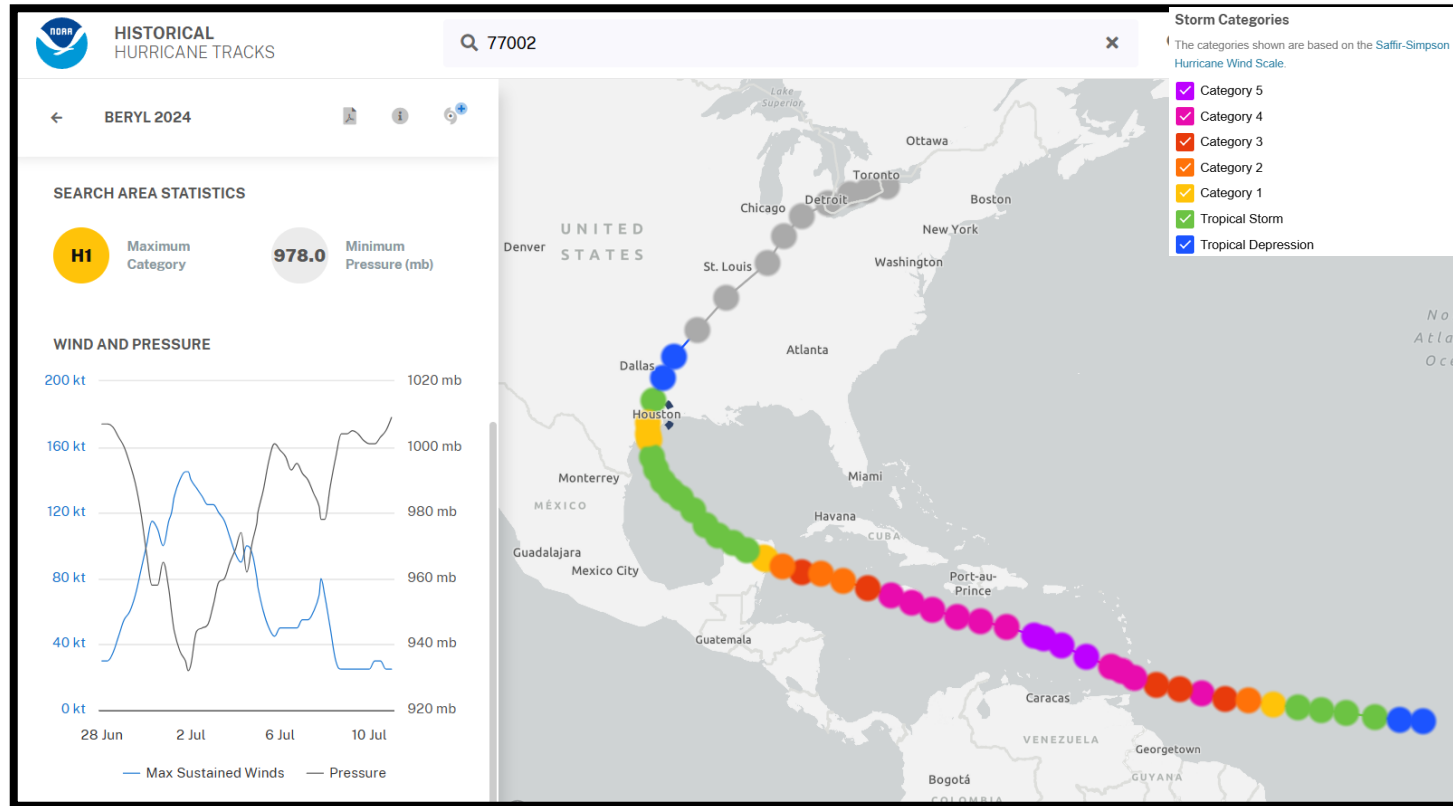
— Max Sustained Winds — Pressure



# Humberto 2007 (-32 hrs)



# Beryl 2024



# 2025 HURRICANE SEASON FORECAST

	NOAA	CSU	AVG.	2024
▶ NAMED STORMS	13-19	17	14	18
▶ HURRICANES	6-10	9	7	11
▶ CATEGORY 3+	3-5	4	3	5



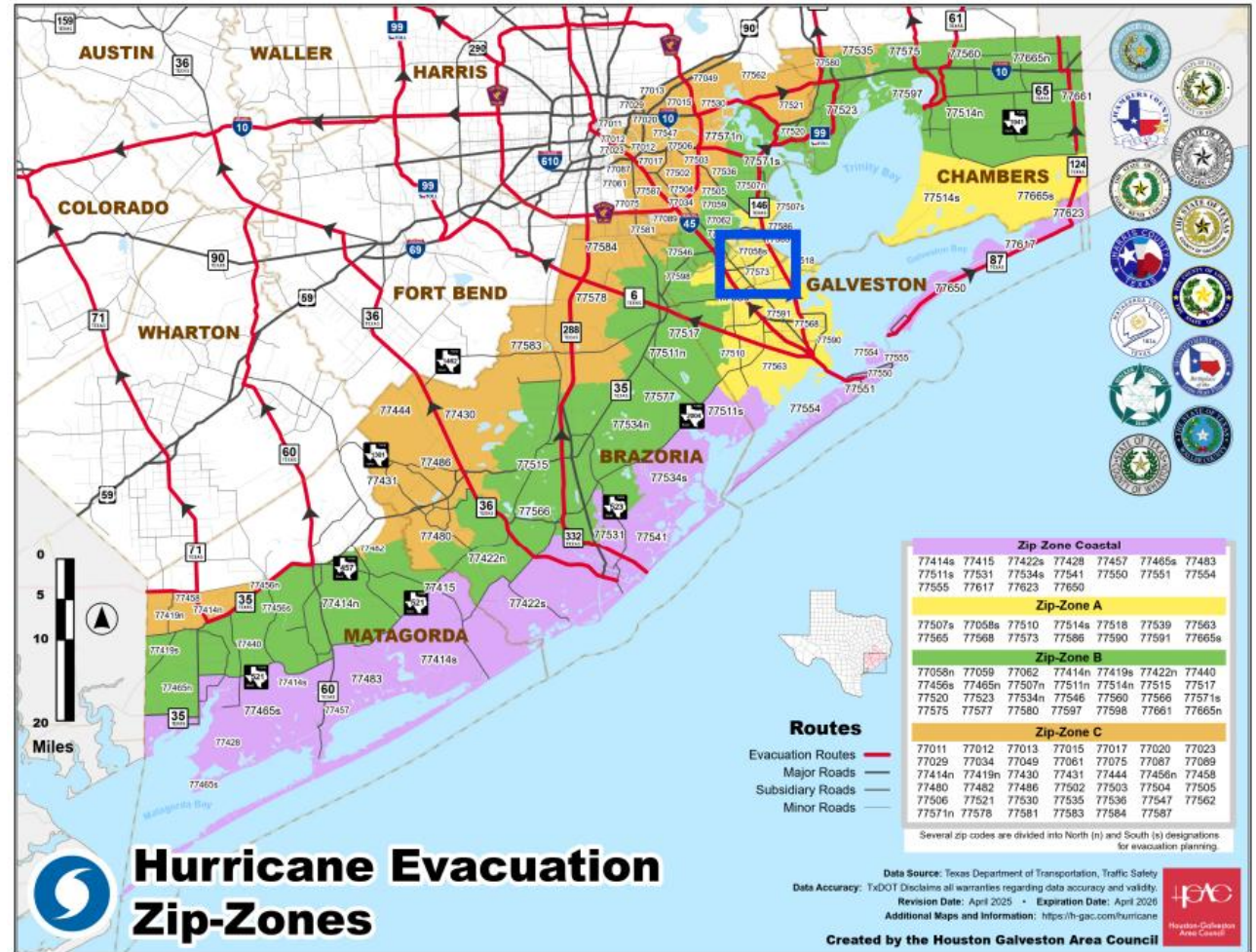
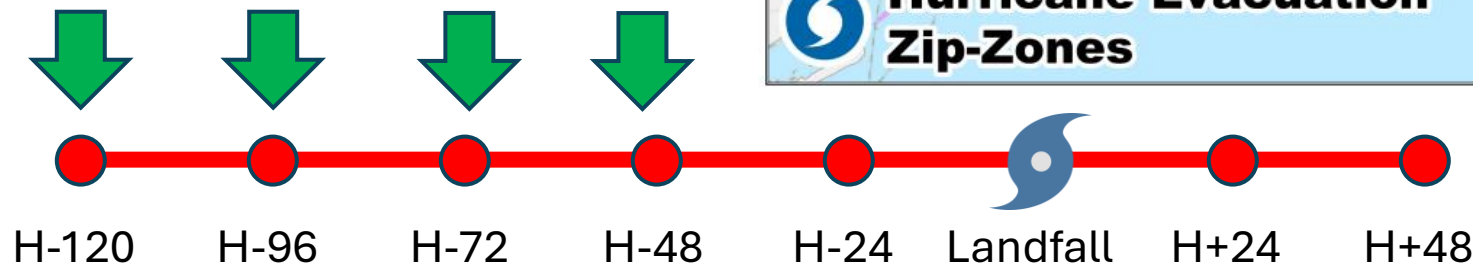


# Before the Storm



# Monitor, Prepare, Minimal Cost

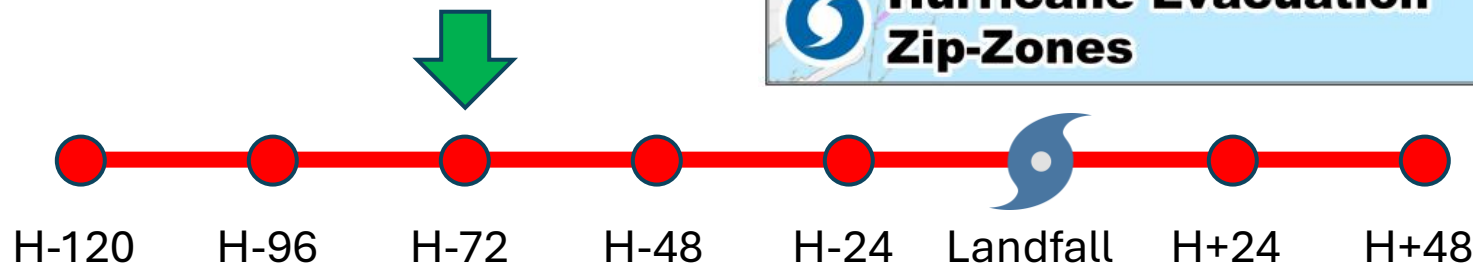
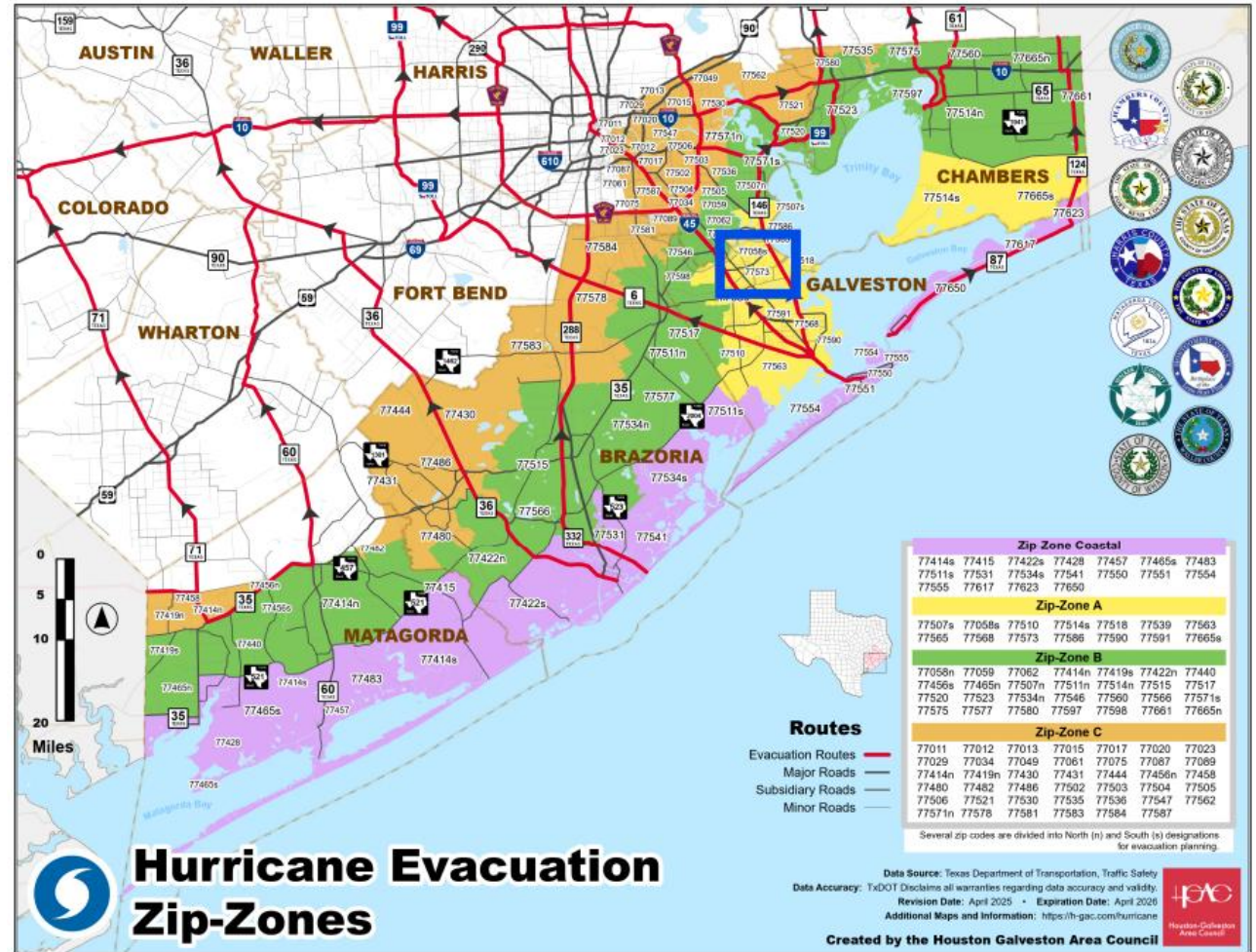
- Monitor storm development and forecast
- Public messaging via traditional and social media
- Facilities, critical supplies, staffing
- **Coordinate regional evacuation timing – TBD**
- Facility, equipment, and personnel preparedness





# Monitor, Prepare, Execute

- Activate EOC
- **Monitor evacuations**
  - **Coastal Zone**
  - **Zone A**
- Position commodities and equipment
- Final storm preparedness
- Suspend non-essential City Services
  - **50 mph sustained winds**
- Recall Rideout Teams



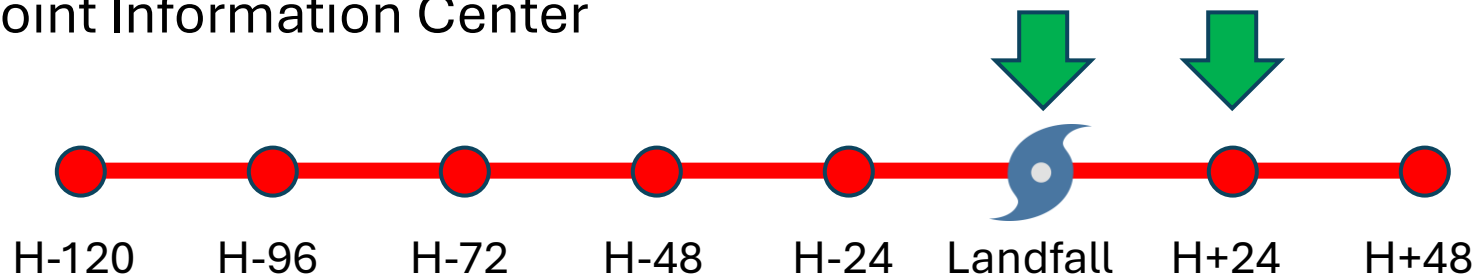


# During the Storm



# Impact/Response

- Monitor ongoing impacts
  - 911, 211, 311, field assessments
  - Critical Infrastructure
- Coordinating shelters
- Coordinating distribution of resources
- Coordinating with all local, state and federal partners
- Pushing out constant info to the public via socials, media, press conferences, alerts, etc. in our Joint Information Center



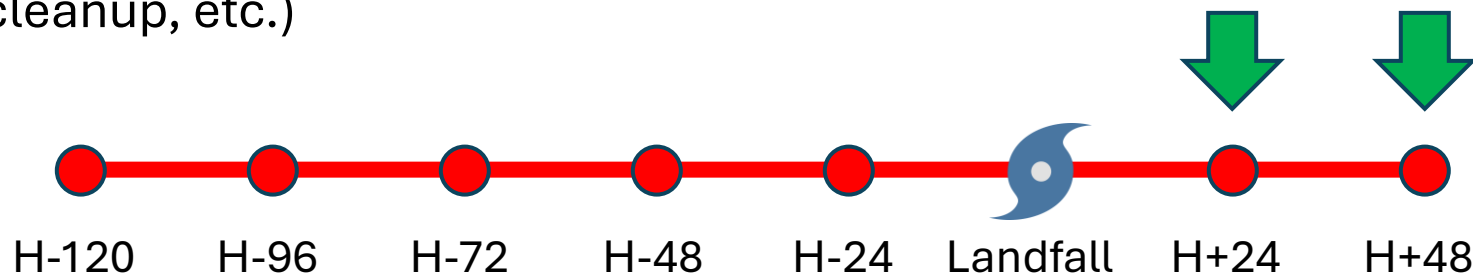
# After the Storm





# Recovery/Post Phase

- Develop rapid understanding of impacts after the storm
  - 911, 211, 311, field assessments
  - Critical Infrastructure
- EOC begin demobilizing
- Coordinate shelters closing
- Coordinate distribution of ongoing resources
- Coordinate Recovery Centers with FEMA
- Begin Recovery public messaging via socials, media and alerts (locations of resources, financial aid assistance, safety tips for debris cleanup, etc.)



# EOC Processes





# Situational Awareness and Information Sharing

- Facilitate a coordinated response with common operating picture and good situational awareness





# The Four Principles of Preparedness



**Make a Plan**



**Stay Informed**



**Build a Kit**



**Get Connected**



# Make a Plan



- Make a plan for sheltering in place and a plan for evacuation
- Know how to communicate with loved ones
- Practice your plan with your family

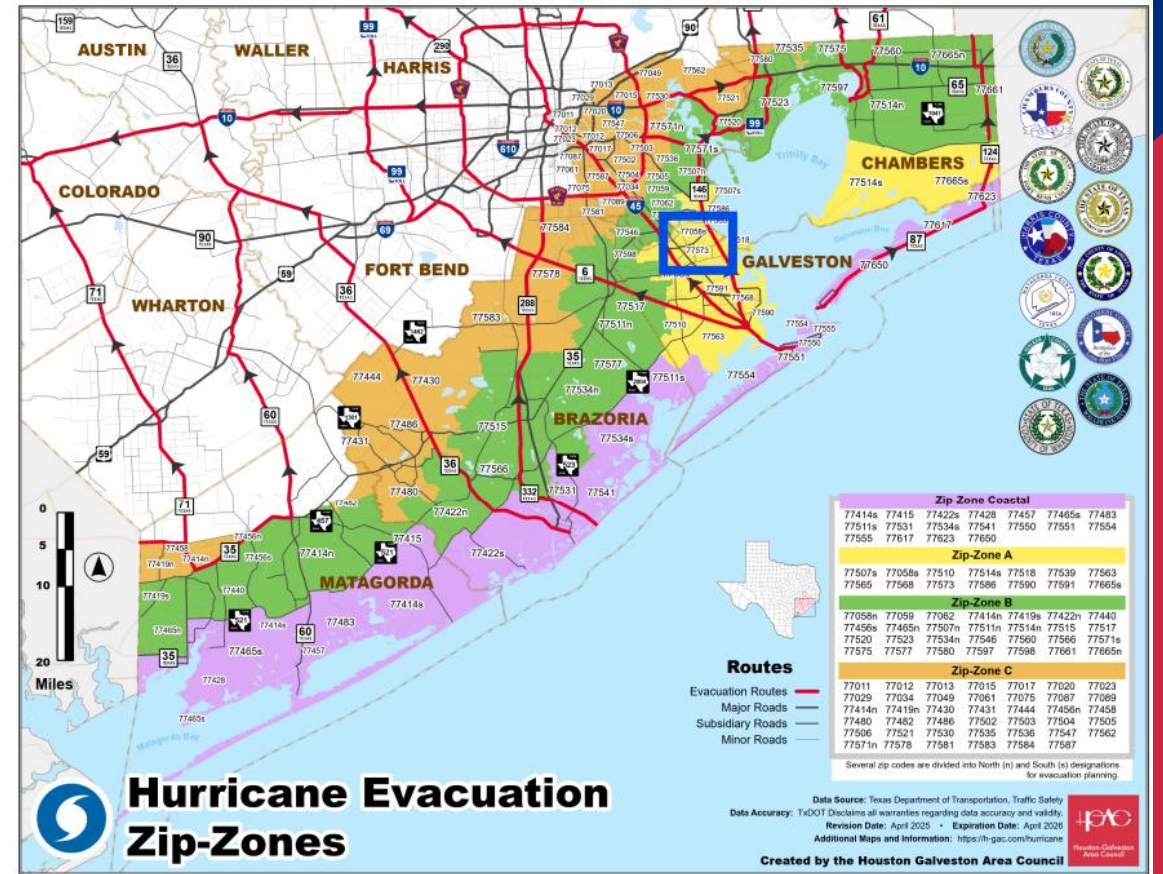




# Make a Plan: Evacuation Zip Zone Map



- Know your zone
- Plan your route and destination
- Have a go-bag ready
- Keep your gas tank half full during hurricane season

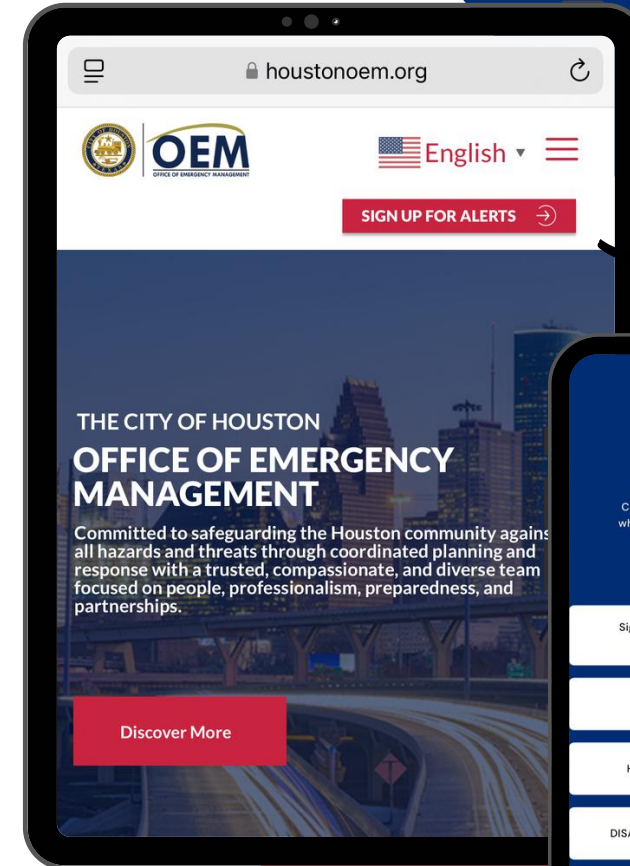




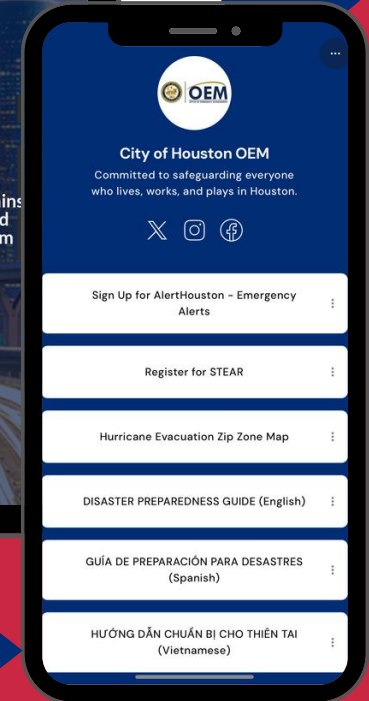
# Stay Informed



- Sign-up for AlertHouston (text AlertHouston to 888777)
- Follow us on our social media platforms
- Follow trusted sources



**ALERT  
HOUSTON**



@HoustonOEM



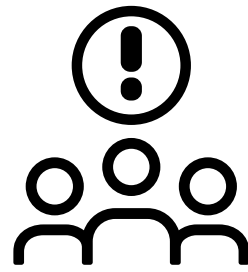
# Build a Kit

- Copies of important documents
- Radio with extra batteries
- Flashlight, candles
- Toiletries
- Food & Water (7-day supply per person)
- Cash
- Medicine (7-day supply per person)
- Kit for Kids (diapers, formula, toys)
- Kit for Pets (immunization records, leash, carrier)





# Get Connected



- Neighbors can be a resource
- Share supplies and skills
- Strong communities recover faster
- Check on each other
- Build a Network (Volunteer, CERT)





# Resources



- Visit [HoustonOEM.org](https://HoustonOEM.org).
- Register for AlertHouston or STEAR.
- View Disaster Preparedness Guides in your preferred language.
- Follow our Social Media pages @HoustonOEM
- Request a presentation or booth from our team



# Q&A

## Contact:

Brian Mason  
Director, Houston OEM  
[brian.mason@houstontx.gov](mailto:brian.mason@houstontx.gov)  
Phone: 832-358-1996

