



# A Community Conversation about Storm Preparedness

Tuesday September 10, 2019

6 pm

Truro Community Center

# Schedule

6:00 pm	Sign in, Meet & Greet with refreshments and ALERTruro sign up
6:15 pm	Welcome
6:20 pm	Truro Emergency Management Team Presenters
6:35 pm	County Presenters
6:55 pm	Community preparations & resources
7:00 pm	General Community Questions & Discussion
7:25 pm	Closing Remarks
	ALERTruro & Neighborhood Captain sign ups

# Forum Goals

- Provide planning and preparedness information to the community
- Start a community conversation about how we prepare and respond to storm emergencies locally
- Answer community questions
- Link participants to local initiatives (ALERTruro, Neighborhood Captains, Elders of Concern list, Town & County resources)
- Hear about lessons learned from storms in our region
- Identify Next Steps

# Be Prepared



## Truro's Emergency Management Team

- Interdepartmental team of Town Manager's Office and department heads/ supervisors (Introductions)
- Overview
- In times of weather-related emergencies, our team focuses our resources on three (3) key areas:
  - *Planning* for the event (i.e. pre-event meeting—coordinating with other departments and agencies, determining staffing needs, identifying/securing resources and equipment);
  - *Responding* to emergencies and call requests during the event;
  - *Reviewing* our response to constantly seek ways to improve our services (i.e. after-action reports).
- Initiatives



**NEIGHBORHOOD CAPTAINS  
NEEDED IN TRURO**  
EMERGENCY PREPAREDNESS STARTS AT HOME

# Department: Fire/ Rescue

- Emergency Management Director (point of contact for outside resources) and communicate out to Emergency Management Team and to public
- Coordinates staging of Eversource and other resources in area
- Staffing levels
- Review all equipment, prepare building for public use
- Secure scenes of down wires/ trees

# Department: Police

## Truro Police Department's Role

Since Truro Police is a public safety agency, some of our main priorities will include:

- Protecting our citizens and visitors (i.e. responding to calls, monitoring traffic patterns, closing dangerous areas);
- Maintaining public order as needed (i.e. altering traffic patterns, carrying out evacuations);
- Providing support to other agencies and entities (i.e. traffic control for utility companies, reporting unsafe conditions, conducting well-being checks);
- Anticipating problem areas (i.e. pre-event parking bans).

# Department: Police

## Truro Department's Role (continued)

- Truro Police has procedures specific to weather events and natural disasters.
- These include those anticipated (i.e. hurricane) or those that with little or no warning (i.e. tornado).
- The procedures enhance our effectiveness and efficiency in helping our residents.
- We generally increase our staffing for weather events. Our goal is to always provide a high level of service to our community.

# Department: Public Works

- Prepare five days prior to storm event
- DPW meeting – Determine staff availability
- Asset inventory – Accomplish maintenance as needed
- Stage sensitive areas in advance as needed - Mill Pond Rd, Truro Center Rd, Eagle Neck Creek, Ballston Beach, Longnook Beach, South Pamet Rd.
- 12 operational staff members
- 6 predetermined routes for tree removal with 12 staff members 2 per truck. (without snow)
- 9 staff members for snow events 8 active plows with 2 spare plow trucks and 3 additional staff members will be called in as needed. Sanding only event= 5 staff members.
- Significant assets - 2 front end loaders – 1 skid steer with snow blower, 10 plow trucks, catch basin cleaner, wood chipper, personal lift.

# Department: Council on Aging

- Elders of Concern
  - A list of community members that they believe could use assistance during an emergency collected by the Council on Aging. Typical members of this group live alone, have a disability, use oxygen or other special medical equipment. You can be added to this list by contacting the Truro Council on Aging at (508)413-9508. Once on this list the Truro Council of Aging or a member of Truro Public Safety will contact these individuals prior to an emergency to ensure they are properly prepared and after an emergency to ensure they are ok.
- Transportation Assistance
  - If needed, the Council on Aging will help clients arrange rides to shelters in advance of storms and other times it is safe to travel.

# Be Prepared

Expert Perspective: Hurricane Season 2019

Frank O'Laughlin, Meteorologist



# Hurricane Season New England 2019



# 2018 Season Recap



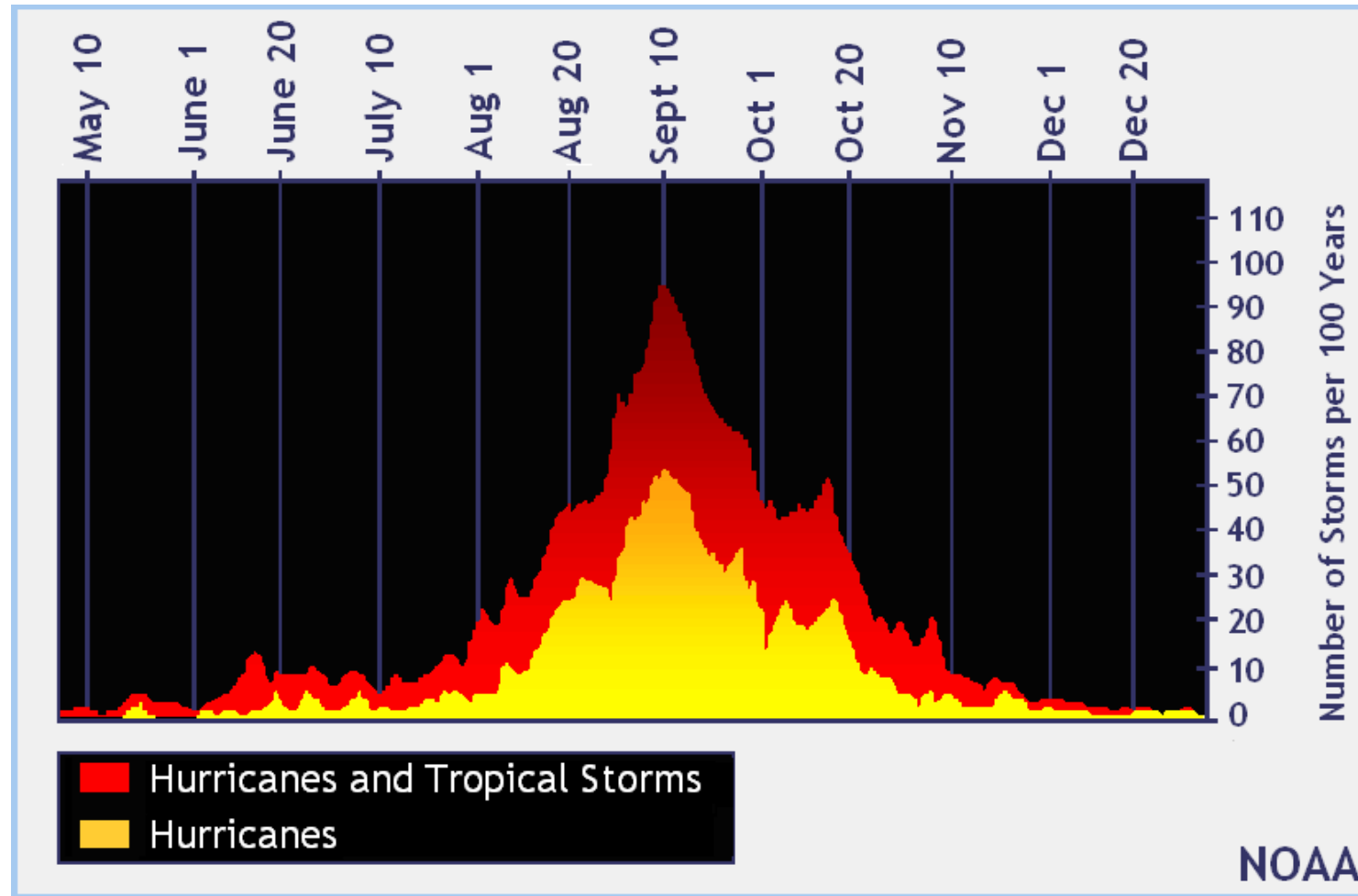
# 2019 Tropical Names



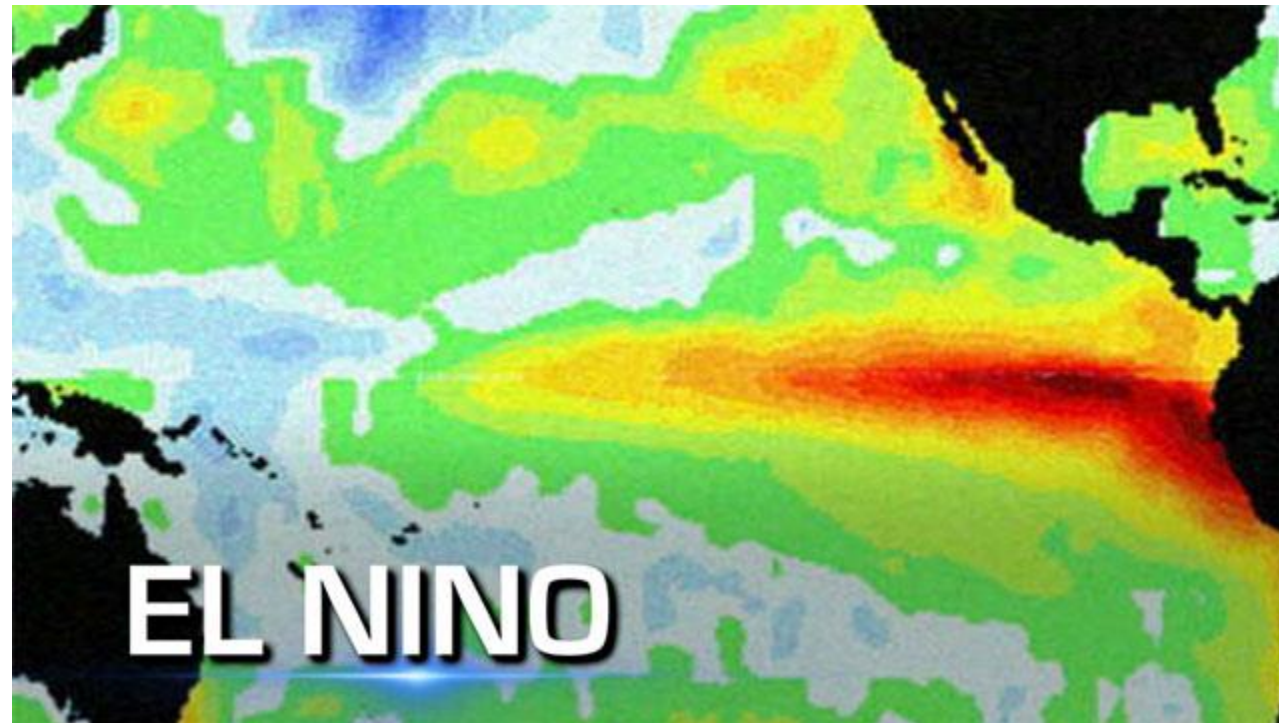
# Seasonal Forecasts

2019 FORECAST AS OF 5 AUGUST 2019		
Forecast Parameter	CSU* Forecast	1981-2010 Average
Named Storms (NS)	14	12.1
Named Storm Days (NSD)	55	59.4
Hurricanes (H)	7	6.4
Hurricane Days (HD)	20	24.2
Major Hurricanes (MH)	2	2.7
Major Hurricane Days (MHD)	5	6.2
Accumulated Cyclone Energy (ACE)	105	106
Net Tropical Cyclone Activity (NTC)	110	116
*Forecast numbers include Andrea and Barry		

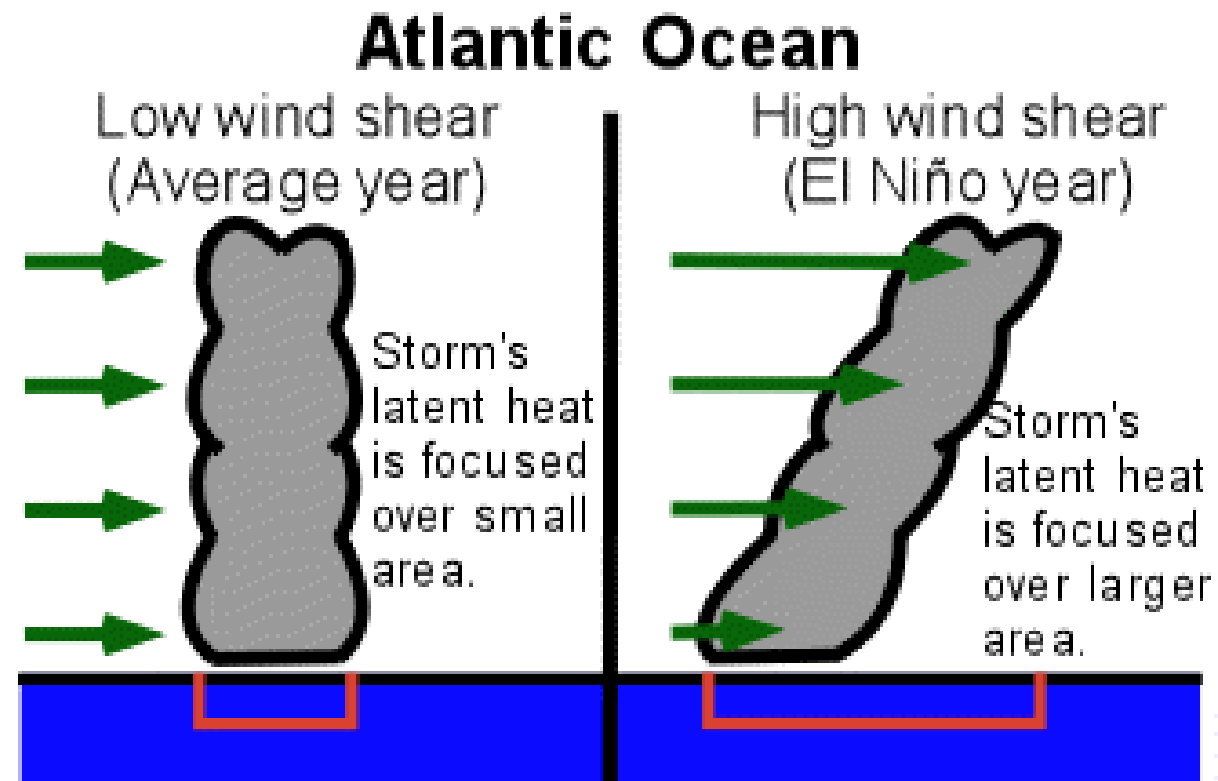
# Hurricane season peak



# El Nino

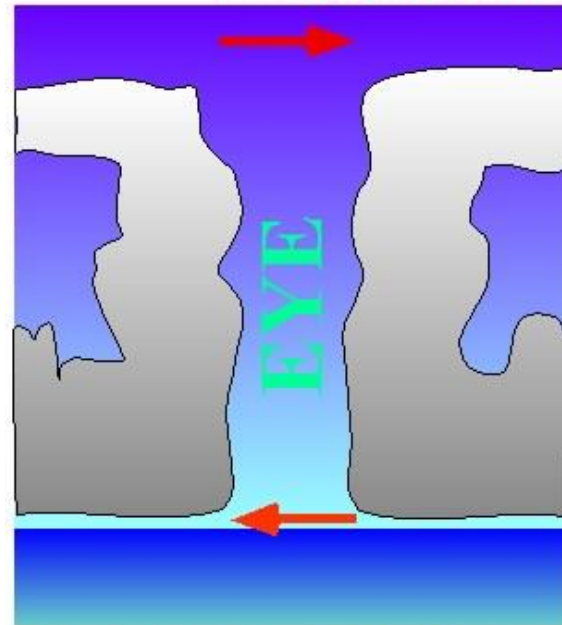


# El Nino 2

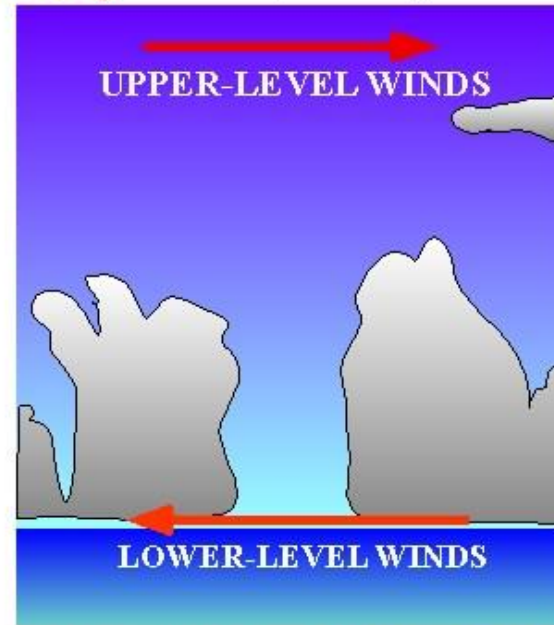


# El Nino 3

## Effects of Vertical Wind Shear ( $V_z$ ) on Tropical Cyclones



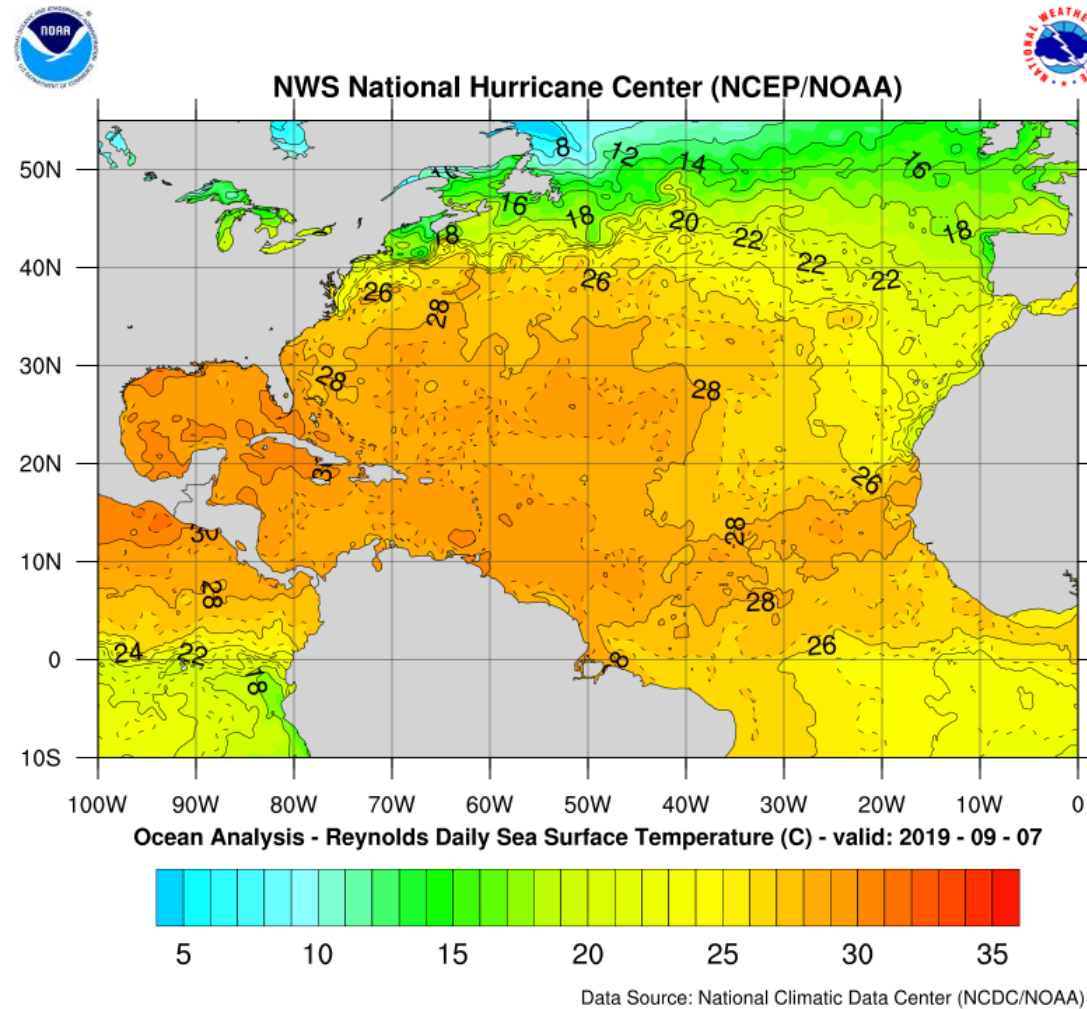
**WEAK SHEAR = FAVORABLE**



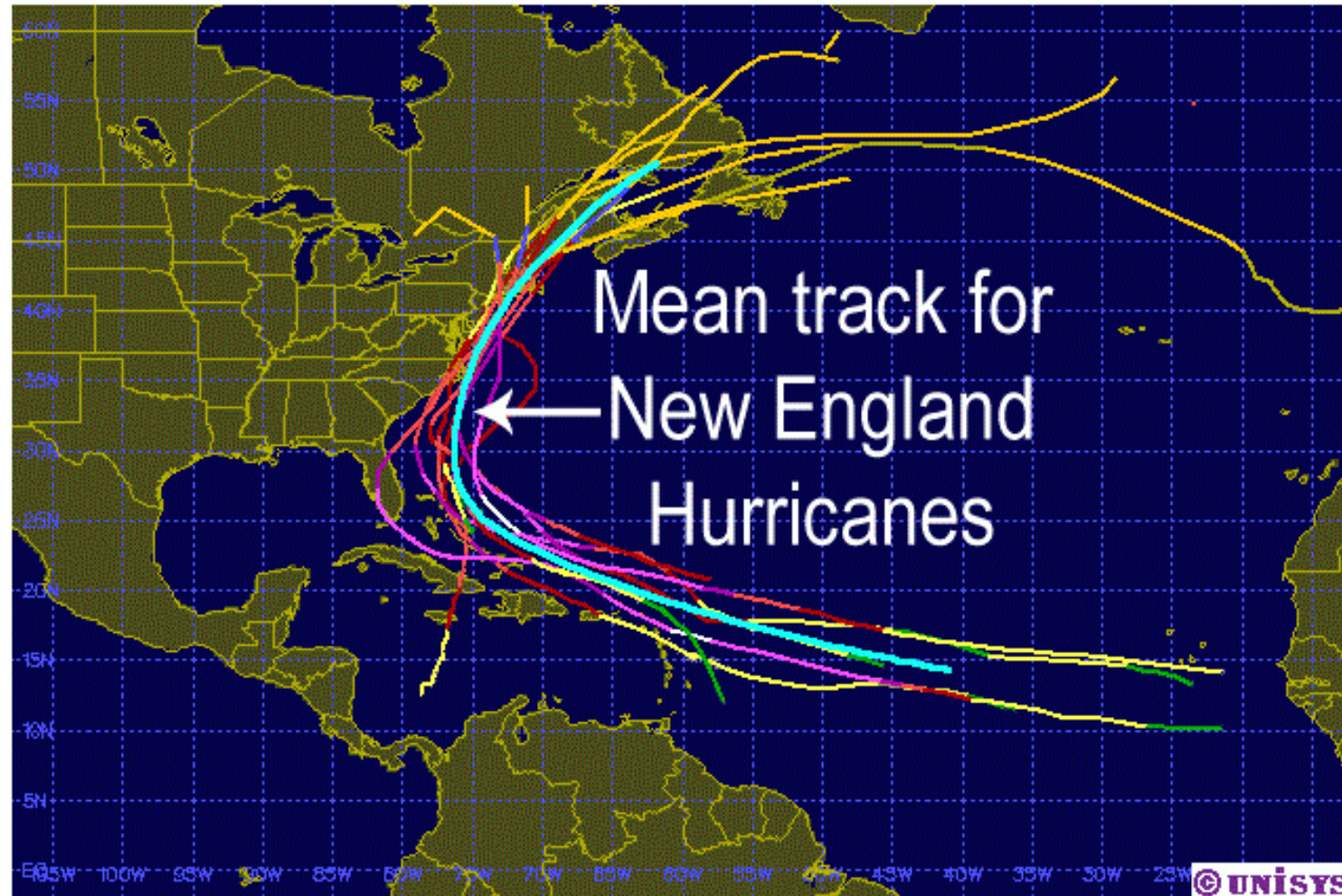
**STRONG SHEAR = UNFAVORABLE**



# Sea surface temperatures June 2019



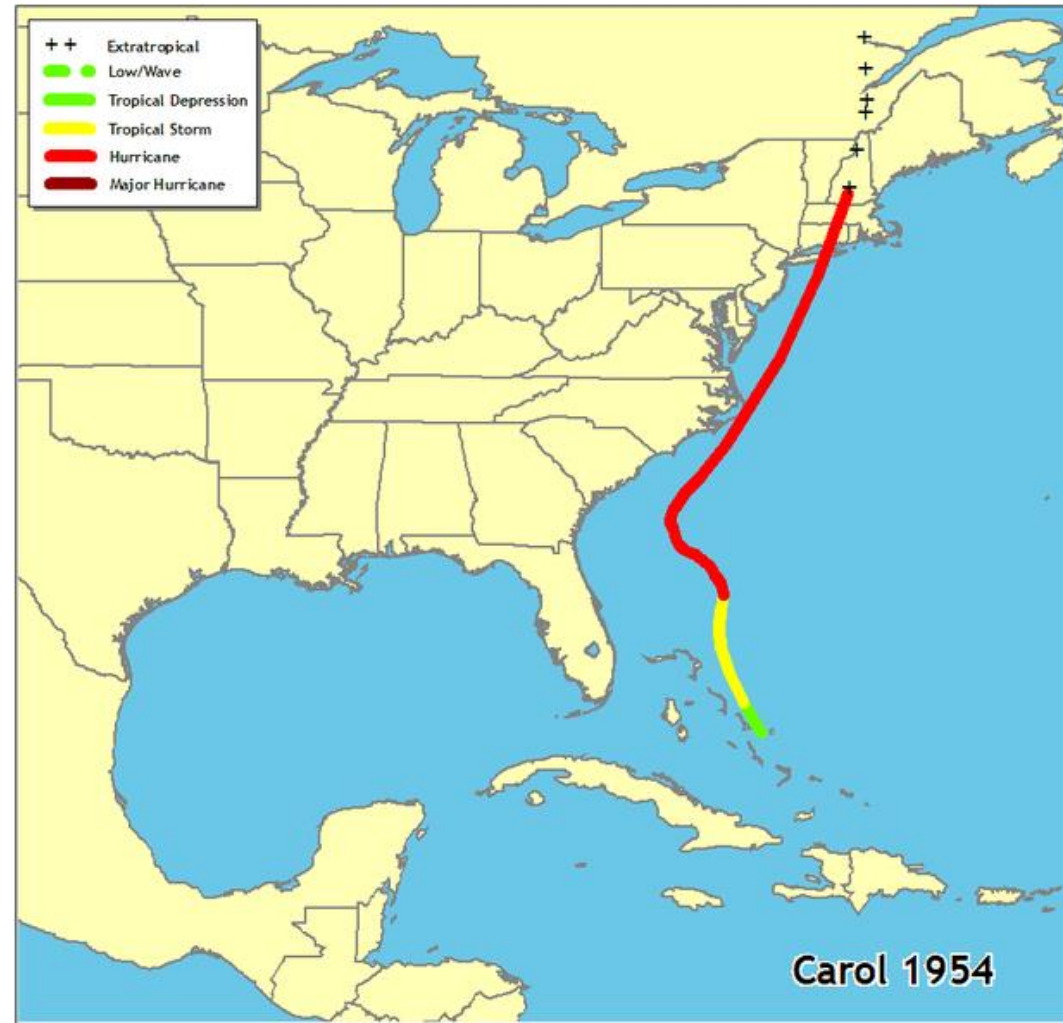
# Tropical Cyclone Tracks



# New England Hurricane 1938



# Hurricane Carol 1954



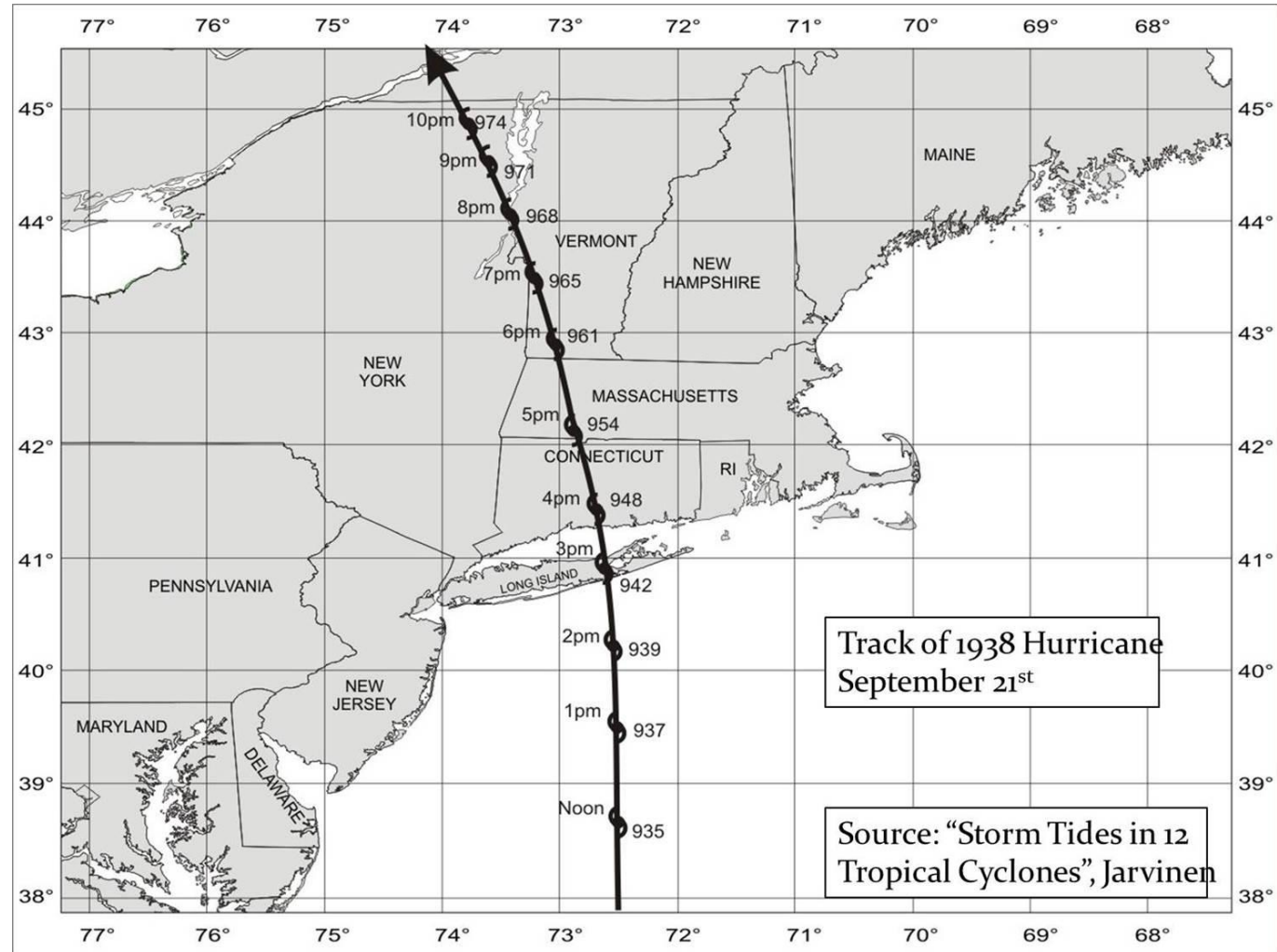
# Hurricane Bob 1991



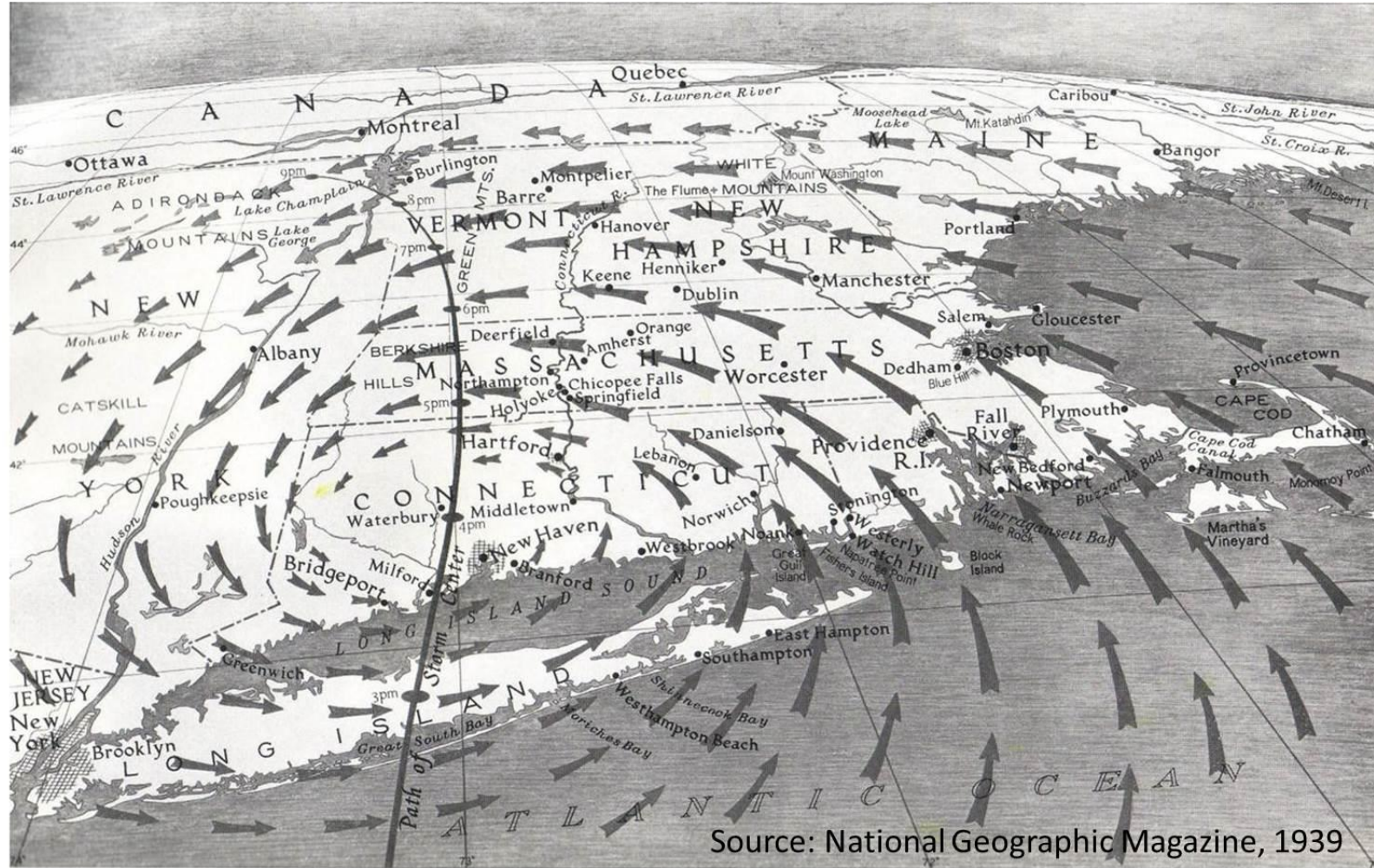
# Transition from tropical to extratropical

EXTRATROPICAL	TROPICAL
-FUELED BY TEMPERATURE CONTRAST	-FUELED BY OCEAN HEAT
-NOT SYMMETRICAL	-SYMMETRICAL
-SPREAD OUT STRUCTURE	-MORE COMPACT STRUCTURE

# 1938 Hurricane



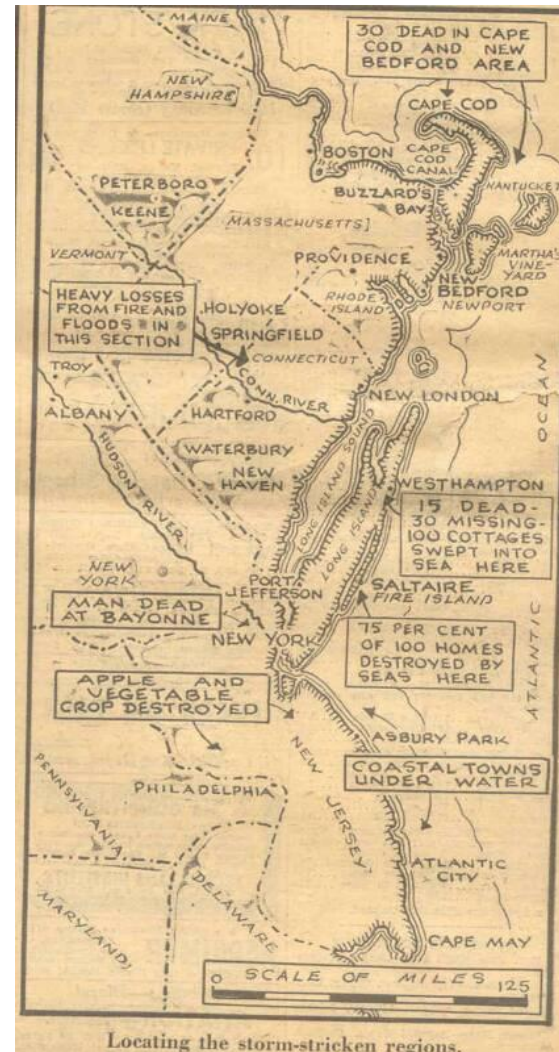
# 1938 Hurricane II



# 1938 Hurricane III



# 1938 Hurricane IV



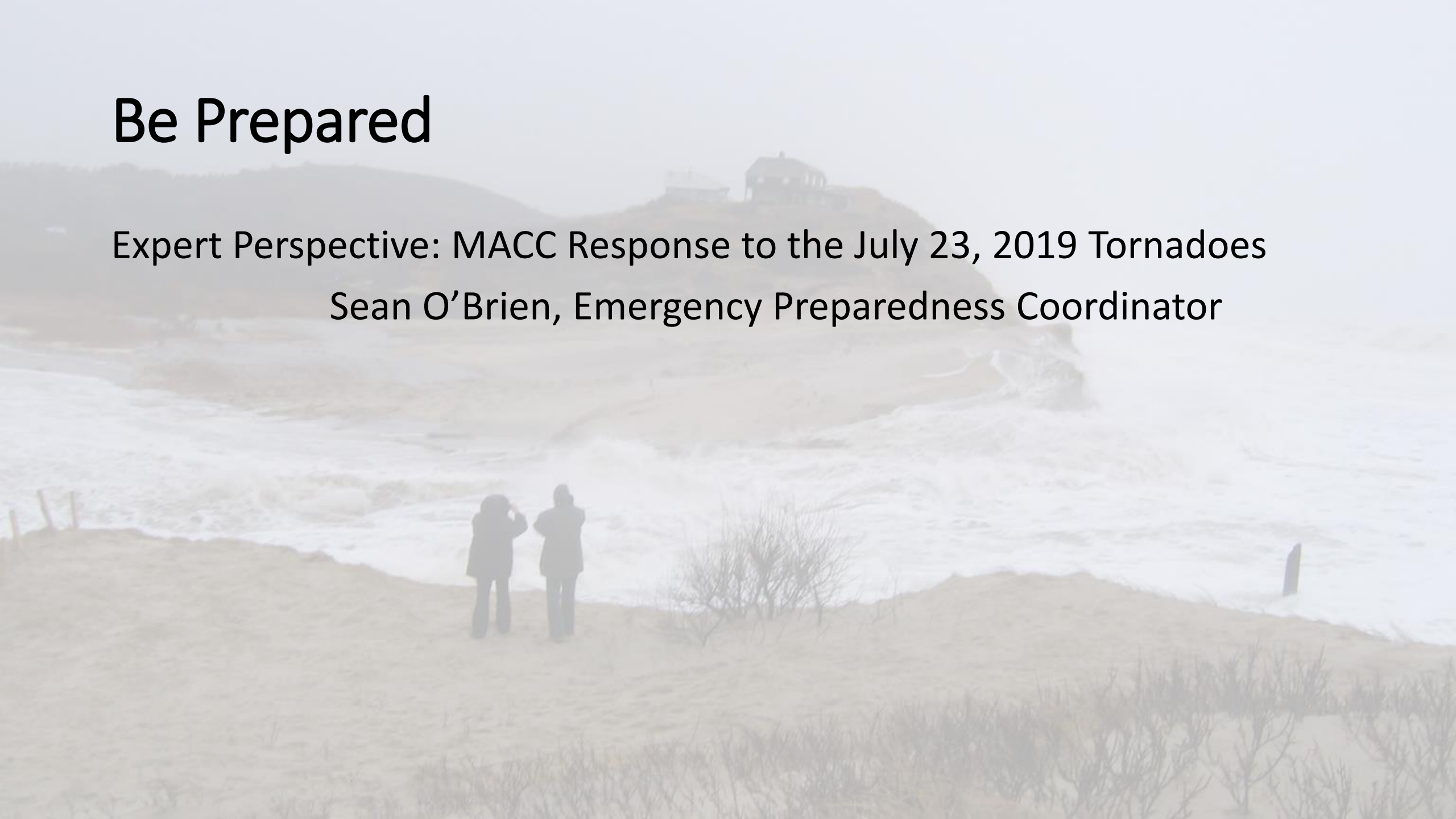
# Last headline and *Warning*

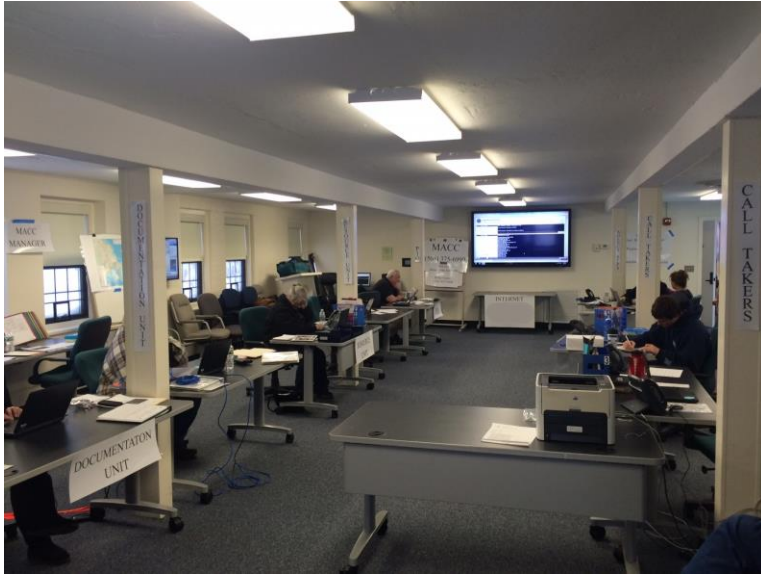


# Be Prepared

Expert Perspective: MACC Response to the July 23, 2019 Tornadoes

Sean O'Brien, Emergency Preparedness Coordinator





**BCREPC**  
BARNSTABLE COUNTY  
REGIONAL EMERGENCY PLANNING COMMITTEE



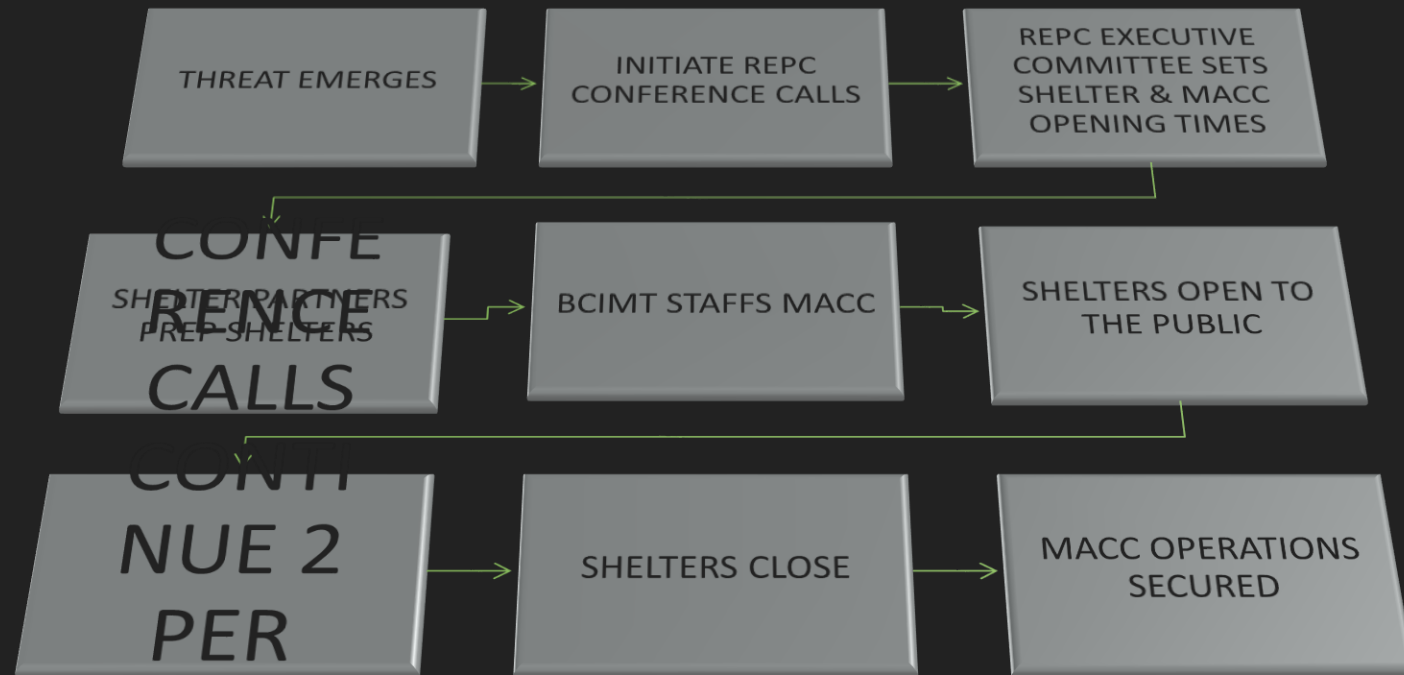
- **TRURO BOARD OF SELECTMAN MEETING 9/10/19**
- **CAPE COD TORNADOES**
- **HURRICANE AND TORNADO SAFETY**

# **WEATHER PREPAREDNESS**

- ▶ **BCREPC ASSISTS THE 15 COMMUNITIES ON CAPE COD WITH A REGIONAL APPROACH TO PLANNING FOR WEATHER RELATED EMERGENCIES.**
- ▶ **THE TOWNS PROVIDE THE RESPONSE TO THEIR CITIZENS DURING THE EMERGENCY EVENT, BCREPC SUPPORTS THEIR EFFORTS THROUGH PROVIDING THEM WITH THE FOLLOWING SERVICES:**
  - ▶ **REGIONAL SHELTERING**
  - ▶ **SINGLE REGIONAL POINT FOR RESOURCE REQUESTS**
  - ▶ **REGIONAL SITUATIONAL AWARENESS**
  - ▶ **POWER RESTORATION**
- ▶ **WE HAVE NOT HAD A HURRICANE AFFECT THE REGION IN OVER 25 YEARS BUT WE HAVE HAD QUITE A BIT OF EXPERIENCE WITH RESPONSE TO WINTER STORMS.**



# OPERATIONS TIMELINE FOR THE REPC DURING LARGE SCALE EVENT



# **MULTI-AGENCY COORDINATION CENTER**

**OPERATED AND MANAGED BY THE BC IMT**

**COORDINATES REGIONAL RESOURCE  
ACQUISITION AND SHARES INFORMATION**

**WORKS WITH THE FOLLOWING ENTITIES  
DIRECTLY AND INDIRECTLY:**

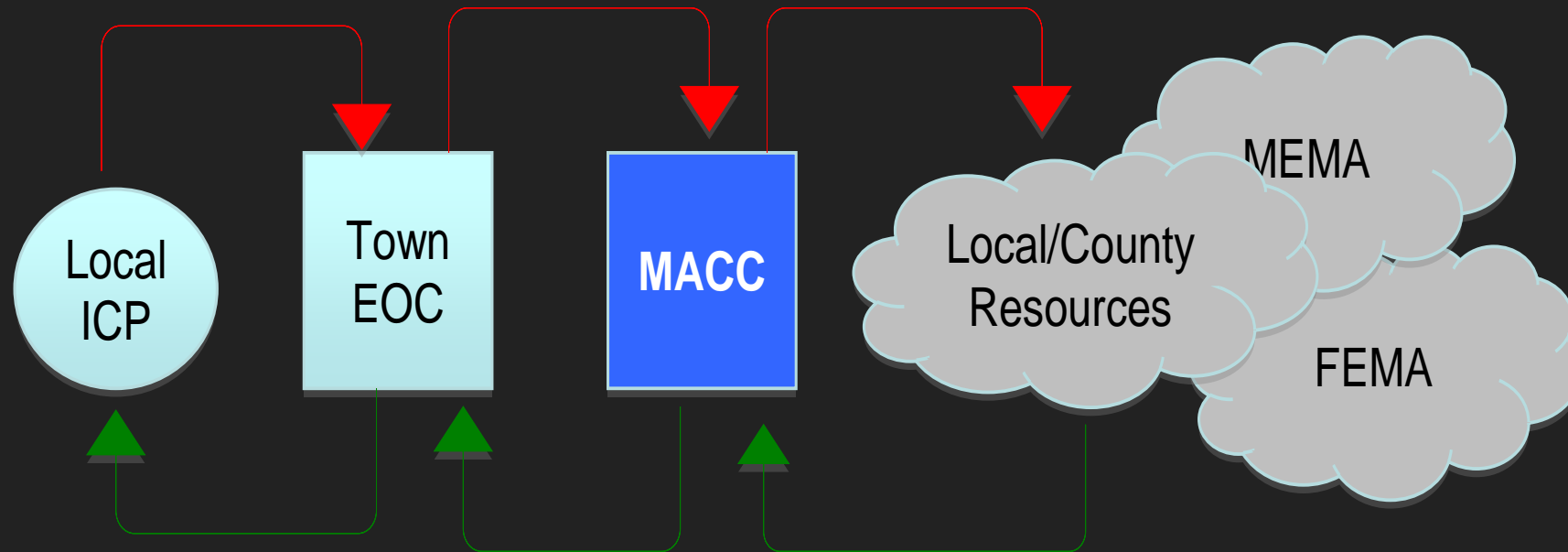
- ▶ **TOWN EOCs**
- ▶ **NEIGHBORING COUNTY EOCs – PLYMOUTH,  
DUKES AND NANTUCKET**
- ▶ **PRIVATE ORGANIZATIONS AND AGENCIES**
- ▶ **UTILITIES, HEALTHCARE FACILITIES,  
REGIONAL TRANSIT AUTHORITY, RED CROSS,  
AND OTHER NGOS**
- ▶ **MEMA / FEMA**
- ▶ **FIRST REGIONAL RESPONSE IN MA.**



# BARNSTABLE COUNTY REPC

*Local ICP requests resource.*

*The MACC tries to fill all incoming requests locally before seeking state or Federal assistance*



*If town can't fill request it goes to the MACC*



### CAPE COD TORNADOES 7/23

- ▶ On July 23, 2019 3 Tornadoes struck Cape Cod, Towns of Mashpee, Barnstable, Yarmouth Dennis Harwich, Brewster, Chatham
- ▶ Many buildings damaged, 56 K without power, no serious injuries
- ▶ MACC opened within one hour of storm touchdowns. Stayed open for 4 Operational Periods
- ▶ Shelters opened at 7:00 p.m. that evening..

▶ Photo Courtesy of Chatham Police Department



## CAPE COD TORNADOES 7/23

- ▶ MACC assisted impacted communities with resource requests.
- ▶ All Utilities Impacted.
- ▶ Assistance from many State, local and regional agencies.
- ▶ Power restoration was 95% completed by Thursday afternoon.
- ▶ Photo Courtesy of Associated Press

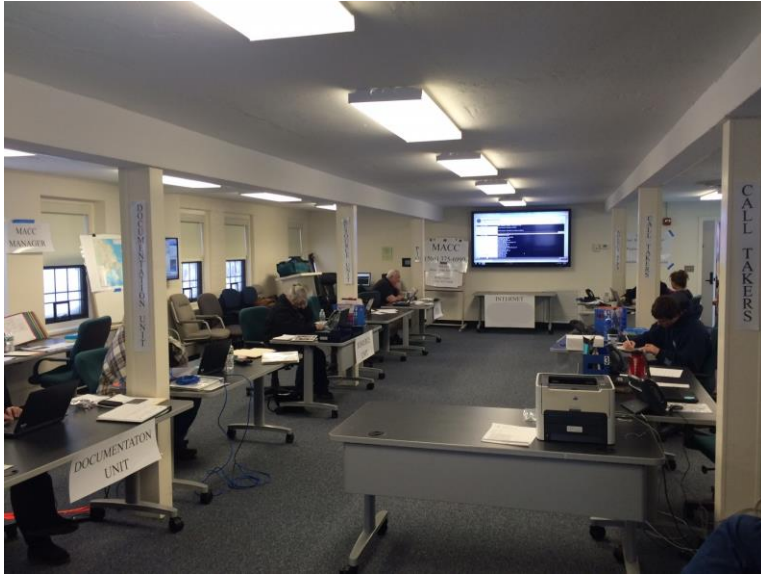


# TORNADO SAFETY TIPS

- ▶ Tornado Watch
- ▶ Tornado Warning
- ▶ Evacuate to basement of house or center of house if no basement. Have a radio handy.
- ▶ Have a hurricane kit available for a long duration power outages.
- ▶ Know where your shelter is in case you need it.
- ▶ Be careful of downed power lines.

▶ Photo Courtesy of Eversource





**BCREPC**  
BARNSTABLE COUNTY  
REGIONAL EMERGENCY PLANNING COMMITTEE



# QUESTIONS?

Sean O'Brien

**[SOBRIEN@BARNSTABLECOUNTY.ORG](mailto:SOBRIEN@BARNSTABLECOUNTY.ORG)**

# Community's Role

- What you can do
  - Communication is important! Information you provide helps us quickly identify safety concerns.
  - Be prepared! This helps to keep you, your family and your community safer.
  - Please promote safety during weather events:
    - Heed official warnings.
    - Notify the police department of possible safety concerns (i.e. wires down, flooding, road obstructions).
    - When in doubt, call! We would rather receive several calls about an unsafe condition instead of none.
- What we need to know from you during an event
- Debrief post-event
- Volunteer to be Neighborhood Captain

# NEIGHBORHOOD CAPTAINS NEEDED IN TRURO

EMERGENCY PREPAREDNESS STARTS AT HOME

You can help your neighborhood in an emergency by being a Neighborhood Captain. No special skills or experience needed!

## Neighborhood Captains:

- Communicate with neighbors to prepare for an emergency, to alert neighbors to an emergency, and to determine if anyone is in need of assistance.
- Communicate with local officials and first responders to receive and provide information before, during and after an emergency.
- Help identify neighbors that may have useful skills or equipment in the event of an emergency.

## Desired Qualifications:

- ⇒ Willingness to help!
- ⇒ Access to somewhat reliable communication.
- ⇒ Spends most of the year in the neighborhood.

To volunteer, please [click here](#)  
or call 508-214-0935



# How You Can Prepare

- ALERTruro
- Emergency Kits
- Checklist
- Elders of Concern



# Resources Available to Citizens

- Area Shelters
  - Provincetown
  - Nauset
- Warming/Cooling/Charging Stations
- Transportation



# Share Your Questions or Ideas

- How can we better assist you BEFORE a storm event?
- How can we better assist you DURING a storm event?
- How can we better assist you AFTER a storm event?
- What have you learned from your experiences with storms that may be useful for your neighbors and/or the Emergency Management Team?