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 ALERTTruro 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
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
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).
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

- The Florida Keys saw limited impacts from Alberto, Gordon, & Michael
- Both major hurricanes (Florence & Michael) made landfall in the US
- Florence brought flooding rainfall & storm surge to the Carolinas
- Michael devastated the Mexico Beach area in the Florida Panhandle with maximum sustained winds of 160 mph & storm surge over 10 ft
2019 Tropical Names

Andrea
Barry
Chantal
Dorian
Erin
Fernand
Gabrielle
Humberto
Imelda
Jerry
Karen

Lorenzo
Melissa
Nestor
Olga
Pablo
Rebekah
Sebastien
Tanya
Van
Wendy

09/010/2019 Frank O'Laughlin
Meteorologist

REPC Cape Cod
# Seasonal Forecasts

## 2019 FORECAST AS OF 5 AUGUST 2019

<table>
<thead>
<tr>
<th>Forecast Parameter</th>
<th>CSU* Forecast</th>
<th>1981-2010 Average</th>
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<tbody>
<tr>
<td>Named Storms (NS)</td>
<td>14</td>
<td>12.1</td>
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<tr>
<td>Named Storm Days (NSD)</td>
<td>55</td>
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<tr>
<td>Hurricanes (H)</td>
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<td>6.4</td>
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<tr>
<td>Hurricane Days (HD)</td>
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<td>Major Hurricanes (MH)</td>
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<tr>
<td>Major Hurricane Days (MHD)</td>
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<tr>
<td>Accumulated Cyclone Energy (ACE)</td>
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<td>106</td>
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<tr>
<td>Net Tropical Cyclone Activity (NTC)</td>
<td>110</td>
<td>116</td>
</tr>
</tbody>
</table>

*Forecast numbers include Andrea and Barry
Hurricane season peak

NOAA

- Hurricanes and Tropical Storms
- Hurricanes

09/010/2019 Frank O’Laughlin
Meteorologist
REPC Cape Cod
El Nino
El Nino 2

Low wind shear (Average year)

High wind shear (El Niño year)

Storm's latent heat is focused over small area.

Storm's latent heat is focused over larger area.
El Nino 3

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

- **Weak Shear = Favorable**
- **Strong Shear = Unfavorable**

09/010/2019 Frank O'Laughlin
Meteorologist

REPC Cape Cod
Sea surface temperatures June 2019

Ocean Analysis - Reynolds Daily Sea Surface Temperature (°C) - valid: 2019-09-07

Data Source: National Climatic Data Center (NCDC/NOAA)
Tropical Cyclone Tracks

Mean track for New England Hurricanes
New England Hurricane 1938

Track of The Great New England Hurricane of 1938
Hurricane Carol 1954
Hurricane Bob 1991
Transition from tropical to extratropical

**EXTRATROPICAL**
- Fueled by temperature contrast
- Not symmetrical
- Spread out structure

**TROPICAL**
- Fueled by ocean heat
- Symmetrical
- More compact structure
1938 Hurricane II

Source: National Geographic Magazine, 1939
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
• 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
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.
The MACC tries to fill all incoming requests locally before seeking state or Federal assistance. Local ICP requests resource. 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
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.
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

• ALERTtruro
• 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?