



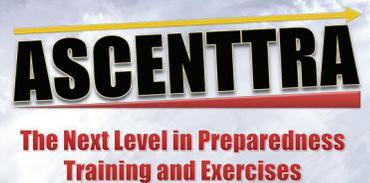
120 to Landfall: 2.0 Tabletop Exercise

Situation Manual
April 29, 2021

120 to Landfall



Coastal Evacuation
Exercise



This Situation Manual provides exercise participants with all the necessary tools for their roles in the exercise. Some exercise material is intended for the exclusive use of exercise planners, facilitators, and evaluators, but players may view other materials that are necessary to their performance. All exercise participants may view the Situation Manual.

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Exercise Overview

Exercise Name	120 to Landfall: 2.0 Tabletop Exercise	
Exercise Date	April 29, 2021	
Scope	This exercise is a four-hour tabletop exercise conducted virtually and in person at the New Bern Convention Center located at 203 S Front St, New Bern, NC 28560. In person attendance is limited due to current COVID-19 restrictions and all participants must use proper face coverings and maintain required physical distancing measures during conduct.	
Mission Area	Response	
Health Care Preparedness and Response Capabilities	<ul style="list-style-type: none">• Health Care and Medical Response• Continuity of Health Care Service Delivery	
Threat or Hazard	Category 4 hurricane	
Scenario	A category 4 hurricane is predicted to make landfall at Topsail Beach, North Carolina. The hurricane brings sustained winds of 130 mph and storm surge of 15–20 feet. The impact from the storm is forecasted to be widespread on eastern North Carolina’s healthcare and critical infrastructure. The hurricane triggers the activation of the Coastal Region Evacuation and Sheltering Plan.	
Sponsors	<ul style="list-style-type: none">• Eastern Healthcare Preparedness Coalition• Southeastern Healthcare Preparedness Region	
Points of Contact	Eastern Healthcare Preparedness Coalition Stephanie Seals 252-814-8294 Stephanie.Seals@vidanthealth.com Chris Starbuck 252-847-6634 CStarbuc@vidanthealth.com	Southeastern Healthcare Preparedness Region Hans Edwards 910-508-4865 Hans.Edwards@nhrmc.org Heather Griffin 910-398-5022 Heather.Griffin@nhrmc.org

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General Information

Exercise Objectives and Core Capabilities

The following exercise objectives in Table 1 describe the expected outcomes for the exercise. The objectives are linked to the *Health and Human Services 2017–2022 Health Care Preparedness and Response Capabilities*, which are distinct critical elements necessary to achieve the specific mission area. The objectives and aligned core capabilities are selected by the exercise planning team.

Exercise Objective	Capability
Identify the established lines of communication and facility points of contact used by healthcare stakeholders for emergency notifications and information sharing.	Health Care and Medical Response Coordination
Identify the information sharing process for ancillary healthcare providers (e.g., dialysis, home healthcare, assisted living, etc.), emergency management agencies, and regional emergency coordination points, prior to and during an emergency incident.	
Describe the decision-making triggers used by healthcare stakeholders for executing the safe evacuation or shelter-in-place of healthcare facilities during an emergency incident.	
Describe the resource needs for executing a full facility evacuation during an emergency incident.	
Identify the prioritization process for emergency evacuation of patients when transportation resources are limited.	Continuity of Health Care Service Delivery

Table 1. Exercise Objectives and Associated Core Capabilities

Participant Roles and Responsibilities

The term *participant* encompasses many groups of people, not just those playing in the exercise. Groups of participants involved in the exercise, and their respective roles and responsibilities, are as follows:

- **Players.** Players are personnel who have an active role in discussing or performing their regular roles and responsibilities during the exercise. Players discuss or initiate actions in response to the simulated emergency.
- **Observers.** Observers do not directly participate in the exercise. However, they may support the development of player responses to the situation during the discussion by asking relevant questions or providing subject matter expertise.
- **Facilitators.** Facilitators provide situation updates and moderate discussions. They also provide additional information or resolve questions as required. Key exercise planning team members also may assist with facilitation as subject matter experts during the exercise.

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- **Evaluators.** Evaluators are assigned to observe and document certain objectives during the exercise. Their primary role is to document player discussions, including how and if those discussions conform to plans, policies, and procedures.

Exercise Structure

In order to ensure all exercise objectives can be accomplished, this exercise was designed with pre-conduct and conduct elements. Prior to exercise conduct day, participants were sent weather advisories along with worksheets to complete prior to exercise start. These worksheets focus on activities that should be carried out according to the Coastal Region Evacuation and Sheltering Standard Operating Guide during Phase 2 and Phase 3 of a pre-landfall hurricane event. Worksheets are to be returned to the exercise team and all information will remain confidential. The results will be used to evaluate the notification and information sharing tasks that occur during early stages of a forecasted hurricane.

On the day of conduct, players will participate in the following two modules:

- Module 1: 72 hours pre-landfall
- Module 2: 24 hours pre-landfall

Each module begins with a multimedia update that summarizes key events occurring within that time period. After the updates, participants will separate into two multi-discipline, multi-organization breakout groups with a facilitator, to review the situation and engage in group discussions of appropriate pre-landfall response issues; discussion questions will correspond to the exercise objectives. For this exercise, the functional groups are as follows:

- Group 1: Eastern Health Preparedness Coalition
- Group 2: Southeastern Healthcare Preparedness Region

After these functional group discussions, participants will engage in a moderated plenary discussion in which spokespersons from each group will present a synopsis of the group's actions, based on the scenario.

Exercise Guidelines

- This exercise will be held in an open, low-stress, no-fault environment. Varying viewpoints are expected.
- Respond to the scenario using your knowledge of current plans and capabilities (i.e., you may use only existing assets) and insights derived from your training.
- Decisions are not precedent setting and may not reflect your organization's final position on a given issue. This exercise is an opportunity to discuss and present multiple options and possible solutions.

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- Issue identification is not as valuable as suggestions and recommended actions that could improve pre-landfall response efforts; problem-solving efforts should be the focus.

Exercise Assumptions and Artificialities

In any exercise, assumptions and artificialities may be necessary to complete play in the time allotted and/or account for logistical limitations. Exercise participants should accept that assumptions and artificialities are inherent in any exercise and should not allow these considerations to negatively impact their participation. During this exercise, the following apply:

- The exercise is conducted in a no-fault learning environment wherein capabilities, plans, systems, and processes will be evaluated.
- The exercise scenario is plausible, and events occur as they are presented.
- All players receive information at the same time.

Participant Feedback

Participant feedback provides players with the opportunity to comment candidly on exercise activities and exercise design. A virtual Participant Feedback Form will be provided for those attending the exercise online, <https://www.surveymonkey.com/r/120tolandfall>, and a printed Participant Feedback Form will be provided to those attending in person.

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Module 1: 72 Hours Pre-Landfall

September 20, 5:00 pm (72 hours to landfall)

Phase 1: Preparedness May 1–30/2019 hours	Phase 2: Standby 120–96 hours	Phase 3: Decision 96–72 hours	Phase 4: Implementation 72–48 hours	Phase 5: Storm Effects 12–0 hours	Phase 6: Re-entry 0+ hours
Activity Overview <ul style="list-style-type: none"> Update State and Local Regional procedures Annual update of recovery plans Review public information program Train and Exercise Monitor National Weather Service/National Hurricane Center for Tropical Storm formation 	Activity Overview <ul style="list-style-type: none"> Storm forms or is less than 46 Longitude and No of 15 latitude Activate State EOC/Regional Coordination Centers Alert OMB/BSMAT Monitor progress of storm via HURREVAC/HVX Alert/Status of the State Conduct Regional conference calls Evaluate EMAC requirements Assess vulnerability decisions times 	Activity Overview <ul style="list-style-type: none"> May pre-position resources Regional evacuative decision making Prepare evacuative timeline Disseminate pre-event public information Coordinate shelter openings 	Activity Overview <ul style="list-style-type: none"> Enhanced coordination Resource monitoring Respond as required to resource delays Issues need to address Monitor shelter operations and transportation Collect shelter logs 	Activity Overview <ul style="list-style-type: none"> Monitor storm effects on State Develop situational damage assessments Prepare for post-storm activities Perform response activities when safe for deployment Monitor status of shelters and population 	Activity Overview <ul style="list-style-type: none"> Develop Regional re-entry Incident Action Plan State resources Distribute post-event public information Account for all evacuees Evacuate/reopen evacuation re-entry routes Demobilize resources Coordinate shelter closings

Weather Advisory #16 indicates category 4 Hurricane Hans moving over eastern Cuba with heavy rains and flooding. A hurricane watch has been issued for the east coast of Florida, portions of the lower west coast, and the Keys. Maximum sustained winds are 145 mph extending 30 miles from center of hurricane with tropical storm force winds extending up to 70 miles from the center. Most counties in North Carolina have issued evacuation orders and are requesting all those with the ability to move inland to do so. There is a concern at the state level about the vulnerability of patients at long term and skilled care facilities in the high-risk counties and ESF-8 at the State Emergency Operations Center is tasked with assessing the needs these facilities may have.

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September 21, 5:00 pm (48 hours to landfall)

Phase 1: Preparedness May 1-30/120+Hours	Phase 2: Standby 120-96 hours	Phase 3: Decision 96-72 hours	Phase 4: Implementation 72-12 hours	Phase 5: Storm Effects 12-6 hours	Phase 6: Re-entry 0+ hours
Activity Overview <ul style="list-style-type: none"> Update State and Local Regional procedures Annual update of recovery plans Review public information program Train and Exercise Monitor National Weather Service/National Hurricane Center for Tropical Storm formation 	Activity Overview <ul style="list-style-type: none"> Storm forms or is located W of 45 Longitude and N of 15 latitude Activate State EOC & Regional Coordination Centers Alert OESM/SMAT Monitor progress of storm via HURREVAC/HVX, etc. Alert/Status of the SCRS Conduct Regional conference calls Evaluate EMAC requirements Assess vulnerability and determine threat 	Activity Overview <ul style="list-style-type: none"> May pre-position resources Regional evacuation decision making Prepare evacuation routes Distribute pre-event public information Coordinate shelter openings 	Activity Overview <ul style="list-style-type: none"> Enhanced coordination Evacuation monitoring Respond as required to observed delays Assess need to terminate Monitor shelter populations and transportation Assist shelter logs 	Activity Overview <ul style="list-style-type: none"> Monitor storm effects in State Develop situational reports for post-storm activities Perform response activities when safe for re-entry Monitor status of resources and population 	Activity Overview <ul style="list-style-type: none"> Develop Regional re-entry Incident Action Plan State resources Distribute post-event public information Account for all evacuees Evacuation/evacuation re-entry routes Demobilize resources Coordinate shelter closings

Weather Advisory #20 indicates Hurricane Hans continues to push toward southern Florida. A hurricane watch is now issued for the east coast from New Smyrna Beach, Florida to Cape Lookout, North Carolina. Maximum sustained winds are 140 mph with higher gusts. Hurricane force winds extend 30 miles from center of hurricane with tropical storm force winds extending up to 85 miles from the center. Possibility of coastal flooding with 10-15 feet of storm surge and up to 10 inches of rain. Isolated tornados across Florida are possible. North Carolina authorities are monitoring evacuation routes and travel seems to be progressing smoothly but not as many people are heeding the order at this time. Shelters are now open around the state and actively accepting evacuees that have nowhere to go.

Questions

Based on the information provided, participate in the discussion concerning the issues raised in Module 1. Identify any critical issues, decisions, requirements, or questions that should be addressed at this time.

The following questions are provided as suggested subjects to address as the discussion progresses. These questions are not meant to constitute a definitive list of concerns to be addressed.

1. How do you determine if you are evacuating or sheltering-in-place?
2. Who has the authority to make the evacuation/shelter-in-place decision? Is that identified clearly in organizational plans and procedures?

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3. Do your organizational plans have established trigger points or milestones for assisting with your decision-making process? What are those trigger points?
4. Is your decision-making process and organizational evacuation/shelter-in-place plan consistent with the Coastal Region Evacuation and Sheltering Standard Operating Guide?
5. What preparations are being done for homebound patients or dialysis patients?

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Module 2: 24 Hours Pre-Landfall

September 22, 5:00 pm (24 hours to landfall)

Phase 1: Preparedness May 1–30/2019 hours	Phase 2: Standby 120–96 hours	Phase 3: Decision 96–72 hours	Phase 4: Implementation 72–12 hours	Phase 5: Storm Effects 12–0 hours	Phase 6: Re-entry 0+ hours
Activity Overview <ul style="list-style-type: none"> • Update State and Local Regional procedures • Annual update of re-entry plans • Review public information program • Train and Exercise • Monitor National Weather Service/National Hurricane Center for Tropical Storm formation 	Activity Overview <ul style="list-style-type: none"> • Storm forms or is located W of 45 Longitude and N of 15 latitude • Activate State EOC & Regional Coordination Centers • Alert OMB/BSMAT • Monitor progress of storm via HURREVACH/VX, etc. • Alert/Status of the SCRS • Conduct Regional conference calls • Evaluate EMAC requirements • Assess vulnerability and decision times 	Activity Overview <ul style="list-style-type: none"> • May pre-position resources • Regional account decision making • Prepare evacuation routes • Distribute pre-event public information • Coordinate shelter openings 	Activity Overview <ul style="list-style-type: none"> • Enhanced coordination • Evacuation monitoring • Respond as required to observed delays • Assess need to terminate • Monitor shelter populations and transportation • Assist shelter logs 	Activity Overview <ul style="list-style-type: none"> • Monitor storm effects • Develop situational change assessments • Prepare for post-storm activities • Verify response activities when safe for re-entry • Monitor status of resources and population 	Activity Overview <ul style="list-style-type: none"> • Develop Regional re-entry Incident Action Plan • State resources • Distribute post-event public information • Account for all evacuees • Excavate/reopen evacuation re-entry routes • Demobilize resources • Coordinate shelter closings

Weather Advisory #24 indicates Hurricane Hans has weakened to a category 3 but is still moving in northeasterly direction along the Atlantic Coast. The hurricane center is located 55 miles west-southwest of West Palm Beach, Florida and 115 miles east-southeast of Sarasota, Florida. A hurricane warning has been extended to Cape Fear, North Carolina and a tropical storm warning has been issued from Cape Fear to Currituck Beach, North Carolina. Winds are recorded at 120 mph with higher gusts. Hans may weaken over land but will still remain a major hurricane as it travels along the coast. Flooding, tornadoes, and heavy rainfall are anticipated in South Carolina as the hurricane moves along the coast. Many hospitals and healthcare facilities in North Carolina have made progress in evacuating staff and patients to inland counties. North Carolina county and state emergency operations centers are trying to coordinate resources for the increased requests for medical transportation assets to move patients out of the coastal communities. Increased traffic congestion is seen along State Routes 904, 211, 906, 133, 87 and US Routes 74, 76, 17, and 421 as evacuees begin to try and make their way inland. Several motorists are stranded along the highways, some blocking travel lanes, because they were unprepared and ran out of gas. This causes a slowed response for incoming medical transportation as they try and make their way to coastal healthcare facilities to aid with patient evacuation. Hundreds of medically homebound residents with no means of transportation are in need of assistance evacuating the area, many requiring travel by ambulance. Similar issues are also occurring in the dialysis community with concern of how patients will be treated if they cannot evacuate and have no access to dialysis care.

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September 23, 5:00 am (12 hours to landfall)

Weather Advisory #28 indicated Hurricane Hans has been upgraded to a category 4. The hurricane center is located 225 miles south-southwest of Wilmington, North Carolina and 105 miles south-southeast of Charleston, South Carolina. A hurricane warning remains in effect from the South Santee River extending northward to Currituck Beach Light, North Carolina including the Pamlico and Albemarle sounds. Heavy rain developing ahead of the storm is causing flooding in low lying areas in several of the coastal counties to include Brunswick, Columbus, New Hanover, Pender, and Onslow. Many secondary evacuation routes as well as sections of State and US routes in those counties begin to see accumulation of rain essentially cutting off those roads for evacuation or incoming assistance. Outer bands of wind producing sporadic wind gusts have toppled loosely rooted trees, utility poles, and unsecured building materials. This causes telephone loss and intermittent power outages and blocked roads in Carteret, Jones, Craven, Pamlico, and Duplin counties. State law enforcement officials are receiving reports of a large, multi-vehicle traffic accident on US 264 that has all lanes of traffic shut down between Washington and Greenville. There is also unconfirmed tornado activity in central North Carolina along the North Carolina/South Carolina border. An increase in storm surge causes flooding along the Cashie, Neuse, and Cape Fear rivers. Small streams and tributaries are also beginning to fill with the ever increasing rain threatening facilities in close proximity to these waterways. The center of Hurricane Hans is expected to make landfall just south of North Topsail Beach, North Carolina later today. Maximum sustained winds are 140 mph with higher gusts. Hurricane force winds extend 75 miles from center of hurricane with tropical storm force winds extending up to 150 miles from the center. Rainfall up to 10 inches with coastal storm surge flooding up to 20 feet is possible. Flash flooding and isolated tornadoes are possible over eastern North Carolina tonight and tomorrow.

Questions

Based on the information provided, participate in the discussion concerning the issues raised in Module 2. Identify any critical issues, decisions, requirements, or questions that should be addressed at this time.

The following questions are provided as suggested subjects to address as the discussion progresses. These questions are not meant to constitute a definitive list of concerns to be addressed.

1. Does your organizational evacuation/shelter-in-place plan identify the patient movement resources you have on hand as well as the resources you will need to obtain if the plan is activated?
2. Who do you coordinate with to obtain needed resources? Do you have a secondary source if your primary source cannot assist?
3. How is resource allocation prioritized in situations where resources are limited, and multiple organizations are requesting assistance?

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4. If you are an organization providing resources, what resources are you able to provide to requesting healthcare organizations and providers? Do you have a prioritization process for coordinating resource requests?
5. What is the process for prioritizing/triaging the order of evacuation of patients and staff from your facility or for your organization?
6. Who is responsible for prioritizing the order of evacuation of patients during an evacuation? Do they have the delegated authority to make decisions on the order of patient movement and use of resources? Is this identified in organizational plans?

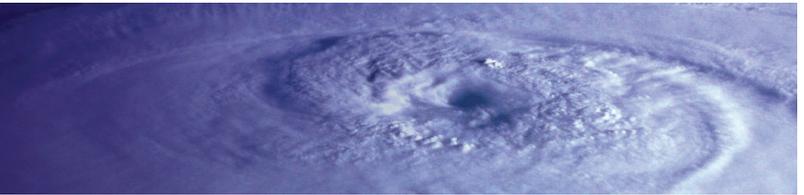
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Appendix A: Exercise Schedule

Time	Activity
April 29, 2021	
9:00 am	Registration/Virtual Log-in
9:30 am	Welcome and Opening Remarks
9:45 am	Module 1: 72 hours pre-landfall
10:30 am	Break
10:45 am	Group Reports
11:15 am	Module 2: 24 hours pre-landfall
12:00 pm	Break
12:15 pm	Group Reports
12:45 pm	Hot Wash
1:00 pm	Closing Comments and Dismissal

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Appendix B: Weather Advisories

Weather Advisory 16

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TTAA00 KNHC DDHHMM
BULLETIN
HURRICANE HANS ADVISORY NUMBER 16
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL082015
5 PM EDT MON SEP 20 2021

...DANGEROUS CATEGORY FOUR HANS MOVING OVER EASTERN CUBA...THREAT OF HEAVY RAINS AND FLOODING CONTINUES...

AT 5 PM EDT THE HURRICANE WATCH HAS BEEN EXTENDED ALONG THE FLORIDA EAST COAST TO NEW SMYRNA BEACH AND A HURRICANE WATCH HAS BEEN ISSUED FOR LAKE OKEECHOBEE. ALSO...THE GOVERNMENT OF THE BAHAMAS HAS ISSUED A HURRICANE WATCH FOR THE BIMINI ISLANDS AND GRAND BAHAMA ISLAND.

A HURRICANE WATCH IS NOW IN EFFECT FROM NEW SMYRNA BEACH SOUTHWARD ON THE FLORIDA EAST COAST...AND FROM SOUTH OF CHOKOLOSKEE SOUTHWARD ALONG THE WEST COAST...FOR LAKE OKEECHOBEE...AND FOR ALL OF THE FLORIDA KEYS...FROM OCEAN REEF TO THE DRY TORTUGAS. A HURRICANE WATCH IS ALSO IN EFFECT FOR ANDROS ISLAND...THE BIMINIS...AND GRAND BAHAMA ISLAND IN THE NORTHWESTERN BAHAMAS. A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE WITHIN THE WATCH AREA...GENERALLY WITHIN 48 HOURS.

HURRICANE WARNINGS MAY BE REQUIRED FOR PORTIONS OF THE HURRICANE WATCH AREAS LATER TODAY.

AT 5 PM EDT THE GOVERNMENT OF CUBA HAS CHANGED THE HURRICANE WARNING TO A TROPICAL STORM WARNING FOR THE CUBAN PROVINCES OF GUANTANAMO...SANTIAGO DE CUBA...GRANMA... HOLGUIN... LAS TUNAS...AND CAMAGUEY.

A TROPICAL STORM WARNING IS IN EFFECT FOR RAGGED ISLAND AND GREAT EXUMA IN THE CENTRAL BAHAMAS. A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE EXPECTED WITHIN THE WARNING AREA WITHIN THE NEXT 36 HOURS.

INTERESTS ELSEWHERE IN THE CENTRAL AND NORTHWESTERN BAHAMAS SHOULD MONITOR THE PROGRESS OF HANS.

FOR STORM INFORMATION SPECIFIC TO YOUR AREA...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL WEATHER OFFICE.

AT 5PM EDT THE CENTER OF HURRICANE HANS WAS LOCATED NEAR LATITUDE 20.3 NORTH...LONGITUDE 75.7 WEST OR ABOUT 35 MILES WEST-NORTHWEST OF GUANTANAMO CUBA.

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HANS IS MOVING TOWARD THE NORTHWEST NEAR 10 MPH AND THIS GENERAL MOTION IS EXPECTED TO CONTINUE FOR THE NEXT 24 HOURS. ON THIS TRACK THE CENTER WILL CONTINUE TO MOVE OVER EASTERN CUBA TODAY AND POSSIBLY EMERGE OFF THE NORTH COAST OF CUBA TONIGHT.

MAXIMUM SUSTAINED WINDS ARE 145 MPH WITH HIGHER GUSTS. ADDITIONAL SLOW WEAKENING IS LIKELY AS HANS MOVES OVER LAND TODAY...BUT RE-STRENGTHENING IS EXPECTED WHEN THE CENTER MOVES OVER THE WATERS TO THE NORTH OF CUBA.

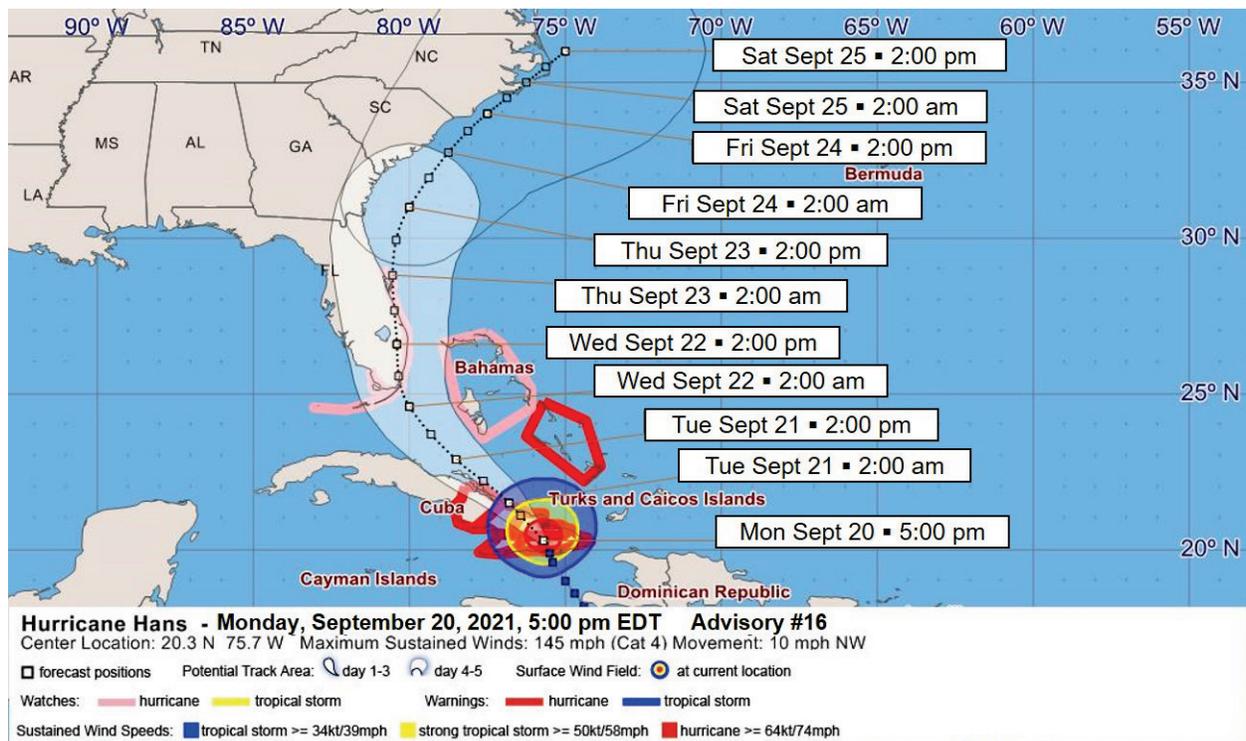
HURRICANE FORCE WINDS EXTEND OUT 30 MILES FROM THE CENTER AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 70 MILES FROM THE CENTER.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 932 MB...27.52 INCHES.

TIDES UP TO 10 FEET ABOVE NORMAL TIDE LEVELS ARE EXPECTED OFF EASTERN CUBA. RAINFALL AMOUNTS OF 6 TO 12 INCHES...WITH POSSIBLE ISOLATED AMOUNTS OF UP TO 20 INCHES...ARE EXPECTED OVER PORTIONS OF HISPANIOLA AND CENTRAL AND EASTERN CUBA. THESE RAINS COULD CAUSE LIFE-THREATENING FLASH FLOODS AND MUD SLIDES. RAINFALL AMOUNTS OF 2 TO 4 INCHES ARE POSSIBLE OVER THE SOUTHERN BAHAMAS.

REPEATING THE 5 PM EDT POSITION...20.3 N...75.7 W. MOVEMENT TOWARD...NORTHWEST NEAR 10 MPH. MAXIMUM SUSTAINED WINDS...145 MPH. MINIMUM CENTRAL PRESSURE...932 MB OR 27.52 INCHES.

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Weather Advisory 20

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ZCZC MIATCPAT5 ALL
TTAA00 KNHC DDHHMM
BULLETIN
HURRICANE HANS ADVISORY NUMBER 20
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL082015
5 PM EDT TUE SEP 21 2021

...OUTER RAINBANDS OF EXTREMELY DANGEROUS HANS NEAR THE FLORIDA KEYS AND SOUTHEAST FLORIDA COAST...

AT 5 PM EDT...A HURRICANE WATCH IS EXTENDED NORTHWARD ALONG THE U.S. EAST COAST NORTH OF NEW SMYRNA BEACH FLORIDA TO CAPE LOOKOUT, NC.

AT 5 PM EDT THE HURRICANE WATCH IS CHANGED TO A HURRICANE WARNING FOR THE FLORIDA WEST COAST FROM NORTH OF BONITA BEACH NORTHWARD TO TARPON SPRINGS.

A HURRICANE WARNING REMAINS IN EFFECT FROM NEW SMYRNA BEACH SOUTHWARD ON THE EAST COAST...INCLUDING LAKE OKEECHOBEE...FROM BONITA BEACH SOUTHWARD ON THE WEST COAST...AND FOR ALL OF THE FLORIDA KEYS FROM OCEAN REEF TO THE DRY TORTUGAS.

AT 5 PM EDT THE GOVERNMENT OF THE BAHAMAS HAS DISCONTINUED THE TROPICAL STORM WARNING FOR RAGGED ISLAND AND GREAT EXUMA IN THE CENTRAL BAHAMAS.

A TROPICAL STORM WARNING AND A HURRICANE WATCH REMAIN IN EFFECT FOR ANDROS ISLAND...THE BERRY ISLANDS... THE BIMINIS AND GRAND BAHAMA ISLAND IN THE NORTHWESTERN BAHAMAS.

INTERESTS ELSEWHERE IN THE NORTHWESTERN BAHAMAS SHOULD MONITOR THE PROGRESS OF HANS.

FOR STORM INFORMATION SPECIFIC TO YOUR AREA...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL WEATHER OFFICE.

AT 5 PM EDT THE CENTER OF TROPICAL STORM HANS WAS LOCATED NEAR LATITUDE 23.3 NORTH...LONGITUDE 79.5 WEST OR ABOUT 170 MILES EAST-SOUTHEAST OF KEY WEST FLORIDA AND ABOUT 180 MILES SOUTH-SOUTHEAST OF MIAMI FLORIDA.

HANS IS MOVING TOWARD THE NORTHWEST NEAR 13 MPH AND THIS GENERAL MOTION IS EXPECTED TO CONTINUE TODAY AND TONIGHT. ON THIS TRACK...THE CENTER WILL BE NEARING THE FLORIDA KEYS AND EXTREME SOUTHERN FLORIDA TONIGHT WITH TIDES 10 TO 15 FT ABOVE NORMAL AND DAMAGING WINDS WELL IN ADVANCE OF THE CENTER.

MAXIMUM SUSTAINED WINDS ARE NEAR 140 MPH WITH HIGHER GUSTS. VERY LITTLE CHANGE IN STRENGTH IS EXPECTED BEFORE THE CENTER REACHES FLORIDA.

HURRICANE FORCE WINDS EXTEND OUT 30 MILES FROM THE CENTER WITH TROPICAL STORM FORCE WINDS EXTENDING OUTWARD UP TO 85 MILES FROM THE CENTER.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 935 MB...27.61 INCHES.

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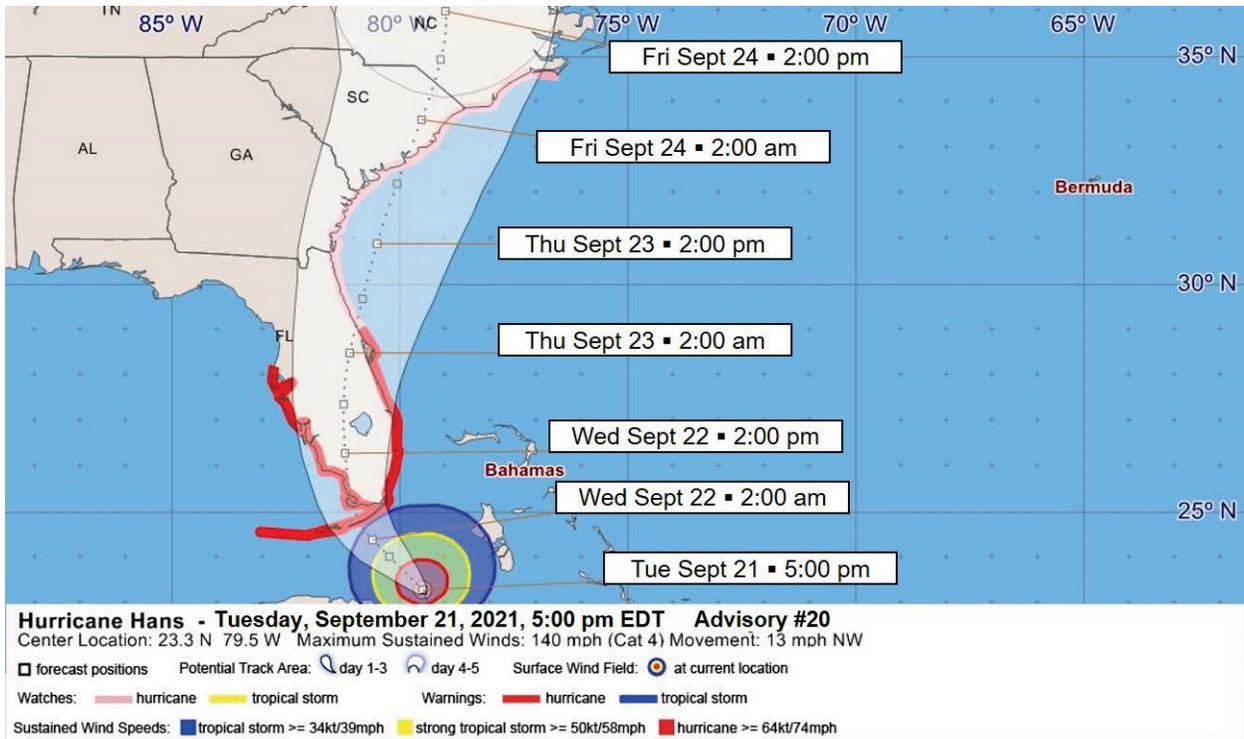
COASTAL STORM SURGE FLOODING OF 10 TO 15 FEET ABOVE NORMAL TIDE LEVELS CAN BE EXPECTED IN AREAS OF ONSHORE FLOW WITHIN THE WARNING AREA.

RAINFALL TOTALS OF 5 TO 10 INCHES ARE POSSIBLE NEAR THE TRACK OF HANS OVER SOUTHERN FLORIDA INCLUDING THE KEYS THROUGH TUESDAY...WITH ISOLATED AMOUNTS UP TO 15 INCHES POSSIBLE. RAINFALL AMOUNTS OF 2 TO 4 INCHES WITH ISOLATED AMOUNTS UP TO 6 INCHES ARE EXPECTED OVER EASTERN AND CENTRAL CUBA. RAINFALL AMOUNTS OF 1 TO 2 INCHES WITH ISOLATED AMOUNTS OF 4 INCHES ARE POSSIBLE OVER THE BAHAMAS.

ISOLATED TORNADOES ARE POSSIBLE OVER SOUTHERN FLORIDA INCLUDING THE KEYS THIS EVENING AND TONIGHT.

REPEATING THE 5 PM EDT POSITION...23.3 N...79.5 W. MOVEMENT TOWARD...NORTHWEST NEAR 13 MPH. MAXIMUM SUSTAINED WINDS...140 MPH. MINIMUM CENTRAL PRESSURE...935 MB.

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Weather Advisory 24

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ZCZC MIATCPAT5 ALL
TTAA00 KNHC DDHHMM
BULLETIN
HURRICANE HANS ADVISORY NUMBER 24
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL082015
5 PM EDT WED SEP 22 2021

...HURRICANE HANS WEAKENS TO A CATEGORY 3 AS IT MOVES FARTHER INLAND...

AT 5 PM EDT THE TROPICAL STORM WARNING FROM SOUTH OF SEBASTIAN INLET SOUTHWARD AROUND THE FLORIDA PENINSULA TO BONITA BEACH ON THE WEST COAST INCLUDING LAKE OKEECHOBEE AND THE FLORIDA KEYS HAS BEEN DISCONTINUED.

AT 5 PM EDT...A TROPICAL STORM WARNING IS NOW IN EFFECT FROM CAPE FEAR NORTH CAROLINA NORTHWARD TO CURRITUCK BEACH NORTH CAROLINA.

AT 5 PM EDT...A HURRICANE WARNING HAS BEEN EXTENDED NORTHWARD AND IS NOW IN EFFECT FROM SEBASTIAN INLET FLORIDA NORTHWARD AND NORTHEASTWARD ALONG THE COAST TO CAPE FEAR NORTH CAROLINA.

FOR STORM INFORMATION SPECIFIC TO YOUR AREA...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL WEATHER OFFICE.

AT 5 PM EDT THE CENTER OF HURRICANE HANS WAS LOCATED NEAR LATITUDE 26.4 NORTH...LONGITUDE 80.9 WEST OR ABOUT 55 MILES WEST-SOUTHWEST OF WEST PALM BEACH FLORIDA AND ABOUT 115 MILES EAST-SOUTHEAST OF SARASOTA FLORIDA.

HANS IS MOVING TOWARD THE NORTH NEAR 10 MPH AND THIS GENERAL MOTION IS EXPECTED TO CONTINUE TODAY ALONG THE FLORIDA PENINSULA. ON THIS TRACK THE CENTER SHOULD MOVE OVER THE ATLANTIC WATERS ON TUESDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 120 MPH WITH HIGHER GUSTS. HANS IS FORECAST TO SLOWLY WEAKEN OVER LAND BUT REMAIN A MAJOR HURRICANE AS THE SYSTEM MOVES OVER THE ATLANTIC ON TUESDAY AND WEDNESDAY.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 950 MB...28.05 INCHES.

COASTAL STORM SURGE FLOODING OF 7 TO 10 FEET ABOVE NORMAL TIDE LEVELS CAN BE EXPECTED IN AREAS OF ONSHORE FLOW WITHIN THE WARNING AREA.

ISOLATED TORNADOES ARE POSSIBLE ALONG THE EAST COAST.

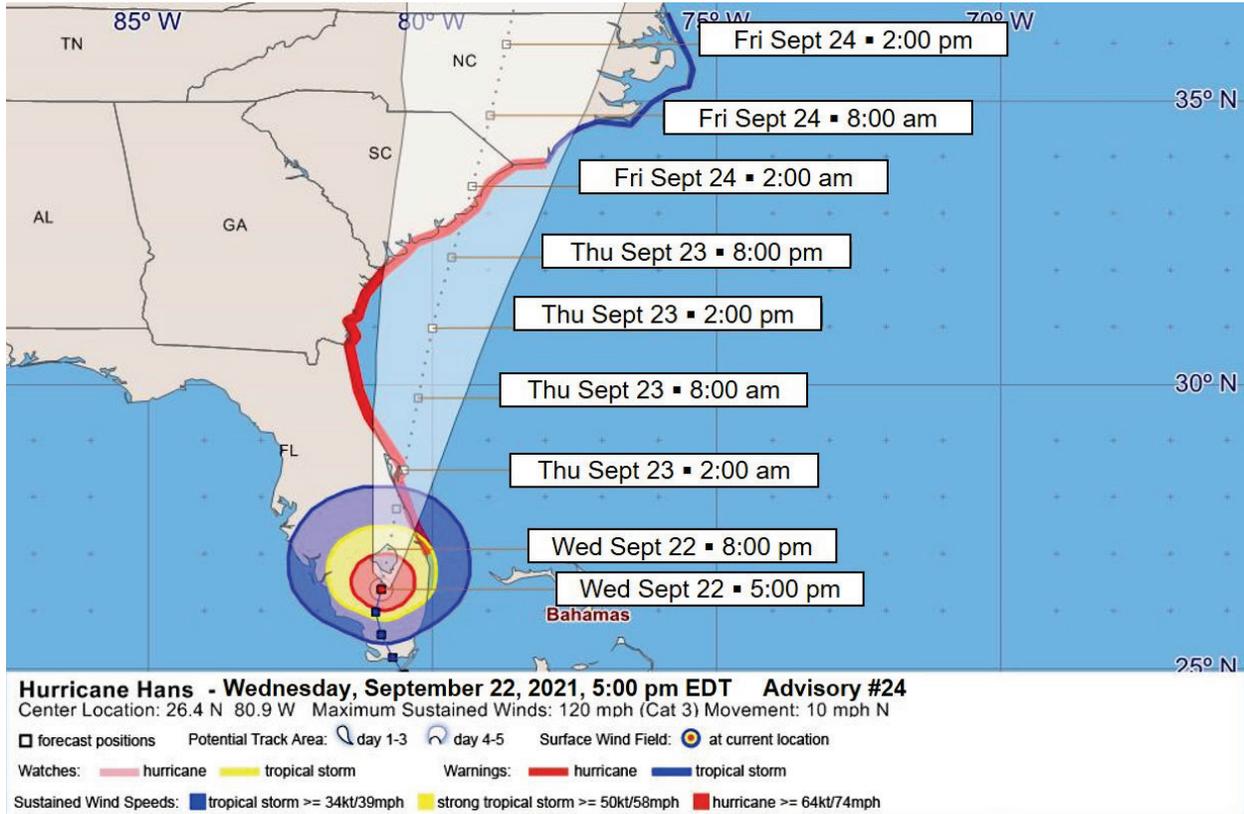
RAINFALL TOTALS OF 3 TO 5 INCHES ARE POSSIBLE NEAR THE TRACK OF HANS OVER THE FLORIDA PENINSULA...WITH ISOLATED AMOUNTS UP TO 10 INCHES POSSIBLE. RAINFALL TOTALS OF 4 TO 8 INCHES ARE POSSIBLE FROM COASTAL SOUTH CAROLINA NORTHWARD INTO THE MID ATLANTIC REGION WITH MAXIMUM AMOUNTS OF 12 INCHES OVER THE NEXT FEW DAYS. ADDITIONAL RAINFALL AMOUNTS OF 1 TO 2 INCHES...WITH ISOLATED AMOUNTS OF 4 INCHES ARE POSSIBLE OVER THE NORTHWESTERN BAHAMAS.

REPEATING THE 5 PM EDT POSITION...26.4 N...80.9 W. MOVEMENT

120 to Landfall: 2.0 Tabletop Exercise Situation Manual

TOWARD...NORTH NEAR 10 MPH. MAXIMUM SUSTAINED WINDS...120 MPH.
MINIMUM CENTRAL PRESSURE...950 MB.

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FORECASTER AVILA



EXERCISE | EXERCISE | EXERCISE | EXERCISE | EXERCISE | EXERCISE | EXERCISE

120 to Landfall: 2.0 Tabletop Exercise Situation Manual

Weather Advisory 28

EXERCISE | EXERCISE | EXERCISE | EXERCISE | EXERCISE | EXERCISE | EXERCISE

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BULLETIN
HURRICANE HANS ADVISORY NUMBER 28
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL082015
5 AM EDT THU SEP 23 2021

...CATEGORY 4 HURRICANE HANS IS HEADING TOWARD THE CAROLINAS...

AT 5 AM EDT UTC...A HURRICANE WARNING REMAINS IN EFFECT FROM THE SOUTH SANTEE RIVER EXTENDING NORTHWARD TO CURRITUCK BEACH LIGHT NORTH CAROLINA INCLUDING THE PAMLICO AND ALBEMARLE SOUNDS.

AT 5 AM EDT THE TROPICAL STORM WARNING IS DISCONTINUED SOUTH OF THE SAVANNAH RIVER.

A TROPICAL STORM WARNING IS NOW IN EFFECT FROM THE SAVANNAH RIVER NORTHWARD TO THE SOUTH SANTEE RIVER...AND NORTH OF CURRITUCK BEACH LIGHT NC INCLUDING ALL OF THE DELMARVA REGION.

FOR STORM INFORMATION SPECIFIC TO YOUR AREA...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL WEATHER OFFICE.

AT 5 AM EDT THE CENTER OF HURRICANE HANS WAS LOCATED NEAR LATITUDE 31.3 NORTH...LONGITUDE 79.4 WEST OR ABOUT 225 MILES SOUTH-SOUTHWEST OF WILMINGTON NORTH CAROLINA AND ABOUT 105 MILES SOUTH-SOUTHEAST OF CHARLESTON SOUTH CAROLINA.

HANS IS MOVING TOWARD THE NORTH-NORTHEAST NEAR 17 MPH...28 KM/HR. ON THIS TRACK THE CENTER OF HANS WILL BE NEARING THE COAST OF THE CAROLINAS LATER TODAY.

THE CENTER OF EXTREMELY DANGEROUS HURRICANE HANS IS PREDICTED TO MAKE LANDFALL ON THE NORTH CAROLINA COAST JUST SOUTH OF NORTH TOPSAIL BEACH

MAXIMUM SUSTAINED WINDS ARE NEAR 130 MPH WITH HIGHER GUSTS. NO SIGNIFICANT STRENGTHENING IS EXPECTED BEFORE LANDFALL.

HURRICANE FORCE WINDS EXTEND OUT 75 MILES FROM THE CENTER AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 150 MILES MAINLY TO THE NORTH AND EAST OF THE CENTER.

LATEST MINIMUM PRESSURE REPORTED BY A NOAA P-3 RECONNAISSANCE PLANE 940 MB...27.76 INCHES.

COASTAL STORM SURGE FLOODING OF 15 TO 20 FEET ABOVE NORMAL TIDE LEVELS IS POSSIBLE ALONG THE COAST OF NORTH CAROLINA IN AREAS OF ONSHORE FLOW WITHIN THE WARNING AREA...WITH 10 TO 15 FEET ABOVE GROUND LEVEL INUNDATION ACROSS SOME AREAS ADJACENT TO THE SOUNDS AND RIVERS ACROSS EASTERN

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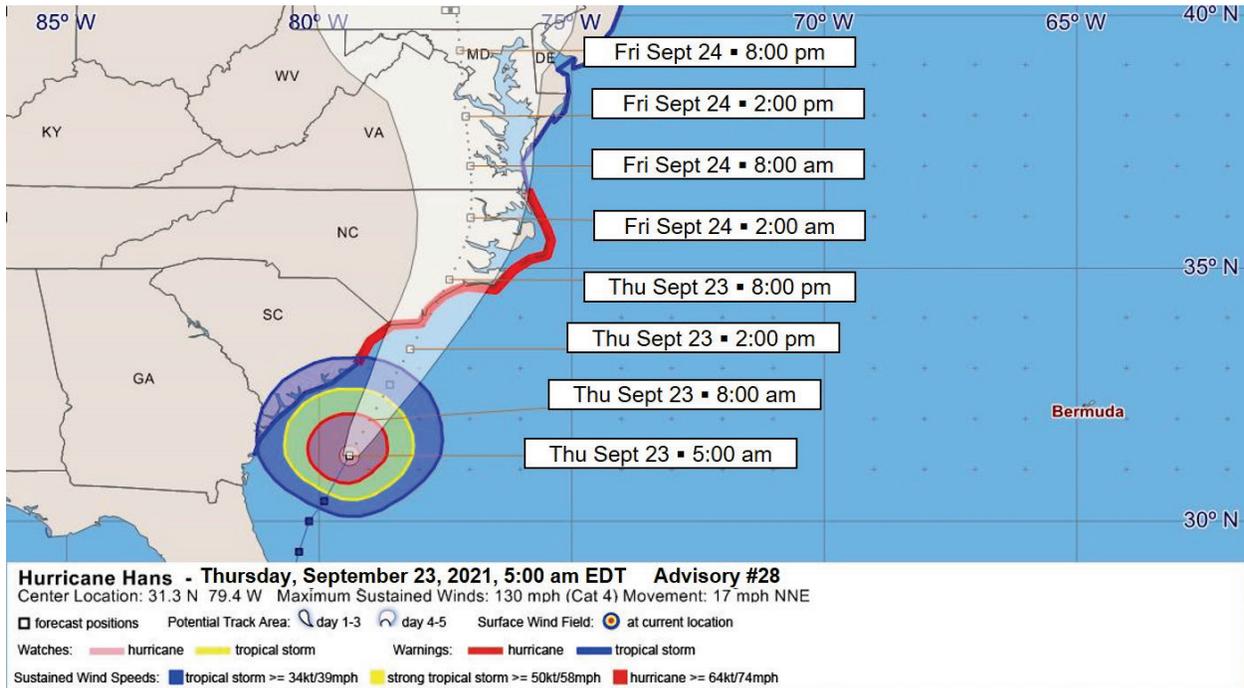
NORTH CAROLINA. TIDES ARE CURRENTLY RUNNING ABOUT 10 FEET ABOVE NORMAL AT ONSLOW BEACH.

RAINFALL TOTALS OF 5 TO 10 INCHES ARE POSSIBLE FROM SOUTH CAROLINA INTO THE MID-ATLANTIC STATES...AND THE SOUTHERN AND CENTRAL APPALACHIANS...WITH ISOLATED MAXIMUM AMOUNTS OF 15 INCHES...THROUGH FRIDAY. THESE AMOUNTS COULD CAUSE LIFE-THREATENING FLASH FLOODS.

ISOLATED TORNAOES ARE POSSIBLE OVER EASTERN NORTH CAROLINA TODAY AND TONIGHT.

REPEATING THE 5 AM EDT POSITION...31.3 N...79.4 W. MOVEMENT TOWARD...NORTH-NORTHEAST NEAR 17 MPH. MAXIMUM SUSTAINED WINDS...130 MPH. MINIMUM CENTRAL PRESSURE...940 MB.

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FORECASTER AVILA



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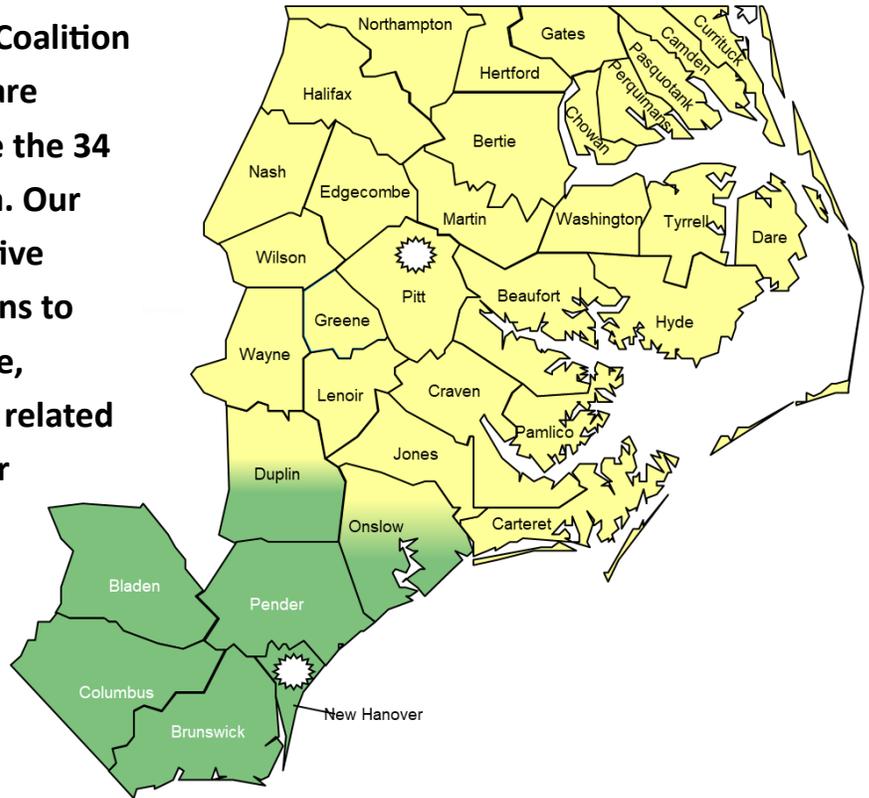
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Appendix C: Coastal Region Evacuation & Sheltering Guide Operational Phases

Phase 1: Preparedness May 1–30/120+hours	Phase 2: Standby 120–96 hours	Phase 3: Decision 96–72 hours	Phase 4: Implementation 72–12 hours	Phase 5: Storm Effects 12–0 hours	Phase 6: Re-entry 0+ hours
Activity Overview	Activity Overview	Activity Overview	Activity Overview	Activity Overview	Activity Overview
<ul style="list-style-type: none"> • Update State and Local Regional procedures • Annual update of relevant plans • Review public information program • Train and Exercise • Monitor National Weather Service/National Hurricane Center for Tropical Storm formation 	<ul style="list-style-type: none"> • Storm forms or is located W of 45 Longitude and No of 15 latitude • Activate State EOC & Regional Coordination Centers • Alert OEMS/SMAT • Monitor progress of storm via HURREVAC/HVX, etc. • Alert/Status of the SCRS • Conduct Regional conference calls • Evaluate EMAC requirements • Assess vulnerability and decisions times 	<ul style="list-style-type: none"> • May pre-position resources • Regional evacuative decision making • Prepare evacuative timeline • Disseminate pre-event public information • Coordinate shelter openings 	<ul style="list-style-type: none"> • Enhanced coordination • Evacuation monitoring • Respond as required to observed delays • Assess need to terminate • Monitor shelter populations and transportation • Assist shelter logs 	<ul style="list-style-type: none"> • Monitor storm effects on State • Develop situational damage assessments • Prepare for post-storm activities • Perform response activities when safe for deployment • Monitor status of shelters and population 	<ul style="list-style-type: none"> • Develop Regional re-entry Incident Action Plan • State resources • Distribute post-event public information • Account for all evacuees • Evaluate/recon evacuation re-entry routes • Demobilize resources • Coordinate shelter closings

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Eastern Healthcare Preparedness Coalition (EHPC) and Southeastern Healthcare Preparedness Region (SHPR) serve the 34 counties of Eastern North Carolina. Our purpose is to serve as a collaborative network of healthcare organizations to assist with preparedness, response, recovery, and mitigation activities related to healthcare organization disaster operations.



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EHPC

24/7 Emergency Line: 1-800-672-7828
(ask for a member of Disaster Services)
www.EasternHPC.com

SHPR

24/7 Emergency Line: 1-800-282-5465
(ask for the Duty Officer)
www.SoutheasternHPR.org