



# 2016 Hurricane Brief





# Storm Categories

	Sustained wind speed
Tropical Depression	<39 mph
Tropical Storm	39-73 mph
Hurricane	74-110 mph
Major Hurricane	>110 mph



# Hurricane Category 1



Wind Speed (mph)	74	80	85	90	95
Damage Multiplier	1x	1.6x	2.9x	4.3x	6.6x

SANDY (2012)

**Very dangerous winds will produce some damage:**

- Homes could have damage to roof, siding and gutters.
- Branches of trees will snap.
- Power outages could last a few to several days.





# Hurricane Category 2



Wind Speed (mph)	96	105	110
Damage Multiplier	10x	15x	21x

IKE (2008)

**Extremely dangerous winds will cause extensive damage:**

- Homes sustain major roof and siding damage.
- Many trees will be snapped or uprooted.
- Near-total power loss from several days to weeks.





# Hurricane Category 3



Wind Speed (mph)	111	120	129
Damage Multiplier	30x	43x	60x

IVAN (2004)

**Devastating damage will occur:**

- Homes incur major damage or removal of roof.
- Many trees will be snapped or uprooted.
- Electricity and water unavailable for several days to weeks.





# Hurricane Category 4



Wind (mph)	130	135	140	145	150	155
Dam. Mult.	82x	110x	147x	195x	255x	333x

ANDREW (1992)

**Catastrophic damage will occur:**

- Homes sustain loss of roof structure and/or some exterior walls.
- Most trees will be snapped or uprooted and power poles downed.
- Power outages will last weeks to months.





# Hurricane Category 5



Wind (mph)	157	165	170	175	180	185	190
Dam. Mult.	429x	549x	697x	879x	1101x	1371x	1696x

CAMILLE (1969)

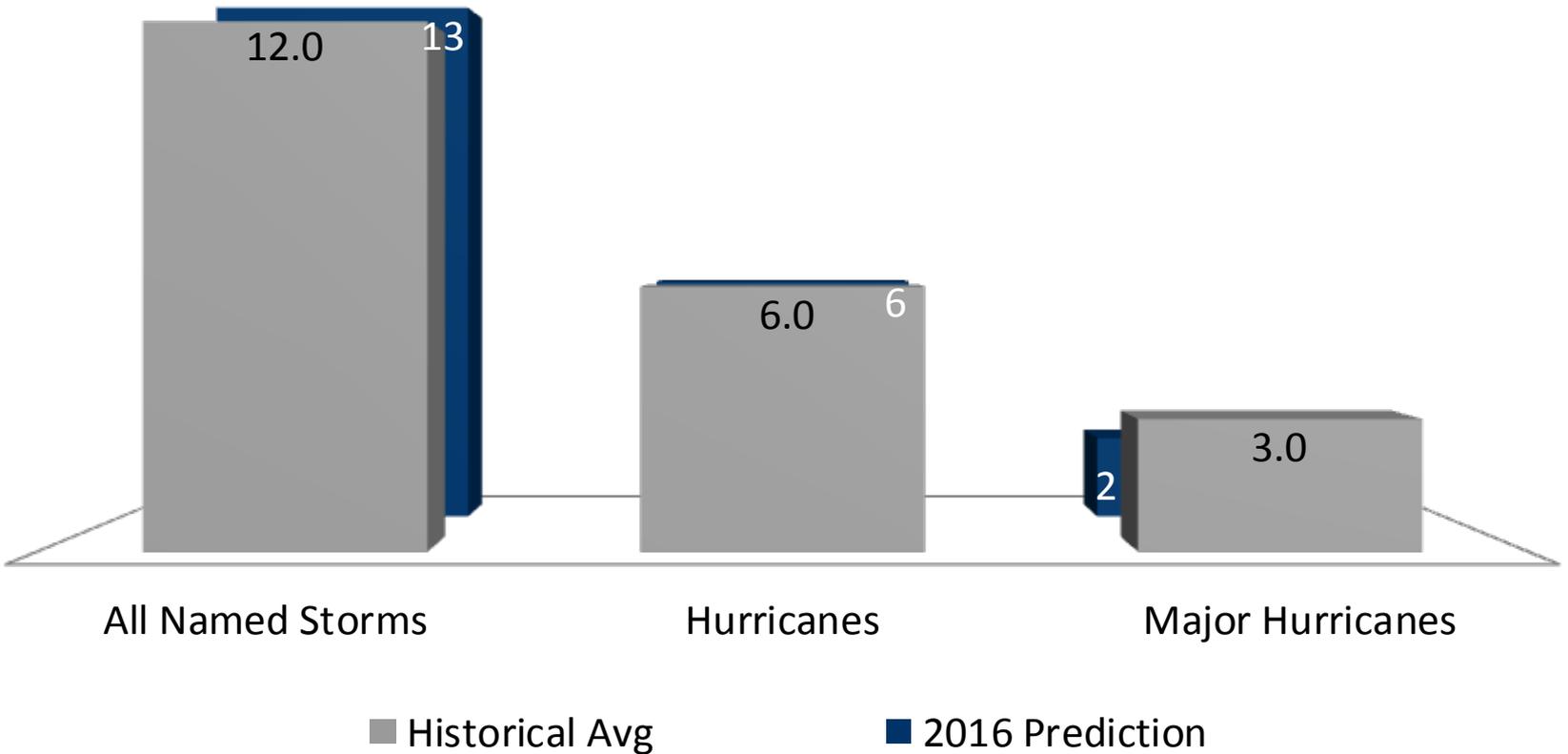
**Catastrophic damage will occur:**

- High percentage of homes will be destroyed.
- Fallen trees and power poles will isolate residential areas.
- Power outages will last for weeks to possibly months.



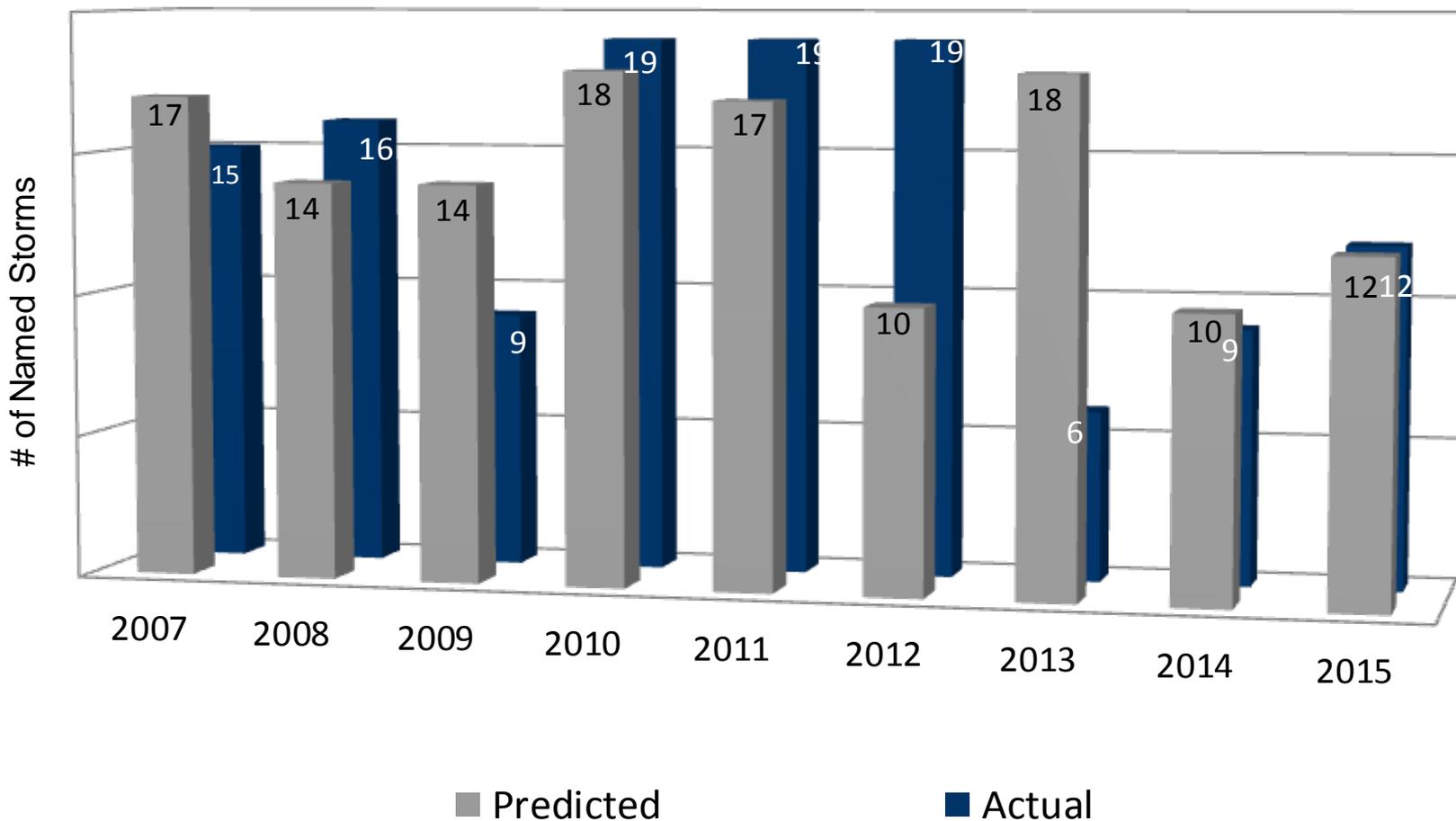


# Annual # of Atlantic Storms





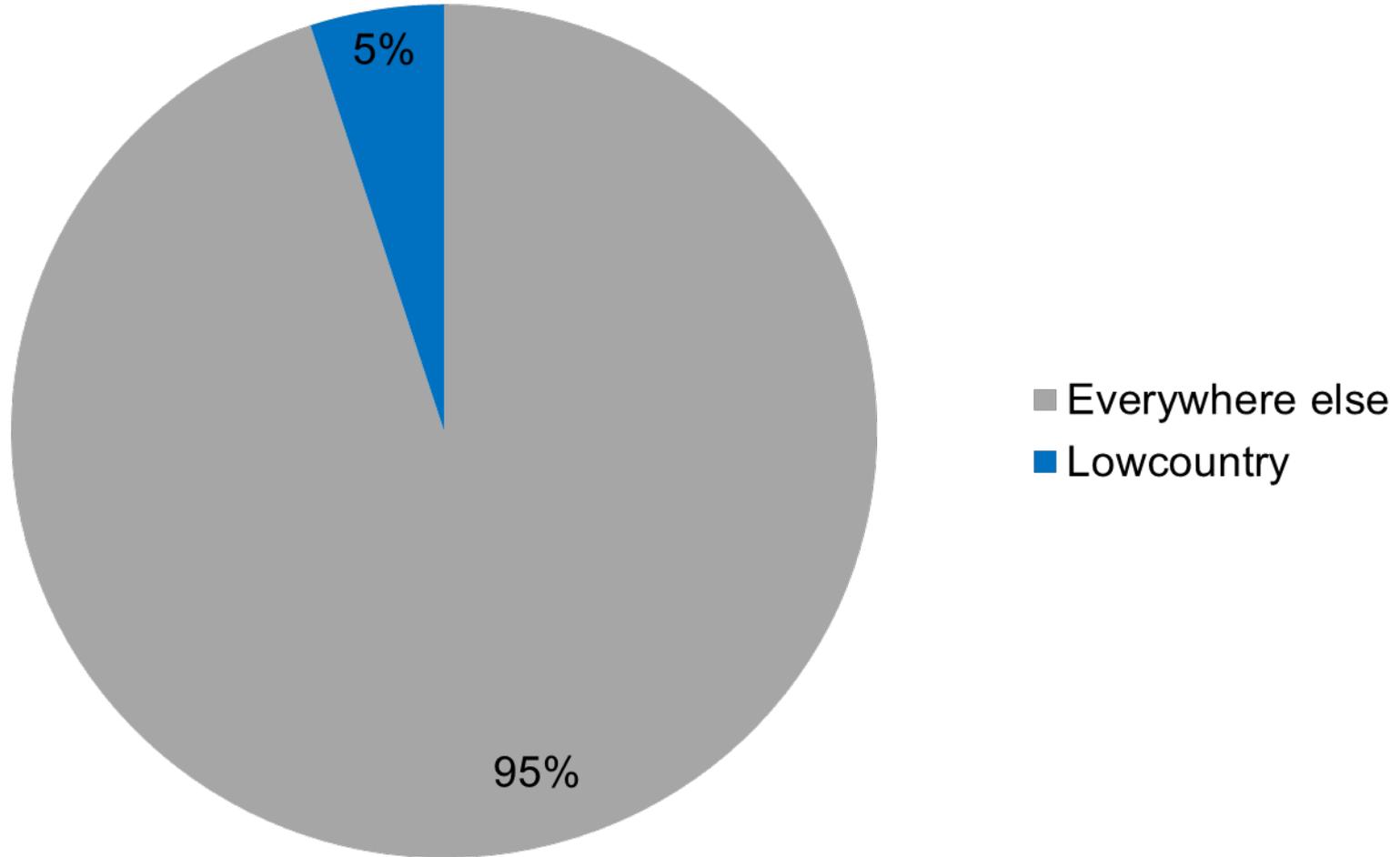
# Historical Predictions



# Since the Sea Island Hurricane of 1893...

- 120 years x 12 (avg) named Atlantic storms each year = 1440
- 7 of the last 1440 threatened the Lowcountry
- 0.5% or 1 in every 200

# What is the probability of a named storm threatening the Lowcountry this year?





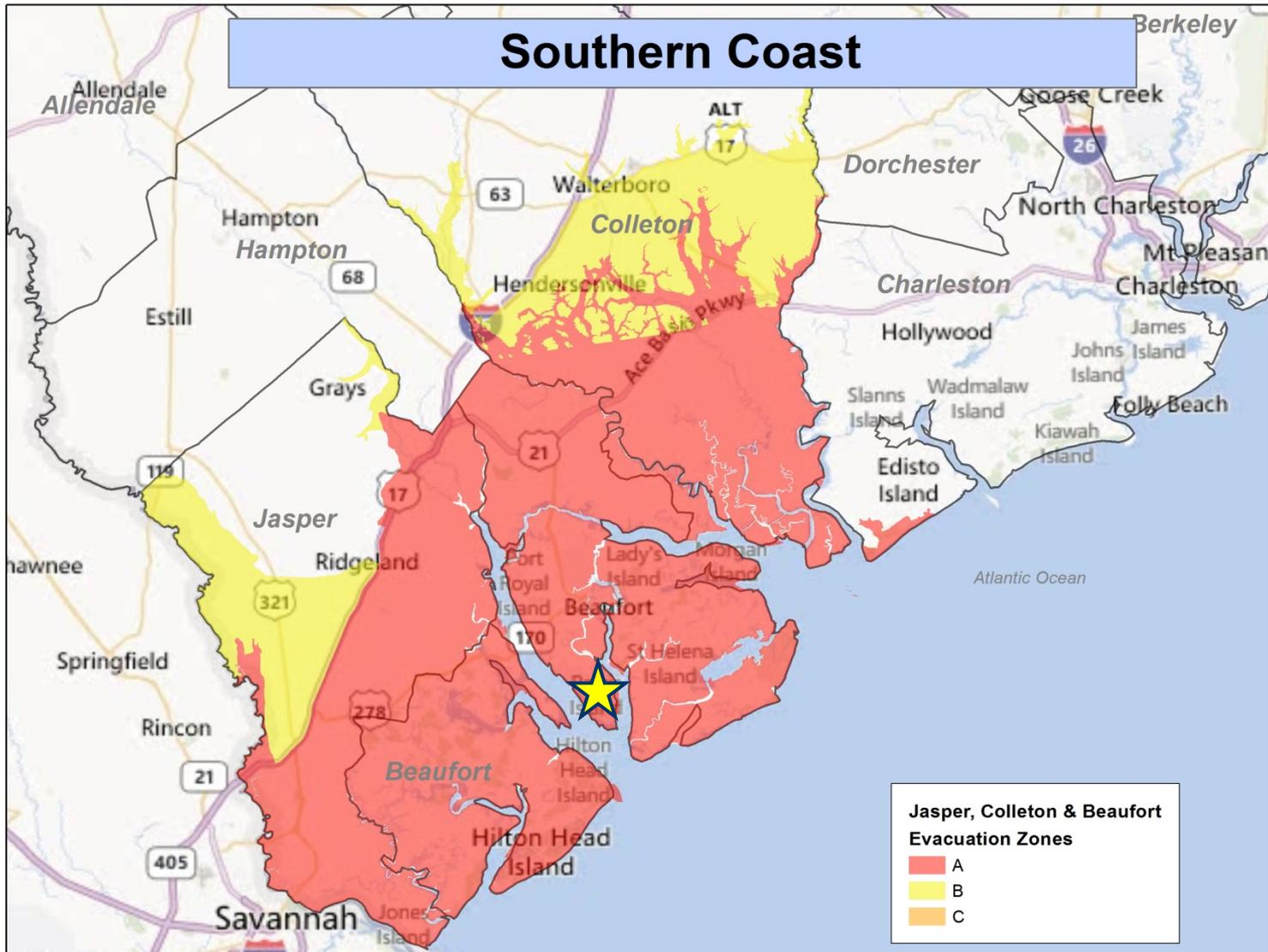
# Evacuations

- ❑ Mandatory Evacuation. If a storm threatens Beaufort County and it's predicted to make landfall with significant storm damage potential, a mandatory evacuation *may* be ordered.
  - ❑ Governor of SC makes the evacuation decisions for South Carolina
    - ❑ Always coordinated with Parris Island
    - ❑ Beaufort County wants Parris Island evacuated first
  - ❑ Our Commanding General makes the evacuation decisions for Parris Island
    - ❑ Likely before Beaufort County
    - ❑ Never after Beaufort County
    - ❑ Expenses individuals incur as a result will be reimbursed
- ❑ Voluntary Evacuation. As a precautionary measure, some individuals may elect to depart the area before the Mandatory Evacuation Order is given.

Any expenses incurred prior to a Mandatory Evacuation Order will **not** be reimbursed



# Evacuation Zones





# Personnel Status

- Emergency (service members & civilians):
  - ADVON     Fwd CP     RBE
  - Convoy             Field Trng Plt
  
- Delayed Release/Early Return (civilians)
  
- Non-emergency:
  - Non-essential
  - Main Body (“Deployed Personnel”)



# Safe-haven

- ❑ Initially, everyone goes to theirs and waits out the storm
- ❑ Everyone must have one identified **in advance**
  - ❑ Non-emergency safe-haven:  $\geq 100$  miles inland
  - ❑ Emergency personnel:
    - ❑ Albany, GA
    - ❑ Atlanta, GA
    - ❑ Parris Island/BNH
- ❑ Safe-haven period will end after base assessment
  - a) Come back home, or...
  - b) Resume training off-site (“COOP”)
  - c) Or some combination



# Your Hurricane Plan

Three simple steps:

1. Choose your safe-haven wisely
  - Consider COOP when choosing your safe-haven
  - Do not plan on going to Lejeune or other Southeast military bases
2. Ensure your Command & your family know your plan
3. Complete the Household Pre-deployment Checklist



# Evacuation Reimbursement

- **Who**: Marines, civilian employees, and legitimate dependents (living in the area)
- **What**: Reimbursement of actual evacuation expenses
  - Per diem
  - Lodging
  - Tolls
  - Mileage
- **When**: Only when the CG orders evacuation
- **How**: Must fill out the paperwork
  - DD 1351, travel voucher
  - Keep your receipts! (lodging, tolls, etc)
  - Orders



# NMCRS

- 0% interest loan for gas, food, and housing
  - \$300 single service member
  - \$600 family
  - Repayment allotments start in 3 months, after DOD reimbursement, unless it creates a financial burden
- POC Navy-Marine Corps Relief Society
  - MCRD Parris Island 228-3512
  - American Red Cross 877-272-7337
  - NMCRS HQ 800-654-8364
- Spouse-Power of Attorney or Pre-Authorization preferred



# FAQs

- **Q: Will I be entitled to reimbursement if I stay with relatives in another town?**
- **A:** You will be entitled to mileage and the meal portion of the evacuation allowances. However, there is no reimbursement for lodging at a friend or relative's, even if you were charged to stay with them.
  
- **Q: How do I submit a claim for an evacuation?**
- **A:** The Finance Office, in partnership with the Installation Personnel Administrative Center (IPAC), will setup group submission sessions with the Battalions after we return to Parris Island. We will provide personnel to assist on the arranged dates and times.
  
- **Q: What documents will I need to submit for the settlement?**
- **A:** You will need a copy of your evacuation order, lodging receipts and a completed travel voucher that will be completed at the travel claim submission session for your unit. The orders will be provided by IPAC and will include the dependents authorized to evacuate and the safe haven location.



# FAQs

- **Q: I am a civilian government employee assigned to Parris Island, what allowances am I entitled to when an evacuation is ordered?**
- **A: As Essential Personnel, you will be entitled to all TAD entitlements, once the order is given to evacuate.**
  
- **Q: How will the payment be made?**
- **A: Payment will be made by Electronic Fund Transfer, generally to the member's direct deposit account, but an alternate account can be identified. For Dependent only claims, an EFT form must be completed and included with the travel claim.**
  
- **Q: I am a military member, may I use the government travel charge card?**
- **A: Your entitlements are the same as if you were sent TAD; Government travel card use is authorized for the same expenses as if you were TAD. Your card should be activated by your command once the evacuation is ordered.**

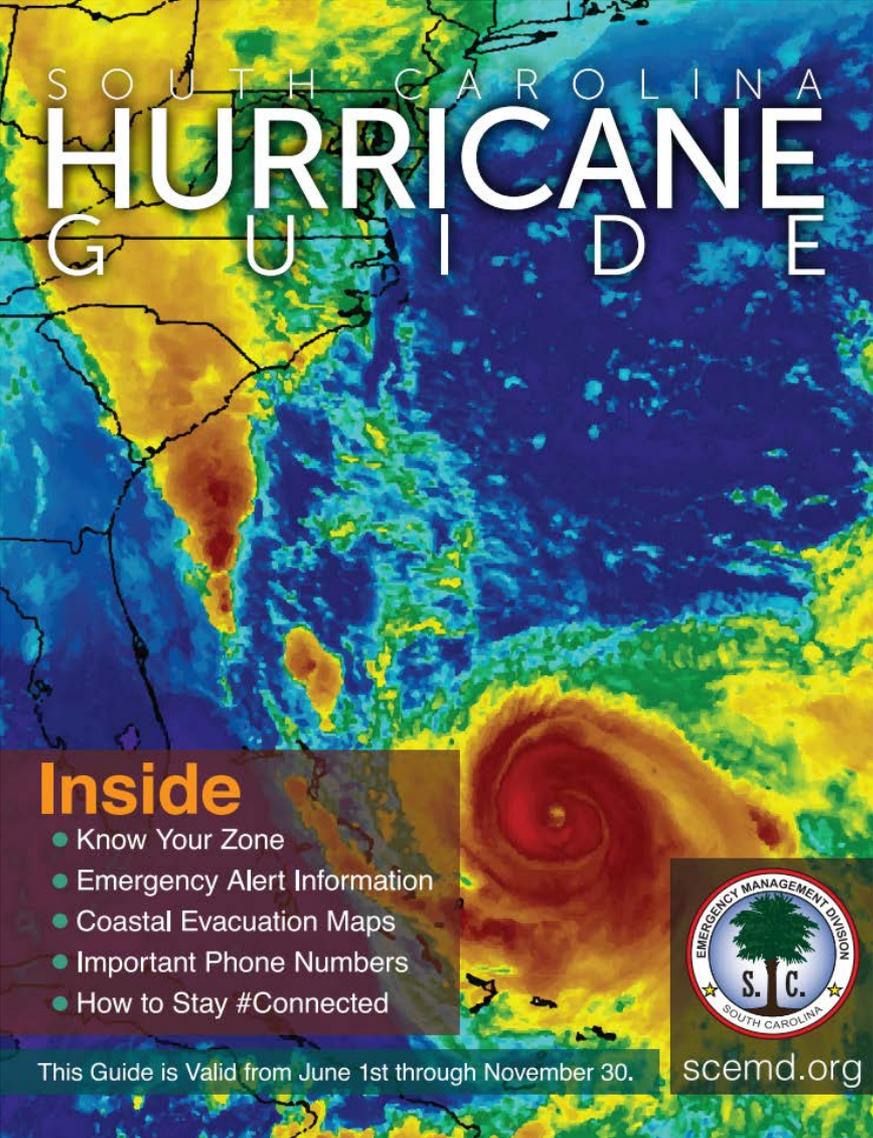


## Additional Sources of Info

- ❑ Depot :
  - ❑ 1-800-343-0639 (Return Information)
  - ❑ [www.mcrdpi.usmc.mil](http://www.mcrdpi.usmc.mil) (Resources Tab under “Emergency Management”)
- ❑ County will control return to Beaufort Area:
  - ❑ 1-800-963-5023
  - ❑ [www.bcgov.net](http://www.bcgov.net)
- ❑ 2016 South Carolina Hurricane Guide
  - ❑ <http://www.scecmd.org/>



# South Carolina 2016

The cover of the "South Carolina Hurricane Guide" features a satellite-style map of the state of South Carolina and the surrounding Atlantic Ocean. The map uses a color scale from blue (low intensity) to red (high intensity) to show weather patterns. A large, detailed hurricane is depicted in the lower right quadrant of the map. The title "SOUTH CAROLINA HURRICANE GUIDE" is prominently displayed in white, bold, sans-serif font across the top half of the cover. In the bottom left corner, there is a dark rectangular box containing the word "Inside" in orange, followed by a bulleted list of five items. In the bottom right corner, there is a circular logo for the Emergency Management Division of South Carolina, featuring a palm tree and the letters "S.C." in the center. Below the logo, the website "scemd.org" is printed in white. At the very bottom of the cover, a white banner contains the text "This Guide is Valid from June 1st through November 30." in black font.

**Inside**

- Know Your Zone
- Emergency Alert Information
- Coastal Evacuation Maps
- Important Phone Numbers
- How to Stay #Connected

This Guide is Valid from June 1st through November 30.

scemd.org



## IMPORTANT WEB SITES

National Hurricane Center  
<http://nhc.noaa.gov/>

South Carolina Emergency Management  
Division website  
<http://scemd.org/>

MCCS SC Hurricane Preparedness Website  
<http://www.mccs-sc.com/res-inf/hurricane>

American Red Cross  
<http://redcross.org>



MCRD/ERR Parris Island  
Emergency Management  
[http://www.mcrdpi.marines.mil/  
Resources/EmergencyManagement.aspx](http://www.mcrdpi.marines.mil/Resources/EmergencyManagement.aspx)

### Other Useful Sites:

<http://bcgov.net>

<http://hurricanezone.net/atlantic/>

<http://www.ready.gov/hurricanes>

## NAVY-MARINE CORPS RELIEF SOCIETY

(NMCRS) can be reached at:  
MCRD 228-3512  
MCAS 228-7357

### Disaster Assistance Loan

0% Loan (exactly like it says, a loan,  
must be paid back typically by allotment)

Spouse must have Power of Attorney  
or Pre-authorization to apply.

\$300 single  
\$600 family

## 2016 HURRICANE NAMES

Alex  
Bonnie  
Colin  
Danielle  
Earl  
Fiona  
Gaston  
Hermine  
Ian  
Julia  
Karl

Lisa  
Matthew  
Nicole  
Otto  
Paula  
Richard  
Shary  
Tobias  
Virginie  
Walter



## EVACUATION ROUTES - BEAUFORT

Evacuees will use the two present northbound  
lanes on US 21. These lanes will be turned onto  
US 17 south to I-95 at Exit 33 (Point South)  
where the left lane will go to I-95 south and  
the right lane to I-95 north.

Under certain conditions, a third northbound  
lane will be formed by reversing flow on the  
inside southbound lane of US 21 at SC 280.  
This lane will carry the traffic from SC 280.  
Also as condition warrant, US 21 may be  
converted to four lanes northbound from SC  
280. Both of the above schemes will end at US  
17, Gardens Corner. In either case, motorists  
will be given instructions through signs and  
highway advisory radio.

# HURRICANE SEASON 2016



Hurricane Season  
June 1 to November 30

## BE PREPARED BEFORE A STORM HITS

### This Brochure Contains:

Hurricane Evacuation Checklist

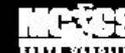
Important Phone Numbers

Important Web Sites

2016 Hurricane Names

Storm Surge

Evacuation Routes





## EVACUATION CHECKLIST

- Water - at least 1 gallon daily per person for 3-7 days
- Food - at least enough for 3 to 7 days non-perishable food, foods for infants or the elderly, snack foods, non-electric can opener, paper plates / plastic utensils
- Blankets / Pillows, etc.
- Clothing
- First Aid Kit / Medicines
- Special Items - for babies and the elderly toiletries, hygiene items, moisture wipes, flashlight, batteries, battery operated radio
- Cash (with some small bills)  
Banks and ATMs may not be open or available for extended periods.
- Cell phone with charger, inverter or solar charger
- Toys, Books and Games
- Important documents  
in a waterproof container or watertight resealable plastic bag (insurance, medical records, bank account numbers, Social Security card, etc.)
- Tools - keep a set with you during the storm
- Vehicle fuel tanks filled
- Pet care items  
proper identification  
ample supply of food and water  
a carrier or cage  
muzzle and leash

### Home and Yard Checklist

- Unplug appliances
- Turn off gas & electric
- Secure outdoor objects
- Board windows
- Safe guard personal gear

## IMPORTANT PHONE NUMBERS

American Red Cross (24 Hour #)  
1-877-272-7337

Marine Corps Family Team Building  
MCRD 228-1662  
MCAS 228-6141

PMO—Military Police (non emergency)  
MCRD 228-3444  
MCAS 228-6710

Navy/Marine Corps Relief Society  
MCRD 228-3512  
MCAS 228-7357

Tricare  
1-800-444-5445

Military OneSource  
1-800-342-9647



For the status of your unit or organization  
call the Tri-Command Hurricane Hotline:

**1-800-343-0639**



## STORM SURGE

The greatest potential for loss of life in coastal areas related to a hurricane is from the storm surge, which historically has claimed nine of ten storm victims.



### Category 1:

Minimal Damage  
Winds: 74-95 mph  
Surge 4 to 5 feet



### Category 2:

Moderate Damage  
Winds: 96-110 mph  
Surge 6 to 8 feet



### Category 3:

Extensive Damage  
Winds: 111-130 mph  
Surge 9 to 12 feet



### Category 4:

Extreme Damage  
Winds: 131-155 mph  
Surge 13 to 18 feet

### Category 5:

Catastrophic Damage  
Winds: More than 155 mph  
Surge: higher than 18 feet



Whether you decide to stay in place or evacuate, having a plan and being ready are the keys to safety. **Start planning today. Stay alert. Stay alive.**



# MCRD PARRIS ISLAND HURRICANE PREPAREDNESS BRIEFS

## 2016 DATES

10	June	1300-1500
8	July	1300-1500
12	August	1300-1500
16	September	1300-1500
14	October	1300-1500

All briefs held at the Four Winds Family Readiness Center.  
To register contact Becky Salazar at 843-228-1570 or [salazarhm@usmc-mccs.org](mailto:salazarhm@usmc-mccs.org).

Don't wait until the last minute to prepare yourself and your family for the hurricane season. It is better to be safe than sorry. Come learn the most up to date details about emergency kits, evacuation routes and more!





**Atlantic**  
**Marine Corps**

COMMUNITIES

A Lend Lease Community



# Responsibility of Resident

- Unplug all appliances prior to evacuation.
- Bring loose objects from outside the home indoors to prevent them from becoming projectiles.
- Fill bathtub and large containers with water for sanitary purposes.
- Check for items needed in your hurricane kit.

Have a Family Evacuation Plan!

# Responsibility of Resident

- New Construction on Parris Island & Laurel Bay
  - Category I or II:
    - It will be up to the resident whether they want to install the hurricane shutters.
    - If the resident chooses to install the hurricane shutters, they must be removed immediately upon the resident's return.

# Responsibility of Resident

- New Construction on Parris Island & Laurel Bay
  - Category III or greater:
    - Residents will be responsible for installing the hurricane shutters that are provided on the first floor.
    - AMCC will offer assistance to spouses whose military spouse is deployed. This assistance will be provided as AMCC personnel are available and prior notice is requested.
    - All windows that require a ladder for installation on the first floor will be covered by AMCC personnel.

# Renter's Insurance

- Each service member is encouraged to purchase Renter's Insurance based on their personal needs

# Family & Pets

## Family Safety First

- Have a plan
- Know your evacuation route
- Bring Medication & Banking information

## Do not forget your pets!!!

- Not acceptable to leave pets in the home or outdoors
- Local vet will not take pets
- Beaufort County will not take pets

# Additional Information

- Regularly updated news:
  - AMCC at Tri-Command website  
([www.tc.atlanticmcc.com](http://www.tc.atlanticmcc.com)<Current Residents>)
  - Facebook  
[www.facebook.com/tricommand](http://www.facebook.com/tricommand)
  - Emails from AMCC
- Resident Services Coordinator

# Questions

[www.tc.atlanticmcc.com](http://www.tc.atlanticmcc.com)

AMCC at Tri-Command Welcome Center  
843.846.5300

AMCC at Tri-Command Maintenance  
877.509.2424