



What's New from NHC in 2011?

Robbie Berg and Dan Brown
National Hurricane Center

National Hurricane Conference
D2 Meteorology – Hurricane Products
Atlanta, Georgia
21 April 2011



Recap of 2010 Changes

- ✓ New watch/warning lead times
- ✓ Probabilities of genesis added to TWO
- ✓ Format changes to:
 - Tropical Weather Outlook
 - Public advisory
 - Tropical Cyclone Update
- ✓ Post-tropical terminology
- ✓ Saffir-Simpson Hurricane Wind Scale



2011 Changes

- Product header changes
 - Official name change
 - Format modification
 - Final advisory storm type
- MPH added to Tropical Cyclone Discussion
- Update to Atlantic and East Pacific storm name pronunciations
- Change in abbreviation for kilometers per hour
- Storm surge exceedance products operational
- Size of tropical cyclone track forecast cone
- Facebook
- New and updated outreach brochures



Product Header Changes

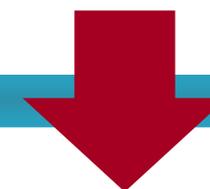
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ZCZC MIATCPAT1 ALL
TTAA00 KNHC DDHHMM
BULLETIN
HURRICANE IGOR ADVISORY NUMBER 55
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL112010
500 PM AST TUE SEP 21 2010
```



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ZCZC MIATCPAT1 ALL
TTAA00 KNHC DDHHMM
BULLETIN
HURRICANE IGOR ADVISORY NUMBER 55
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL112010
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Add space



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ZCZC MIATCPAT1 ALL
TTAA00 KNHC DDHHMM
BULLETIN
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NWS NATIONAL HURRICANE CENTER MIAMI FL AL112010
500 PM AST TUE SEP 21 2010
```

Name change from TPC to NHC
Remove "TPC/"





Final Advisory Product Headers



ZCZC MIATCPAT1 ALL
TTAA00 KNHC DDHHMM

BULLETIN

HURRICANE IGOR ADVISORY NUMBER 55
NWS NATIONAL HURRICANE CENTER MIAMI FL AL112010
500 PM AST TUE SEP 21 2010

...**IGOR BECOMES POST-TROPICAL**...

SUMMARY OF 500 PM AST...2100 UTC...INFORMATION

LOCATION...49.3N 51.7W
ABOUT 125 MI...200 KM NNE OF ST. JOHNS NEWFOUNDLAND
MAXIMUM SUSTAINED WINDS...80 MPH...130 KM/HR
PRESENT MOVEMENT...NNE OR 25 DEGREES AT 39 MPH...63 KM/HR
MINIMUM CENTRAL PRESSURE...950 MB...28.05 INCHES

...

DISCUSSION AND 48-HOUR OUTLOOK

AT 500 PM AST...2100 UTC...THE **CENTER OF POST-TROPICAL CYCLONE IGOR**
WAS LOCATED NEAR LATITUDE 49.3 NORTH...LONGITUDE 51.7 WEST. IGOR IS
MOVING TOWARD THE NORTH-NORTHEAST NEAR 39 MPH...63 KM/HR. A TURN
TOWARD THE NORTH WITH A DECREASE IN FORWARD SPEED IS EXPECTED BY
WEDNESDAY...FOLLOWED BY A TURN TOWARD THE NORTHWEST BY THURSDAY.

12:36 PM



Final Advisory Product Headers



ZCZC MIATCPAT1 ALL
TTAA00 KNHC DDHHMM

BULLETIN

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12:36 PM



Final Advisory Product Headers



ZCZC MIATCPAT4 ALL
TTAA00 KNHC DDHMM

BULLETIN

TROPICAL DEPRESSION COLIN ADVISORY NUMBER 20
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL042010
500 PM AST SUN AUG 08 2010

...**COLIN HAS DISSIPATED**...THIS IS THE LAST ADVISORY...

SUMMARY OF 500 PM AST...2100 UTC...INFORMATION

LOCATION...32.9N 65.6W
ABOUT 60 MI...100 KM NW OF BERMUDA
MAXIMUM SUSTAINED WINDS...30 MPH...45 KM/HR
PRESENT MOVEMENT...N OR 10 DEGREES AT 12 MPH...19 KM/HR
MINIMUM CENTRAL PRESSURE...1015 MB...29.97 INCHES

...

DISCUSSION AND 48-HOUR OUTLOOK

AT 500 PM AST...2100 UTC...THE **REMNANT OF TROPICAL DEPRESSION COLIN**
WAS LOCATED NEAR LATITUDE 32.9 NORTH...LONGITUDE 65.6 WEST. THE
REMNANT IS MOVING TOWARD THE NORTH NEAR 12 MPH...19 KM/HR. A TURN
TOWARD THE NORTH-NORTHEAST WITH AN INCREASE IN FORWARD SPEED IS
EXPECTED TONIGHT AND MONDAY.

12:36 PM



Final Advisory Product Headers



ZCZC MIATCPAT4 ALL
TTAA00 KNHC DDHHMM

BULLETIN

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12:36 PM



Kilometers per Hour

SUMMARY OF 1100 AM AST...1500 UTC...INFORMATION

LOCATION...14.0N 63.7W

ABOUT 180 MI...290 KM W OF ST. LUCIA

ABOUT 345 MI...550 KM SSE OF SAN JUAN PUERTO RICO

MAXIMUM SUSTAINED WINDS...90 MPH...150 **KM/HR**

PRESENT MOVEMENT...WNW OR 285 DEGREES AT 9 MPH...15 **KM/HR**

MINIMUM CENTRAL PRESSURE...986 MB...29.12 INCHES

...

DISCUSSION AND 48-HOUR OUTLOOK

AT 1100 AM AST...1500 UTC...THE CENTER OF HURRICANE TOMAS WAS
LOCATED NEAR LATITUDE 14.0 NORTH...LONGITUDE 63.7 WEST. TOMAS IS
MOVING TOWARD THE WEST-NORTHWEST NEAR 9 MPH...15 **KM/HR**. THIS
GENERAL MOTION IS EXPECTED TO CONTINUE THROUGH TONIGHT...FOLLOWED
BY A TURN TOWARD THE WEST ON MONDAY. TOMAS IS FORECAST TO MOVE
ACROSS THE EASTERN CARIBBEAN SEA DURING THE NEXT COUPLE OF DAYS.

MAXIMUM SUSTAINED WINDS HAVE DECREASED TO 90 MPH...150 **KM/HR**...WITH
HIGHER GUSTS. TOMAS IS A CATEGORY ONE HURRICANE ON THE
SAFFIR-SIMPSON HURRICANE WIND SCALE. SOME SLIGHT WEAKENING IS
FORECAST DURING THE NEXT 24 HOURS...FOLLOWED BY LITTLE CHANGE IN
STRENGTH MONDAY NIGHT AND TUESDAY.



Kilometers per Hour

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Tropical Cyclone Discussion



ZCZC MIATCDAT2 ALL
TTAA00 KNHC DDHMM

HURRICANE EARL DISCUSSION NUMBER 19
NWS NATIONAL HURRICANE CENTER MIAMI FL AL072010
1100 PM AST SUN AUG 29 2010

EARL HAS STRENGTHENED OVER THE PAST FEW HOURS. THE AIR FORCE HURRICANE HUNTERS RECENTLY FOUND AN SFMR-MEASURED SURFACE WIND SPEED OF 83 KT JUST SOUTHEAST OF THE CENTER. MAXIMUM FLIGHT-LEVEL WINDS FROM THE AIRCRAFT WERE 93 KT...WHICH ADJUSTS TO 84 KT AT THE SURFACE USING THE STANDARD REDUCTION FACTOR.

...

FORECAST POSITIONS AND MAX WINDS

INITIAL	30/0300Z	17.9N	61.1W	85 KT
12HR VT	30/1200Z	18.5N	62.7W	90 KT
24HR VT	31/0000Z	19.6N	64.6W	100 KT
36HR VT	31/1200Z	21.1N	66.4W	110 KT
48HR VT	01/0000Z	22.8N	68.2W	115 KT
72HR VT	02/0000Z	27.5N	71.5W	115 KT
96HR VT	03/0000Z	34.0N	72.0W	100 KT
120HR VT	04/0000Z	40.0N	67.0W	85 KT

\$\$

FORECASTER PASCH



Tropical Cyclone Discussion

ZCZC MIATCDAT2 ALL
TTAA00 KNHC DDHMM

HURRICANE EARL DISCUSSION NUMBER 19
NWS NATIONAL HURRICANE CENTER MIAMI FL AL072010
1100 PM AST SUN AUG 29 2010

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FORECAST POSITIONS AND MAX WINDS

INITIAL	30/0300Z	17.9N	61.1W	85 KT	100 MPH
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24HR VT	31/0000Z	19.6N	64.6W	100 KT	115 MPH
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48HR VT	01/0000Z	22.8N	68.2W	115 KT	130 MPH
72HR VT	02/0000Z	27.5N	71.5W	115 KT	130 MPH
96HR VT	03/0000Z	34.0N	72.0W	100 KT	115 MPH
120HR VT	04/0000Z	40.0N	67.0W	85 KT	100 MPH

\$\$

FORECASTER PASCH



Storm Name Pronunciation

http://www.nhc.noaa.gov/pdf/aboutnames_pronounce_atlc.pdf

http://www.nhc.noaa.gov/pdf/aboutnames_pronounce_epac.pdf

2011 Atlantic

Arlene ar-LEEN
Bret bret
Cindy SIN-dee
Don dahn
Emily EH-mih-lee
Franklin FRANK-lin
Gert gert
Harvey HAR-vee
Irene eye-REEN
Jose ho-ZAY
Katia ka-TEE-ah
Lee lee
Maria muh-REE-uh
Nate nait
Ophelia o-FEEL-ya
Philippe fee-LEEP
Rina REE-nuh
Sean shawn
Tammy TAM-ee
Vince vinss
Whitney WHIT-nee

2011 East Pacific

Adrian AY-dree-uhn
Beatriz BEE-a-triz Calvin
KAL-vin Dora DOR-ruh
Eugene YOU-jeen
Fernanda fer-NAN-dah
Greg greg
Hilary HIH-luh-ree Irwin
UR-win
Jova JO-vah
Kenneth KEH-neth
Lidia LIH-dyah
Max maks
Norma NOOR-muh
Otis OH-tis
Pilar Pee-LAHR
Ramon rah-MOWN
Selma SELL-mah
Todd tahd
Veronica vur-RAHN-ih-kuh
Wiley WY-lee Xina ZEE-nah
York york
Zelda ZEL-dah



Cone Radii – 2011 vs. 2010



Atlantic

Forecast Period (h)	2010 Circle Radius (n mi) ('05 – '09 errors)	2011 Circle Radius (n mi) ('06 – '10 errors)	Percent Change
12	36	36	0%
24	62	59	-5%
36	85	79	-7%
48	108	98	-9%
72	161	144	-11%
96	220	190	-14%
120	285	239	-16%

East Pacific

Forecast Period (h)	2010 Circle Radius (n mi) ('05 – '09 errors)	2011 Circle Radius (n mi) ('06 – '10 errors)	Percent Reduction
12	36	33	-8%
24	59	59	0%
36	82	79	-4%
48	102	98	-4%
72	138	134	-3%
96	174	187	+7%
120	220	230	+5%



Cone Radii in the Era of 5-Day Forecasts



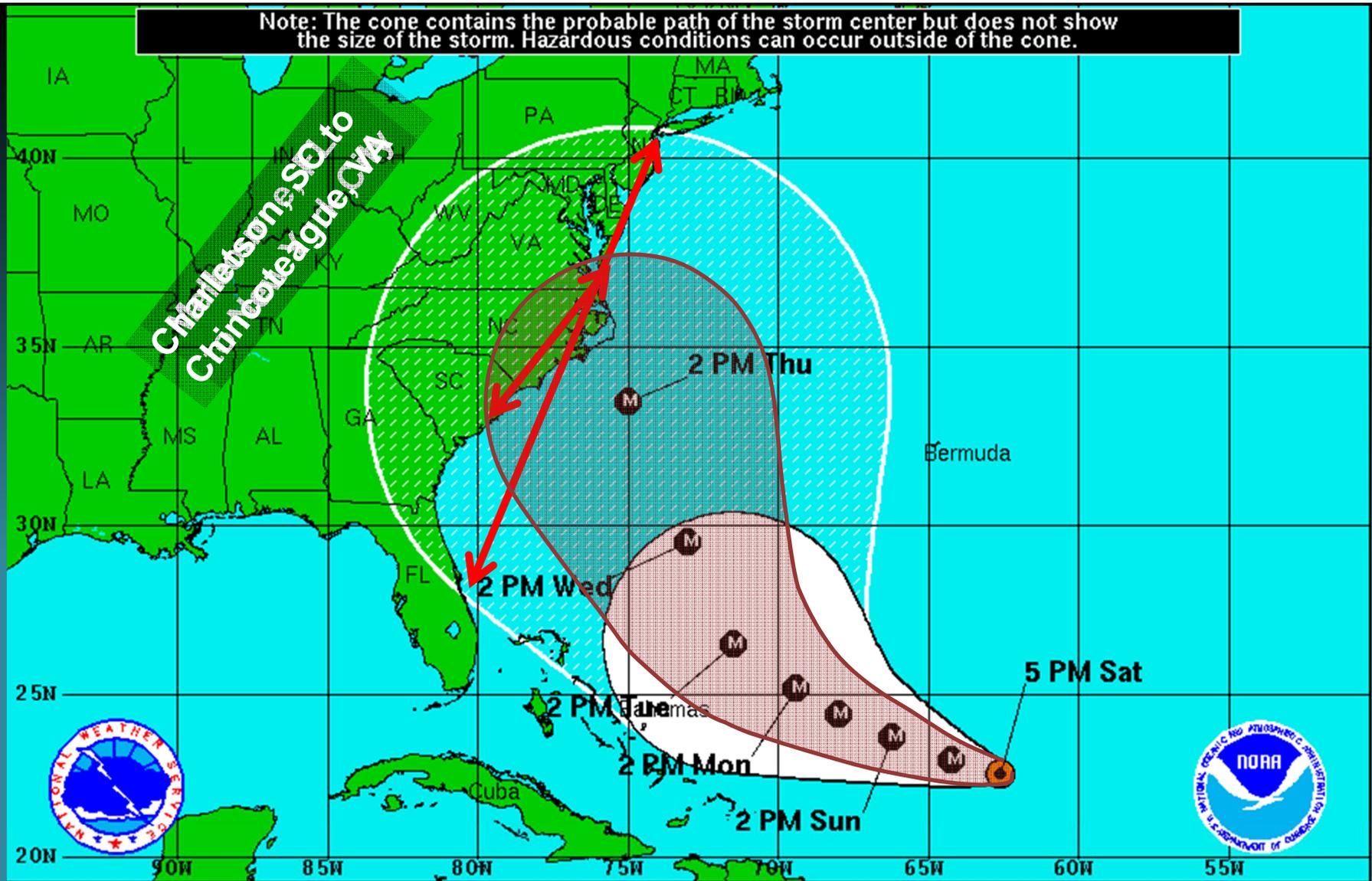
Atlantic

Forecast Period (h)	2003 Circle Radius (n mi) ('98 - '02 errors)	2011 Circle Radius (n mi) ('06 - '10 errors)	Percent Change
12	49	36	-27%
24	85	59	-31%
36	121	79	-35%
48	164	98	-40%
72	232	144	-38%
96	318	190	-40%
120	439	239	-46%

East Pacific

Forecast Period (h)	2003 Circle Radius (n mi) ('98 - '02 errors)	2011 Circle Radius (n mi) ('06 - '10 errors)	Percent Reduction
12	43	33	-23%
24	75	59	-21%
36	108	79	-27%
48	131	98	-25%
72	190	134	-29%
96	230	187	-19%
120	252	230	-9%

Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Hurricane Isabel

Saturday September 13, 2003

5 PM EDT Advisory 31

NWS TPC/National Hurricane Center

Current Information:

Center Location 22.6 N 62.6 W

Max Sustained Wind 160 mph

Movement WNW at 12 mph

Forecast Positions:

● Tropical Cyclone ○ Post-Tropical

Sustained Winds: D < 39 mph

S 39-73 mph H 74-110 mph M > 110mph

Potential Track Area:

12:36 PM
 Day 1-3 Day 4-5

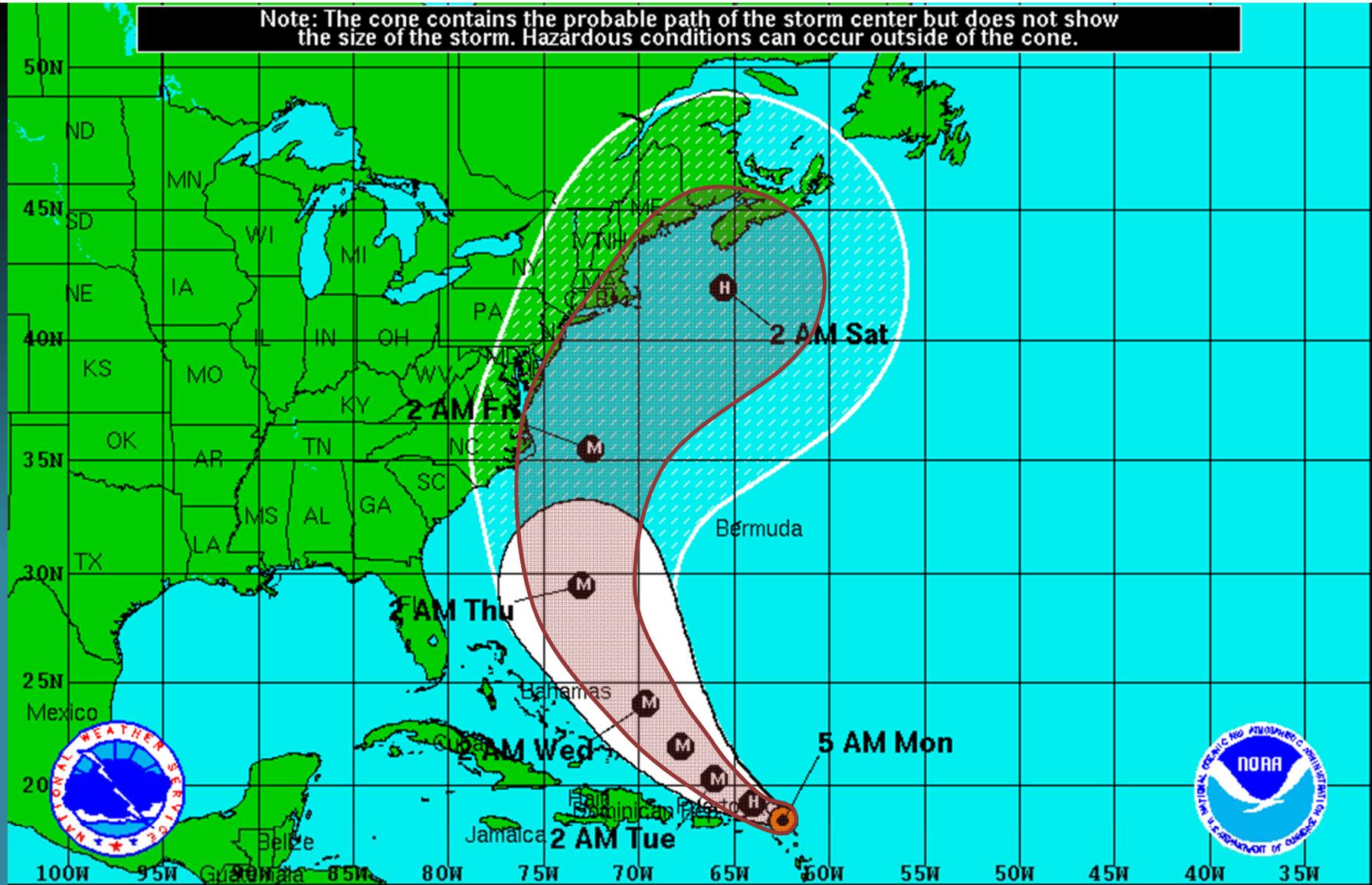
Watches:

Hurricane Trop.Storm

Warnings:

Hurricane Trop.Storm

Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Hurricane Earl
 Monday August 30, 2010
 5 AM EDT Advisory 20
 NWS TPC/National Hurricane Center

Current Information: 
 Center Location 18.3 N 62.4 W
 Max Sustained Wind 105 mph
 Movement WNW at 15 mph

Forecast Positions:
 Tropical Cyclone  Post-Tropical
 Sustained Winds: D < 39 mph
 S 39-73 mph H 74-110 mph M > 110mph

Potential Track Area:
 12:36 PM
 Day 1-3  Day 4-5

Watches:
 Hurricane  Trop.Storm

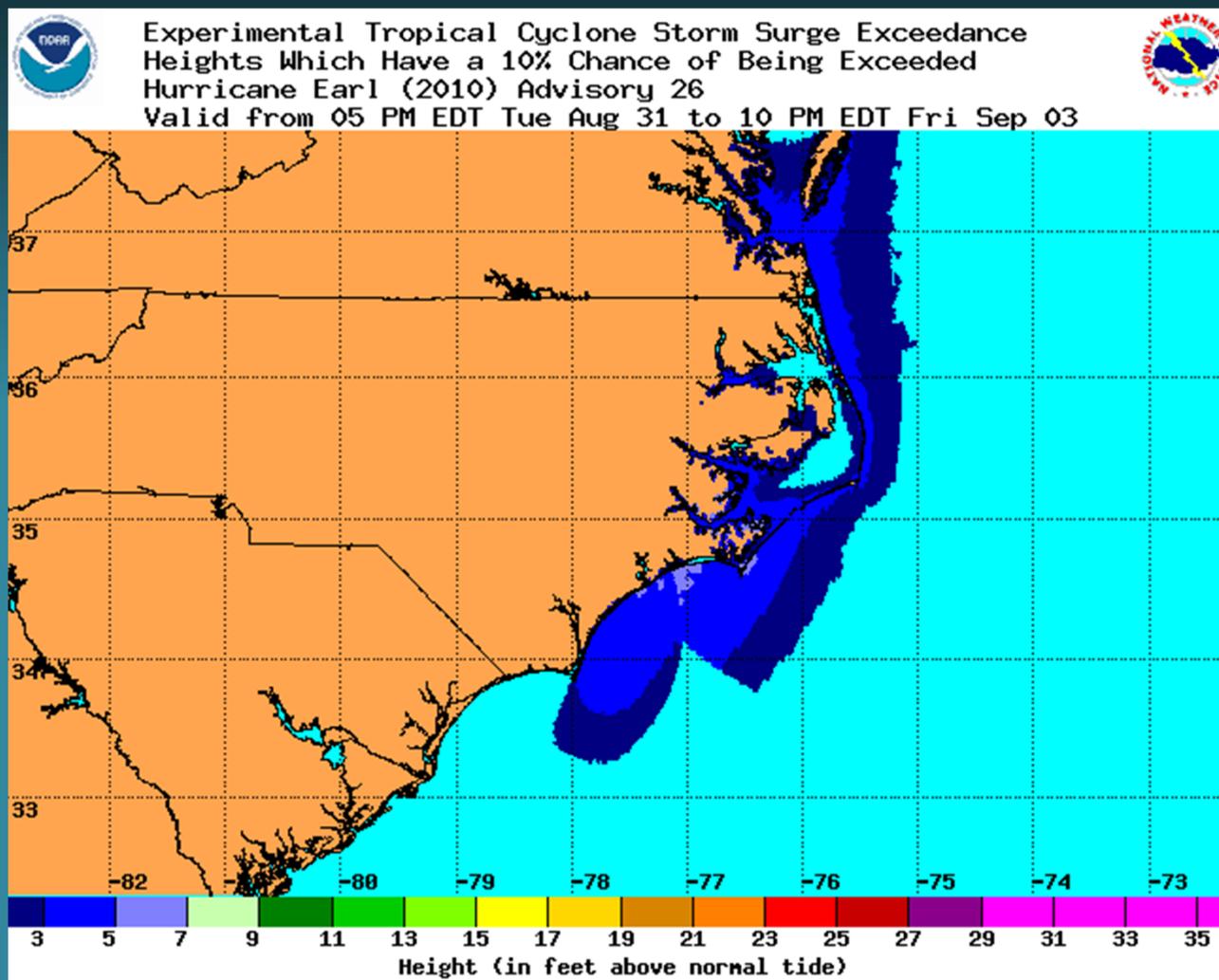
Warnings:
 Hurricane  Trop.Storm



Storm Surge Exceedance Products Now Operational

Available in 10% increments from 10% to 90%

<http://www.weather.gov/mdl/psurge/active.php>





Facebook



<http://www.facebook.com/US.NOAA.NationalHurricaneCenter.gov>

facebook
Home Profile Account



NHC
NATIONAL HURRICANE CENTER

NOAA NWS National Hurricane Center

Government Organization · Miami, Florida

Wall

NOAA NWS National Hurricane Center added 7 new photos to the album WMO RA-IV Workshop.



37 friends like this.

WHO RA-IV Workshop
The NHC has been hosting the World Meteorological Organization Region IV Workshop...



March 30 at 2:53pm · Like · Comment · Share

23 people like this.

Vladimir Labrada Rey there is yllan friend of mine
March 31 at 10:03pm · Like

Write a comment...

NOAA NWS National Hurricane Center added 5 new photos to the album 2011 CHAT.



2011 CHAT

March 29 at 7:18am · Like · Comment · Share

27 people like this.

NOAA NWS National Hurricane Center The 2011 Caribbean Hurricane Awareness Tour (CHAT) ended over the weekend after a successful trek from Mexico to Puerto Rico. The stops included San Jose del Cabo, Mexico; Tuxtla Gutierrez, Mexico; Grand Cayman; Caracao; St. Lucia, and Roos...

See More

March 29 at 7:24am · Like · 6 people

Write a comment...

NOAA NWS National Hurricane Center

By the way, no names from the Eastern North Pacific name rotation were retired by the WMO Region IV hurricane committee, so that list remains the same for 2016.

http://www.noaa.gov/stories/2011/20110316_hurricanenames.html



You and NOAA NWS National Hurricane Center



37 friends like this.

People You May Know See All

Max Mayfield
24 mutual friends
Add as friend

Seb Blake
2 mutual friends
Add as friend

Friends' Events See All

The Barker Lounge Grand Opening
Pa...
Saturday, April 9



Wall

- Info
- Posting Info
- Prototype - Read This!
- Photos
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- Notes

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Outreach

Tropical Cyclones



Hurricane Earl, September 1, 2005 NOAA

A PREPAREDNESS GUIDE
U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service
Revised March 2011



What is a Tropical Cyclone?

Tropical cyclones are among nature's most powerful and destructive phenomena. If you live in an area prone to tropical cyclones, you need to be prepared. Even areas well away from the coastline can be threatened by destructive winds, tornadoes and flooding from these storms. How great is the danger? For 2010-2019, the average numbers per year were as follows:

- 11 tropical storms, 6 of which become hurricanes
- East Pacific Ocean: 15 tropical storms, 8 of which become hurricanes
- Central Pacific Ocean: 4 tropical storms, 2 of which become hurricanes

Over a typical 2-year period, the U.S. coastline is struck by an average of 3 hurricanes, 1 of which is classified as a major hurricane.

While hurricanes pose the greatest threat to life and property, tropical storms and depressions also can be devastating. Floods from heavy rains and severe weather, such as tornadoes, can cause extensive damage and loss of life. For example, Tropical Storm Arthur produced over 40 inches of rain in the Houston area in 2001, causing about \$5 billion in damage and taking the lives of 41 people.

Tropical cyclones forming between 5 and 30 degrees North latitude typically move toward the west. Sometimes the winds in the middle and upper levels of the atmosphere change and steer the cyclone toward the north and northeast. When tropical

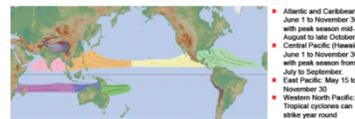
Understanding the Terminology

A tropical cyclone is a rotating, organized system of clouds and thunderstorms that originates over tropical or subtropical waters and has a closed low-level circulation. Tropical cyclones rotate counterclockwise in the Northern Hemisphere. They are classified as follows:

- Tropical Depression**—A tropical cyclone with maximum sustained winds of 39 mph (33 knots) or less.
- Tropical Storm**—A tropical cyclone with maximum sustained winds of 39 to 73 mph (34 to 63 knots).
- Hurricane**—A tropical cyclone with maximum sustained winds of 74 mph (64 knots) or higher. In the western North Pacific, hurricanes are called typhoons; similar storms in the Indian Ocean and South Pacific Ocean are called cyclones.
- Major Hurricane**—A tropical cyclone with maximum sustained winds of 111 mph (96 knots) or higher, corresponding to a Category 3, 4 or 5 on the Saffir-Simpson Hurricane Wind Scale.

cyclones reach latitudes near 30 degrees North, they often move northeast.

Hurricane seasons and their peaks are as follows:



Tropical cyclone formation regions with mean tracks. NWS ArtDrews Orlina School

<http://www.weather.gov/os/hurricane/resources/TropicalCyclones11.pdf>

Definitions of Hurricane and Tropical Storm Watches and Warnings

Hurricane Warning

An announcement that hurricane conditions are expected somewhere within the specified coastal area. Because outside hurricane preparedness activities become difficult once winds reach tropical storm force, the hurricane warning is issued 36 hours in advance of the anticipated onset of tropical-storm-force winds.

Hurricane Watch

An announcement that hurricane conditions are possible within the specified coastal area. Because outside hurricane preparedness activities become difficult once winds reach tropical storm force, the hurricane watch is issued 48 hours in advance of the anticipated onset of tropical-storm-force winds.

Tropical Storm Warning

An announcement that tropical storm conditions are expected somewhere within the specified coastal area within 36 hours.

Tropical Storm Watch

An announcement that tropical storm conditions are possible within the specified coastal area within 48 hours.



Hurricane Specialist Unit

The Hurricane Specialist Unit (HSU), one of three branches of the National Hurricane Center, comprises a Branch Chief, six Senior Hurricane Specialists, and four Hurricane Specialists. The HSU maintains a continuous watch on tropical cyclones and areas of disturbed weather within the North Atlantic and eastern North Pacific Ocean basins.

The HSU prepares and issues text and graphical tropical cyclone products and coastal tropical cyclone watches and warnings for the United States, including Puerto Rico and the U.S. Virgin Islands. The unit also provides forecast guidance to and coordinates warnings with international weather services in Mexico, the Caribbean, Central America, northern South America, Bermuda, Canada, and the eastern Atlantic.

The HSU also conducts extensive outreach and develops education programs to train U.S. emergency managers and representatives from other countries that are affected by tropical cyclones.

HURRICANE SPECIALIST UNIT

National Hurricane Center
11691 SW 17th Street • Miami, FL 33165

MISSION
To save lives, mitigate property loss, and improve economic efficiency by issuing the best watches, warnings, forecasts and analyses of hazardous tropical weather, and by increasing understanding of these hazards through global outreach.

VISION
To be America's calm, clear and trusted voice in the eye of the storm, and with our partners, enable communities to be safe from tropical weather threats.

August 2010

NHC / HURRICANE SPECIALIST UNIT PRIMARY GRAPHICAL AND TEXT PRODUCTS

issued at 5 AM, 11 AM, 5 PM, and 11 PM EDT (2 AM, 8 AM, 2 PM, 8 PM PDT) for active tropical cyclones



Tropical Cyclone Track Forecast Cone and Watch/Warning Graphic

This graphic displays the storm's forecast track, a cone representing the probable track of the center, and watches/warnings. The cone, however, does not portray the hazards associated with the storm.



Wind Speed Probability Graphics

These products show the chances of tropical-storm-force, 58-mph, and hurricane-force winds occurring at particular locations during the next 5 days. Separate graphics are available for each of these wind thresholds. These products are based on NHC's official track, intensity, and size forecasts as well as the degree of confidence in the track forecast.



Storm Surge Probability Graphics

These graphics, issued when United States hurricane watches or warnings are in effect, depict the chances that a specified storm surge will occur at particular locations during the next 72 hours. Separate graphics are available for a range of possible surge values.



Graphical/Text Tropical Weather Outlook (issued at 2 and 8 AM/PM EDT (5 and 11 AM/PM PDT) throughout hurricane season)

This product shows weather systems of significance and their chances of development into a tropical cyclone during the next 48 hours. Separate graphics, and corresponding text products, are issued for the Atlantic and eastern North Pacific basins. Raising the mouse pointer over a disturbance in the graphic displays additional information on that system.

- Tropical Cyclone Public Advisory**
This is the primary text product for conveying basic storm information, including the current status of coastal watches and warnings, storm hazards such as wind, rainfall, storm surge, tornadoes, and rip currents, and generalized forecast information for the next 48 hours. Intermediate public advisories are issued at 2- or 3-hourly intervals when watches or warnings are in effect.
- Tropical Cyclone Forecast/Advisory**
This product provides current and forecast storm information (location, intensity, and size) out to 5 days in a fixed format. This product is often used by commercial tracking software to create tropical cyclone forecast graphics.
- Tropical Cyclone Discussion**
The Tropical Cyclone Discussion describes the reasoning behind the analysis and forecast of a tropical cyclone. It may also describe the Hurricane Specialist's degree of confidence in the forecast.
- Tropical Cyclone Wind Speed Probabilities**
This is a tabular product that provides the probabilities of tropical-storm-force, 58-mph, and hurricane-force winds occurring at specific locations during the next 5 days. The product also gives the likelihood that the storm's intensity will fall within various intensity ranges.
- Special Advisory (issued as needed)**
Special advisory packages are issued whenever an unexpected significant change has occurred or when watches or warnings need to be issued between regularly scheduled advisories. A special advisory package includes the public advisory, forecast/advisory, discussion, wind speed probabilities, and the associated graphics.
- Tropical Cyclone Update (issued as needed)**
This product is issued in lieu of or preceding special advisories to inform of significant changes in a tropical cyclone, to post or cancel watches and warnings, or to provide timely information of an unusual nature.



Online Training/Education



COMMUNITY HURRICANE PREPAREDNESS

2nd Edition

BEGIN >>

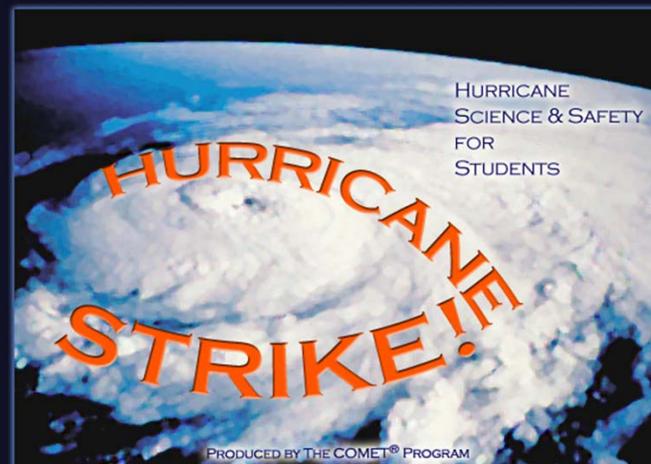
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Jocelyn Augustino / FEMA

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<http://www.meted.ucar.edu/hurrican/chp/>

<http://www.meted.ucar.edu/hurrican/strike/>



Hurricane Preparedness Week

22 – 28 May 2011



HISTORY	HURRICANE HAZARDS		FORECAST	PREPARE	ACT	
						
Sunday 22 May '11	Monday 23 May '11	Tuesday 24 May '11	Wednesday 25 May '11	Thursday 26 May '11	Friday 27 May '11	Saturday 28 May '11

7 Public Service Announcements will be available on the NHC, NOAA, NWS, and FEMA websites in mid-May in both English and Spanish

Day 1: The Hurricane Season – Bill Read, NHC

Day 2: Storm Surge – Robbie Berg, NHC

Day 3: Wind Effects Including Tornadoes – Robert Molleda, WFO Miami

Day 4: Inland Flooding – Dan Gregoria, WFO Miami

Day 5: The “Full Team Effort” – Dan Brown, NHC

Day 6: Get a Plan – Craig Fugate, FEMA

Day 7: What to Do: Before/During/After – Bill Read, NHC