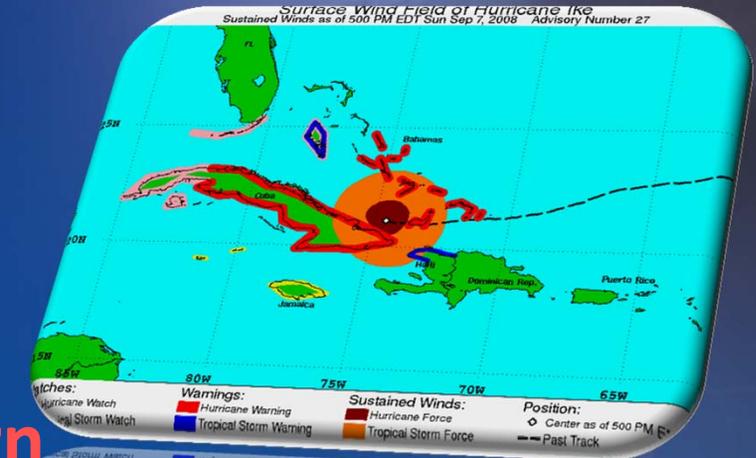
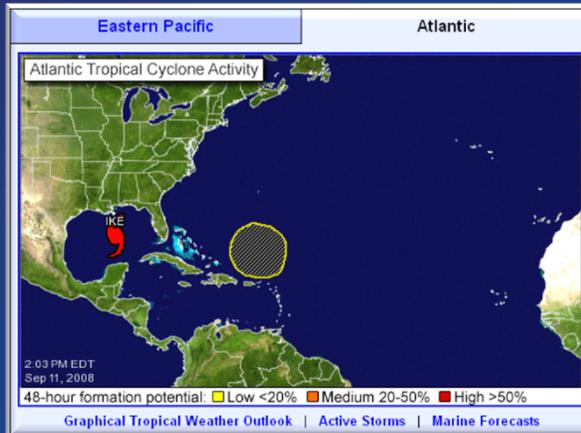
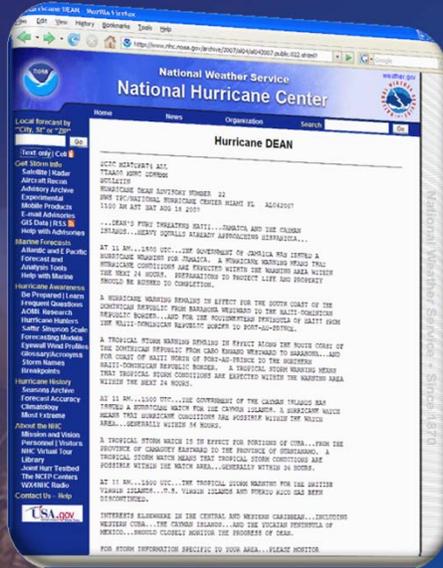




Quick Overview of National Hurricane Center Products

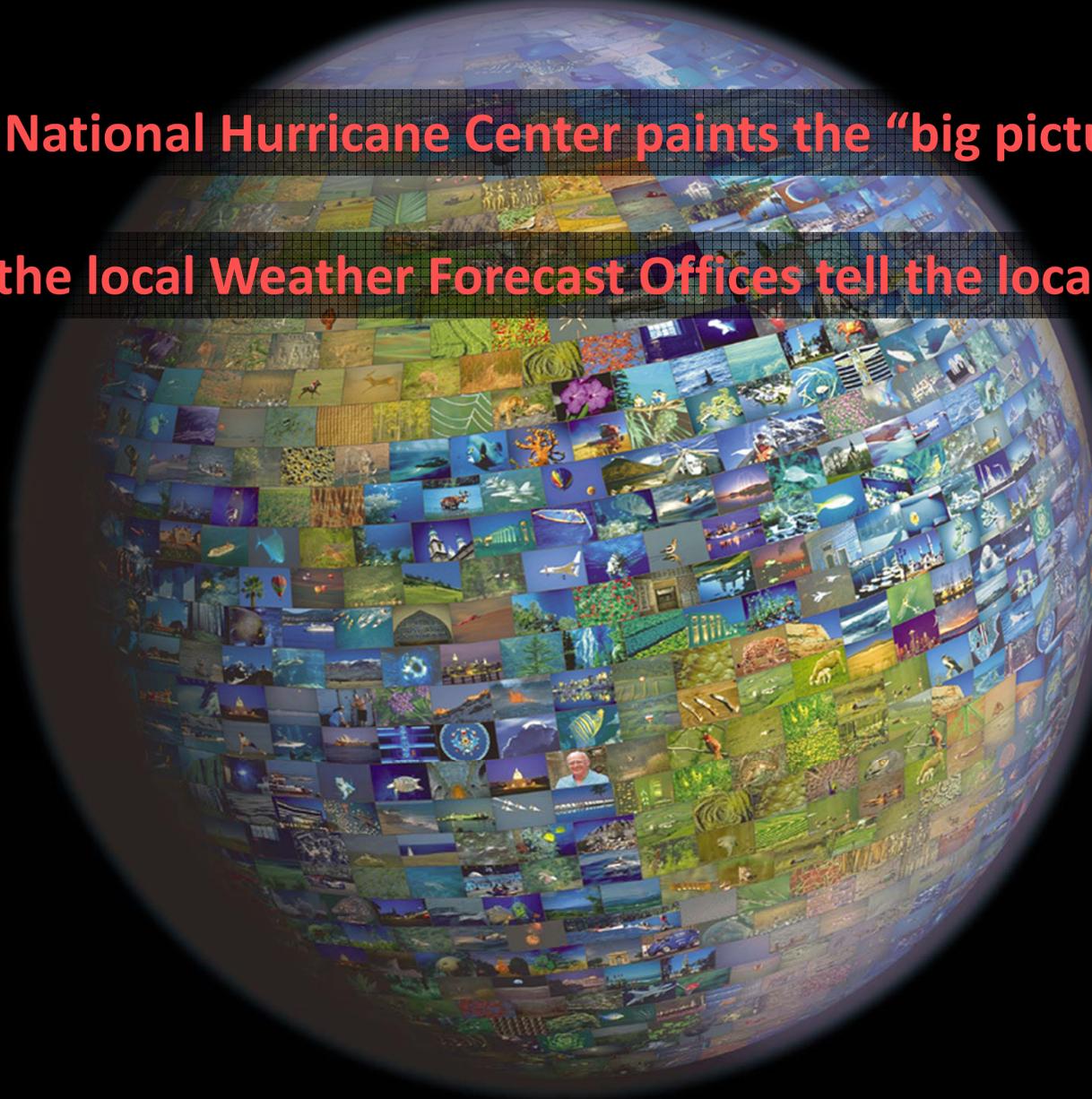


Daniel Brown
National Hurricane Center

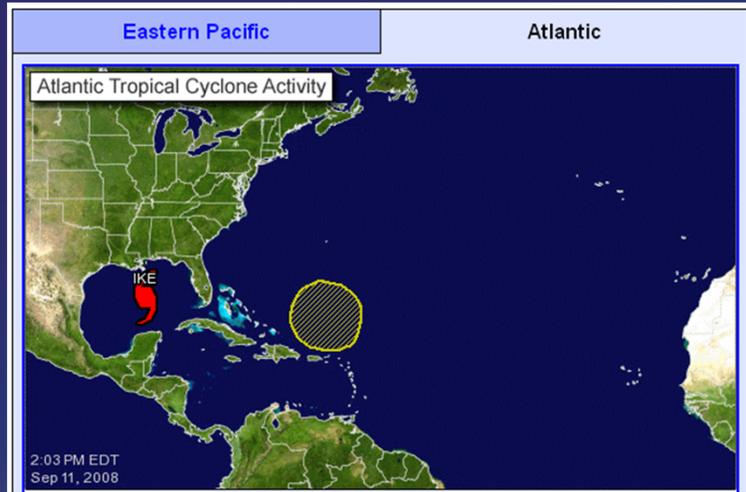
National Hurricane Conference
Atlanta, Georgia
18 April 2011

National Weather Service hurricane forecast and warning products are like a mosaic...

**The National Hurricane Center paints the “big picture”...
and the local Weather Forecast Offices tell the local story**

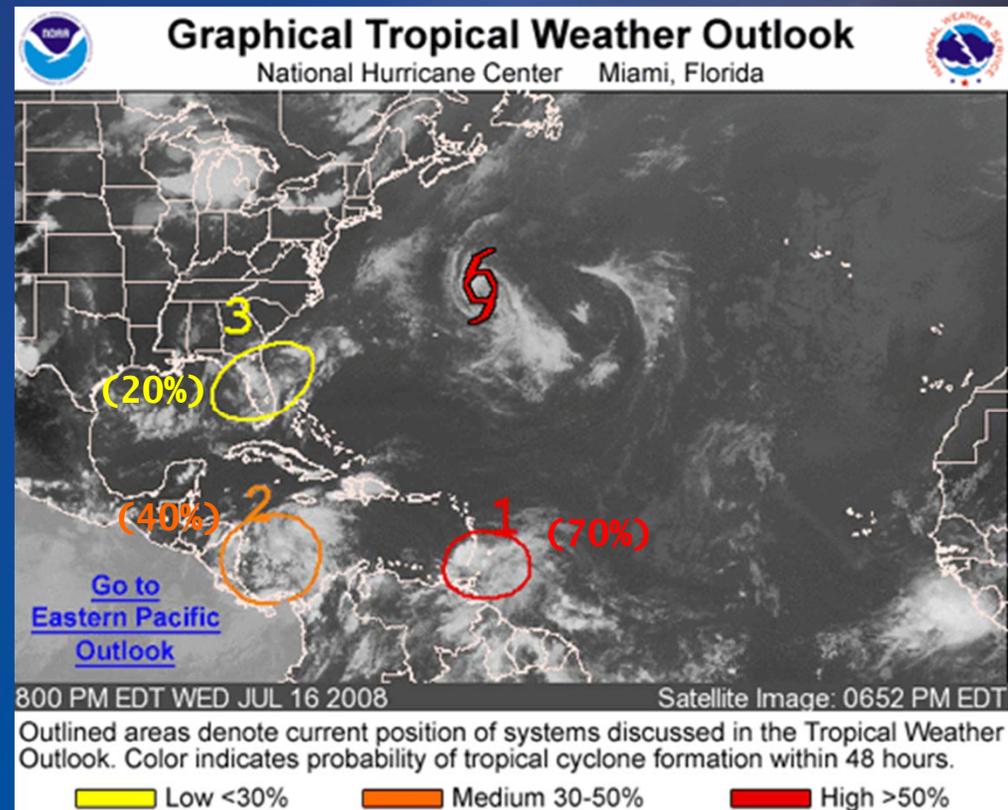


Graphical Tropical Weather Outlook



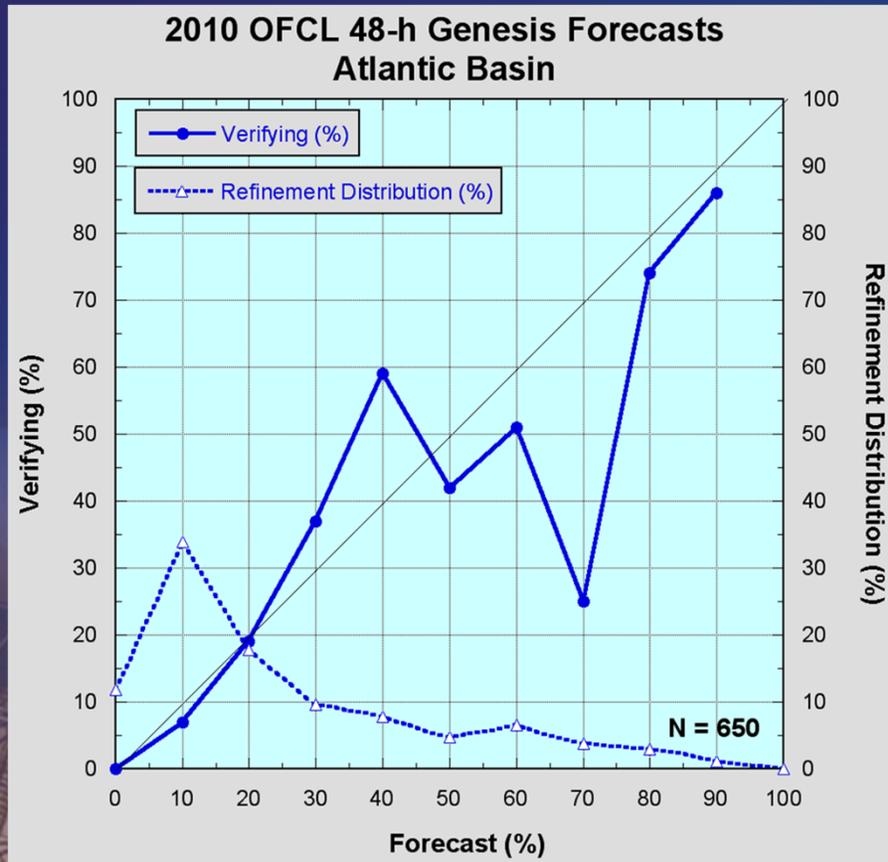
- *mimics the text TWO*
- *issued at same time as text TWO*

High	> 50%
Medium	30 – 50%
Low	< 30%



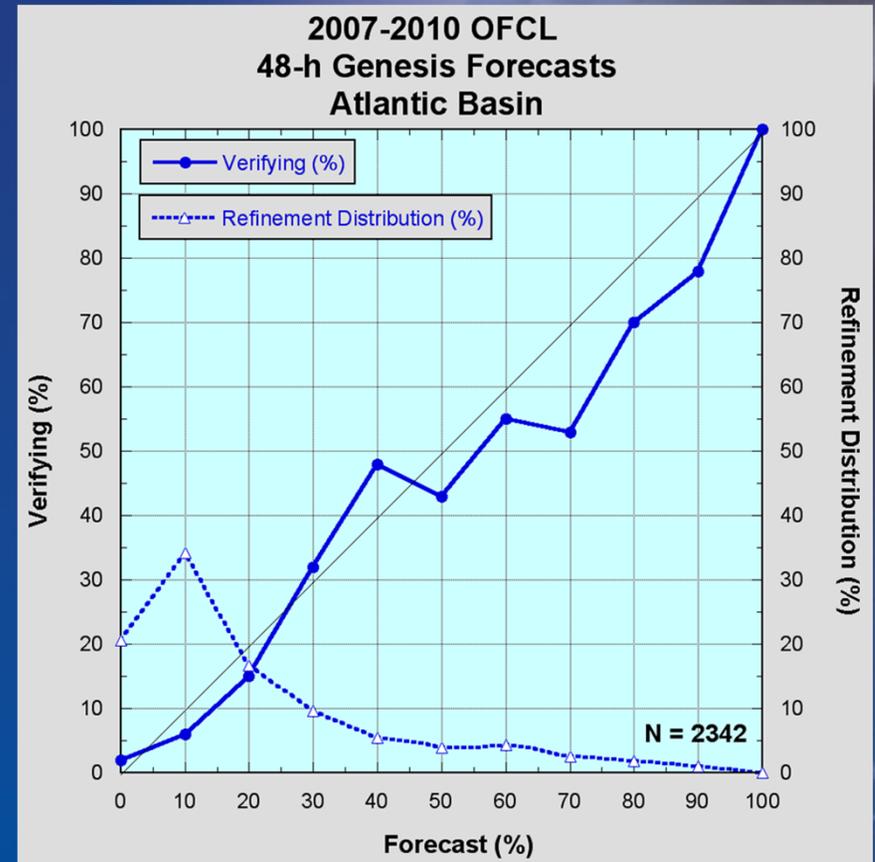
2010 Genesis Forecast Verification

2010



Forecasts extremely well calibrated at the low and high ends. Forecasts were not able to discern gradations in threat from 40-70%.

2007-10



Well calibrated, but slight over-forecast bias at 50% and above.

Public Advisory

WTNT31-35 KNHC (MIATCPAT1-5) – Atlantic

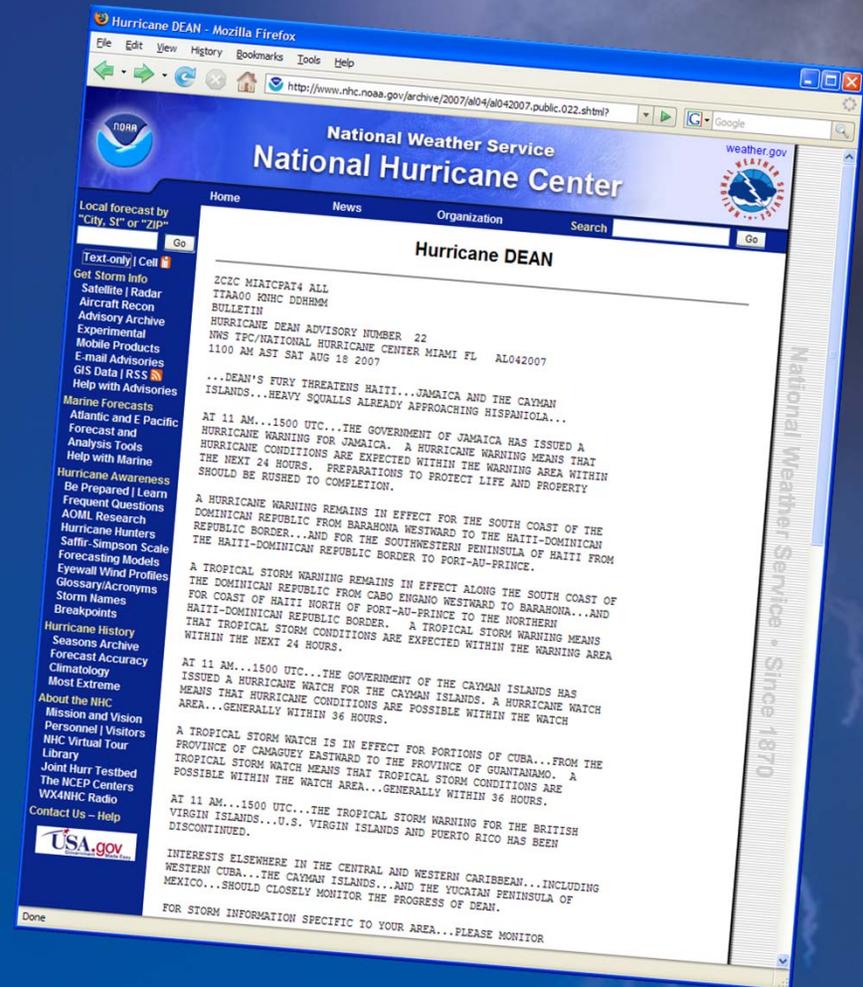
WTPZ31-35 KNHC (MIATCPEP1-5) – East Pacific

500 am 1100 am 500 pm 1100 pm EDT

200 am 800 am 200 pm 800 pm PDT

Plain-language text product originally intended for “rip and read”

- **Headline or lead statement**
- **Summary information**
- **Watches and warnings**
- **Center location, motion, forecast**
- **Wind speed and forecast**
- **Hazards: Wind / Storm surge / Rainfall / Tornadoes / Waves and Rip Currents**
- **Recommended actions**





New Public Advisory Format

ZCZC MIATCPAT4 ALL
TTAA00 KNHC DDHMM
BULLETIN
HURRICANE IKE ADVISORY NUMBER 42
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL092008
1000 PM CDT THU SEP 11 2008

...IKE CONTINUES TO GROW IN SIZE BUT HAS NOT STRENGTHENED YET...
...HURRICANE WARNING ISSUED FOR NORTHWESTERN GULF COAST...

SUMMARY OF 1000 PM CDT...0300 UTC...INFORMATION

LOCATION...25.5N 88.4W
ABOUT 580 MI...930 KM ESE OF CORPUS CHRISTI TEXAS
ABOUT 470 MI...760 KM ESE OF GALVESTON TEXAS
MAXIMUM SUSTAINED WINDS...100 MPH...160 KM/HR
PRESENT MOVEMENT...WNW OR 290 DEGREES AT 10 MPH...17 KM/HR
MINIMUM CENTRAL PRESSURE...945 MB...27.91 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY...

A HURRICANE WARNING HAS BEEN ISSUED FROM MORGAN CITY LOUISIANA TO BAFFIN BAY TEXAS.

A TROPICAL STORM WARNING HAS BEEN ISSUED FROM SOUTH OF BAFFIN BAY TO PORT MANSFIELD TEXAS.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WARNING IS IN EFFECT FOR...
* MORGAN CITY LOUISIANA TO BAFFIN BAY TEXAS

A TROPICAL STORM WARNING IS IN EFFECT FOR...
* EAST OF MORGAN CITY TO THE MISSISSIPPI-ALABAMA BORDER...INCLUDING THE CITY OF NEW ORLEANS AND LAKE PONTCHARTRAIN
* SOUTH OF BAFFIN BAY TO PORT MANSFIELD

A HURRICANE WARNING MEANS THAT HURRICANE CONDITIONS ARE EXPECTED SOMEWHERE WITHIN THE WARNING AREA. A WARNING IS TYPICALLY ISSUED 36 HOURS BEFORE THE ANTICIPATED FIRST OCCURRENCE OF TROPICAL-STORM-FORCE WINDS... CONDITIONS THAT MAKE OUTSIDE PREPARATIONS DIFFICULT OR DANGEROUS. PREPARATIONS TO PROTECT LIFE AND PROPERTY SHOULD BE RUSHED TO COMPLETION.

Section headers added

Storm information first

Changes to watches and warnings in the current advisory are highlighted

Bulleted summary of all watches and warnings in effect



New Public Advisory Format

DISCUSSION AND 48-HOUR OUTLOOK

AT 1000 PM CDT...0300Z...THE CENTER OF HURRICANE IKE WAS LOCATED NEAR LATITUDE 25.5 NORTH...LONGITUDE 88.4 WEST. IKE IS MOVING TOWARD THE WEST-NORTHWEST NEAR 10 MPH...17 KM/HR. A GENERAL WEST-NORTHWESTWARD MOTION IS EXPECTED OVER THE NEXT DAY OR SO...AND THE CENTER OF IKE SHOULD BE VERY NEAR THE COAST BY LATE FRIDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 100 MPH...160 KM/HR...WITH HIGHER GUSTS. IKE IS A CATEGORY TWO HURRICANE ON THE SAFFIR-SIMPSON SCALE. IKE IS FORECAST TO BECOME A MAJOR HURRICANE PRIOR TO REACHING THE COASTLINE.

IKE REMAINS A VERY LARGE TROPICAL CYCLONE. HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 115 MILES...185 KM...FROM THE CENTER...AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 275 MILES...445 KM.

THE LATEST MINIMUM CENTRAL PRESSURE REPORTED BY A NOAA HURRICANE HUNTER AIRCRAFT WAS 945 MB...27.91 INCHES.

HAZARDS AFFECTING LAND

STORM SURGE...STORM SURGE WILL RAISE WATER LEVELS AS MUCH AS 10 TO 15 FT ABOVE GROUND LEVEL ALONG THE COAST WITHIN THE HURRICANE WARNING AREA... WITH LARGE AND DANGEROUS BATTERING WAVES...NEAR AND TO THE EAST OF WHERE THE CENTER OF IKE MAKES LANDFALL. STORM SURGE WILL RAISE WATER LEVELS AS MUCH AS 5 TO 7 FEET ABOVE GROUND LEVEL ALONG THE COAST WITHIN THE TROPICAL STORM WARNING AREA ALONG THE NORTHERN GULF COAST. THE SURGE COULD PENETRATE AS FAR INLAND AS ABOUT 10 MILES FROM THE SHORE WITH DEPTH GRADUALLY DECREASING AS THE WATER MOVES INLAND.

WIND...BECAUSE IKE IS A VERY LARGE TROPICAL CYCLONE...WEATHER WILL DETERIORATE ALONG THE COASTLINE LONG BEFORE THE CENTER REACHES THE COAST. HURRICANE CONDITIONS ARE EXPECTED TO REACH NORTHWESTERN GULF COAST WITHIN THE WARNING AREA FRIDAY AFTERNOON. WINDS ARE EXPECTED TO FIRST REACH TROPICAL STORM STRENGTH FRIDAY MORNING...MAKING OUTSIDE PREPARATIONS DIFFICULT OR DANGEROUS. PREPARATIONS TO PROTECT LIFE AND PROPERTY SHOULD BE RUSHED TO COMPLETION.

RAINFALL...IKE IS EXPECTED TO PRODUCE RAINFALL AMOUNTS OF 5 TO 10 INCHES ALONG THE CENTRAL AND UPPER TEXAS COAST AND OVER PORTIONS OF SOUTHWESTERN LOUISIANA...WITH ISOLATED MAXIMUM AMOUNTS OF 15 INCHES POSSIBLE. RAINFALL AMOUNTS OF 1 TO 2 INCHES ARE POSSIBLE OVER PORTIONS OF THE YUCATAN PENINSULA.

Section headers

Discussion of forecast motion and intensity and other pertinent information

Storm hazards and impacts, shown by type

Forecast / Advisory

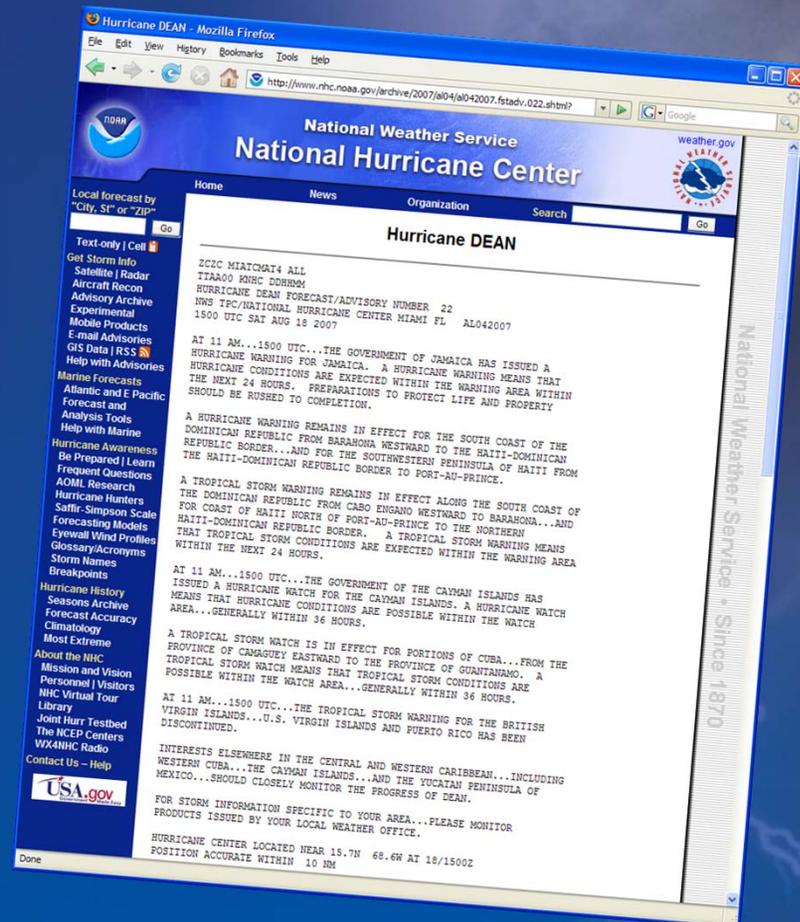
WTNT21-25 KNHC (MIATCMAT1-5) – Atlantic

WTPZ21-25 KNHC (MIATCMEP1-5) – E. Pacific

500 am 1100 am 500 pm 1100 pm EDT

200 am 800 am 200 pm 800 pm PDT

- Only source of all the forecast data
- Data is used in HURREVAC and other commercial tracking software
- Watches and warnings
- Center location, motion, minimum pressure and eye diameter
- Forecast positions, intensity and wind radii



HURRICANE IKE FORECAST/ADVISORY NUMBER 43
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL092008
2100 UTC THU SEP 11 2008

A HURRICANE WARNING IS IN EFFECT FROM MORGAN CITY LOUISIANA TO BAFFIN BAY TEXAS. HURRICANE CONDITIONS COULD REACH THE COAST WITHIN THE WARNING AREA BY LATE FRIDAY.

A TROPICAL STORM WARNING AND A HURRICANE WATCH ARE IN EFFECT FROM SOUTH OF BAFFIN BAY TO PORT MANSFIELD TEXAS.

A TROPICAL STORM WARNING IS IN EFFECT FROM EAST OF MORGAN CITY TO THE MISSISSIPPI-ALABAMA BORDER...INCLUDING THE CITY OF NEW ORLEANS AND LAKE PONTCHARTRAIN.

HURRICANE CENTER LOCATED NEAR 26.0N 89.4W AT 11/2100Z POSITION ACCURATE WITHIN 10 NM

PRESENT MOVEMENT TOWARD THE WEST-NORTHWEST OR 295 DEGREES AT 9 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 950 MB
MAX SUSTAINED WINDS 85 KT WITH GUSTS TO 105 KT.
64 KT.....100NE 100SE 30SW 60NW.
50 KT.....150NE 150SE 90SW 140NW.
34 KT.....230NE 240SE 150SW 180NW.
12 FT SEAS..330NE 300SE 240SW 400NW.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 26.0N 89.4W AT 11/2100Z
AT 11/1800Z CENTER WAS LOCATED NEAR 25.8N 88.8W

FORECAST VALID 12/0600Z 26.6N 90.9W
MAX WIND 90 KT..GUSTS 110 KT.
64 KT...100NE 100SE 30SW 60NW.
50 KT...150NE 150SE 90SW 140NW.
34 KT...230NE 240SE 150SW 180NW.

FORECAST VALID 12/1800Z 27.6N 93.0W
MAX WIND 95 KT..GUSTS 115 KT.
64 KT...100NE 100SE 30SW 60NW.
50 KT...150NE 150SE 90SW 140NW.
34 KT...230NE 240SE 150SW 180NW.

FORECAST VALID 13/0600Z 29.0N 95.0W
MAX WIND 105 KT..GUSTS 130 KT.
64 KT...100NE 100SE 30SW 50NW.
50 KT...150NE 150SE 90SW 120NW.
34 KT...200NE 240SE 150SW 150NW.

FORECAST VALID 13/1800Z 31.5N 95.5W...INLAND
MAX WIND 65 KT..GUSTS 80 KT.
50 KT... 60NE 60SE 40SW 60NW.
34 KT...150NE 200SE 110SW 100NW.

FORECAST VALID 14/1800Z 37.0N 90.5W...INLAND
MAX WIND 30 KT..GUSTS 40 KT.

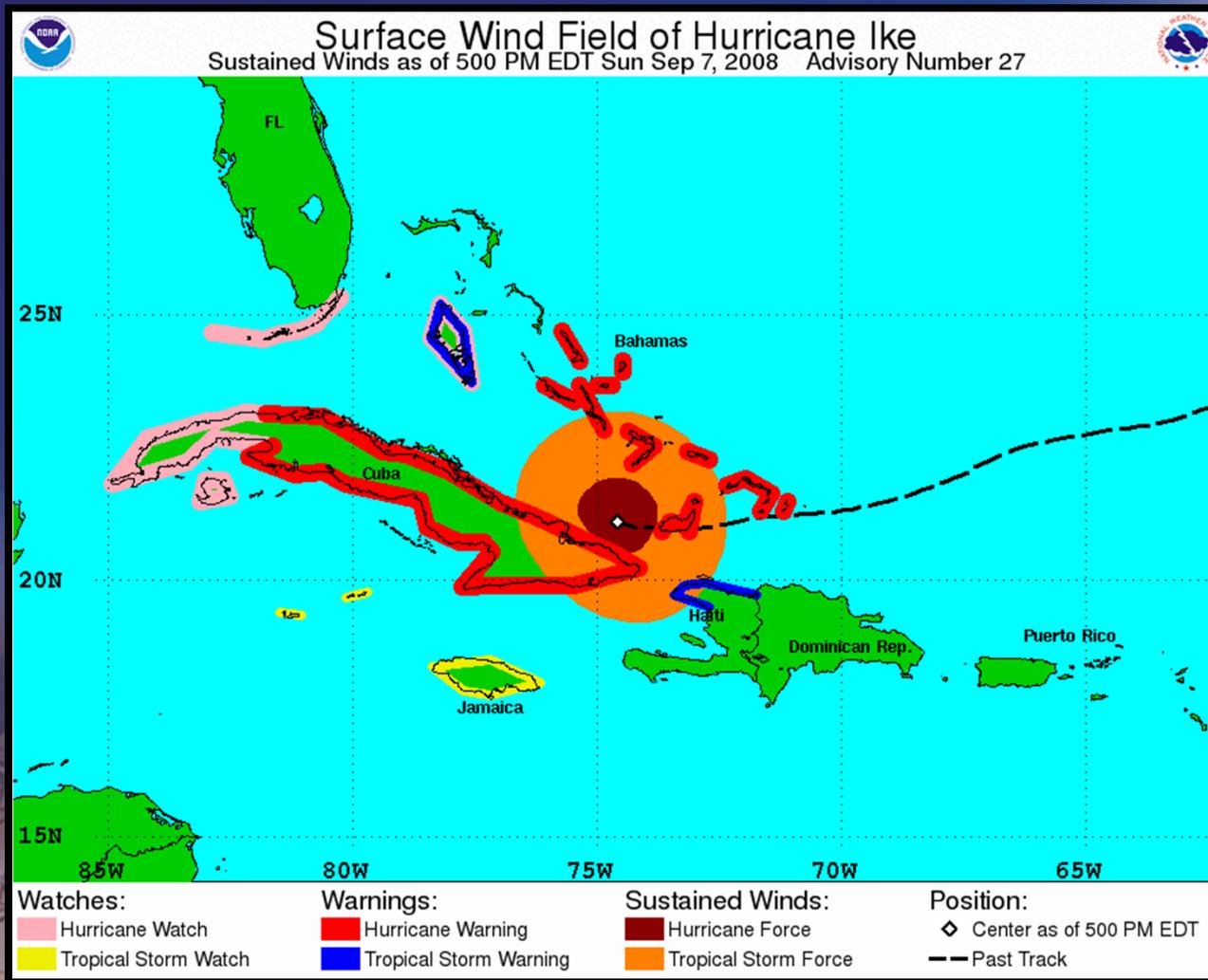
EXTENDED OUTLOOK. NOTE...ERRORS FOR TRACK HAVE AVERAGED NEAR 250 NM ON DAY 4 AND 325 NM ON DAY 5...AND FOR INTENSITY NEAR 20 KT EACH DAY

OUTLOOK VALID 15/1800Z...ABSORBED IN FRONTAL ZONE

REQUEST FOR 3 HOURLY SHIP REPORTS WITHIN 300 MILES OF 26.0N 89.4W

NEXT ADVISORY AT 12/0300Z

Surface Wind Field



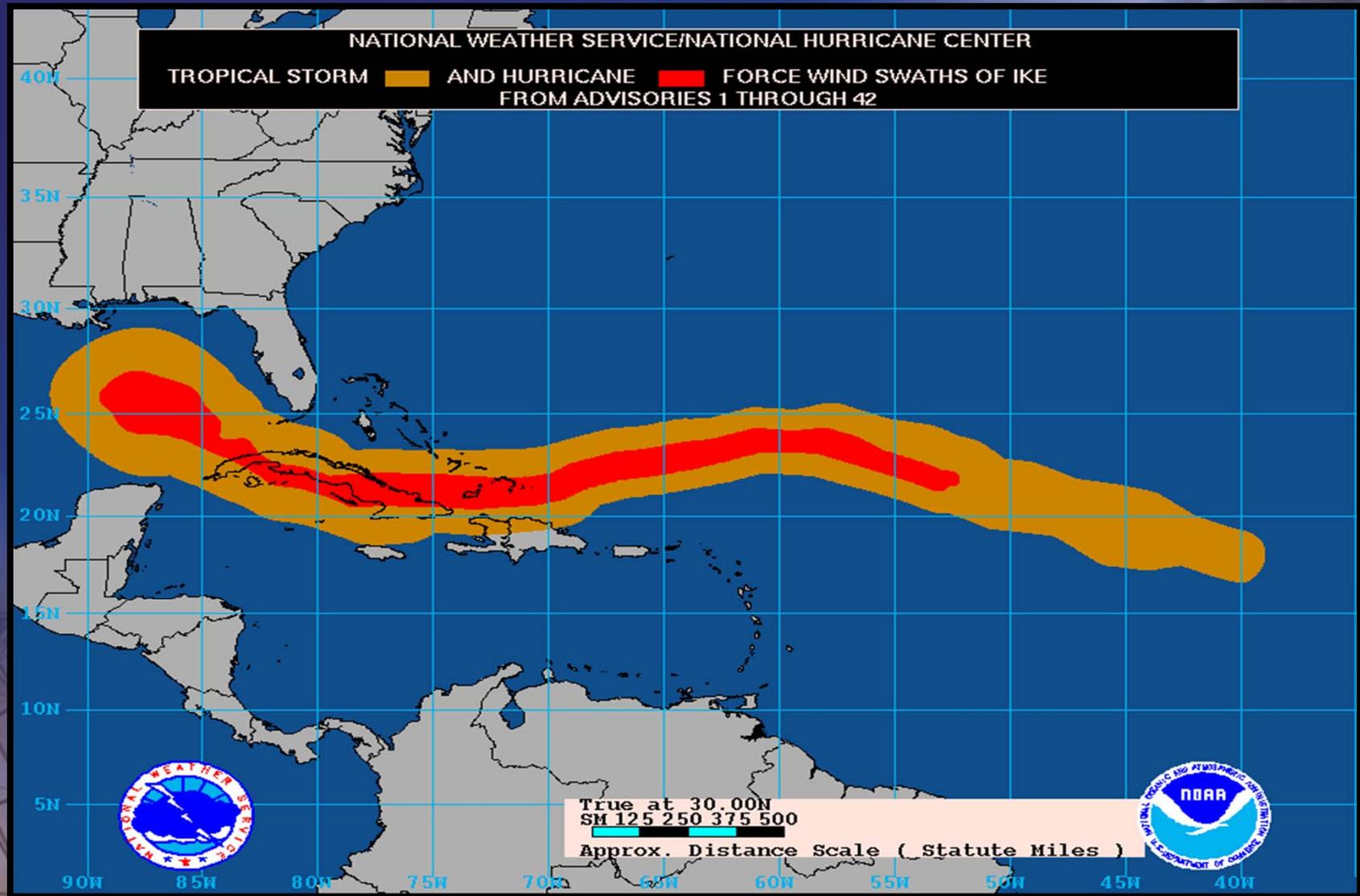
Shows:

Wind field

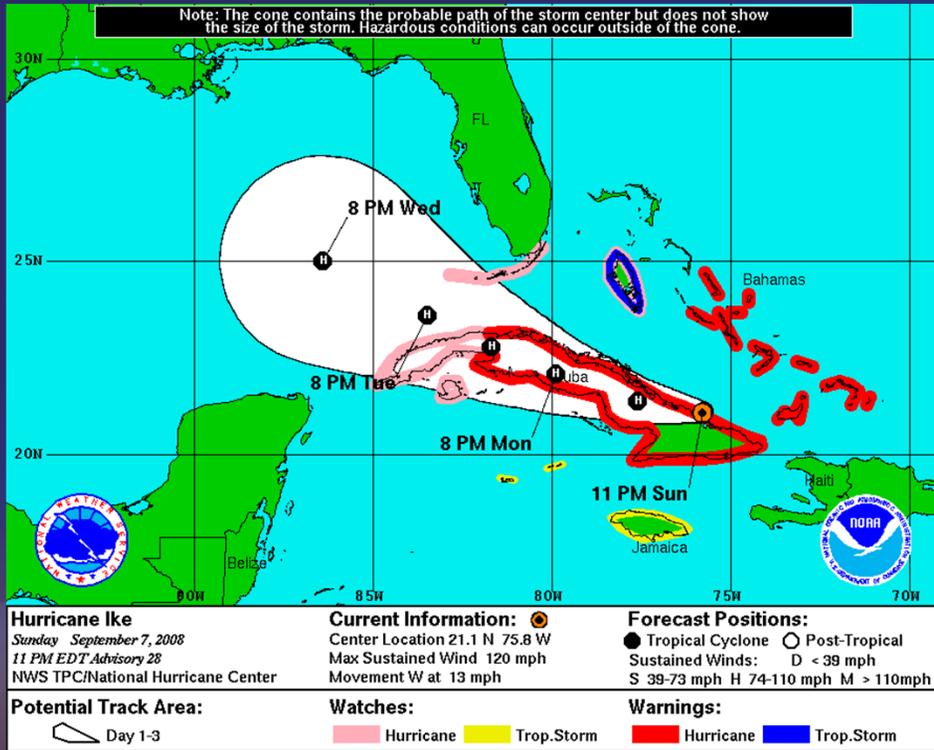
Past track

Current
watches/
warnings

Cumulative Wind History



Track Forecast Cone



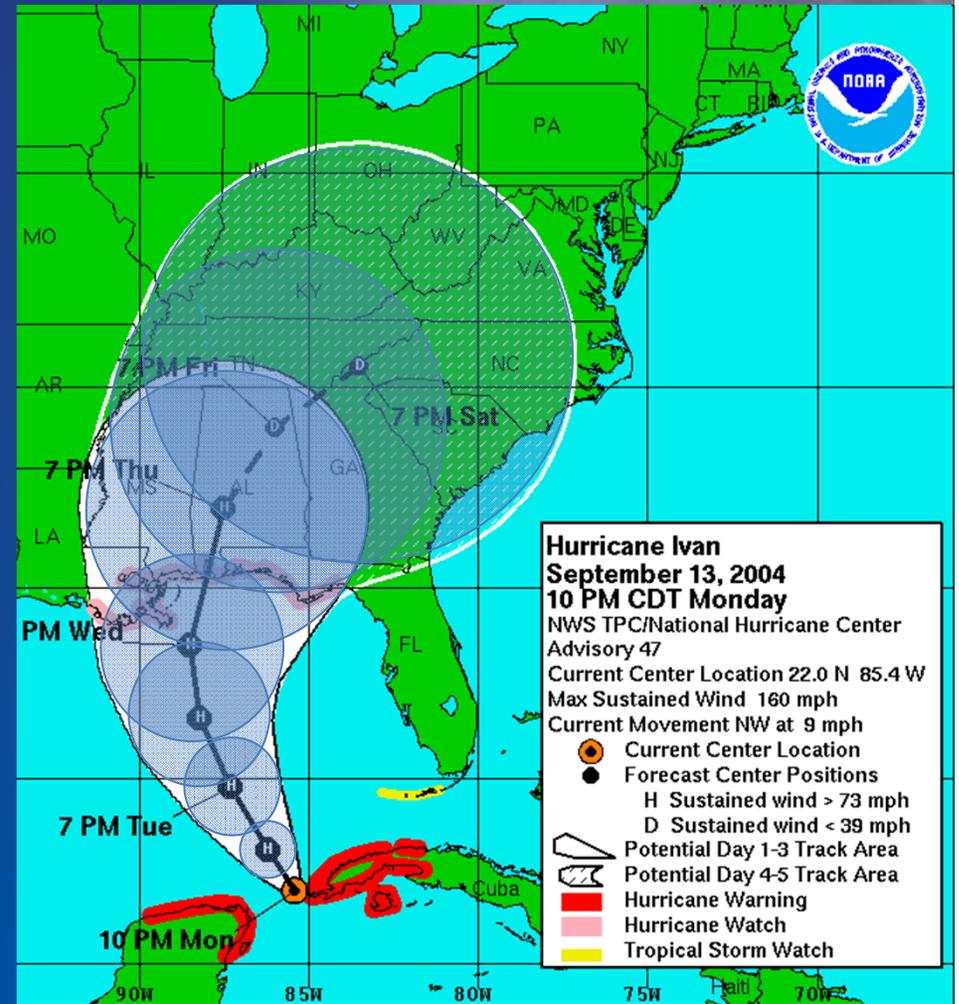
3-day cone



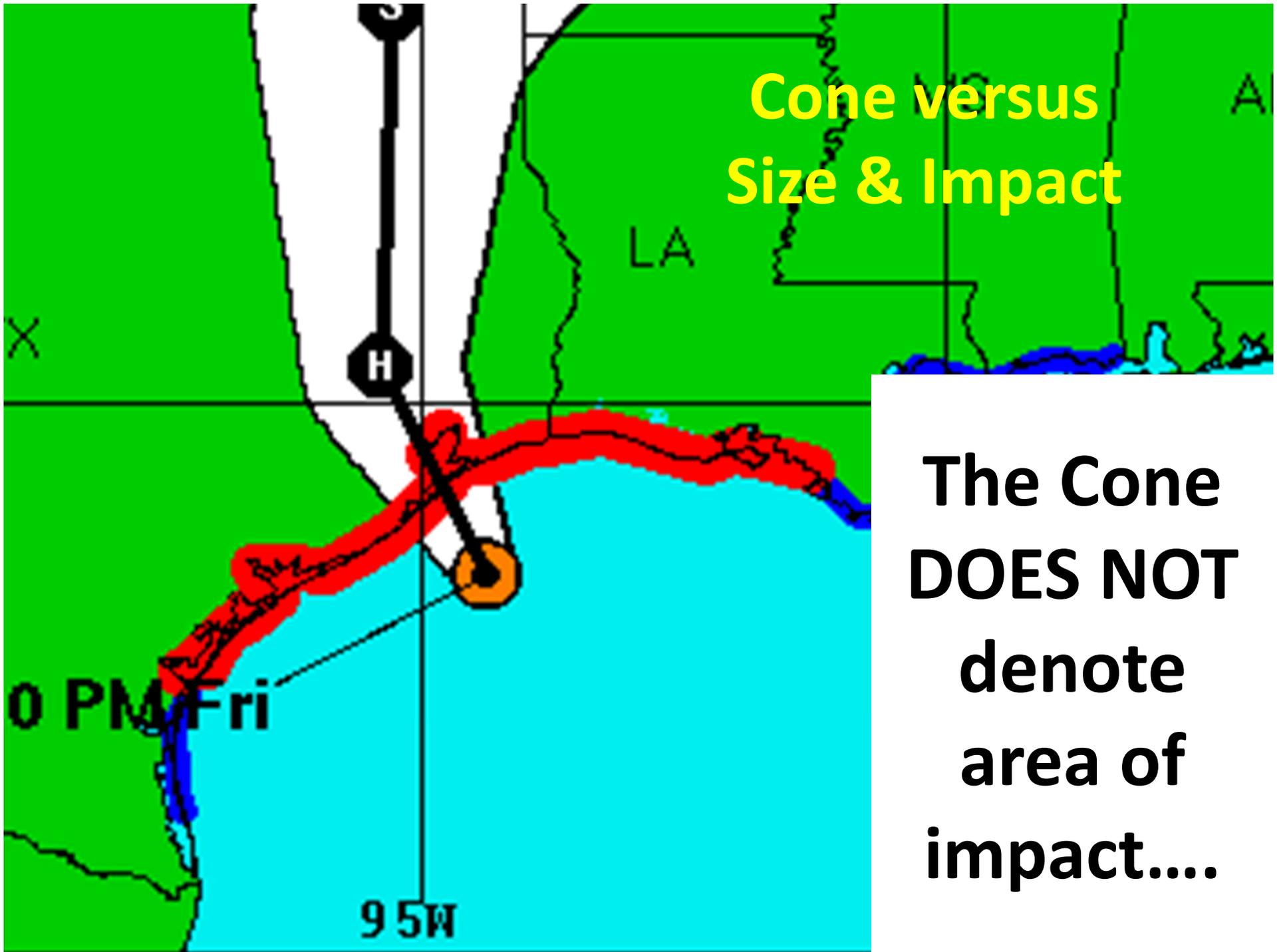


NHC Forecast Cone

- Represents the probable track of the *center* of the tropical cyclone.
- Formed by connecting circles centered on each forecast point (at 12, 24, 36 h, etc.)
- Size of the circles determined so that, say, the actual storm position at 48 h will be within the 48-h circle 67% of the time.

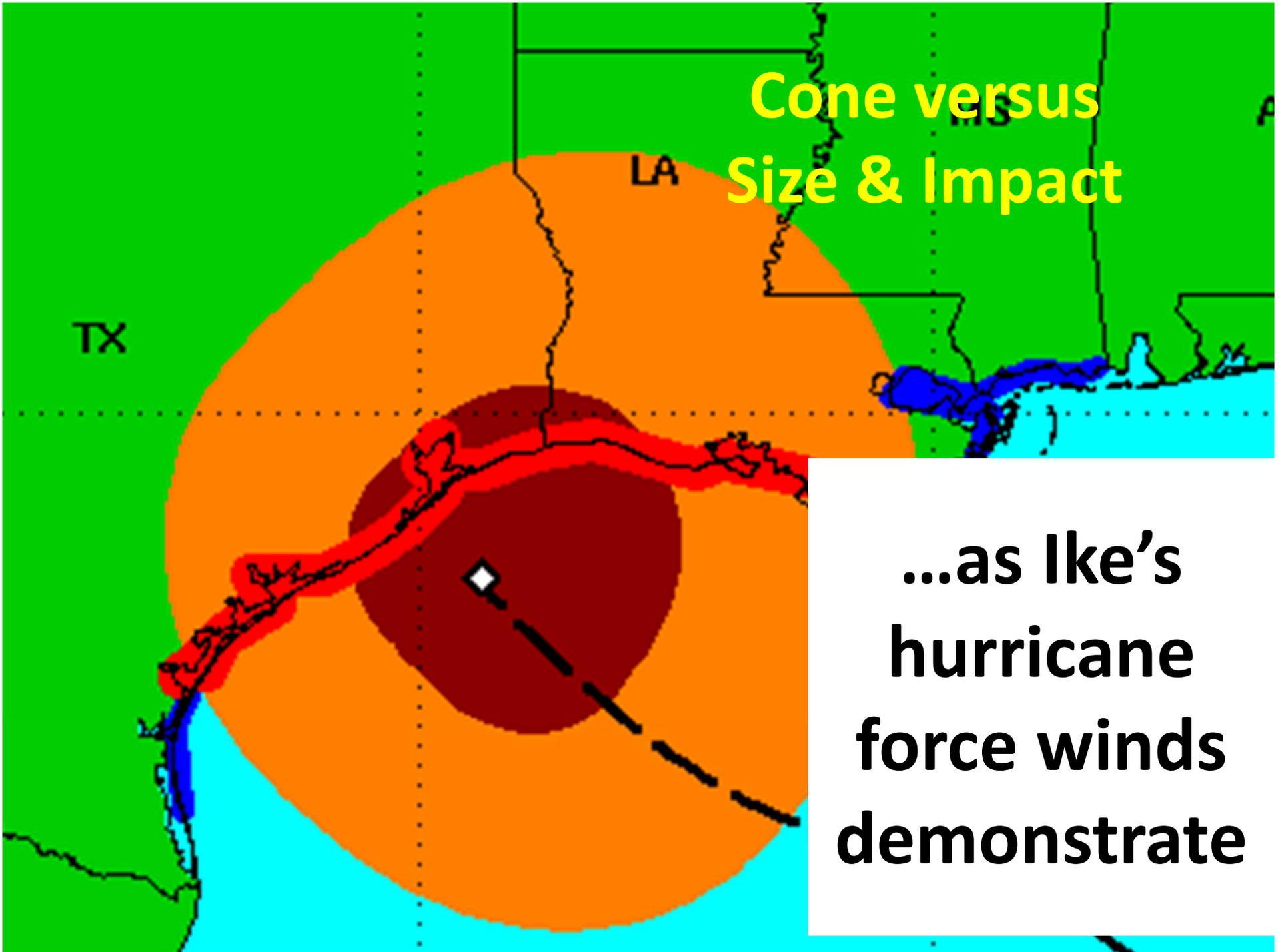


Cone versus Size & Impact



**The Cone
DOES NOT
denote
area of
impact....**

Cone versus Size & Impact



**...as Ike's
hurricane
force winds
demonstrate**

Discussion

WTNT41-45 KNHC (MIATCDAT1-5) – Atlantic
WTPZ41-45 KNHC (MIATCDEP1-5) – E. Pacific

500 am 1100 am 500 pm 1100 pm EDT
200 am 800 am 200 pm 800 pm PDT

- Free-form text product
- Provides the reasoning behind forecasts and warnings
- Discussion of relevant observations, model guidance, and the forecast uncertainties
- Includes table of track and intensity forecasts

The screenshot shows the National Hurricane Center website in a Mozilla Firefox browser. The page title is "Hurricane DEAN" and the URL is "http://www.nhc.noaa.gov/archive/2007/04/04/042007.discus.022.shtml?". The page content includes a local forecast by city, state, or ZIP, and a search bar. The main content area displays the following text:

2007 MIATCDAT4 ALL
TIAA00 KNHC DDHMM
HURRICANE DEAN DISCUSSION NUMBER 22
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL042007
1100 AM EDT SAT AUG 18 2007

AN AIR FORCE PLANE ENTERED THE EYE OF DEAN THIS MORNING AND FOUND THAT THE HURRICANE HAS NOT WEAKENED AND THE INITIAL INTENSITY REMAINS AT 130 KNOTS. IN FACT...THE MINIMUM PRESSURE DROPPED TO 924 MB AT AROUND 1200 UTC AND THEN UP TO 929 MB JUST RECENTLY. DEAN WILL LIKELY GO THROUGH EYEWALL CYCLES DURING THE NEXT FEW DAYS RESULTING IN FLUCTUATIONS IN INTENSITY. HOWEVER...THE PEAK INTENSITY IS EXPECTED TO OCCUR IN THE NORTHWESTERN CARIBBEAN BETWEEN THE CAYMAN ISLANDS AND YUCATAN WHERE THE OCEAN HEAT CONTENT IS VERY HIGH. DEAN COULD BECOME A CATEGORY FIVE AT ANY TIME BEFORE IT REACHES YUCATAN.

THE STEERING PATTERN HAS BEEN VERY STEADY. DEAN IS MOVING TOWARD THE WEST OR 290 DEGREES AT 15 KNOTS STEERED BY A HIGH OVER THE WESTERN ATLANTIC AND A LOW OVER FLORIDA. THE LOW IS FORECAST TO MOVE WESTWARD AND BE REPLACED BY A STRONG RIDGE BY ALL GLOBAL MODELS. THIS PATTERN WILL KEEP DEAN ON A GENERAL WEST-NORTHWEST TO WEST TRACK ACROSS THE CARIBBEAN SEA IN THE DIRECTION OF JAMAICA...THE CAYMAN ISLANDS AND YUCATAN. THIS IS CONSISTENT WITH TRACK MODELS WITH THE EXCEPTION OF THE GFDL WHICH INSISTS ON A TRACK FARTHER TO THE NORTH AND JUST CLIPPING THE NORTHEASTERN YUCATAN PENINSULA.

FORECAST POSITIONS AND MAX WINDS

INITIAL	18/1500Z	15.7N	68.6W	130 KT
12HR VT	19/0000Z	16.4N	71.0W	130 KT
24HR VT	19/1200Z	17.3N	74.3W	135 KT
36HR VT	20/0000Z	18.3N	77.8W	140 KT
48HR VT	20/1200Z	19.5N	81.4W	140 KT
72HR VT	21/1200Z	21.5N	88.5W	100 KT...INLAND
96HR VT	22/1200Z	23.0N	94.0W	110 KT
120HR VT	23/1200Z	25.4N	100.0W	50 KT...INLAND

FORECASTER AVILA

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Quick Navigation Links:
NHC Active Storms - Atlantic and E Pacific Marine - Storm Archives
Hurricane Archives - Maps - Reports - About NHC - Contact Us

HURRICANE IKE DISCUSSION NUMBER 42
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL092008
1100 AM EDT THU SEP 11 2008

DATA FROM AIR FORCE AND NOAA AIRCRAFT INDICATE THAT IKE IS MAINTAINING AN ATYPICAL WIND STRUCTURE...CHARACTERIZED BY A VERY BROAD WIND FIELD WITH MULTIPLE WIND MAXIMA AND RELATIVELY LITTLE TRANSPORT OF WINDS ALOFT DOWN TO THE SURFACE. THE NOAA AIRCRAFT REPORTED MAXIMUM FLIGHT-LEVEL WINDS OF 103 KT 100 NMI NORTH-NORTHEAST OF THE CENTER...BUT SFMR AND DROPSONDE DATA INDICATE THAT THE SURFACE WINDS IN THAT AREA WERE ONLY AROUND 65 KT. IN FACT...THERE HAS BEEN NOTHING AT THE SURFACE RECENTLY THAT QUITE SUPPORTS THE CURRENT 85 KT ADVISORY INTENSITY.

FORECASTING CHANGES IN THE WIND STRUCTURE OF TROPICAL CYCLONES IS EVEN MORE CHALLENGING THAN FORECASTING THE INTENSITY...BUT IKE HAS PLENTY OF TIME FOR ONE OF THE OUTER MAXIMA TO CONTRACT AND FOR THE WINDS TO TRY TO CATCH UP TO THE CENTRAL PRESSURE...CURRENTLY ABOUT 945 MB. ALTHOUGH OUTFLOW CONTINUES TO BE RESTRICTED TO THE NORTHWEST...IT IS STRONG ELSEWHERE AND THE SHEAR IS EXPECTED TO REMAIN LIGHT. ONE INHIBITING FACTOR COULD BE UPWELLING/MIXING OF COOLER WATER AHEAD OF THE PATH OF IKE DUE TO THE UNUSUALLY LARGE EXPANSE OF STRONG WINDS. THE OBJECTIVE GUIDANCE NEAR LANDFALL RANGES FROM A CATEGORY FOUR FROM THE GFDL TO CATEGORY TWO FROM THE SHIPS MODEL...ABOUT THE ERROR ONE CAN EXPECT FROM AN OFFICIAL FORECAST ONE TO TWO DAYS OUT. THE OFFICIAL FORECAST ROUGHLY SPLITS THE DIFFERENCE BETWEEN THESE GUIDANCE MODELS...AND ANTICIPATES THAT IKE WILL BE A MAJOR HURRICANE AT LANDFALL.

THE INITIAL MOTION IS 290/9. THERE HAS BEEN LITTLE CHANGE TO THE TRACK FORECAST THINKING THROUGH LANDFALL...WITH IKE EXPECTED TO MAINTAIN A WEST-NORTHWESTWARD HEADING UNTIL VERY NEAR LANDFALL...WHEN IT SHOULD GENTLY TURN TO THE RIGHT AT THE WESTERN PERIPHERY OF THE SUBTROPICAL RIDGE. THE OFFICIAL FORECAST REMAINS NEAR THE MODEL CONSENSUS...WITH THE ECMWF ON THE RIGHT AND THE GFS TO THE LEFT. ONCE AGAIN...GIVEN THE TYPICAL FORECAST ERRORS FOR A 48 HOUR FORECAST...AND THE LARGE SIZE OF THE WIND FIELD...IT IS IMPORTANT NOT TO FOCUS ON THE EXACT FORECAST TRACK.

FORECAST POSITIONS AND MAX WINDS

INITIAL	11/1500Z	25.5N	88.4W	85 KT	100 MPH	
12HR VT	12/0000Z	25.9N	90.0W	90 KT	105 MPH	
24HR VT	12/1200Z	26.6N	92.0W	95 KT	110 MPH	
36HR VT	13/0000Z	27.8N	94.2W	105 KT	120 MPH	
48HR VT	13/1200Z	29.5N	95.9W	100 KT	115 MPH	...INLAND
72HR VT	14/1200Z	34.5N	94.0W	35 KT	40 MPH	...INLAND
96HR VT	15/1200Z	38.0N	85.0W	25 KT	30 MPH	...POST-TROP/EXTRATROP
120HR VT	16/1200Z					...ABSORBED

New in 2011- intensity forecast in mph

\$\$

FORECASTER PASCH

Surface Wind Speed Probabilities

FONT11-15 KNHC (MIAPWSAT1-5) – Atlantic

500 am 1100 am 500 pm 1100 pm EDT

FOPZ11-15 KNHC (MIAPWSEP1-5) – East Pacific

200 am 800 am 200 pm 800 pm PDT

ZCZC MIAPWSAT4 ALL
TTAA00 KNHC DDHMM
HURRICANE IKE WIND SPEED PROBABILITIES NUMBER 47
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL092008 2100 UTC FRI SEP 12 2008

AT 2100Z THE CENTER OF HURRICANE IKE WAS LOCATED NEAR LATITUDE 27.7 NORTH...LONGITUDE 93.5 WEST WITH MAXIMUM SUSTAINED WINDS NEAR 90 KTS ...105 MPH...165 KM/HR.

Z INDICATES COORDINATED UNIVERSAL TIME (GREENWICH) ATLANTIC STANDARD TIME (AST)...SUBTRACT 4 HOURS FROM Z TIME EASTERN DAYLIGHT TIME (EDT)...SUBTRACT 4 HOURS FROM Z TIME CENTRAL DAYLIGHT TIME (CDT)...SUBTRACT 5 HOURS FROM Z TIME

I. MAXIMUM WIND SPEED (INTENSITY) PROBABILITY TABLE

CHANCES THAT THE MAXIMUM SUSTAINED (1-MINUTE AVERAGE) WIND SPEED OF THE TROPICAL CYCLONE WILL BE WITHIN ANY OF THE FOLLOWING CATEGORIES AT EACH OFFICIAL FORECAST TIME DURING THE NEXT 5 DAYS. PROBABILITIES ARE GIVEN IN PERCENT. X INDICATES PROBABILITIES LESS THAN 1 PERCENT.

- - - MAXIMUM WIND SPEED (INTENSITY) PROBABILITIES - - -

VALID TIME FORECAST HOUR	06Z SAT 12	18Z SAT 24	06Z SUN 36	18Z SUN 48	18Z MON 72	18Z TUE 96	18Z WED 120
DISSIPATED	X	X	30	40	NA	NA	NA
TROP DEPRESSION	X	2	56	58	NA	NA	NA
TROPICAL STORM	5	72	15	2	NA	NA	NA
HURRICANE	95	26	X	X	NA	NA	NA
HUR CAT 1	25	24	X	X	NA	NA	NA
HUR CAT 2	47	2	X	X	NA	NA	NA
HUR CAT 3	22	X	X	X	NA	NA	NA
HUR CAT 4	1	X	X	X	NA	NA	NA
HUR CAT 5	X	X	X	X	NA	NA	NA
FCST MAX WIND	95KT	65KT	30KT	30KT	NA	NA	NA

II. WIND SPEED PROBABILITY TABLE FOR SPECIFIC LOCATIONS

CHANCES OF SUSTAINED (1-MINUTE AVERAGE) WIND SPEEDS OF AT LEAST
...34 KT (39 MPH... 63 KPH)...
...50 KT (58 MPH... 93 KPH)...
...64 KT (74 MPH...119 KPH)...

FOR LOCATIONS AND TIME PERIODS DURING THE NEXT 5 DAYS

PROBABILITIES FOR LOCATIONS ARE GIVEN AS IP(CP) WHERE
IP IS THE PROBABILITY OF THE EVENT BEGINNING DURING AN INDIVIDUAL TIME PERIOD (INDIVIDUAL PROBABILITY)
(CP) IS THE PROBABILITY OF THE EVENT OCCURRING BETWEEN 18Z FRI AND THE FORECAST HOUR (CUMULATIVE PROBABILITY)

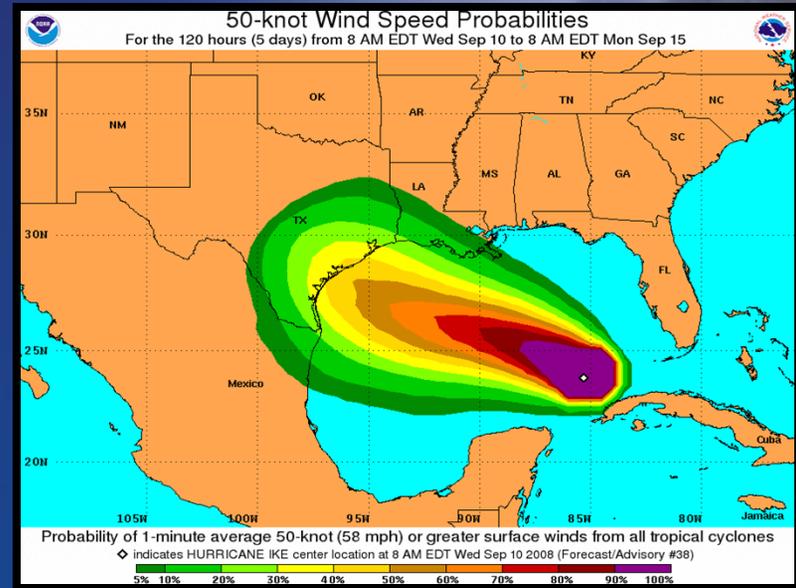
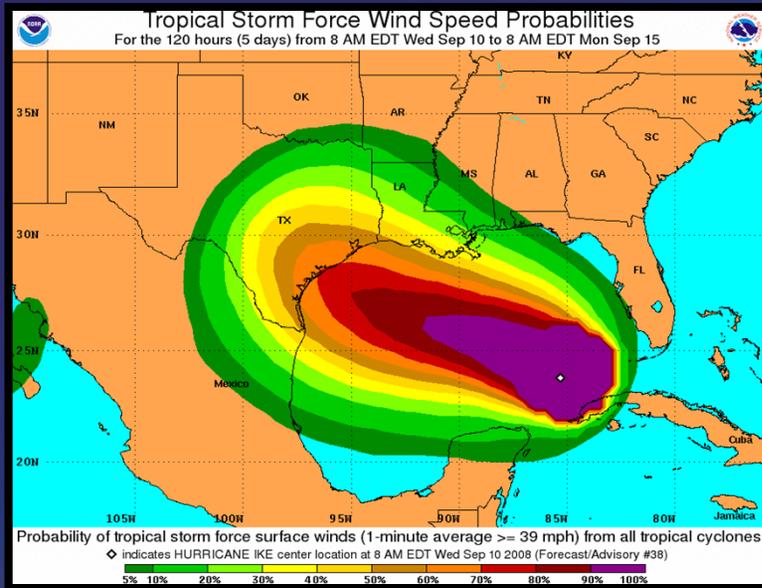
PROBABILITIES ARE GIVEN IN PERCENT
X INDICATES PROBABILITIES LESS THAN 1 PERCENT
PROBABILITIES FOR 34 KT AND 50 KT ARE SHOWN AT A GIVEN LOCATION WHEN THE 5-DAY CUMULATIVE PROBABILITY IS AT LEAST 3 PERCENT.
PROBABILITIES FOR 64 KT ARE SHOWN WHEN THE 5-DAY CUMULATIVE PROBABILITY IS AT LEAST 1 PERCENT.

- - - - WIND SPEED PROBABILITIES FOR SELECTED LOCATIONS - - - -

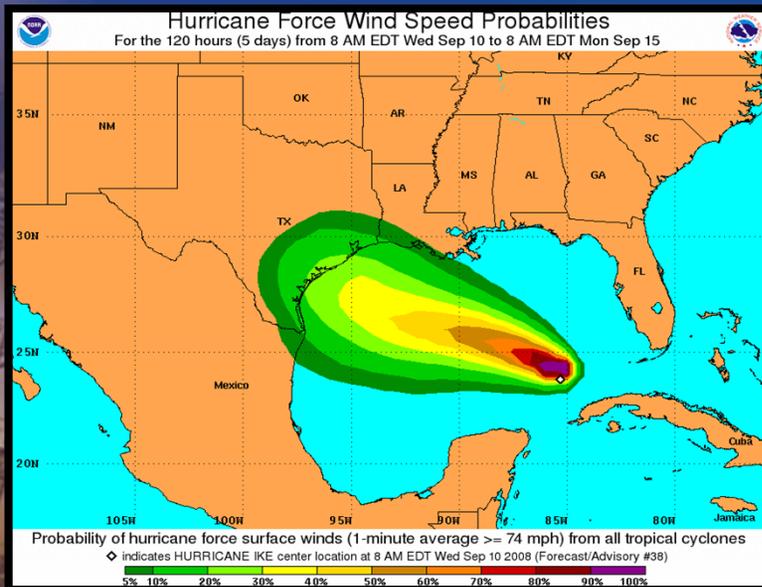
TIME PERIODS	FROM 18Z FRI TO 06Z SAT	FROM 06Z SAT TO 18Z SAT	FROM 18Z SAT TO 06Z SUN	FROM 06Z SUN TO 18Z SUN	FROM 18Z SUN TO 18Z MON	FROM 18Z MON TO 18Z TUE	FROM 18Z TUE TO 18Z WED
FORECAST HOUR	(12)	(24)	(36)	(48)	(72)	(96)	(120)
LOCATION	KT						
GULFPORT MS	34 5	1(6)	X(6)				
BURAS LA	34 10	1(11)	X(11)	X(11)	X(11)	X(11)	X(11)
GFMX 280N 890W	34 6	X(6)					
JACKSON MS	34 3	6(9)	1(10)	X(10)	X(10)	X(10)	X(10)

Stay tuned for more from Mike...

Surface Wind Speed Probabilities



Maximum 1-minute Wind Speed Probability



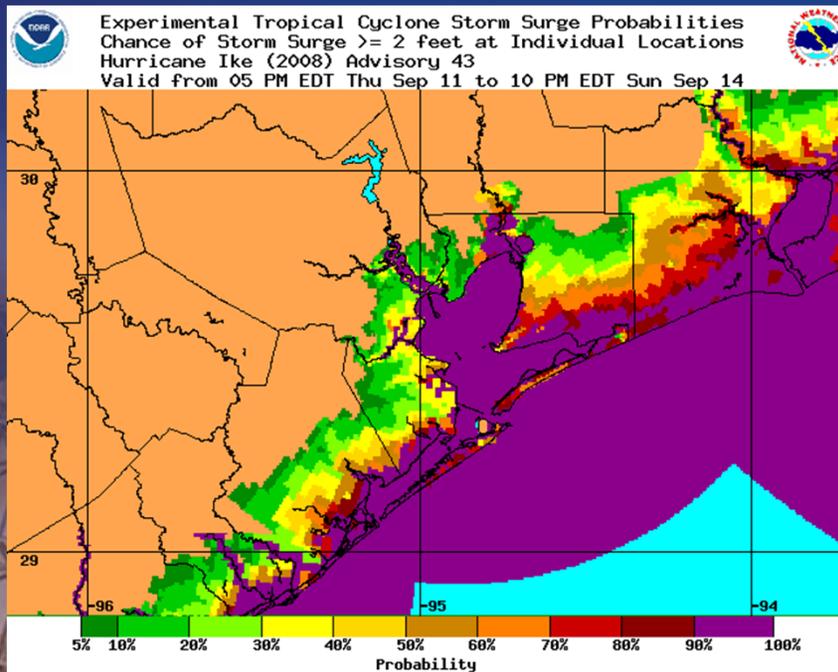
Intensity (Maximum Wind Speed) Probability Table
Hurricane Ike Advisory Number 38
10:00 AM CDT Sep 10 2008

Wind Range (mph)	Forecast Time						
	12 hour for 7 PM Wed	24 hour for 7 AM Thu	36 hour for 7 PM Thu	48 hour for 7 AM Fri	72 hour for 7 AM Sat	96 hour for 7 AM Sun	120 hour for 7 AM Mon
Dissipated	<1%	<1%	<1%	<1%	1%	55%	73%
Tropical Depression (<39)	<1%	<1%	<1%	<1%	4%	20%	16%
Tropical Storm (39-73)	1%	2%	2%	3%	26%	12%	6%
Hurricane (all categories)	99%	98%	98%	97%	69%	13%	6%
-- Category 1 (74-95)	23%	19%	11%	12%	25%	2%	<1%
-- Category 2 (96-110)	59%	43%	24%	20%	16%	2%	1%
-- Category 3 (111-130)	16%	32%	46%	38%	18%	5%	3%
-- Category 4 (131-155)	1%	4%	15%	23%	8%	3%	2%
-- Category 5 (>155)	1%	1%	2%	4%	2%	1%	<1%
Forecast Maximum Wind	105 mph	110 mph	120 mph	125 mph	120 mph	40 mph	30 mph

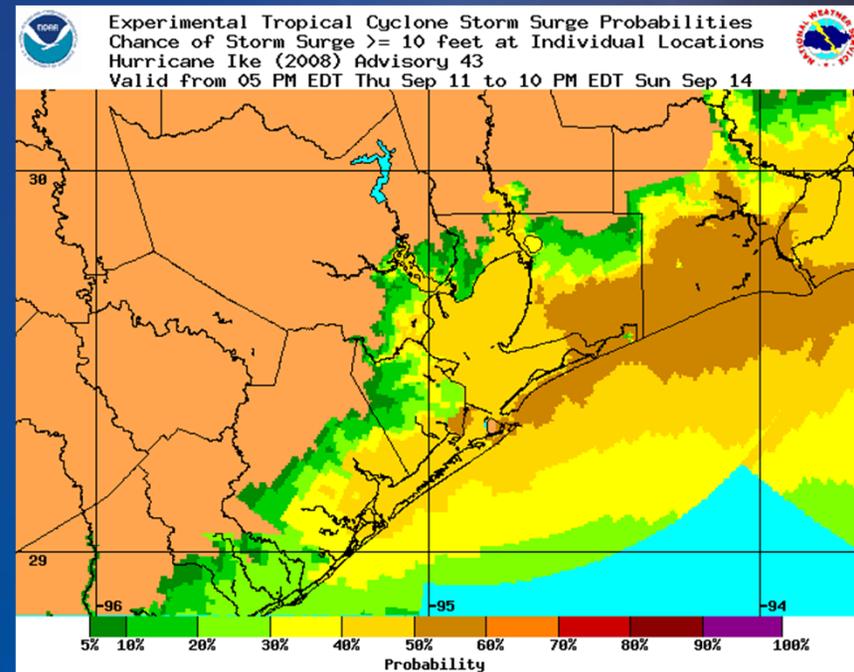
Storm Surge Probabilities

- available in 1-ft increments from 2 to 25 ft
- run when a Hurricane Watch or Warning is in effect

Chance of surge > 2 ft



Chance of surge > 10 ft



Stay tuned for more from Jamie...

Update

WTNT61-65 KNHC (MIATCUAT1-5) – Atlantic

WTPZ61-65 KNHC (MIATCUEP1-5) – East Pacific

HURRICANE IKE TROPICAL CYCLONE UPDATE
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL092008
950 PM EDT SUN SEP 07 2008

...IKE MAKES LANDFALL IN EASTERN CUBA...

THE EYE OF HURRICANE IKE MADE LANDFALL ON THE NORTH COAST OF EASTERN CUBA IN THE PROVINCE OF HOLGUIN...NEAR PUNTO DE SAMA AROUND 0945 PM EDT...0145 UTC. MAXIMUM WINDS AT LANDFALL WERE ESTIMATED TO BE 125 MPH...205 KM/HR.

Issued for:

- Landfall
- Unexpected changes
- Issuance of international watches / warnings

Position Estimate

WTNT51-55 KNHC (MIATCEAT1-5) – Atlantic

WTPZ51-55 KNHC (MIATCEEP1-5) – East Pacific

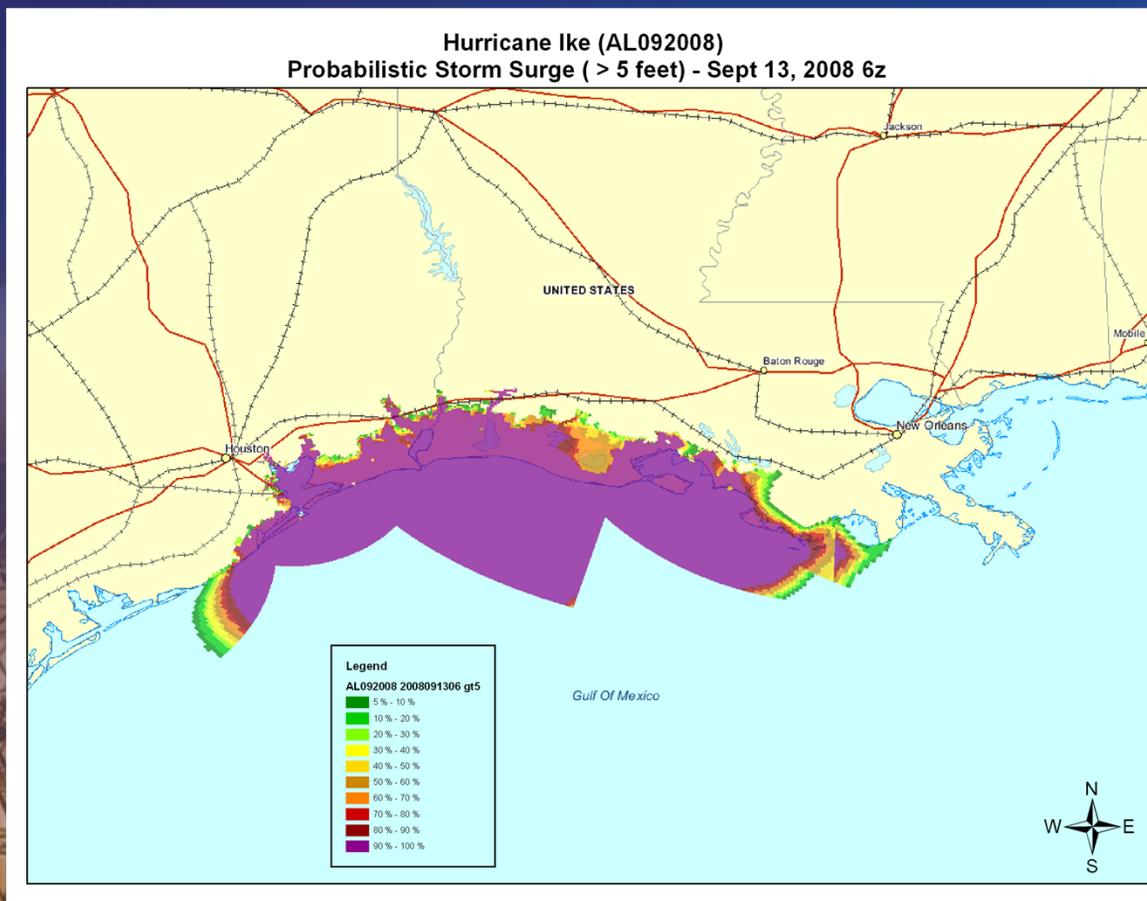
HURRICANE IKE TROPICAL CYCLONE POSITION ESTIMATE
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL092008
700 AM CDT SAT SEP 13 2008

AT 7 AM CDT...1200Z...THE CENTER OF HURRICANE IKE WAS ESTIMATED BY NOAA DOPPLER WEATHER RADARS TO BE NEAR LATITUDE 30.3 NORTH... LONGITUDE 95.3 WEST OR NEAR CONROE TEXAS. THIS IS ALSO ABOUT 70 MILES...115 KM...SOUTH-SOUTHWEST OF LUFKIN TEXAS.

Issued between 2-hourly intermediate advisories when well-defined center within 200 nm of radar range

GIS Products (Experimental)

<http://www.nhc.noaa.gov/gis/>



Forecast Cone/Track/Points/
Watches and Warnings

Surface Wind Field

Working Best Track Wind Swath

Forecast Wind Radii

Breakpoints

Wind Speed Probability

Probabilistic Storm Surge