Lead Project Scientist LPS Munito Flight ID 0809 25H1 Storm KYLE Preflight 1. Participate in general mission briefing. 2. Determine specific mission and flight requirements for assigned aircraft. 3. Determine from field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist unless briefed otherwise by field program director. Contact HRD members of crew to: Assure availability for mission. a. Review field program safety checklist Arrange ground transportation schedule when deployed. d. Determine equipment status. 5. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing. 5. Meet with AOC flight crew at least 2 hours before take-off for crew briefing. Provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami). 7. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times. 7. Make sure each HRD flight crew members have life vests 7. Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset. Collect "mess" fee (\$2.00) from all on-board HRD flight crew members. In-Flight Confirm from AOC flight director that satellite data link is operative (information). 2. Confirm camera mode of operation. Confirm data recording rate. 4. Complete Lead Project Scientist Form. Check in with the flight director to make sure the mission is going as planned (i.e. turns are made when they are supposed to be made). Post flight Debrief scientific crew. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC. Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.] Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms 5. Obtain a copy of the radar DAT tapes. Turn in with completed forms. Obtain a copy of the all VHS videos form aircraft cameras (3-4 approx.). Turn in with completed forms. 6. 7. Obtain a copy of CD with all flight data. Turn in with completed forms. 8. Determine next mission status, if any, and brief crews as necessary. Notify MGOC as to where you can be contacted and arrange for any further coordination required. Prepare written mission summary using Mission Summary form (due to Field Program Director a week after the flight).

Lead Project Scientist Check List

Storm or Project_	KYLE	Experiment name NOAAZ 0911A KYLE
Date 090925	Aircraft N42R	Flight ID 080925H1
	MAAON	2

A. Participants:

HR	D	AOC					
Function	Participant	Function	Participant				
Lead Project Scientist	P. Chang	Flight Director	A, Barry Damiano				
Radar	Alberson	Pilots	M. Nelson S. Pierce				
Workstation	8011	- Navigator	A. Girimonte J. BISHOP				
Cloud Physics	Munito	Systems Engineer	S. Wade G. Bast				
Photographer/Observer /Guests		Data Technician	J. Roles				
Dropwindsonde	Sellinged	Electronics Technic	ian Bosto				
AXBT/AXCP		Other	L. Miller 2. Jelenak				

B. Take-off and Landing Times and Locations:

Take-Off: 195459 UTC Location: Mac Dil)

Landing O45552 UTC Location: Mac Dill

Number of Eye Penetrations: ____ System was atropical storm

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum & Wind	
9/25/67	-22.1	69.3	1005mb		
9/25/182	23+1	68.4	1003mb	40 lds	
1/25 2/2	23.5	68.3	1001mb	4065	(0)7
2/24/0	24.2	108-0	994 mb	454	2011

D. Mission Briefing:

Ocen winds Mission is to sample KYLE and then sample AL94. We are doing a fig. 4 in Kyle. Then will will also send of radar analyses (TDR). TORE tail Doppler radar

J. Manus

E. —Equipment Status (Up ↑, Down ↓, Not Available —, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / Cds /Expendables/ Printouts
Radar/LF	4	4	1	
Doppler Radar/TA	1	1	111	D. DAT
Cloud Physics				
Data System	+	1	1	
GPS sondes	1	1	1	W 5 /
AXBT/AXCP	-			3
Ozone instrument				
Workstation	1	1	1	
Videography	1	1	1	

REMARKS:

LF radar is still down.

Lead Project Scientist Event Log

Date 080925 Flight 080925H1 LPS MUCILO

Time **Event** Position Comments take off from Madril 27,84° 82.53°W 195459 2 23.18°N 68.33°W VOREX MSR AFRC 100 lmb. sfm 38 kts. 1858 7 new IP 23.37 69.13 better defined low-level circulation named TS kyle SW verifical shear is expected to limit the strangton of kull circ center is abt elomated Motion 100/1 TOR turned on and recording 2154302 225/11/2 reached IP 2253257 sonde #1 lonuch flyntlul 6kts 320° 23.669°-69.158°W turned £ 90° -> hunting for center, now 70° 230148 See attached 2255162 "center drop" flight level winds ~4 kt - 996 mg 24.06" 68,02" mine 2318002 headin towards NE 00) At. 24'59" N 67.04" W 233731€ turning towards S 180 23 13- 67 04 24,64 G1,05°W PHIVI WOUS 39 LE 2344042 E Helongs while from sorde 1080/41 ptg oak experienced sewal updrafts and downdrafts through the N-S les 00/0152 turning towards NW (3190) 23,190 67.07 ofmr ~43 Hs flt bul ~ 20 H center drop #4 003335 424,4 68,2 Sfc. 1002.4mb sfc. 76°/27 kts alom leavin kule. reached last port Sorde #5 25.20 68.90 00477 headin for AU94 AL94 51 Hospar, 58 fl+ Ind 991 mbs 33.25, 78.280 002970 whoa! 8 m/s updraft in close air followed by a 4 m/s downdraft 0/18420 CAT | clear air Horbilance

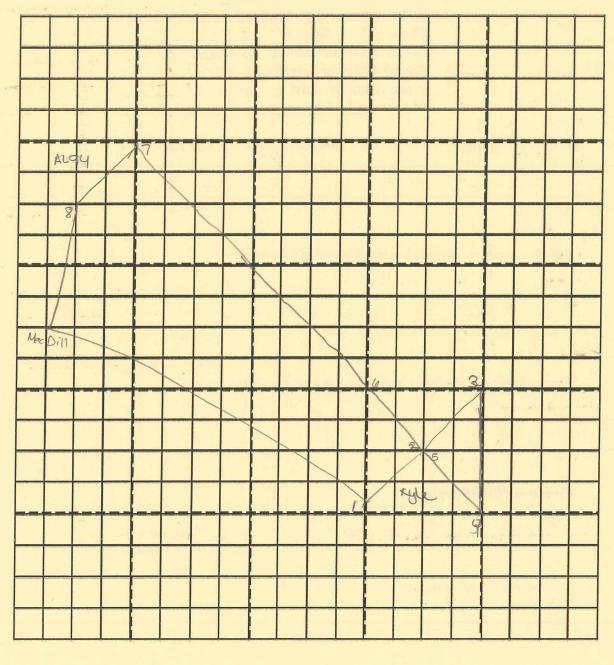
AL94 AFRC VOCKEX

Lead Project Scientist Event Log

Date 080925 Flight 08092541 LPS Myr/16

Time	Event	Position	Comments
023750	cont below 11,000	H FAA has blocked	1. H. we can't desend to
0249172	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		8,000+
024917=	Sondelaurched	near Gulf stream	98 we approach AU94
	Sfmr30H		
0257083	Sorde launched	in Guif stream	
	3291 76,76	45.3fteft IW, gos	dsorde
	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
030634	Sorde launched	at NE most point in A	194
	33.61° 71.19W	Alight Level Winds 51.2	H winddir 161°
0308272	turning MSM. (5HQ)		
033957	sorde laurned at	&W end point of le	is ALGU of
045552	landed at MacDIII		
			1. The second se

Date 080925 Flight 080925 H1 Observer Munits



Latitude (°)

Longitude (°)

Mission Summary Storm name YYMMDDA# Aircraft 42RF

	Scientific Crew (4 ¹ RF)
	Lead Project Scientist Murilo
	Radar Scientist Abecson
	Cloud Physics Scientist
	Dropwindsonde Scientist K. Sellwood
	Boundary-Layer Scientist
	Workstation Scientist K. Sellwood
	Observers
Mission Briefing: (in	clude sketch of proposed flight track or page #)

Mission Synopsis: (include plot of actual flight track)

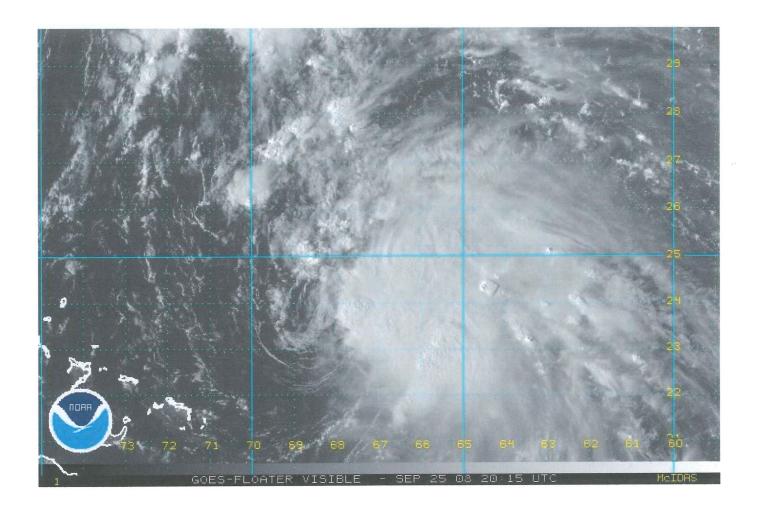
Evaluation: (did the experiment meet the proposed objectives?)

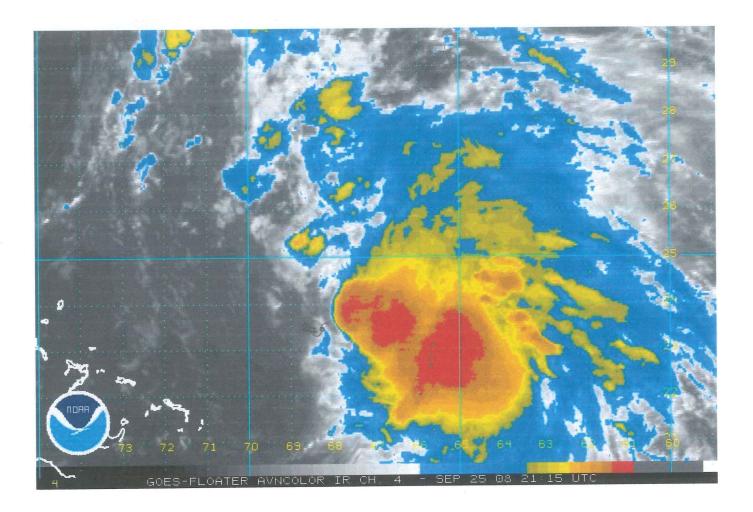
Problems: (list all problems) operator error w/ radar dat file which caused us to restart Forder capture therefore we couldn't run 2nd codor analysis b/c we started radar capture after 02 it named files or 0926 HM
Expendables used in mission: GPS sondes: AXBTs: Sonobuoys:

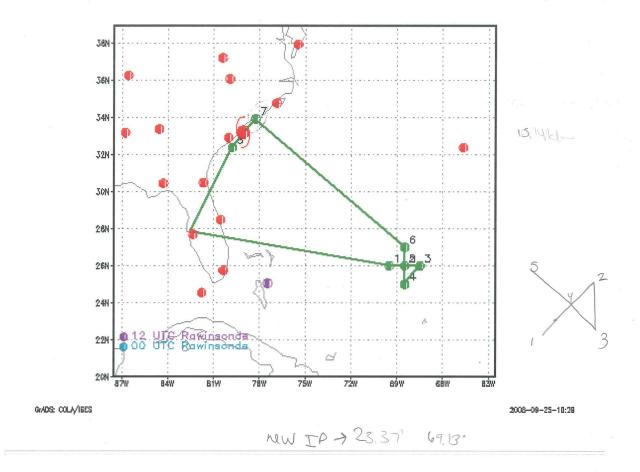
TS Kyle



Copyright © 1988-2004 Microsoft Corp. and/or its suppliers. All rights reserved. http://www.microsoft.com/streets/
© Copyright 2003 by Geographic Data Technology, Inc. All rights reserved. © 2004 NAVTEQ. All rights reserved. This data includes information taken with permission from Canadian authorities © Her Majesty the Queen in Right of Canada.







MISSION PLAN:

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N43RF Altitude: FL180-250 Proposed takeoff: 10/0350Z

TRACK DISTANCE TABLE

# LAT LON RAD/AZM LEG TOTAL TIME (d m) (d/m) (nm/dg) (nm) (nm) (h:mm) 0 MACDILL 0.0.0.00 1 26 00 69 30 706.706.2:43 2 26 00 68 30 54.760.2:58 3 26 00 67 30 54.814.3:13 4 25 00 68 30 81.895.3:35 5 26 00 68 30 81.895.3:55 6 27 00 68 30 60.955.3:52 6 27 00 68 30 60.1015.4:08 7S 33 55 78 16 60/045 654.1669.6:58 8S 32 23 79 47 60/215 120.1789.7:30 9 MACDILL 307.2096.8:34				 		
1 26 00 69 30 706. 706. 2:43 2 26 00 68 30 54. 760. 2:58 3 26 00 67 30 54. 814. 3:13 4 25 00 68 30 81. 895. 3:35 5 26 00 68 30 60. 955. 3:52 6 27 00 68 30 60. 1015. 4:08 7S 33 55 78 16 60/045 654. 1669. 6:58 8S 32 23 79 47 60/215 120. 1789. 7:30	#					
	1 2 3 4 5 6 7 8 8	26 00 26 00 26 00 25 00 26 00 27 00 33 55 32 23	68 30 67 30 68 30 68 30 68 30 78 16	706. 54. 54. 81. 60. 60. 654.	760. 814. 895. 955. 1015. 1669.	2:43 2:58 3:13 3:35 3:52 4:08 6:58 7:30

Content-Type: message/rfc822 proposed flight track.eml Content-Encoding: 7bit

National Weather Service

National Hurricane Center



Home

News

Organization

Search

Go

Local forecast by "City, St" or "ZIP"

Tropical Storm KYLE Forecast Discussion Alternate versions Home Public Adv Fcst/Adv Discussion Wind Probs Maps/Charts Archive

Text-only | PDA | Cell

Get Storm Info

Satellite | Radar Aircraft Recon **Advisory Archive** Experimental **Mobile Products** E-mail Advisories Audio/Podcasts GIS Data | RSS 🔝 Help with Advisories

Marine Forecasts

Atlantic and E Pacific Forecast and **Analysis Tools** Help with Marine

Hurricane Awareness

Be Prepared | Learn **Frequent Questions AOML Research Hurricane Hunters** Saffir-Simpson Scale Forecasting Models **Eyewall Wind Profiles** Glossary/Acronyms Storm Names **Breakpoints**

Hurricane History

Seasons Archive Forecast Accuracy Climatology **Most Extreme**

About the NHC

Mission and Vision Personnel | Visitors **NHC Virtual Tour** Library **Joint Hurr Testbed** The NCEP Centers

Contact Us - Help



000 WTNT41 KNHC 260257 TCDAT1 TROPICAL STORM KYLE DISCUSSION NUMBER NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL112008 1100 PM EDT THU SEP 25 2008

A NOAA HURRICANE HUNTER AIRCRAFT WHICH WAS INVESTIGATING KYLE EARLIER THIS EVENING MEASURED AN EXTRAPOLATED SURFACE PRESSURE OF 994 MB AND MAXIMUM FLIGHT LEVEL WINDS OF 56 KT. THERE WERE ALSO A FEW SFMR RETRIEVALS NEAR 55 KT...BUT THE FLIGHT METEOROLOGIST ON BOARD ESTIMATED THAT THESE MEASUREMENTS WERE LIKELY ABOUT 10 KT TOO HIGH. IN ADDITION...A DVORAK CLASSIFICATION USING THE SHEAR PATTERN WOULD YIELD A DATA-T NUMBER OF 3.0. ALL OF THIS INFORMATION UNANIMOUSLY SUPPORTS AN INITIAL INTENSITY OF 45 KT.

THE LATEST AIRCRAFT FIX INDICATES THAT KYLE HAS ACCELERATED AND IS NOW MOVING AT 010/11. THIS MOTION IS EXPECTED TO CONTINUE OVER THE NEXT FEW DAYS AS THE CYCLONE IS ADVECTED NORTHWARD BETWEEN A MID-LEVEL HIGH JUST EAST OF BERMUDA AND THE LARGE CUT-OFF LOW NEAR THE EAST COAST OF THE UNITED STATES. MODEL AGREEMENT IS EXCEPTIONAL THROUGH THE FORECAST PERIOD AND VERY LITTLE ADJUSTMENT WAS REQUIRED FROM THE PREVIOUS FORECAST.

KYLE IS CURRENTLY UNDER THE INFLUENCE OF 20 KT OF WESTERLY SHEAR AS DIAGNOSED BY THE SHIPS MODEL. THIS SHEAR IS EXPECTED TO CONTINUE FOR ANOTHER 12 HOURS OR SO...DURING WHICH ONLY MODEST STRENGTHENING IS EXPECTED. VERTICAL SHEAR WILL DIMINISH AFTER THAT AND KYLE WILL HAVE AN OPPORTUNITY TO STRENGTHEN TO A HURRICANE IN 36-48 HOURS AS IT MOVES OVER WARM WATERS AT A FAIRLY SPEEDY CLIP. THE FORECAST INTENSITY IS CLOSE TO THAT SHOWN BY THE LGEM...HWRF...FSU SUPERENSEMBLE...AND CONTINUITY. HOWEVER...THE GFDL AND SHIPS MODELS MAKE KYLE A LITTLE BIT STRONGER. KYLE WILL THEN CROSS NORTH OF THE GULF STREAM AFTER 48 HOURS AND SOME WEAKENING IS EXPECTED. MODEL GUIDANCE SUGGESTS THAT EXTRATROPICAL TRANSITION COULD BEGIN ONCE KYLE MOVES ACROSS THE CANADIAN MARITIMES IN 72 HOURS WITH THE PROCESS COMPLETED BY 96 HOURS. BY DAY 5...THE EXTRATROPICAL LOW IS EXPECTED TO BECOME ABSORBED INTO A FRONTAL ZONE.

INTERESTS IN BERMUDA SHOULD MONITOR KYLE IN CASE THERE IS A SIGNIFICANT DEVIATION TO THE RIGHT OF THE EXPECTED TRACK. IN ADDITION...PORTIONS OF EASTERN NEW ENGLAND AND THE CANADIAN MARITIMES SHOULD ALSO MONITOR THE PROGRESS OF KYLE.

FORECAST POSITIONS AND MAX WINDS

INITIAL	26/0300Z 24.8N	68.0W	45 KT
12HR VT	26/1200Z 26.5N	68.1W	50 KT
24HR VT	27/0000Z 29.2N	68.7W	60 KT
36HR VT	27/1200Z 32.4N	68.9W	65 KT
48HR VT	28/0000Z 36.3N	68.3W	70 KT
72HR VT	29/0000Z 44.5N	65.5W	60 KTINLANDNOVA SCOTIA
96HR VT	30/0000Z 50.0N	60.0W	50 KTEXTRATROPICAL
120HR VT	01/0000ZABSOF	RBED BY A	FRONTAL ZONE

FORECASTER BERG

Quick Navigation Links:

NHC Active Storms - Atlantic and E Pacific Marine - Storm Archives Hurricane Awareness - How to Prepare - About NHC - Contact Us

NOAA/ National Weather Service
National Centers for Environmental Prediction
National Hurricane Center
Tropical Prediction Center
11691 SW 17th Street
Miami, Florida 33165-2149 USA
nhcwebmaster@noaa.gov
Page last modified: Friday, 26-Sep-2008 02:57:57 GMT

Disclaimer Credits Information Quality Glossary Privacy Policy Freedom of Information Act (FOIA) About Us Career Opportunities

ЛОНА

National Weather Service

National Hurricane Center



Home

News

Organization

Search

Go

Local forecast by "City, St" or "ZIP"

Tropical Storm KYLE Forecast Discussion

Home Public Adv Fcst/Adv Discussion Wind Probs Maps/Charts Archive

Alternate versions Text-only | PDA | Cell

Get Storm Info
Satellite | Radar
Aircraft Recon
Advisory Archive
Experimental
Mobile Products
E-mail Advisories

Audio/Podcasts GIS Data | RSS M Help with Advisories

Marine Forecasts

Atlantic and E Pacific Forecast and Analysis Tools Help with Marine

Hurricane Awareness Be Prepared | Learn

Frequent Questions
AOML Research
Hurricane Hunters
Saffir-Simpson Scale
Forecasting Models
Eyewall Wind Profiles
Glossary/Acronyms
Storm Names
Breakpoints

Hurricane History

Seasons Archive Forecast Accuracy Climatology Most Extreme

About the NHC

Mission and Vision Personnel | Visitors NHC Virtual Tour Library Joint Hurr Testbed The NCEP Centers

Contact Us - Help



000
WTNT41 KNHC 262100
TCDAT1
TROPICAL STORM KYLE DISCUSSION NUMBER 5
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL112008
500 PM EDT FRI SEP 26 2008

REPORTS FROM AIR FORCE AND NOAA RESERVE HURRICANE HUNTER AIRCRAFT INDICATE THAT KYLE IS SOMEWHAT DISORGANIZED THIS AFTERNOON...WITH THE FLIGHT-LEVEL CENTERS AT 850 MB AND 700 MB DISPLACED TO THE NORTH OR NORTHEAST OF THE SURFACE CENTER BY 15-20 KT OF WESTERLY VERTICAL WIND SHEAR. THE CENTRAL PRESSURE HAS RISEN TO 1003 MB...AND THE CONVECTIVE PATTERN HAS BECOME ELONGATED NORTH-NORTHWEST TO SOUTH-SOUTHEAST IN SATELLITE IMAGERY. THE AIR FORCE AIRCRAFT REPORTED 56 KT FLIGHT-LEVEL WINDS AT 850 MB...WITH SFMR WINDS OF 45-48 KT IN THE NORTHEAST QUADRANT. BASED ON THIS...THE INITIAL INTENSITY REMAINS 50 KT.

AFTER A NUDGE TO THE LEFT THIS MORNING...KYLE HAS MADE A NUDGE TO THE RIGHT THIS AFTERNOON. THE 12 HR MOTION AND ADVISORY MOTION IS 345/11...BUT THE SHORT-TERM MOTION IS ALMOST DUE NORTH. KYLE REMAINS ON THE SOUTHWEST SIDE OF A BUILDING RIDGE OVER THE CENTRAL ATLANTIC...AND SOON SHOULD PASS BETWEEN THE RIDGE AND A DEEP-LAYER LOW PRESSURE AREA OVER THE EASTERN UNITED STATES. SHOULD STEER KYLE GENERALLY NORTH-NORTHWESTWARD AND NORTHWARD FOR THE NEXT 24-36 HR. AFTER THAT...THE GUIDANCE FORECASTS KYLE TO TURN MORE TOWARD THE NORTH-NORTHEAST AS IT APPROACHES THE MAIN BRANCH OF THE WESTERLIES AND THE NORTHERN END OF THE ATLANTIC THE MODEL GUIDANCE HAS SHIFTED A LITTLE TO THE RIGHT TOWARD WESTERN NOVA SCOTIA OVER THE PAST 6 HOURS...WITH MOST OF GUIDANCE NOW SHOWING A SLIGHTLY SLOWER FORWARD MOTION THAN PREVIOUSLY. BASED ON THE NEW GUIDANCE AND THE INITIAL POSITION/MOTION...THE NEW FORECAST TRACK IS SHIFTED A LITTLE TO THE EAST OF THE PREVIOUS TRACK. HOWEVER...IT LIES ALONG THE WESTERN EDGE OF THE MODEL CONSENSUS.

IF ANYTHING...THE INTENSITY FORECAST HAS BECOME MORE COMPLEX THAN IT WAS 6 HOURS AGO. THE CURRENT SHEAR MAY DECREASE SOMEWHAT OVER THE NEXT 24 HOURS...WHICH WOULD ALLOW KYLE TO GRADUALLY INTENSIFY. AFTER THAT...KYLE IS FORECAST TO ENCOUNTER STRONG...BUT DIVERGENT...UPPER-LEVEL SOUTHWESTERLY FLOW....WITH THE RESULTING SHEAR TRYING TO WEAKEN THE CYCLONE AND THE DIVERGENCE TRYING TO STRENGTHEN IT. A NEW COMPLICATION IS A COLD AIR MASS APPROACHING KYLE FROM THE EAST...WHICH IF IT REACHES THE CYCLONE COULD CAUSE WEAKENING OR A FASTER EXTRATROPICAL TRANSITION. DESPITE THE NEGATIVE FACTORS...THE SHIPS...HWRF...AND GFDL MODELS CALL FOR KYLE TO BECOME A HURRICANE. THE NEW INTENSITY FORECAST THUS CALLS FOR THE CYCLONE TO REACH A PEAK INTENSITY OF 65 KT IN 36 HR. AFTER THAT TIME...KYLE WILL MOVE OVER COLD SEA SURFACE TEMPERATURES AND BEGIN EXTRATROPICAL TRANSITION...AND THIS COMBINATION SHOULD CAUSE WEAKENING. KYLE SHOULD LOSE TROPICAL CHARACTERISTICS AFTER LANDFALL AND EVENTUALLY BE ABSORBED IN A FRONTAL SYSTEM IN A FRONTAL SYSTEM OVER EASTERN CANADA.

INTERESTS IN EASTERN NEW ENGLAND AND THE CANADIAN MARITIMES SHOULD CLOSELY MONITOR THE PROGRESS OF KYLE. WATCHES MAY BE REQUIRED FOR PORTIONS OF THE NEW ENGLAND COAST ON SATURDAY.

FORECAST POSITIONS AND MAX WINDS

INITIA	AL	26/2100Z	27.6N	68.7W	50	KT	
12HR	VT	27/0600Z	29.5N	69.3W	55	KT	
24HR	VT	27/1800Z	32.6N	69.5W	60	KT	
36HR	VT	28/0600Z	36.5N	69.0W	65	KT	
48HR	VT	28/1800Z	40.3N	67.8W	65	KT	
72HR	VT	29/1800Z	47.5N	64.5W	45	KTEXTRAT	ROPICAL
96HR	VT	30/1800Z	52.0N	62.0W	35	KTINLAND	EXTRATROPICAL
120HR	VT	01/1800Z	ABSOF	RBED BY	FRONT	TAL SYSTEM	

\$\$

FORECASTER BEVEN

Quick Navigation Links:

NHC Active Storms - Atlantic and E Pacific Marine - Storm Archives Hurricane Awareness - How to Prepare - About NHC - Contact Us

NOAA/ National Weather Service
National Centers for Environmental Prediction
National Hurricane Center
Tropical Prediction Center
11691 SW 17th Street
Miami, Florida 33165-2149 USA
nhcwebmaster@noaa.gov
Page last modified: Friday, 26-Sep-2008 21:00:30 GMT

Disclaimer Credits Information Quality Glossary Privacy Policy Freedom of Information Act (FOIA) About Us Career Opportunities

```
ATLANTIC SHIPS INTENSITY FORECAST
                                 GOES/OHC INPUT INCLUDED
                                 KYLE
                                      AL112008
                                                  09/27/08
                                                              00 UTC
                                                                           72
                                                                                        96
                                                                                              108
                                                                                                     12(
                                                             48
                                                                    60
                                                                                  84
                     0
                                  12
                                         18
                                                24
                                                      36
                            6
TIME (HR)
                                                             67
                                                                    65
                                                                           66
                                                                                  67
                                                                                        65
                                                                                                65
                                                                                                      61
                    50
                           51
                                  54
                                         56
                                                58
                                                      63
V (KT) NO LAND
                                                                                        30
                                                                                                30
                                                                                                      29
                                                             67
                                                                                  33
                    50
                           51
                                  54
                                         56
                                                58
                                                      63
                                                                    48
                                                                           46
V (KT) LAND
                                                                                        30
                                                             50
                                                                    37
                                                                           38
                                                                                  31
                                                                                                30
                                                                                                      41
                                         54
                                                55
                                                      55
V (KT) LGE mod
                    50
                           51
                                  52
                                                                    40
                                                                           48
                                                                                  49
                                                                                        41
                                                                                                37
                                                                                                      42
                                  15
                                        16
                                               27
                                                      27
                                                             31
                    14
                           14
SHEAR (KTS)
                                              236
                                                     232
                                                            211
                                                                   206
                                                                          228
                                                                                 243
                                                                                        247
                                                                                              242
                                                                                                     241
SHEAR DIR
                   279
                          263
                                 257
                                        229
                                                           14.9
                                                                                        9.0
                                                                                               6.6
                                                                                                     7.6
                                      27.6
                                             27.0
                                                    23.8
                                                                  13.7
                                                                         12.7
                                                                               10.8
                               28.3
SST (C)
                  28.7
                         28.6
                                              127
                                                                    70
                                                                                        62
                                                                                                63
                                                                                                       64
                                                     100
                                                             71
                                                                           68
                                                                                  64
                                       134
POT. INT. (KT)
                   148
                          147
                                 143
                                                                    67
                                                                           65
                                                                                  62
                                                                                         61
                                                                                                62
                                                                                                       62
                                 127
                                        120
                                              113
                                                      89
                                                             68
ADJ. POT. INT.
                          130
                   132
                                                                                                   -60.1
                                                                                            -60.5
                              -53.9 -53.0
                                            -53.6
                                                   -54.6
                                                          -54.2
                                                                 -54.7
                                                                        -55.8
                                                                              -57.6
                                                                                     -59.5
                 -52.8
                       -53.5
200 MB T (C)
                                                                                                 0
                                                       3
                                                                     0
                                                                            0
                                                                                   0
                                                                                          0
                                                                                                       (
                    10
                            9
                                   8
                                          7
                                                 6
TH E DEV (C)
                                         57
                                                56
                                                      55
                                                             57
                                                                    54
                                                                           43
                                                                                  41
                                                                                         44
                                                                                                56
                                                                                                       61
700-500 MB RH
                    57
                           58
                                  59
                                                                                  20
                                                                                        16
                                                                                                15
                                                                                                      11
                                         17
                                                18
                                                      20
                                                             25
                                                                    22
                                                                           21
GFS VTEX (KT)
                    15
                           17
                                  16
                                                                                        -22
                                                                                                -9
                                                                                                      --- E
                                                             31
                                                                    78
                                                                           15
                                                                                 -26
850 MB ENV VOR
                     1
                           -6
                                 -15
                                         -9
                                                -6
                                                       0
                                                                                  35
                                                                                        74
                                                                                                57
                                                                                                      33
                                                                    58
                                                                           42
                    71
                           54
                                  70
                                         99
                                                62
                                                      95
                                                             97
200 MB DIV
                                                                                -172
                                                                                      -245
                                                                                              -47
                                                                                                     139
                                                            140
                                                                   -37
                                                                          -16
                                               639
                                                     381
LAND (KM)
                  1008
                          894
                                 787
                                        692
                                                                         49.5
                                                                                51.8
                                                                                      52.9
                                                                                             54.1
                                                                                                    54.4
                                                           42.5
                                             34.9
                                                    38.8
                                                                  46.1
                  28.7
                         30.0
                                31.3
                                      33.1
LAT (DEG N)
                                                                                                    55.(
                                                           66.6
                                                                  64.9
                                                                         63.3
                                                                                62.0
                                                                                      61.0
                                                                                             58.8
                                      69.0
                                             68.9
                                                    68.0
                  68.6
                         68.8
                                69.0
LONG (DEG W)
                                                             19
                                                      20
                                                                    18
                                                                           15
                                                                                   9
                                                                                          7
                                                                                                10
                                                                                                       11
                                         18
                                                19
                    13
                           13
                                  16
STM SPEED (KT)
                                                18
                                                       0
                                                              0
                                                                  9999
                                                                            0
                                                                                9999
                                                                                      9999
                                                                                             9999
                                         24
HEAT CONTENT
                    31
                           24
                                  14
                                    INITIAL HEADING/SPEED (DEG/KT): 0/ 13
                                                                                      CX, CY:
                                                                                                 0/13
  FORECAST TRACK FROM OFCI
                                    PRESSURE OF STEERING LEVEL (MB): 521
                                                                                 (MEAN=625)
  T-12 MAX WIND: 50
  GOES IR BRIGHTNESS TEMP. STD DEV. 100-300 KM RAD:
                                                            32.1 (MEAN=20.0)
                                          50-200 KM RAD: 57.0 (MEAN=68.6)
  % GOES IR PIXELS WITH T < -20 C
```

								T	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	6 INDI	VIDUA 12	L CON 18	PRIBU 24	TIONS 36	TO :	INTENS 60	72	CHANGE 84	96	108	120
SAMPLE MEAN CHANGE	1.	 2.	3.	4.	6.	8.	9.	10.	11.	12.	12.	13.
SST POTENTIAL	1.	2.	3.	3.	2.	-1.	-4.	-7.		-11.	-13.	-14.
VERTICAL SHEAR	1.	1.	2.	3.	5.	6.	7.	7.	9.	10.	9.	5.
PERSISTENCE	0.	-1.	-1.	-1.	-1.	-1.	-1.	-1.	-1.	-1.	0.	0.
200/250 MB TEMP.	0.	0.	0.	0.	0.	0.	2.		10.	17.	23.	29.
THETA E EXCESS	0.	0.	-1.	-1.	-2.	-4.	-6.	-9.	-13.	-16.	-18.	-20.
700-500 MB RH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.
GFS VORTEX TENDENCY	0.	0.	0.	1.	3.	7.	5.	4.	3.	0.	-1.	-3.
850 MB ENV VORTICITY	0.	0.	-1.	-1.	-1.	-1.	-1.	-1.	-1.	-2.		
200 MB DIVERGENCE	0.	1.	2.	2.	4.	6.	8.	8.	8.	9.		
ZONAL STORM MOTION	0.	0.	0.	0.	-1.	-1.	-2.		-3.	-3.	-4.	-4.
STEERING LEVEL PRES	0.	0.	1.	1.	1.		2.		3.			
DAYS FROM CLIM. PEAK	0.	0.	0.	0.	0.	0.	0.		0.			U.
SUB-TOTAL CHANGE	2.	5.	8.	11.	16.	20.	18.					12.
SATELLITE ADJUSTMENTS												
MEAN ADJUSTMENT		0.		0.			-1.	-1.	-1.	-1.		
GOES IR STD DEV	-1.		-2.						0.			
GOES IR PIXEL COUNT	0.	0.	0.				0.		1.	1.		
OCEAN HEAT CONTENT	0.	0.	0.	0.	0.	0.	-1.	-1.	-1.	-1.	-1.	-1.
TOTAL ADJUSTMENT	-1.	-2.	-2.	-3.	-3.	-3.	-2.	-2.	-1.	-1.	-1.	-2.
TOTAL CHANGE (KT)	1.	4.	6.	8.	13.	17.	15.	16.	17.	15.	15.	11.
** 2008 ATLANTIC RI INDEX AL112008 KYLE 09/27/08 00 UTC ** (25 KT OR MORE MAX WIND INCREASE IN NEXT 24 HR)												
12 HR PERSISTENCE (KT)							Scaled					1.1
850-200 MB SHEAR (KT)	: 17	.2 Ra	inge:	35.1	to	3.2	Scaled	l/Wgte	ed Vai	1: 0		0.9
	: 71	.2 Ra	inge:-	-20.0	to 14	9.0	Scaled	d/Wgt∈	ed Val	1: 0		0.8
POT = MPI-VMAX (KT)	: 74	.5 Ra	inge:	25.1	to 13	0.7	Scaled	1/Wgte	ed Vai	1: 0	.5/	0.5

```
850-700 MB REL HUM (%): 69.4 Range: 56.0 to 88.0 Scaled/Wgted Val: 0.4/ 0.2 % area w/pixels <-30 C: 47.0 Range: 17.0 to 100.0 Scaled/Wgted Val: 0.4/ 0.1 STD DEV OF IR BR TEMP: 25.2 Range: 35.1 to 3.2 Scaled/Wgted Val: 0.3/ 0.4 Heat content (KJ/cm2): 22.2 Range: 0.0 to 132.0 Scaled/Wgted Val: 0.2/ 0.0
Prob of RI for 25 kt RI threshold=
                                                    17% is
                                                                  1.4 times the sample mean(12.3%)
Prob of RI for 30 kt RI threshold=
                                                     11% is
                                                                 1.4 times the sample mean (7.8%)
                                                     6% is
                                                                 1.3 times the sample mean (4.5%)
Prob of RI for 35 kt RI threshold=
                                                                                                                            ##
                  ANNULAR HURRICANE INDEX (AHI) AL112008
                                                                                 KYLE 09/27/08 00 UTC
                                                                                                                            ##
   ## STORM NOT ANNULAR, SCREENING STEP FAILED, NPASS=2 NFAIL=5
   ## AHI= 0 (AHI OF 100 IS BEST FIT TO ANN. STRUC., 1 IS MARGINAL, 0 IS NOT ANNULAR) ##
            ANNULAR INDEX RAN NORMALLY
   ##
```



National Weather Service

National Hurricane Center

Home

News

Organization

Search

Local forecast by "City, St" or "ZIP"

Go

Alternate versions

Text-only | PDA | Cell

Get Storm Info

Satellite | Radar Aircraft Recon **Advisory Archive** Experimental **Mobile Products** E-mail Advisories Audio/Podcasts GIS Data | RSS 🔝 Help with Advisories

Marine Forecasts

Atlantic and E Pacific Forecast and **Analysis Tools** Help with Marine

Hurricane Awareness

Be Prepared | Learn **Frequent Questions** AOML Research **Hurricane Hunters** Saffir-Simpson Scale **Forecasting Models Eyewall Wind Profiles** Glossary/Acronyms Storm Names **Breakpoints**

Hurricane History

Seasons Archive **Forecast Accuracy** Climatology **Most Extreme**

About the NHC

Mission and Vision Personnel | Visitors **NHC Virtual Tour** Library Joint Hurr Testbed The NCEP Centers

Contact Us - Help



Vortex Data Message

ALGU

AL942008

000

URNT12 KNHC 260046 VORTEX DATA MESSAGE

A. 26/00:29:30Z

B. 33 deg 15 min N

078 deg 17 min W

C. 850 mb 1331 m

D. 51 kt

E. 352 deg 25 nm

F. 080 deg 58 kt

G. 352 deg 25 nm

H. 991 mb

I. 12 C / 1511 m

J. 19 C / 1525 m

K. 12 C / NA

L. NA

M. NA

N. 12345 / 8

0. 0.02 / 1 nm

P. AF303 03GGA LOW

OB 09 MAX FL WIND 58 KT NE QUAD 23:32:50Z

Quick Navigation Links:

NHC Active Storms - Atlantic and E Pacific Marine - Storm Archives Hurricane Awareness - How to Prepare - About NHC - Contact Us

NOAA/ National Weather Service National Centers for Environmental Prediction National Hurricane Center **Tropical Prediction Center** 11691 SW 17th Street Miami, Florida 33165-2149 USA nhcwebmaster@noaa.gov Page last modified: Friday, 26-Sep-2008 00:47:11 GMT

Disclaimer Credits Information Quality Glossary

Freedom of Informa

Caree

times should be ladigets.

LATCE # is now !!

To make some boundate and fight ID one correct

biodile display, use previously corrected value, rather than current values

to uses 48 hr. clock.

there should not be any -999s in 3 columns

to only run jats