

U.S. Dep't. of Commerce / NMAO / NOAA / Aircraft Operations Center

FLT ID: 050827N	From: KMcF	To: KMcF
Flt No: 05-130	In: 0157Z	On: 0149Z
ETD: 1730Z	Out: 1712Z	Off: 1722Z
ETE: 8+30	Blk Time: 8+45 8.8 Hrs	Flt Time: 8+27 8.5 Hrs
Sponsoring Org: NOAA/NHC	Program: HURR05	Purpose: HURRICANE KATRINA

AOC Flight Crew

Aircraft Commander: FINN, M	Data System: BROGAN, D
Co-Pilot: HAGAN, J	AVAPS: TONG, R
Navigator: /	System Engineer:
Flight Eng: /	AA:
Flight Director: FLAHERTY, P	AA: PR PS
Avionics: CARPENTER, D	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
LANDSEA, C	PI / HAPS	HRD
VALDE, K	AVAPS / HAPS	HRD

Remarks (Storm Name, Mission ID, Recco Times, Fix Times) Recco Times Fix # Fix Time

Storm Name: HURRICANE KATRINA

Mission ID: NOAA 1412A KATRINA

FCST TRK = N.O. (UH OH!)

U.S. DEP'T OF COMMERCE / NMAO / NOAA / AIRCRAFT OPERATIONS CENTER

FLT ID: 050827N		TIME OFF: Z		TIME ON: Z	
		A/C - Takeoff	WX Station - Takeoff	A/C - Land	WX Station - Land
Pressure		1008.2			
ATIS - Takeoff					
ATIS - Land					
Data Source	Number	Data Disposition / Date / Quality			
Flight Level Tapes					
Radar Tapes					
Cloud Physics Tapes / Cds					
Video Tapes					
Dropsondes	24	Good: 24	Bad:	Total:	
AXBT					
AXCP					
AXCTD					
SONOBUOY					
REMARKS:					
1655 1001KT 7sm 31/25 2978					

ACURTA 7 000000
 ACURTA 7 0511
 1000 0.4 201 12



NOAA G-IV
Hurricane 2005
NHC - Hurricane Katrina
KMCF - KMCF



Flight ID: 050827n

Sensor or system

Inertial (for wind derivation)

Temperature /Dew Point

Static and Dynamic Pressure

Directory / Constants File

Number or Name

VEW_PITR/VNS_PITR

AT1/DPRC

PS2C/QC2C

506/49cal032

Notes:

There were no time/data glitches during this flight. The dewpoints were not in agreement, and were balanced at 2330Z. AT3 was flaky.

All other instruments worked properly.

24 dropsondes were deployed. 24 Observations were transmitted

Aircraft Static Pressure	Takeoff	Landing
	1008.2 mb	n/a mb
STATION INFORMATION		
1655Z 10011KT 7SM 31/25 A2978		
0155Z n/a		

Flight Director:
Phone #:

Contact Paul Flaherty
(813) 828-3310 ext. 3094

N49RF AVAPS DropSonde Log

N49RF Project: Hurricane Surv 2005 Flight ID 050827n

Mission: Katrina Flight #: 4 Launcher S/N: 02 Status: Sys 1 ☒ Sys 2 ☒

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD <input checked="" type="checkbox"/>
1	011 218 112	1	1752	0	30	RT		<input checked="" type="checkbox"/>
2	002 615 335	2	1810	0	32			<input checked="" type="checkbox"/>
3	003 135 272	1	1824	0	60			<input checked="" type="checkbox"/>
4	011 245 303	1	1842	-7.4	54			<input checked="" type="checkbox"/>
5	001 945 751	2	1858	0	54			<input checked="" type="checkbox"/>
6	003 115 155	1	1913	0	49			<input checked="" type="checkbox"/>
7	003 135 175	4	1926	0	30			<input checked="" type="checkbox"/>
8	011 218 120	1	1955	0	72		Lost Winds	<input checked="" type="checkbox"/>
9	003 115 159	2	1958	0	46		Box	<input checked="" type="checkbox"/>
10	011 218 117	4	2012	0	30			<input checked="" type="checkbox"/>
11	011 245 149	1	2028	-3.4	27			<input checked="" type="checkbox"/>
12	016 715 160	2	2050	0	17			<input checked="" type="checkbox"/>
13	011 118 021	1	2104	-7.4	45			<input checked="" type="checkbox"/>
14	003 615 001	2	2132	-1.8	23			<input checked="" type="checkbox"/>
15	011 118 023	1	2143	-1.5	23		Telemetry Lost	<input checked="" type="checkbox"/>
16	003 615 006	1	2157	0	20			<input checked="" type="checkbox"/>
17	010 715 209	2	2213	-1.5	23			<input checked="" type="checkbox"/>
18	010 715 210	3	2230	-1.5	31			<input checked="" type="checkbox"/>
19	010 715 208	4	2247	0	35			<input checked="" type="checkbox"/>
20	011 418 017	1	2303	-1.5	25			<input checked="" type="checkbox"/>
21	003 615 002	1	0004	-1.6	40			<input checked="" type="checkbox"/>
22	003 115 457	2	0026	0	37			<input checked="" type="checkbox"/>
23	010 748 048	4	0043	0	68		Late Winds	<input checked="" type="checkbox"/>
24	044 535 241	1	0102	0	30			<input checked="" type="checkbox"/>
25								
26								
27								
28								
29			NHC -23					
30			AOC - 1					
31								
32								
33								

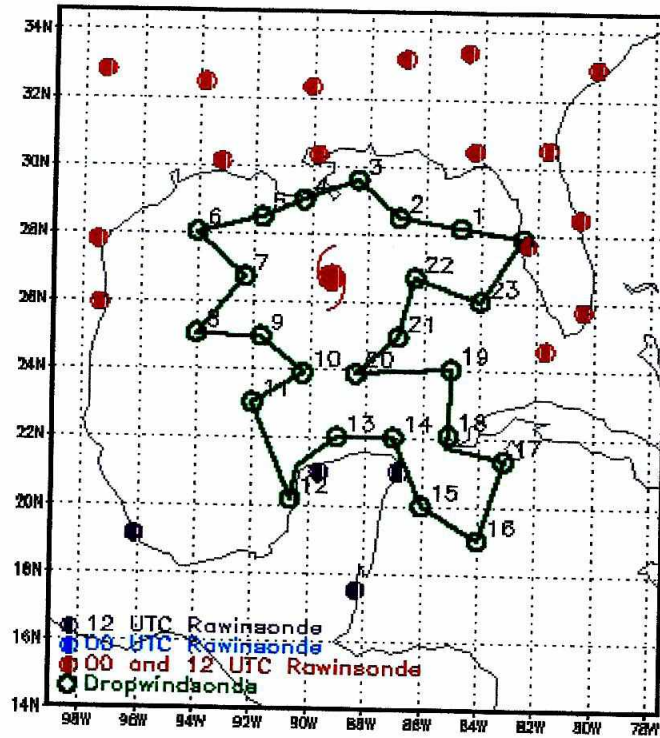
* NEED TAPE & FISHING LINE *

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: KATRINA

NOAA/AOML/Hurricane Research Division: August 27, 2005 9:43:04 AM
Aircraft: N49RF Proposed takeoff: 28/1800Z


DROP LOCATIONS

#	LAT (d m)	LON (d m)	TIME (h:mm)
1	28 09	-84 42	0:17
2	28 28	-86 52	0:34
3	29 33	-88 22	0:48
4	28 58	-90 16	1:04
5	28 28	-91 44	1:16
6	28 00	-94 00	1:33
7	26 42	-92 18	1:50
8	25 00	-94 00	2:09
9	24 56	-91 44	2:27
10	23 51	-90 14	2:42
11	23 00	-92 00	2:57
12	20 10	-90 38	3:23
14	22 00	-89 00	3:44
15	22 00	-87 00	3:60
16	20 00	-86 00	4:18
17	19 00	-84 00	4:36
18	21 19	-83 06	4:56
21	22 04	-85 03	5:15
22	24 00	-85 00	5:31
23	23 51	-88 22	5:58
24	24 56	-86 52	6:12
25	26 42	-86 18	6:27
26	26 00	-84 00	6:46




GADES COLA/16ES

2006-08-27-08:38



National Weather Service
National Hurricane Center
Tropical Prediction Center



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ZCZC MIATCDAT2 ALL
 TTAA00 KNHC DDHHMM
 HURRICANE KATRINA DISCUSSION NUMBER 15
 NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL
 11 PM EDT FRI AUG 26 2005

THE SATELLITE PRESENTATION HAS CONTINUED TO IMPROVE AND CONSISTS OF A PERFECT A COMMA-SHAPED CLOUD PATTERN WHICH BEGINS OVER WESTERN CUBA AND WRAPS AROUND A LARGE CLUSTER OF VERY DEEP CONVECTION. THIS BAND IS PROBABLY PRODUCING NEAR TROPICAL STORM FORCE WINDS ALONG THE NORTH COAST OF WESTERN CUBA. ALTHOUGH THE EYE IS NOT CLEARLY VISIBLE ON IR IMAGES...RADAR DATA INDICATE THAT THE EYE IS EMBEDDED WITHIN THIS CIRCULAR AREA OF DEEP CONVECTION. T-NUMBERS FROM SAB AND TAFB HAVE INCREASED TO 5.0 ON THE DVORAK SCALE. THEREFORE... THE INITIAL INTENSITY HAS BEEN ADJUSTED TO 90 KNOTS. AN AIR FORCE RECONNAISSANCE PLANE IS SCHEDULED TO BE IN KATRINA IN THE NEXT FEW HOURS. THE HURRICANE IS EXPECTED TO BE UNDER A TYPICAL 200 MB ANTICYCLONE...WITH A CYCLONIC CIRCULATION EXTENDING UPWARD TO THAT LEVEL. THIS IS THE TYPICAL PATTERN OBSERVED IN INTENSE HURRICANES. IN ADDITION...KATRINA IS FORECAST TO MOVE DIRECTLY OVER THE WARM LOOP CURRENT OF THE GULF OF MEXICO...WHICH IS LIKE ADDING HIGH OCTANE FUEL TO THE FIRE. THEREFORE...THE OFFICIAL FORECAST BRINGS KATRINA TO 115 KNOTS...OR A CATEGORY FOUR ON THE SAFFIR-SIMPSON HURRICANE SCALE. THE GFDL IS MORE AGGRESSIVE AND CALLS FOR 124 KNOTS AND 922 MB. THE FSU SUPERENSEMBLE IS EVEN MORE AGGRESSIVE BRINGING KATRINA TO 131 KNOTS.

KATRINA CONTINUES TO MOVE STUBBORNLY TOWARD THE WEST-SOUTHWEST OR 250 DEGREES AT 7 KNOTS ALONG THE EASTERN SIDE OF A VERY STRONG DEEP-LAYER MEAN HIGH CENTERED OVER TEXAS. IN FACT...DATA FROM THE NOAA JET JUST RELAYED BY THE METEOROLOGIST ONBOARD INDICATE THAT THE HIGH CONTINUES TO BE VERY STRONG. HOWEVER...THIS FEATURE IS EXPECTED TO MOVE WESTWARD AND LEAVE A WEAKNESS OVER THE CENTRAL GULF OF MEXICO. KATRINA WILL LIKELY TAKE THAT OPPORTUNITY AND BEGIN TO TURN GRADUALLY TOWARD THE WEST-NORTHWEST AND THEN NORTHWARD. THE OFFICIAL FORECAST BRINGS THE CORE OF THE INTENSE HURRICANE OVER THE NORTH CENTRAL GULF OF MEXICO IN 48 HOURS OR SO. IT IS WORTH NOTING THAT THE GUIDANCE SPREAD HAS DECREASED AND MOST OF THE RELIABLE NUMERICAL MODEL TRACKS ARE NOW CLUSTERED BETWEEN THE EASTERN COAST OF LOUISIANA AND THE COAST OF MISSISSIPPI. THIS CLUSTERING INCREASES THE CONFIDENCE IN THE FORECAST.

FORECASTER AVILA

FORECAST POSITIONS AND MAX WINDS

INITIAL	27/0300Z	24.6N	83.6W	90 KT
12HR VT	27/1200Z	24.6N	84.6W	100 KT
24HR VT	28/0000Z	25.0N	86.0W	115 KT
36HR VT	28/1200Z	26.0N	87.5W	115 KT
48HR VT	29/0000Z	27.0N	89.0W	115 KT