

G4 Hurricane Surveillance

N991003 Tropical Disturbance (Gulf of Mexico)

<u>DATA TYPE</u>	<u>SENSOR or OPTION</u>
INE	VEW_PITR, VNS_PITR
Accelerometer	ACINS_PITR
Temperature Probe	AT2
Altitude (for vertical wind)	PALT
Static Pressure	PS1M
Dynamic Pressure	QC1M
Dewpoint Probe	DPLC

Notes:

There were no data gaps.

No dynamic corrections were applied to the measured static and dynamic pressures. Thus wind direction and wind speed may not be representative of actual flight level conditions.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1018.3mb	1018.5mb
Corrected tower pressure	1018.8mb	1018.5mb

Flight Meteorologist: A. Barry Damiano, (813) 828-3310 ext. 3073

FLT ID: N991003	FM: KMCF	TO: KMCF
FLT NO: 00-02	BLK IN: 0215Z	RTA: 0205Z
ETD: 1730Z	BLK OUT: 1711Z	RTD: 1723Z
ETE:	BLK TIME: 9:04	FLT TIME: 8:42
SPONSOR ORG: NHC	PROGRAM: HURR. SURV	PURPOSE: DIST IN 5 GULF OF MEXICO

0A0 PERSONNEL

AC FENKE	SYS ENG GOLDSTEIN
CP McCANN	DATA SYS CARPENTER
NAV	RADAR
FE KITSON	BT/ODW SMITH
RADIO	CLD PHYS
FD DAMIANO	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/0A0

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
KAPLAN ✓	HAPS	HRD
DORST ✓	HAPS	HRD

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

2310Z 0030Z
 hot tent

1655Z 30 30.10
 23

U.S. DEPT. COMM./NOAA/ORA - DATA SECTION WORK FORM NO.2 OROWF2 FILE

FLT ID: *N991003* TIME OFF: *1723Z* TIME ON: *0205Z*

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	<i>1018.3</i>	<i>30.10</i>	<i>1018.5</i>	<i>30.09</i>

NO DATA DISPOSITION/DATE/QUALITY

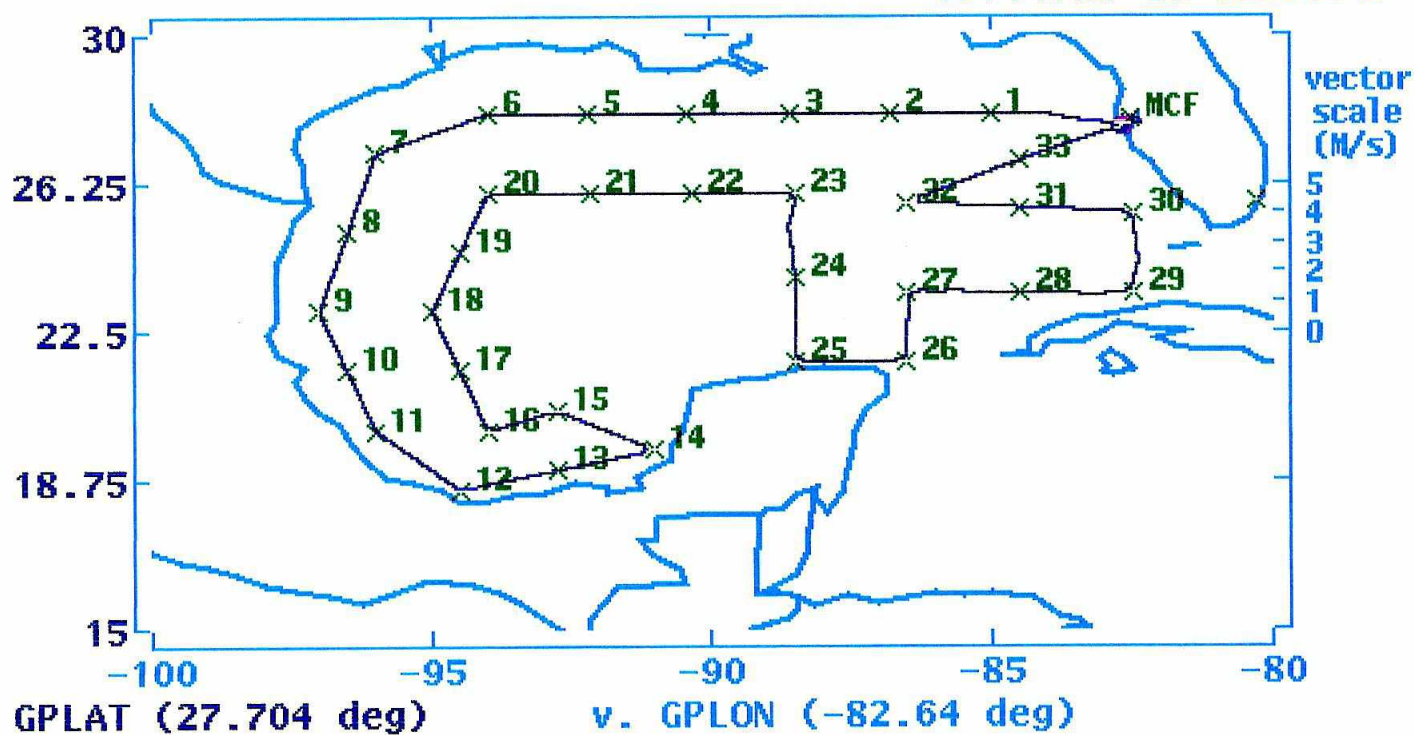
1/SEC FLT LVL TAPES	<i>1</i>	
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES		
AXBT		
AXCP		
<i>GPS</i>	<i>35</i>	<i>35 good; 33 XMIT</i>

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

'JCPB1' (winds@eiaer) Proj. 430 Flt 19 Oct-04-99 02:00:47
17:14:39 to 02:00:47



NEW-PIR, VNS-PIR

2PL
AT2
PSIM
QCAM

N990003

TIME	LAT	LONG	TRK	HD	WD	WS	TA	TD	PA	GA	PS		P8
175058	2800	8500	270	266	246	13	-42.2	-45.6	10443	10980	245.2	(22) DROP	113.7
180000	2800	8607	270	265	261	32	-60.9	-63.8	12567	13147	175.6	ARV CLD	89.0
180541	2800	8648	270	265	237	34	-61.2	-66.5	12568	13135	175.5	(17) DROP	88.5
182036	2800	8836	270	264	229	36	-61.3	-64.4	12567	13137	175.5	(24) DROP	88.9
182800	2800	8930	270	264	226	37	-61.3	-64.6	12565	13147	175.6	CLD TOPS	88.0
183511	2800	9024	270	263	218	35	-60.7	-63.0	12561	13147	175.6	(27) DROP	88.2
184500	2800	9137	270	264	228	34	-60.8	-67.1	12569	13136	175.5	ARV CLD	87.7
184942	2800	9212	270	264	224	32	-61.0	-68.0	12581	13141	175.2	(28) DROP	89.8
185900	2759	9314	272	266	227	31	-60.5	-69.2	12583	13131	175.0	ARV CLD	88.0
190405	2759	9400	250	247	224	28	-60.1	-69.8	12585	13122	175.0	(29) DROP	88.4
191100	2738	9445	240	239	224	25	-60.1	-70.2	12562	13126	175.7	ARV CLD	88.4
192241	2657	9600	204	204	210	18	-59.7	-69.2	12581	13128	175.8	(32) DROP	87.6
193948	2500	9630	193	194	213	14	-60.1	-70.6	12557	13145	175.9	(32) DROP	88.2
195716	2300	9659	172	171	161	7	-60.2	-70.6	12551	13161	176.0	(16) DROP	88.5
201028	2130	9630	162	160	231	16	-61.7	-63.2	12804	13158	167.2	(25) DROP	84.1
202343	2000	9559	146	142	96	16	-65.5	-68.5	13136	13754	159.6	(12) DROP	79.6
204132	1832	9427	96	92	48	17	-65.0	-63.0	13137	13755	159.5	(27) DROP	80.9
205552	1900	9245	73	72	40	12	-64.6	-65.8	13137	13765	159.6	(28) DROP	
210500	1919	9140	73	72	54	13	-64.8	-68.4	13135	13756	159.6	ARV CLD	80.1
211044	1938	9113										(25) DROP	
211057	1939	9115	301	301	126	4	-64.6	-68.0	13138	13771	159.7	(25) DROP	81.7
212435	2027	9247	267	263	150	9	-64.9	-67.3	13138	13750	159.6	(20) DROP	81.1
213439	2006	9359	309	310	158	2	-64.8	-68.5	13138	13748	159.6	(28) DROP	80.5
214645	2130	9430	342	341	264	9	-64.8	-67.8	13138	13744	159.6	(20) DROP	81.2
215943	2360	9459	6	4	276	8	-64.9	-69.2	13136	13744	159.7	(20) DROP	80.8
221214	2430	9430	16	14	244	10	-65.1	-69.3	13133	13747	159.7	(12) DROP	80.4
222434	2558	9356	62	63	227	8	-65.1	-70.5	13134	13742	159.7	(20) DROP	80.0
223725	2600	9210	90	92	209	9	-70.9	-73.2	13708	14331	144.8	(27) DROP	73.3
225054	2600	9020	90	92	215	13	-70.5	-73.1	13705	14328	144.9	(12) DROP	71.0
230352	2555	8833	144	149	243	17	-69.9	-72.5	13707	14336	144.9	(20) DROP	74.9
231329	2450	8834										X DROP	CLD
232137	2353	8830	178	178	189	6	-70.3	-69.6	13703	14348	144.9	(20) DROP	72.8
233942	2146	8822	113	110	49	7	-70.1	-71.1	13703	14354	144.9	(20) DROP	74.3
235426	2150	8632	31	28	204	7	-71.2	-71.4	13705	14363	144.9	(17) DROP	73.7
000809	2327	8624	56	56	302	5	-71.2	-70.1	13704	14360	144.9	(17) DROP	73.1
002222	2330	8430	90	88	307	16	-70.1	-71.6	13698	14352	145.0	(27) DROP	72.9
003712	2334	8232	30	22	300	24	-70.6	-69.9	13701	14349	145.1	(31) DROP	75.3
005410	2538	8235	306	302	277	25	-69.9	-72.3	13697	14349	145.1	(20) DROP	72.7
011014	2538	8430	274	272	255	23	-70.3	-73.2	13698	14341	145.0	(29) DROP	74.7
012607	2552	8617	36	35	276	18	-70.7	-72.0	13709	14345	144.7	(20) DROP	73.3
014033	2648	8431	61	59	264	18	-70.6	-72.6	13699	14332	145.0	(29) DROP	73.0

N49RF AVAPS DropSonde Log

N49RF Project: GOLDSTEIN, SMITH CARPENTER

Flight ID 99003N

Mission: BLOB

Flight #: 18

System Status: OK

PI collected on CH#5 - Weak Telem Pre-AMP/SOLITER SUSPECTED

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status / Failure Reason	GOOD ☒ / B
1	991018037	2/5	1751	0	22	ASG		✓
2	990415091	3/6	1805	.4	17	ASG		✓
3	990415325	2/5	1820	.6	24	ASG		✓
4	990935210	3/6	1835	.3	37	ASG		✓
5	990935219	2/5	1849	0	22	ASG		✓
6	990415200	3/6	1904	.5	39	ASG		✓
7	990435479	2/5	1922	.8	22	ASG		✓
8	990415374	2/5	1939	.6	32	ASG		✓
9	991515169	2/5	1957	.7	16	ASG		✓
10	991515175	3/6	2010	.3	25	ASG	FAST FALL? MANY WIND DROPPOUTS	✓
11	990415361	2/5	2023	.6	12	ASG		✓
12	990935038	2/5	2041	.4	27	DWC	telemetry in rout	✓
13	990935212	3/6	2056	.3	28			✓
14	985035152	2/7	2110	.3	25			✓
*15	993645231	4/5	2110	.3	25		*PROTOTYPE REV C	✓
16	991515209	3/6	2124	.7	40			✓
17	991515198	2/5	2134	.3	28			✓
18	990935040	3/6	2146	.2	24			✓
19	990935213	2/5	2159	.2	26			✓
20	991515192	3/6	2212	.4	42			✓
21	990845059	2/5	2224	.4	20			✓
22	990935037	3/6	2237	.4	27			✓
23	991515193	2/5	2250	.8	13	JAS		✓
24	991515155	1/6	2304	0	20	JAS		✓
25	993645228	2/5	2313	0	19		*PROTOTYPE REV C	✓
26	990435476	3/7	2321	0	?		DROP POINT 24	✓
27	990935039	1/5	2339	.4	32		WINDS FAILED ON CH1 OR CH5	✓
28	990845146	2/6	2355	.4	11		WINDS FAILED CH2, OR ON CH6	✓
29	990415371	3/5	0008	.8	11		POOR WINDS!	?
30	984325481	2/6	0022	.6	43		INT WINDS - DIED EARLY	?
31	984325108	3/5	0037	0	31		CH3 WINDS FAILED / CH6 OK	✓
32	990935217	4/5	0054	.4	28		CH4 WINDS FAILED / CH5 OK	✓
33	990935211	4/5	0110	.6	?			✓

34 990435475 2/6 0126 .4 30 JAS

35 990415092 3/5 0140 1.0 31 JAS

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Hurr 99 Project No. 430 Flight No. 19 Flight ID: 991003N
 SED Crew: CARPENTER, Goldstein, Smith Mission: B1.6
 Pre-Flight: 1630 Z Take-Off: 1723 Z Landing: 0205 Z

SYSTEM				Pre-Flight Check	In-Flight	Post-Flight Check	
N A V	IRS #1			✓			
	IRS #2			✓			
	IRS #3			✓			
	GPS Honeywell #1			✓ JAS			
	GPS Honeywell #2			✓ JAS			
	GPS Collins			✓ JAS		Off? ☒	
Nose Radar -Collins						Off? ☒	
T E M P		Time	Temp °C			Time	Temp °C
	Temp #1	16:43	32.0	JAS ✓		02:14	27.2
	Temp #2		31.3	JAS ✓			27.1
	Temp #3		30.7	JAS ✓			26.4
	Temp #4		32.5	JAS ✓			27.8
	DP Left		20.7	JAS ✓	Cal. Time:	02:15	22.3
	DP Right	✓	21.9	JAS ✓	Cal. Time:		22.9
P R E S S	Attack Angle (ADCAOA)			3.2 JAS ✓			
	Slip Angle (BPx/DxPx)			JAS ✓			
	Differential (PQ1/PQ2)			JAS ✓			
	Absolute (PS1/PS2)			1019.5 / 1019.3 JAS ✓			
	Check Radome Press. Lines ☐			Date: 9/8/99 JAS ✓			
S Y S T E M S	DOWN PRT-5 ⇨ Open? ☐			Not USED		Closed? ☐	
	MADS (WINDS/DISCWIN)			✓ JAS		# DATs: 1	
	MADS Printer ⇨ Paper? ☒			JAS ✓		Printer Power off? ☐	
	MADS Cal. Date: 8/26/99			QC time: 1638		QC time: 0208	
	WINDS ⇨ NET BCAST ☒			JAS			
	HAPS System / Time set? ☒			JAS		# Msg.: # Fail:	
	AVAPS System			ASS			
	K2 Printer ⇨ Paper? ☒			JAS		Printer Power off? ☐	
M I S C	Exterior Walk Around ☒			DWC			
	Inspect DropSonde Chute Bolts			DWC			
	Satcom (Flight Phone) ☒			DWC		Off CB? ☒	
	Call COMSAT? ☒ (*292#)			DWC			
	FCU/UPS/CB			CB's Checked? ☒ DWC		UPS off? ☐	
	AVAPS Sondes			# On Board: ~ 53	# Dropped: 35	# Good: 35	
	AXBT			# On Board:	# Dropped:	# Good:	
	APN-232 Altimeter			JAS			
	Modem Power On? ☒			DWC			

1	DAT Tape #1	On: 1635	Type: 4mm-DL 60M	Off: 0210
2	DAT Tape #2	On:	Type:	Off:
Comments: CH #1 AVAPS MWG SUSPECT				