

FLT ID: F950904	FM: TBPB	TO: TBPB
FLT NO: 95-063	BLK IN: 0444Z	ATA: 0441Z
ETD: 2100Z	BLK OUT: 2057Z	ATD: 2108Z
ETE:	BLK TIME: 7:47	FLT TIME: 7:33
SPONSOR ORG: HRD	PROGRAM: MRCN RESEARCH	PURPOSE: VME on H. LOUIS

DAO PERSONNEL

AC PHILLIPS BORN	SYS ENG
CP O'MARA	DATA SYS LYNCH
NAV STRONG	RADAR
FE BASIL MOORE	BT/ODW McMILLAN
RADIO SANS SOUET	CLD PHYS PRADAS-BERGNES
FD DAMIANO	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
FRANKLIN	PT	HRD
MARKS	RADAR	}
GOLDENBERG	ODW	
LEIGHTON	RADAR	
SANSURY	ODW	
VILTARD	OBS	
		France

PROPOSED/ACTUAL MISSION/REMARKS (BECCO, FIXES, STORM, PENET, NHOP #)			
2238Z	2312Z	TEAL 43	
1710'	1710'	2330Z 17°07'	
59°58'	59°53'	939MB 60°05'	
2311Z	0228Z	942MB FROM SONDE	
1711'	1706'	0202Z	
5957	60°36'	1713'	939MB
1710' 0057Z	0259Z	60°28'	942 sonde
60°19'	1711'		
0259Z	6012'		
1708' 6034	0127Z		
	1704'		
	0335Z		
	6023		
	939-940		
	6041'		

OVER

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 DROWF2 FILE

FLT ID: *T950904* TIME OFF: *2108Z* TIME ON: *0441Z*

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	<i>1003.0</i>		<i>1005.5</i>	

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

1

FAST FLT LVL TAPES

RADAR TAPES

4

DOPPLER TAPES

ODW CASSETTES

9

HARD COPIES

*PMS**1*

AXBT

AXCP

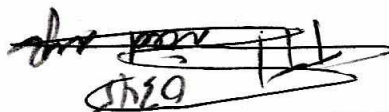
ODW

24

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE					

REMARKS

RPA out
TT3 out
*043055Z**TT1 0349Z ICED UP*

NOAA • AOC • SED Flight Performance Log

Aircraft : N43RF

Project: Hurricane '95

Mission : Hurricane LuisSED Crew: Lyack, Memillan, JCPBFlight ID : 950904FPre-Flight: 1900Z

Take-Off: _____

Landing: _____

System			Pre-Flight	In-Flight	Post-Flight		
NAV	INE #1	Aligned to : 5	② 1910		47.9	+1.1	7
	INE #2	Aligned to : 1	② 1900	①	42.9	-5.0	4
	GPS		1910		Lat	Long	GS
RADAR	Nose		✓ TL				
	L/F	R/T SN : 102	✓ TL		Mod Switch Off ? ✓		
	Tail	R&T SN : 2021 261	✓ TL		Mod Switch Off ? ✓		
	ASAU's & RCU		✓ TL				
	MARS Data System		✓ TL		# DATs : 4		
PMS	2DG-C	Ch 1/64: 1	✓ TL				
	2DG-P	Ch 1/64: 1	✓ TL				
	FSSP	Ref VDC: 8.48	✓ TL				
	SEA Data System		✓ TL		# DATs : 1		
TEMP		Cal High	Cal Low		Cal High	Cal Low	
	Temp #1	30.7	30.3	33.3°		31.0	-29.9
	Temp #2			✓ JCPB			
	Temp #3 (Starboard)			✓ JCPB			
	Dewpoint #1			✓ JCPB			
	Dewpoint #2			✓ JCPB			
PRESS	Attack Angle (AP/DAP)		✓ TL				
	Slip Angle (BP/DBP)		✓ TL				
	Differential (PQ1/PQ2/PQ3)		✓ TL				
	Absolute (PS1/PS2)		✓ TL				
	Radome Transducers		Plugs Out 7D ✓ TL				
FLTLVL	Cabin Transducer (Station 5)		✓ TL				
	Apn-159	SN: 66-02A	✓ JC				
	Apn-232	SN: 1699	✓ JC				
	King Liquid Water		NI				
	J&W Liquid Water		✓ TL				
	Down PRT-5 (SST)		✓ TL				
	Side PRT-5 (CO ²)		✓ TL				
MISC	RAMS Data System		✓ JCPB		# DATs : 1		
	ASDL		✓ TL				
	Exterior Walk Around		✓ TL	②			
	Video	① ① ① ① D	✓ JCPB	④ ④ ③			
	AXBT	①	# on Board NI	# Dropped:	# Good	—	
	ODW		# on Board :	# Dropped : 2A	# Good :	21	
	FCU	-A-B-C-D	✓ TL				
USER	Charge Probe		NI		Accelerometers		
	Formvar		NI		#1 (2 G) : 8150		
	Field Mills	① ① ① ①	✓ TL		#2 (2.5 G) : 6684		
	Lawrence Water Collector		NI		#3 (3 G) : 5967		
	HRD Workstation				#4 (3.5 G) : 2892		

Please Note any Discrepancies

Item #				
①		THE 2 CDU 1 character is top segment out	Temp	1900
②		Replaced missing static wick on PMS Pylon	TL	OK
③		Sta 2 outbd monitor is very noisy	TL	—
④		Right side VCR is missing (03) jumper	TL	—
⑤		SL-5 Slave T1-700 Light		—
⑥		Total temp #3 wait to -50°		—
⑦		Radar went down numerous times - DSC #2 - toggles between ON + Setup		—
*		Need PMS Spinner battery recharger On-Board		

I950904

TIME	LAT	LONG	TRK	HD	WD	LWS	PA	GA	TA	TD	SP	PS			PO
211200	1311	5933	34	31	244	35	1407	1191	18.5	13.5	901.0	785.0	CLDS		63.9
212700	1408	5858	25	22	244	32	5009	5265	-1.7	-8.0	1005.0	536.5	IN CLD		64.4
214000	1505	5824	31	30	224	47	5829	6116	-6.4	-7.7	1000.5	482.9	IN CLD		73.5
215600	1622	5737	31	38	187	55	5824	6108	-5.6	-8.7	999.1	483.3	IN CLD		63.0
220732	1712	5721	267	260	120	50	5826	6122	-6.5	-8.7	1001.5	483.2	BAD	ODW	69.4
221333	1711	5749	271	261	174	57	5824	6100	-6.1	-8.4	998.5	483.2	Good	ODW	74.6
221843	1711	5814	269	259	181	56	5822	6065	-5.5	-6.7	993.0	483.3	Good	ODW	73.7
225131	1704	6041	135	124	356	86	5724	5840	-2.7	-4.3	975.2	490.0	BAD	ODW	67.2
225915	1632	6006	134	143	281	71	5821	5948	-3.2	-5.1	975.4	483.6	BAD	ODW	73.2
232229	1806	5935	43	59	102	88	5834	6020	-4.2	-4.6	983.9	482.7	Good	ODW	73.7
232800	1823	5939	43	57	115	68	5835	6074	-5.0	-5.3	991.7	482.5			74.0
233452	1846	5917	43	55	106	63	5834	6127	-6.3	-6.6	999.5	482.7	BAD	ODW	73.8
233900	1900	5905	44	53	98	50	5834	6139	-6.7	-8.6	1002.4	482.6	Good	ODW	72.9
235052	1934	5848	270	271	86	41	5843	6170	-5.7	-12.4	1004.8	482.0	Good	ODW	80.8
001200	1931	6058	268	274	65	63	5844	6155	-6.6	-20.4	1004.9	482.1			80.8
001844	1923	6130	151	137	59	71	5838	6148	-7.9	-11.8	1007.7	482.1	BAD	ODW	77.1
002330	1904	6118	150	136	59	75	5842	6143	-6.4	-19.3	1004.1	482.0	Good	ODW	85.6
003141	1830	6057	136	142	63	73	5839	6096	-5.2	-7.9	993.8	482.2	Good	ODW	69.3
004000	1754	6039	155	138	61	90	5841	5992	-4.1	-5.2	979.1	482.3			73.1
010227	1633	5952	16	6	241	80	5843	5998	-3.8	-5.5	978.8	492.1	Good	ODW	76.2
010800	1706	5944	15	19	184	83	5844	5963	-3.4	-5.3	974.5	482.0			71.8
011507	1741	5943	240	233	140	86	5845	6002	-3.8	-9.4	976.8	482.1	BAD	ODW	74.8
012602	1651	6120	283	299	349	76	5815	6006	-4.5	-6.5	985.7	483.8	BAD	ODW	73.2
014426	1700	6157	284	295	357	55	5816	6072	-5.3	-6.3	994.4	483.6	Good	ODW	73.7
020038	1700	6310	150	144	28	45	6431	6793	-10.9	-17.3	1006.5	444.7	Good	ODW	76.5
022400	1506	6201	151	155	304	37	6430	6789	-9.7	-13.0	1001.5	444.7			83.7
022823	1455	6146	30	23	293	42	6429	6790	-9.8	-15.2	1002.6	444.8	Good	ODW	77.4
023830	1541	6121	31	20	292	60	6427	6746	-8.8	-11.3	994.9	444.5	Good	ODW	69.6
031040	1756	6015	253	242	117	89	5789	5954	-4.0	-4.5	981.0	485.6	Good	ODW	76.2
032352	1726	6120	120	106	37	87	5814	5918	-3.1	-10.6	971.9	484.4	Good	ODW	71.7
034308	1637	5957	164	176	215	74	5853	6060	-5.4	-6.8	986.2	484.4	BAD	ODW	71.6
035605	1545	5940	161	172	236	52	6424	6736	-11.0	-12.0	999.2	445.1	Good	ODW	69.3
041053	1439	5923	178	187	238	41	6427	6779	-11.7	-14.0	1008.5	445.1	Good	ODW	57.2

H. LUIS VME

FLIGHT #01 I950904

TYPE OF DATA

SENSOR OR OPTION

INE	1
Accelerometer	2
Temperature probe	1
Altitude change option (for vertical winds)	RA159
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 99
Constants file	CO3958.CON

Notes:

There was one time/data gap: 034831Z - 034840Z.

Dewpoint temperature #1, DW1, exceeded ambient temperature several times throughout the flight especially during eyewall penetrations.

Total temperature #1, TT1, iced up during the frames 0110Z - 0120Z and 0349Z - 0355Z. The erroneous values were removed and patched.

Downward spikes in radar altimeter output are a result of overflying land.

The aircraft INE positions were renavigated with respect to GPS.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	Takeoff	Landing
	-----	-----
Aircraft static pressure	1003.0mb	1005.5mb
Corrected tower pressure	1003.5mb	1005.0mb

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

RENAV INE1

I950904

DATA GAP
034831-034840

DAP check
OK

TT1 fixed up
~~034831~~ ~~034832~~ 0349-0355
~~2300-2305~~
0110-0120 using RS

214300, .6, .6
224300, 1.7, 1.5
234300, 3.3, 2.2
004300, 5.4, .1
014300, 5.7, 2.4
024300, 8.0, 2.4
034300, 7.7, -.5
044300, 7.9, 1.4

BP check
0149-0154
OK

~~RA159~~
RA159=RA232
0044100-044300

GX = INE2
GY = INE1

W7 check
0054
23012

17 45

DATE : 9/5/95

TO : Chief, AOC Flight Operations

FROM : Pilot/Flight Director, Aircraft N43RF ON 0444Z BLOCKTIME
OFF 2057Z 17:47

SUBJECT: Hazardous Duty

PURPOSE OF FLIGHT: HURRICANE RESEARCH ON H. LOUIS

Hazardous Duty Pay is required for flight made on 9/4/95
(DATE)

Request based on FLYING INTO H. LOUIS

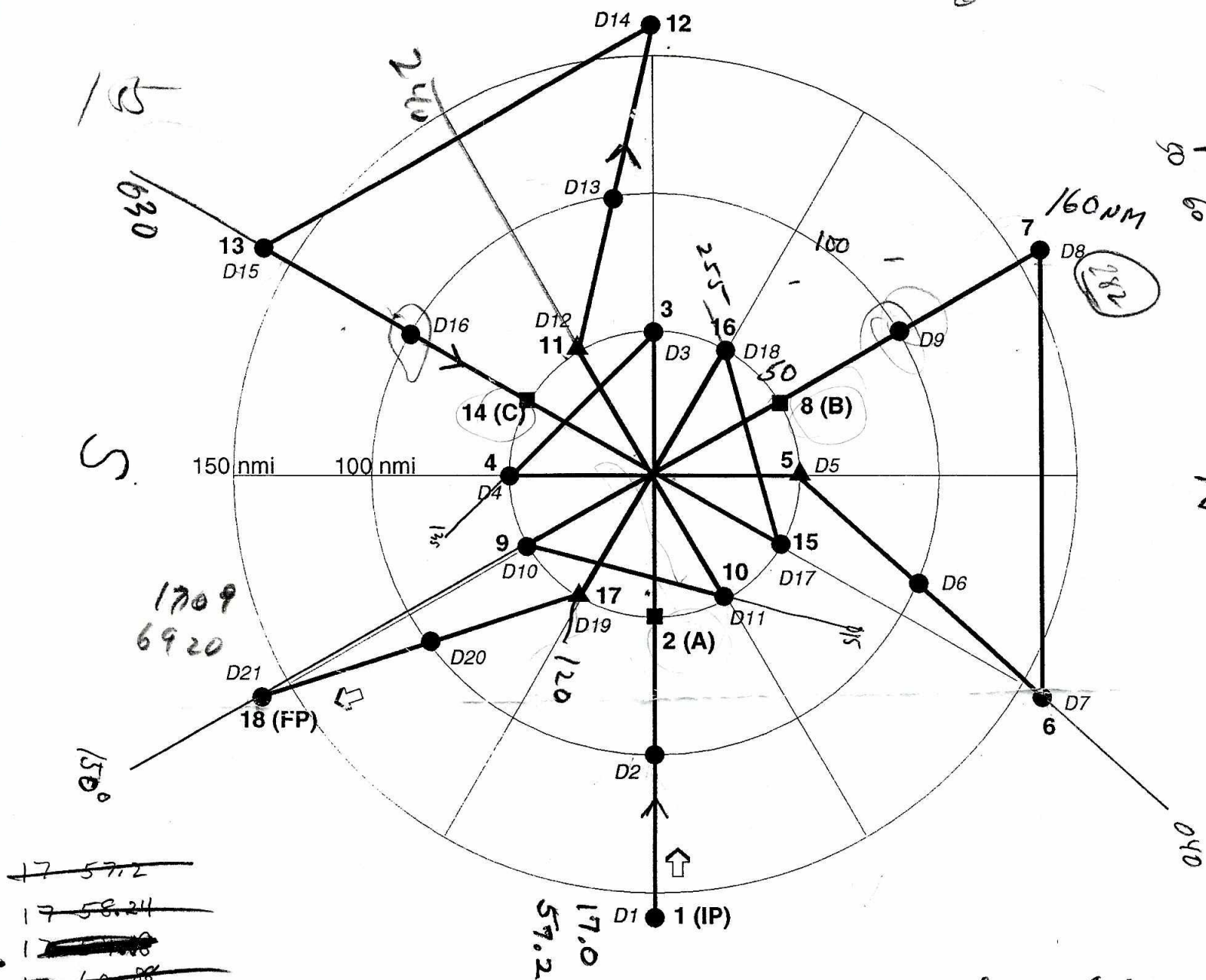
Personnel on board authorized Hazard Pay:

<u>BAST</u>	_____
<u>MOORE</u>	_____
<u>DAMIANO</u>	_____
<u>SANS SOUCI</u>	_____
<u>LYNCH</u>	_____
<u>McMILLAN</u>	_____
<u>PRADAS-BERGENES</u>	_____
_____	_____
_____	_____

PILOT/FLIGHT DIRECTOR: A. Barry Damiano

APPROVED: _____ DISAPPROVED: _____

CHIEF, AOC FLIGHT OPERATIONS: _____



- ODW (Ch 2 or 3)
- ▲ ODW (Ch 1)
- Coordination points with lower A/C (A, B, C)
- > Outer points are at 160 nmi radius
- > Drop pts (D1, D2, ...)
- Nav pts (1, 2, ...)

channel 1 is
back up

Fig. 1 Upper A/C Flight Pattern

~~17 57.2~~
~~17 58.24~~
~~17 59.88~~
~~17 60.88~~
~~16.25 60.00 59.97~~
~~17.68 60.00 59.97~~
~~17.71~~
~~18.71 59.82~~
~~19.45 58.52~~
~~19.45 61.5~~
~~16.58 60.94~~
~~16.38 59.68~~
~~16.45 59.92~~
~~17.68 59.5~~
~~16.78 61.18~~
~~17 62~~

~~17 05~~
~~6.3 15~~
~~14 45 61.47~~
~~15.63 61.24~~
~~17.79 60.1~~
~~17.6 61.52~~
~~16.75 59.82~~

~~15.8 59.6~~
~~14.8 59.25~~

[illegible]

MISSION LOG PAGE 1 OF 1

POSITION REPORT

- 1. POSITION**
- 2. TIME**
- 3. ALTITUDE**
- 4. NEXT POSITION**
- 5. ETA**
- 6. NEXT POSITION**

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW
243.0	121.5	2182 KHZ	8364 KHZ
MAYDAY, MAYDAY, MAYDAY			
THIS IS NOAA _____, NOAA _____, NOAA _____			

- POSITION _____ N / S _____ E / W AT _____ Z

- HEADING _____ TRUE/MAG _____

- AT _____ KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE _____

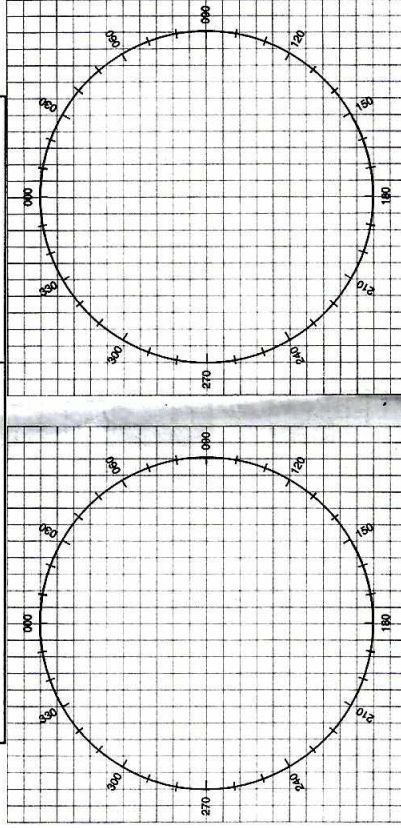
- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD

- NATURE OF EMERGENCY _____

- ASSISTANCE DESIRED _____

- PILOT INTENTIONS _____

- WE HAVE _____ ENDURANCE REMAINING _____

[illegible]

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