

FLT ID: <u>1950829</u>	FM: <u>TBPB</u>	TO: <u>TISX TISX</u>
FLT NO: <u>95-060</u>	BLK IN: <u>0624</u>	ATA: <u>0619Z</u>
ETD: <u>2100Z</u>	BLK OUT: <u>2050Z</u>	ATD: <u>2059Z</u>
ETE: <u>11</u>	BLK TIME: <u>9:34</u>	FLT TIME: <u>9:20</u>
SPONSOR ORG: <u>HRD</u>	PROGRAM: <u>HELEN RESEARCH</u>	PURPOSE: <u>VME on H-IRIS</u>

DAO PERSONNEL

AC <u>KENNEDY</u>	SYS ENG
CP <u>PLAYER</u>	DATA SYS <u>LYNCH</u>
NAV <u>KOZAK</u>	RADAR
FE <u>MOORE / BAST</u>	BT/ODW <u>MCMILLAN</u>
RADIO <u>SANS. SOURCE</u>	CLD PHYS <u>BRADY-BERGUES</u>
FD <u>DAMIANO</u>	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
<u>CLOSSER</u>	<u>MECH</u>	<u>AOC</u>
<u>MCFADDEN</u>	<u>??</u>	<u>AOC</u>
<u>MARKS</u>	<u>HRD</u>	
<u>FRANKLIN</u>		
<u>GRIFFIN</u>		
<u>KAPLAN</u>		
<u>LEIGHTON</u>		

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)			
220920 first abo cld	2322Z <u>NYBRF</u>	AF fix	
2321Z <u>NY2RF</u>	2335' <u>9</u>	2315Z	
2324' <u>NY</u>	6207' <u>9</u>	230231	
6209' <u>0053Z</u>	0137Z <u>9</u>	62007'	
2335Z <u>2330'</u>	2336' <u>9</u>	76KTS	
2329' <u>6206'</u>	6202	976 SUND E	
6210' <u>0138Z</u>	0206Z <u>NY2RF</u>	2331' <u>0057Z</u>	
	2335' <u>2338'</u>	6202	
	6202' <u>6158'</u>	75KTS W	
0045Z <u>DN2 out</u>	0302Z <u>NY2RF</u>	971 EXTRAP	
0050Z <u>BAL ONI</u>	0433Z		
0130Z	2341		
	6156		
	918AB		
	2323Z <u>LIGHTNING STRIKE A/C</u>		

OVER

5

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

FLT ID: *1950829* TIME OFF: *2059Z* TIME ON: *0619Z*

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	<i>1006.0</i>		<i>1010.5</i>	

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

1

FAST FLT LVL TAPES

RADAR TAPES

2

DOPPLER TAPES

ODW CASSETTES

9

HARD COPIES

*PMS**2*

AXB T

AXCP

ODW

22

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

Took a hit from lightning during first penetration of the storm. Decided to be at 14K feet when for following penetrations.

*55019**2304Z**0437Z**1437Z*

NOAA • AOC • SED Flight Performance Log

Aircraft : N43RF

Project: Hurricane '95

Mission : IRISSED Crew: Lynely Pradas, McMillianFlight ID : 950829IPre-Flight: 18:24Take-Off: 2050Landing: 06:19

System			Pre-Flight	In-Flight	Post-Flight		
NAV	INE #1 18:24	Aligned to : <u>5</u>	✓ TL		+0.4	+5.2	<u>2</u>
	INE #2 18:24	Aligned to : <u>0</u>	✓ TL		+5.2	+0.2	<u>9</u>
	GPS 18:24		✓ TL		Lat	Long	GS
RADAR	Nose		✓ TL				
	L/F	R/T SN : <u>103</u>	✓ TL		Mod Switch Off ? ✓		
	Tail	R&T SN : <u>202/201</u>	✓ TL		Mod Switch Off ? ✓		
	ASAU's & RCU		✓ TL				
	MARS Data System		✓ TL		# DATs : <u>2</u>		
PMS	2DG-C	Ch 1/64: <u>1</u>	✓ STM				
	2DG-P	Ch 1/64: <u>1</u>	✓ STM				
	FSSP	Ref VDC: <u>8.4</u>	✓ STM				
	SEA Data System		✓ STM		# DATs : <u>2</u>		
TEMP	Cal High	Cal Low			Cal High	Cal Low	
	Temp #1	<u>30.7</u>	<u>-30.2</u>	✓ TL		<u>30.7</u>	<u>-30.2</u>
	Temp #2			✓ TL			
	Temp #3 (Starboard)			✓ TL			
	Dewpoint #1			✓ TL			
	Dewpoint #2			✓ TL			
PRES	Attack Angle (AP/DAP)		✓ TL				
	Slip Angle (BP/DBP)		✓ TL				
	Differential (PQ1/PQ2/PQ3)		✓ TL				
	Absolute (PS1/PS2)		✓ TL				
	Radome Transducers		Plugs Out <u>0</u> ✓ TL				
FLTL	Cabin Transducer (Station 5)		✓ TL				
	Apn-159	SN: <u>06-02A</u>	✓ TL				
	Apn-232	SN: <u>1699</u>	✓ JCB				
	King Liquid Water		NI				
	J&W Liquid Water		✓ STM				
LV	Down PRT-5 (SST)		✓ TL				
	Side PRT-5 (CO ₂)		✓ TL				
	RAMS Data System		✓ JCPB		# DATs : <u>1</u>		
	ASDL		✓ JCPB				
	Exterior Walk Around		✓ STM		STM		
MISC	Video	<u>(N) (L) (R) D</u>	✓ JCPB	<u>(2) (A)</u>			
	AXBT	<u>0</u>	# on Board <u>NU</u>	# Dropped: <u>—</u>	# Good <u>—</u>		
	ODW	<u>39</u>	# on Board : <u>STM</u> <u>(1)</u>	# Dropped : <u>22</u>	# Good : <u>17?</u>		
	FCU	<u>A-B-C-D</u>	✓ STM				
USER	Charge Probe		NU		Accelerometers		
	Formvar		NU		#1 (2 G) : <u>8150</u>		
	Field Mills	<u>(1) (R) (U) (D)</u>	✓ TL		#2 (2.5 G) : <u>6684</u>		
	Lawrence Water Collector		NI		#3 (3 G) : <u>5967</u>		
	HRD Workstation		???		#4 (3.5 G) : <u>2892</u>		

Please Note any Discrepancies

[illegible]

H. IRIS VME

FLIGHT #03 I950829

TYPE OF DATA

SENSOR OR OPTION

INE	1
Accelerometer	1
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 were no time/data gaps.

Dewpoint temperature #1, DW1, behaved erratically throughout the flight especially during the time frame, 0420Z - 0455Z. Values from DW2 were substituted for DW1 during this period. The DW1 instrument was balanced during the following time frames:

0048Z - 0053Z
0128Z - 0131Z

The erroneous values generated by this activity were removed and patched.

Total temperature #1, TT1, iced up during the frame 2322Z - 2326Z. 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	1006.0mb	1010.5mb
Corrected tower pressure	1006.3mb	1010.0mb

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

I 950829

NO DATA GAPS

RENAU INE1

212200, -.3, .5
222200, -1.2, -.2
232200, -2.5, 1.1
002200, -2.7, 1.1
012200, -3.9, 1.1
022200, -3.3, 3.8
032200, -2.8, 3.4
042200, -3.3, 4.4
052200, -1.9, 4.5
062100, .4, 5.2

PSF + PSW check + other variables
experienced a dropout

021130

DAP OK

~~2324~~ ~~0425~~ 0
1 0122-0132, 0140, 0211
~~0250~~ ~~0335~~ ~~0342~~, ~~0409~~, ~~0413~~ ~~0423~~
~~0458~~ ~~0502~~, 0506-0517, 0530-0558
0549, 0553 - 0605

TT1 fix with TT3
2322-2326

TF1 ~~2354~~ ~~002100~~, 0313,
~~0457~~, ~~0517~~ 0457-0517

DW1

BAL 0048-0053

11-38
PATCH 015

0128-0131

23-38

DW1 = DW2

0420 - 045500

W2 check
2316-2326

BPF 001330, 0129, 0139, 0152,
0223, 0309, 0347, 0403,

BPR 011830 TCEU UP

RA159 = RA132

2058-2101

061830-0622

2235-2242 GPS RA check

I950829

TIME	LAT	LOX	TRK	HD	WD	WS	PA	GA	TH	TD	SP	PS		PQ
210000	1305	5926	74	80	151	10	478	514	24.4	20.6	1014.1	945.6	CLR	57.2
211900	1406	6001	324	337	114	9	4789	5079	.2	-7.4	1009.1	553.2	CLR	57.2
213000	1449	6024	335	337	119	9	5513	5844	-2.9	-17.4	1005.9	504.2	CLR	77.0
215400	1629	6127	333	333	225	5	5510	5795	-3.1	-17.6	1005.5	504.4	CLR	76.4
220700	1727	6151	352	350	261	12	5511	5843	-3.3	-16.4	1006.8	504.5	CLR	78.2
222100	1836	6201	350	348	244	17	5507	5837	-3.9	-12.3	1007.9	504.4	CLD BLW	80.0
224208	2022	6210	359	355	244	31	5506	5821	-4.0	-17.0	1007.1	504.6	Good (ODW)	79.1
225438	2123	6209	0	335	253	31	5505	5806	-4.3	-11.3	1005.6	504.8	Good (ODW)	
230900	2233	6205	9	359	267	57	5516	5769	-2.5	-5.3	994.4	503.9	Good (ODW)	72.2
233235	2402	6224	221	221	60	30							Good (ODW)	
234525	2311	6300	92	85	342	42			-2.1	-6.3		504.1	Good (ODW)	
235100	2311	6231	82	74	326	44	5512	5740	.8	-6.4	994	504	Good (ODW)	69.6
000539	2318	6110	129	142	210	52	5522	5811	-3.2	-4.5	996.4	503.5	Good (ODW)	67.5
001748	2250	6023	129	138	211	38	5524	5824	-4.1	-8.5	1003.6	503.3	Good (ODW)	69.4
003153	2217	5933	0	356	220	37	5523	5843	-3.9	-21.1	1006.9	503.4	Good (ODW)	67.8
005320	2405	5934	0	2	176	27	5522	5840	-4.6	-12.8	1007.7	503.6	Good (ODW)	64.5
010327	2451	5940	241	237	162	27	5522	5841	-4.3	-8.5	1006.4	503.6	Good (ODW)	70.4
011635	2421	6035	240	239	147	33	5522	5823	-3.5	-10.6	1002.9	503.9	Good (ODW)	66.7
015350	2258	6246	104	99	100	100	4291	4470	4.8	3.9	998.5	593.5	Good (ODW)	74.7
020653	2259	6159	329	320	271	56	4290	4432	7.5				Good (ODW)	
023058	2134	6220	8	17	82	37	4273	4466	4.4	1.7	1001.8	595	Good (ODW)	76.0
024237	2523	6213	7	14	76	29	6109	6457	-7.2	-11.3	1002.2	465	Good (ODW)	71.5
025347	2606	6216	242	242	70	20	6109	6469	-5.5	-21.9	999.9	465	BAD (ODW)	72.4
025941	2552	6245	241	243	51	22	6109	6466	-5.7	-21.4	1000.1	465	Good (ODW)	75.3
031500	2513	6404	241	245	22	24	6108	6471	-6.5	-21.7	1002.9	465	Good (ODW)	73.1
032343	2449	6438	116	112	6	28	6107	6466	-7.4	-22.5	1005.6	465	Good (ODW)	73.6
033524	2424	6340	115	110	9	32	6106	6450	-6.3	-21.3	1000.9	465	Good (ODW)	73.9
041149	2325	6100	347	341	208	47	4302	4461	3.9	4.4	997.2	594	BAD (ODW)	80.5
042805	2414	6133	215	207	131	48	4244	4420	4.6	7.2	992.8	594	Good (ODW)	74.0
044842	2256	6228	248	259	311	50	5449	5720	-3.0		990.9	503.6	Good (ODW)	58.9
050236	2238	6328	250	256	305	27	6406	6766	-9.0	-20.2	1001.7	446.1	Good (ODW)	67.6
051400	2220	6427	253	256	288	15	6406	6777	-8.4	-20.0	1002.9	446.1	Good (ODW)	77.5
054200	2011	6442	181	185	270	18	6405	6787	-9.2	-23.6	1005.4	446.3	Good (ODW)	76.6

DATE : 8/29/95

TO : Chief, AOC Flight Operations

FROM : Pilot/Flight Director, Aircraft

ON 0624Z BLOCKTIME

N43RF

OFF 2050Z 9:34

SUBJECT: Hazardous Duty

PURPOSE OF FLIGHT: ~~FOR~~ HURRICANE RESEARCH IN H. IRIS

Hazardous Duty Pay is required for flight made on 8/29/95
(DATE)

Request based on FLYING INTO H. IRIS

Personnel on board authorized Hazard Pay:

BAST

MOORE

DAMIANO

LYNCH

SAN'S SOU CI

McMILLAN

PRADAS-BERGUES

CLOSSER

McFADDEN

PILOT/FLIGHT DIRECTOR:

Ar. Barry Damiano

APPROVED:

DISAPPROVED:

CHIEF, AOC FLIGHT OPERATIONS:



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Rockville, MD 20852-3019

OFFICE OF NOAA CORPS OPERATIONS

Aircraft Operations Center
P.O. Box 6829
Tampa, Florida 33608-0829

MEMORANDUM FOR: DR. HUGH WELLOUGHBY, ACTING DIR. HRD

FROM: CAPT George C. Player III, NOAA
Acting Director, Aircraft Operations Center

SUBJECT: Hazard Duty Flight

The mission flown on AOC aircraft # N432F on 8/29/95
has been declared hazardous. The following personnel from you
laboratory participated in this mission.

MARKS KAPLAN
FRANKLIN LEIGHTON
GRIFFIN

For purposes of computing allowable hazard duty time, the hazard
period during this mission was from 5 pm local time on
8/29/95 until 2:30 AM on 8/30/95.



2 P-456

INS PERFORMANCE		INS 1	INS 2
BEGIN ALIGN TIME		1715	1715
ALIGN STATUS (0-5)		5	0
END NAV TIME		0625	0625
START NAV TIME		2045	2045
DELTA T		9440	9440

TERMINAL ERRORS		
	INS 1	INS 2
DELTA LAT	+4	-5.2
DELTA LON	+5.2	-1.2
RCS	2	9
RADIAL ERROR		

[illegible][illegible]