

FLT ID: <u>I950827</u>	FM: <u>TBPB</u>	TO: <u>TBPB</u>
FLT NO: <u>95-059</u>	BLK IN: <u>0039Z</u>	ATA: <u>0036</u>
ETD: <u>1600Z</u>	BLK OUT: <u>1554Z</u>	ATD: <u>1603Z</u>
ETE: <u>11</u>	BLK TIME: <u>8:45</u>	FLT TIME: <u>8:33</u>
SPONSOR ORG: <u>HRD</u>	PROGRAM: <u>HRON RESEARCH</u>	PURPOSE: <u>T.S. IRTS</u>

OAD PERSONNEL

AC <u>KENNEDY</u>	SYS ENG
CP <u>PLAYER</u>	DATA SYS <u>LYNCH</u>
NAV <u>KOZAK</u>	RADAR <u>PRADAS-BERNES</u>
FE <u>BAST</u>	BT/ODW <u>McMILLAN</u>
RADIO <u>SANS SOUET</u>	CLD PHYS
FD <u>DAMIANO</u>	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAD

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
<u>WILLOUGHBY</u>	<u>PI</u>	<u>HRD</u>
<u>MARKS</u>	<u>OBS</u>	
<u>FRANKLIN</u>	<u>OBS</u>	
<u>GRIFFIN</u>	<u>WORKSTATION</u>	
<u>LEIGHTON</u>	<u>RADAR</u>	

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PROPOSED/ACTUAL	MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)
<u>1706Z</u>	<u>1724Z</u> <u>N42RF had 700mb center 1715Z</u>
<u>16°48'</u>	<u>DW1 fuse up</u>
<u>61°48'</u>	<u>1759Z TT2 COLDER</u>
<u>at 570mb</u>	<u>1954Z →</u>
	<u>192546 SYSTEM CRASH</u>
	<u>2020 BAL DPT</u>
<u>AF fix 1741Z</u>	
<u>16°56'</u>	<u>2048Z</u>
<u>61°47'</u>	<u>17°20'</u>
<u>995mb</u>	<u>61°40'</u>
<u>from SK ft</u>	<u>at 570mb</u>
<u>2347Z</u>	<u>2319Z</u>
<u>17°39'</u>	<u>17°34'</u>
<u>61°59'</u>	<u>62°03'</u>
<u>993mb</u>	<u>at 570mb</u>
<u>from SK</u>	

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U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2 FILE

FLT ID: I950827

TIME OFF: 1603Z

TIME ON: 0036Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1006.5	1006.0	1006.5	

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

1

FAST FLT LVL TAPES

RADAR TAPES

2

DOPPLER TAPES

ODW CASSETTES

4

HARD COPIES

~~ODW~~ PMS

2

AXBT

AXCP

ODW

5

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

NOAA • AOC • SED Flight Performance Log

Aircraft : N43RF

Project: Hurricane '95

Mission : IRIS

SED Crew: The Good, The Bad and The UglyFlight ID : 950827IPre-Flight: 14:00Take-Off: 16:03Landing: 00:35

System			Pre-Flight	In-Flight	Post-Flight		
NAV	INE #1	Aligned to : <u>5</u>	✓ JCPB		+5.1	-2.2	4
	INE #2	Aligned to : <u>0</u>	✓ JCPB		-2.2	-1.6	8
	GPS		✓ JCPB		Lat	Long	GS
RADAR	Nose		✓ JCPB				
	L/F	R/T SN : <u>103</u>	✓ JCPB		Mod Switch Off ? ✓		
	Tail	R&T SN : <u>202/201</u>	✓		Mod Switch Off ? ✓		
	ASAU's & RCU		✓	①			
PMS	MARS Data System		✓		# DATs : <u>2</u>		
	2DG-C	Ch 1/64: <u>1</u>	✓ TL	②			
	2DG-P	Ch 1/64: <u>1</u>	✓ TL	③			
	FSSP	Ref VDC: <u>8.6</u>	✓ TL				
	SEA Data System		✓ TL		# DATs : <u>2</u>		
TEMP		Cal High	Cal Low		Cal High	Cal Low	
	Temp #1	<u>30.6</u>	<u>-30.3</u>	<u>29.7</u> ✓ TL			
	Temp #2			<u>29.8</u> ✓ TL			
	Temp #3 (Starboard)			<u>34.</u> ✓ TL			
PRESS	Dewpoint #1		✓ TL				
	Dewpoint #2		✓ TL				
	Attack Angle (AP/DAP)		✓ TL				
	Slip Angle (BP/DBP)		✓ TL				
SENS	Differential (PQ1/PQ2/PQ3)		✓ TL				
	Absolute (PS1/PS2)		✓ TL				
	Radome Transducers		Plugs Out ? <u>①</u> ✓ TL				
	Cabin Transducer (Station 5)		✓ TL				
FLTL	Apn-159	SN: <u>66-024</u>	✓ TL				
	Apn-232	SN: <u>1699</u>	✓ TL				
	King Liquid Water		NI				
	J&W Liquid Water		✓ TL				
LV	Down PRT-5 (SST)		STM				
	Side PRT-5 (CO ²)		STM				
	RAMS Data System		✓ JCPB		# DATs : <u>1</u>		
	ASDL		✓ JCPM				
MISC	Exterior Walk Around		✓ TL				
	Video	<u>(N) (L) (R) D</u>	✓ TL				
	AXBT	<u>31</u>	# on Board <u>NU</u>	# Dropped: <u>—</u>	# Good: <u>—</u>		
	ODW		# on Board: <u>✓ 2</u>	# Dropped: <u>5</u>	# Good: <u>5</u>		
USER	FCU	<u>A-B-C-D-</u>	STM				
	Charge Probe		NU		Accelerometers		
	Formvar		— NU —		#1 (2 G): <u>8150</u>		
	Field Mills	<u>(L) (R) (U) (D)</u>	✓ TL		#2 (2.5 G): <u>6684</u>		
	Lawrence Water Collector		NI		#3 (3 G): <u>5967</u>		
	HRD Workstation		<u>OK (They said)</u>		#4 (3.5 G): <u>2892</u>		

[illegible]

T. S. IRIS Cyclogensis

FLIGHT #02 I950827

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 was one time/data gap: 190641Z - 190710Z

Dewpoint temperature #1, DW1, appeared to be overcome by precip during the following time frames:

1716Z - 1724Z
2018Z - 2023Z
2316Z - 2326Z

The erroneous values generated from this activity were removed and and patched over.

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	1006.5mb	1006.5mb
Corrected tower pressure	1006.0mb	1006.0mb

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

I 950827

RENAVINE 1

173800, .1, .7
183800, 1.0, .3
193800, 2.6, 0.
203800, 3.2, -.1
213800, 3.5, -.1
223800, 3.9, 1.6
233800, 3.9, 0
003800, 5.1, -2.

Pitch spike (INE1)

0016 - 0018 Fixed

WZ check

1800 - 1815

DATA GAPS

190641 - 190710

RA159 fix

1603 - 1605

003530 - 003800

Fix DPT

2018 - ~~2022~~
- 2023

30-36
Patch
.15

~~DPT check~~

1716 - 1724

~~1710 - 1725~~

2316 - 2326 big patch

T950827

TIME	LAT	LOX	TRK	HD	WD	WS	PA	GA	TA	TD	SP	PS		Pd
160500	1303	5934	260	256	200	25	523	593	23.3	20.4	1014.8	931.2	CLDS	63.8
161400	1331	5958	321	316	214	25	3882	3574	6.6	7.1	1011.0	650.0	RW	59.7
162300	1359	6021	321	316	218	24	4546	4806	.8	.1	1008.4	572.0	CLD	56.7
163800	1451	6106	321	317	242	26	4603	4839	.3	1.6	1006.8	570.3	RW	68.0
165100	1544	6130	345	338	246	37	4589	4815	.8	.7	1004.6	570.3	CLD	71.6
170300	1635	6144	345	341	255	25	4603	4785	1.6	.9	998.5	569.7	CLD	77.4
171900	1646	6054	108	116	190	37	4595	4807	1.0	X	798.5	570	RW	74.3
173900	1649	5921	90	98	171	28	4595	4838	.2	-1.5	1008.4	570.1	RW	69.4
174800	1649	5839	92	100	164	29	4593	4840	.8	-1.8	1007.5	570.3	CLD	71.1
180600	1644	5719	93	97	159	11	4593	4849	.8	2.3	1008.0	570.5	RW	76.0
181810	1641	5633	229	227	168	18	4591	4854	1.2	-1.9	1008.7	570.4	Good ODW	70.7
182700	1613	5700	223	220	170	20	4593	4851	1.4	-4.7	1009.0	570.5	RW	71.1
184800	1504	5806	216	214	165	17	4597	4848	1.8	-8.3	1007.2	570.0	CLR	72.6
185900	1430	5839	222	220	179	20	4597	4852	2.3	-9.3	1006.5	569.9	CLR	74.2
190922	1358	5909	221	219	183	24	4599	4849	.5	-3.0	1008.8	571.0	Good ODW	76.8
192100	1327	5948	241	238	202	26	4595	4847	1.2	-2.6	1007.5	570.0	CLD	78.3
193200	1304	6030	241	239	190	20	4596	4850	.6	-3.1	1008.5	570.1	CLD	77.7
194824	1236	6131	3	2	201	22	4595	4847	.1	-2.8	1009.3	570.1	Good ODW	69.7
200700	1404	6131	0	358	233	18	4603	4842	-0.1	-2.4	1008.4	569.5	RW	72.9
201900	1500	6131	0	357	250	23	4604	4840	.5	-4.6	1006.2	569.5	CLD ABV	79.5
203400	1610	6130	0	355	254	30	4594	4801	1.7	-0.4	1001.6	570.3	GUABLOPE	71.4
204400	1656	6131	351	345	231	40	4591	4780	1.2	.7	1000.1	570.4	CLDS	72.3
210400	1832	6131	3	8	137	22	4588	4810	.4	1.9	1005.2	570.4	RW+	73.3
212100	1948	6130	2	6	47	16	4595	4831	2.7	-5.6	1005.1	570.7	BTN CLD	70.6
213100	2032	6129	1	7	72	25	4585	4833	.5	-2.3	1009.1	570.8	BTN CLD	72.8
214532	2129	6134	219	218	97	12	4587	4838	1.8	-16.1	1007.6	570.8	Good ODW	71.4
215400	2100	6200	220	220	102	9	4586	4836	.8	-5.7	1008.6	570.7	CLD ABV	74.3
220500	2019	6236	219	220	56	11	4585	4832	.7	-4.1	1008.6	570.7	BTN CLD	75.2
222400	1909	6340	220	221	32	17	4586	4829	1.7	-3.7	1005.9	570.8	CLD BLW	77.2
223700	1821	6425	220	221	34	14	4586	4830	1.7	-4.5	1006.1	570.6	CLD	76.6
224818	1741	6430	96	94	44	19	4587	4828	.9	-0.7	1006.7	570.8	Good ODW	74.3
225900	1732	6340	96	91	26	28	4907	5166	-0.6	-5.0	1005.5	547.0	CLD	88.1
230700	1733	6303	90	85	3	30	4585	4813	2.4	-5.0	1002.8	570.0	DARK	79.1
233000	1657	6135	152	162	246	38	4604	4830	1.5	.8	1003.3	569.3	=	62.8
000600	1440	6024	153	158	200	23	4599	4865	.4	-2.3	1010.8	569.8	=	67.6
001900	1350	5957	152	155	185	20	4600	4870	1.0	-3.1	1009.7	569.8	=	73.4



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 WILLOUGHBY, ACTING DIR. H&D

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

SUBJECT: Hazard Duty Flight

The mission flown on AOC aircraft # N43RF on 8/27/95 has been declared hazardous. The following personnel from your laboratory participated in this mission.

WILLOUGHBY LEIGHTON
MARKS
FRANKLIN
GRIFFIN

For purposes of computing allowable hazard duty time, the hazard period during this mission was from NOON local time on 8/27/95 until 8:45pm on 8/27/95.



DATE : 8/27/95

TO : Chief, AOC Flight Operations

FROM : Pilot/Flight Director, Aircraft N43RF ON 0039Z BLOCKTIME
OFF 1554Z 8:45

SUBJECT: Hazardous Duty

PURPOSE OF FLIGHT: HURRICANE RESEARCH ON T.S. IRIS

Hazardous Duty Pay is required for flight made on 8/27/95
(DATE)

Request based on FLYING INTO CENTER OF
T.S. IRIS

Personnel on board authorized Hazard Pay:

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

PILOT/FLIGHT DIRECTOR: A. Barry Damiano

APPROVED: _____ DISAPPROVED: _____

CHIEF, AOC FLIGHT OPERATIONS: _____

DATE OF TAKEOFF 8-27-95

TERMINAL ERRORS		
	INS 1	INS 2
DELTA LAT	45.1	-2.2
DELTA LON	-2.2	-1.6
RGS	4	8
RADIAL ERROR	6	3

[illegible]

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
AIRCRAFT OPERATIONS CENTER