

19940822IL FDIR

DUST FRONT/ FERRY TO MIAMI

FLIGHT #01 I940822

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	CO3943.CON

Notes:

There were no time/data gaps.

The fuselage static pressure sensor, PSF, experienced an electronic dropout during the time frame 183530Z - 183730Z. This dropout was removed and patched.

The fuselage dynamic pressure sensor, PQF1, experienced electronic dropouts during the following time frames:

1557Z - 1601Z
1750Z - 1752Z
1754Z - 1756Z
1824Z - 1826Z
1830Z - 1834Z

These dropouts were removed and patched.

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.

	Takeoff -----	Landing -----
Aircraft static pressure	1015.5mb	1014.3mb
Corrected tower pressure	1016.2mb	1014.5mb

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

FLT ID: I940822	FM: SJU	TO: MCF
FLT NO: 94-024	BLK IN: 1852Z/1956	ATA: 1847Z/1949Z
ETD: 1600Z	BLK OUT: 1520Z/1900Z	ATD: 1528Z/1908Z
ETE:	BLK TIME: 3:32/:56	FLT TIME: 3:19/:41
SPONSOR ORG: HRD	PROGRAM: HURRICANE RESEARCH	PURPOSE: Ferry & MIA/MCF

OAO PERSONNEL

AC McKIM	SYS ENG LYNCH
CP KENNEDY	DATA SYS PRADAS-BERGUES
NAV RATHBUN	RADAR BARR
FE BAST/MOORE	BT/ODW McNAMARA
RADIO SAN SOUJI	CLD PHYS
FD DAMIANO	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
CLOSSER	MELH	AOC
WILLOUGHBY		HRD
ABERSON		
GRIFFIN		

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

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OADWF2 FILE

FLT ID: *I940822*TIME OFF: *1528Z/1908*TIME ON: *1847Z/1949Z*

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	<i>1015.5</i>	<i>30.021/1016.2</i>	<i>1013.4</i>	<i>29.98/1014.5</i>

NO *29.97* DATA DISPOSITION/DATE/QUALITY *29.97*

1/SEC FLT LVL TAPES

1

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

AXBT

AXCP

ODW

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

1623-1643 Look at DPTs. as we fly through dust layer.
1645Z *thin* *old* *alv*

1833 check TT's*1838*

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION SAN JUAN → OPALOCKA → MACDILL	DATE	PROJ. NAME T.S. CHRIS TRANSIT		
CAPT MCKIM	LT RATHBUN	N43RE	94-24	1527		22 JUL 94			
TIME OF ENTRY	POSITION	TYPE INE USED	INE #1 POSITION	LAT LON COR'S	INE #2 POSITION	LAT LON COR'S	ALT GS	TH TK	REMARKS
1517	695								ENGINE START
1520									FARE
1527									TAKE OFF
	1950.5		1950.6	-1	1950.5	0	100	295	
1601	6819.0		6819.2	-1.2	6818.6	+1.4	334	295	
	2129.6		2128.6	+1.0	2128.9	+1.7	100	298	
1642	7114.1		7114.0	+1	7113.6	+1.5	278	299	
	2253.8		2253.9	-1	2254.9	-1.8	100	299	
1720	7359.5		7359.5	0	7358.6	+1.9	274	299	
	2439.4		2437.4	+2.0	2439.2	+1.2	220	306	
1503	7708.8		7708.2	+1.6	7707.5	+1.3	304	308	
1847									LAND OPA LOCKA
1907									TAKE OFF
	2713.0		2708.8	+4.2	2714.2	-1.2	↓	306	
1935	8153.7		8153.8	-1	8152.2	+1.5	303	308	
	2751.6		2747.9	+3.7	2753.9	-2.3			
1949	8230.7		8230.7	0	8229.2	+1.5			LAND

ATC CLEARANCE:

ENROUTE CLEARANCES:

ASSS Bimini → AERIAL INTERSECTION

TYPE OF FIX: (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN (6) RADAR (7) DOPPLER - INERTIAL
(8) OMEGA (9) INERTIAL (10) OMEGA - INERTIAL

FLIGHT PLAN

PROPOSED T.O.

ACTUAL T.O.

WAY POINT	TO	RTE	ALT	TAS	TC	W	V	TH	VAR	MH	GS	ZONE DIST	TOTAL DIST	ZONE TIME	PROPOSED ETA	ETA
						DC								TOTAL TIME		ATA
1	N 1826.9 W 8559.4 SAN TUNN															
2	N 1859 W 8632 TARUS															
3	N 1941 W 8717 UTAH5															
4	N 2001 W 8849 HARDY															
5	N 2126.4 W 7108.8 GRAND FURK															
6	N 2309 W 7423 INDER															
7	N 2334.9 W 7515.8 STELLA MARIS															
8	N 2357 W 7600 GEROT															
9	N 2430 W 7708 RESIN															
1	N 2542.1 W 7917.1 BIMINI															
2	N 2557.8 W 8027.6 MIAMI															
3	N 2551 W 7937 DEKAL															
4	N 2554.4 W 8016.8 OPALOCRA															
5	N 2557.8 W 8027.6 MIAMI															
6	N 2610 W 8042 HAMME															
7	N 2625 W 8056 WINCO															
8	N 2649.7 W 8123.5 LABELLE															
9	N 2754.5 W 8241.1 STPETH															
10	N 2751.0 W 8231.3 MACDILL															

SYS	BEGIN ALIGN TIME	NCS CONN	Ω AID	TIME OUT OF COARSE ELAPSE ALIGN POST TIME	ALIGN STS 0-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	ΔT (2)(1)	TERMINAL ERRORS		
									LAT	LONG	GS
INS 1	1425 Z				2	1517	1949	4432	+3.7	0	0
INS 2 IMU	1425 Z				5	1517	1949	4432	-2.3	+1.5	3

ALIGN REMARKS:

OTHER REMARKS:

RWY 22 N 2751.55 223.5 1949 RWY 4 N 2750.4
HT 14 W 8230.70 1517 W 8231.85 043.5 HT 14
4432

I940822

TIME	LAT	LONG	TRK	HD	WD	WS	PA	GA	TA	TD	QSP	PS		PQ
153500	1845	6619	314	317	109	23	2910	3131	11.2	1.2	1016.2	703.4	HAZE	64.3
154800	1916	6709	294	296	354	7	5513	5869	-6.9	-16.8	1018.4	504.4	HAZE	75.0
155500	DOWN TO 10K TO Look at dust boundary													
160500	1958	6837	293	292	133	11	3054	3271	11.1	-4.5	1016.2	690.0	HAZE	118.1
162300	2041	6952	303	302	157	12	3054	3265	10.3	-1.7	1016.3	696.3	HAZE	75.2
163120	2103	7026	302	301	153	9	3053	3262	10.0	-3.9	1016.9	696.5	HAZE+CLD	86.3
164400	2133	7121	299	298	168	10	3051	3259	9.2	3.6	1017.2	696.6	HAZE	87.5
170100	2212	7235	300	298	170	11	3050	3253	10.3	-7.1	1016.1	696.6	SCT	87.1
173500	end 10K Look at dust boundary													
181100	2459	7746	248	296	237	12	6743	7145	-16.5	-26.8	1020.1	425.7	CLD BLW	78.6