19930930I1-FDIR

CLOUDS and CLIMATE

FLIGHT #01 OF 01 I930930 (AREA S. KNQX/ANDROS IS.)

TYPE OF DATA	SENSOR OR OPTION
INE	2
Accelerometer	2
Temperture probe	TT1
Altitude change option (for vertical winds)	RA (APN-159)
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage(1221)
Time 1ource	Micro 29
Constants file	CO3931.CON

Notes:

THIS FLIGHT WAS RENAV'D UTILIZING GPS POSITIONS.

OCCASIONAL DEWPOINTER WET-BULBING DOES OCCUR ON ANY GIVEN FLIGHT WHEN IN VERY MOIST CONDITIONS.

THERE WERE NUMEROUS DATA GAPS AT THE FOLLOWING TIMES:
184030Z; 190400Z; 191600Z; 191730Z - 192030Z; 192130Z - 192415Z; 192730Z - 192815Z; 203030Z - 203545Z; 204000Z; AND 213830Z - 214245Z.

LU8 WAS DOWN HARD WHILE IN MIAMI, THEREFORE - LU9 WAS UTILIZED THROUGH-OUT THE FLIGHT FOR FAST/SLOW TAPES. SLOW TAPE COPIED TO A MERGED TAPE HERE AT AOC, SO AM SENDING FAST TAPE(S) TO YOU ALONG WITH "STANDARD" TAPE AND P/O...

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 (KMCF)	LANDING (KMIA)
AIRCRAFT STATIC PRESSURE	1020.6mb	1014.5mb
AIRCRAFT SURFACE PESSURE	1020.3mb	1014.9mb
CORRECTED TOWER PRESSURE	1019.0mb	1014.2mb

FLIGHT METRO: PHILIP D. BOGERT,esq.

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 OAOWF1 FILE

FLT ID: 930930I	FM: KMCF	TO: KMCF VIA KMIA
FLT NO: 93-071	BLK IN: 1450Z / 2250Z/00B	ATA: 1450Z / 2245Z/0003Z
ETD: 1330Z	BLK OUT: 1340Z 1629Z	ATD: 1352Z / 1630Z
ETE: 8+00	BLK TIME: 11.2 HRS	FLT TIME: 8.2 HRS
SPONSOR ORG: HRD	PROGRAM: Hu. Res.	PURPOSE: CLDS / CLIMAT

OAO PERSONNEL

AC	PHILLIPSBORN ✓	SYS ENG	ROCES ✓
CP	JENNESEN ✓	DATA SYS	BARR ✓
NAV	KOZAK ✓	RADAR	McMILLAN ✓
FE	BAST ✓ / MOORE ✓	BT/ODW	HANCHETT ✓
RADIO		CLD PHYS	
FD	BOGERT ✓	DOPPLER	

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
McFADDEN ✓	?	AOC
~~FIELDS G.~~ ✓	~~TV ANCHOR/CHNL 8~~	~~WTKA~~
BERGLUND, LISA ✓	PHOTO "	WFLA
MARKS ✓	API	HRD
B. BLACK ✓		"
Willis ✓	PI	"
N. Bond ✓		"
S. ABERSON ✓	P. DODGE ✓	" (19 SOB.)

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

CLDS / CLIMATE w/ HRD SE of KMIA VCNTY
ANDROS ISLAND — KNQX.

*LU 8 ↓ HARD.
BOTH SLOW/FAST ON LU-9 *

T.O. ALT 3013 / 1019.0
PS - 1020.6 mbs
SP - 1020.3

T.O. KMIA
ALT - 3005 / 1017
PS -
SP - ✓

→ Land KMIA
ALT - 2998 / 1014.2mb
PS - 1014.5
SP - 1014.9

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

FLT ID: 930930T TIME OFF: 1352Z TIME ON: 0003Z

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

	NO	DATA DISPOSITION/DATE/QUALITY
1/SEC FLT LVL TAPES	2	
FAST FLT LVL TAPES	2	
RADAR TAPES	2	
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES	~~0~~ 1	
PMS DAT		
AXBT	~~0~~	
AXCP	~~0~~	
ODW	2	
LOD2	2	

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE					

REMARKS

.8 Form 413-50
2 - 63

930930I

Time	Lat		Long		TRK	WD	WS	PA	GA	TA	Td	SP	PS	
1406	27	08	82	25	156	018	21	2082	2210	13.4	-7.8	165	787.0	
1701	24	32	79	28	(ODW)	SONDE 1			TR	75?				
1702					(ODU2)	SNDE 2								
1707	NE TRK TURN													
1730Z	OSU TRK —				END									
1752Z	1650 TRK				END	1720Z								
1801	24	29	80	49	VAR	327	11	4917	5760	-4.4	-8.6	136	550.6	~TRK
1950	24	32	81	09	261	250	07	5223	5593	-6.4	-9.6	112	517.4	S. KEY
2008	24	47	79	16	107	005	09	5321	5591	-6.9	-9.9	124	517.4	CNR Andr
2153	23	57	78	14	161	218	10	5260	5578	-6.2	-9.0	115	522.0	
2207	23	56	78	28	OSU	LAST	Launched...			CNR	Miami			

NOAA FORM 56-49
(3-86)

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

FLIGHT PLAN

PROPOSED T.O.	1330
ACTUAL T.O.	1352

WAY POINT	TO	RTE	ALT	TAS	TC	W V DC	TH	VAR	MH	GS	ZONE DIST	TOTAL DIST	ZONE TIME / TOTAL TIME	PROPOSED ETA	ETA / ATA
1	SARASOTA														
2	CCF														
3	WURPP														
4	MIA														

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	G S
INS 1	1230				Ø	1331	1500	1+29	+1.0	-.6	0
INS 2 IMU	1230				Ø	1331	1500	1+29	-.3	+.4	0 ✓

ALIGN REMARKS:

OTHER REMARKS:

1500
1500.

Ø 1618 001 - 7+54 +5.6 -.8 Page 1 1

1 1618 001 - 7+54 +13.1 +3.5 6

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
P+11	Kozak	MBRF	93-71	1352	MCF	30SEP93	Hurricane Research

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
1331	2751.0N 8229.6W	VIS 1	✓		✓				Eng 1331 Taxi 1341 Off 1352
1451									Load MTA
1457	2548.7N 8017.4W	VB 1	2547.4N 8016.0W	+1.0 -.6	2546.7N 8017.0W	-.3 +.4			checks, Signature
1624	2548.4 8017.4W	VS 1	✓		✓				Blackout Signature
1630						↓			TOff Miami
1702	2427.4 7928.5W	GPS 1	2427.2N 7928.7W	+.2 -.2	2427.2N 7928.3W	+.2 +.2	16K 282	255 253	Lower USNW
24 1917 40	375N 46.1W	GPS 1	2436.7N 8046.9W	-1.0 -.7	2435.6N 8044.4W	+.7 +.7	18K 274	253 251	PDOP 2.3
2011	2404.0N 7904.0W	GPS 1	2402.2N 7904.6W	+1.8 -.6	2359.5N 7900.7W	+.5 +3.3	17.5K 286	107 106	PDOP 2.6
2112	2339.2N 7823.0	GPS 1	2336.0N 7823.0W	+3.2 ✓	2333.1N 7819.8W	+6.1 +3.2	17.5K 293	HUMP 292	PDOP 2.6
2206	2356.0N 7828.0W	GPS 1	2351.7N 7829.5W	+4.3 -.5	2346.9N 7824.3W	+9.1 +3.7	220 309	327 327	SUNS Lunch PDOP 2.4
2237	BIRD STRIKE						7K	270	BIRD @ 7K 2542N 8011W
2249	2548.4N 8017.5	VS 1	2543.9N 8018.1		2538.6N 8013.7W				BLOCK IN Signature Miami

ATC CLEARANCE: 1.0U 080 1.6DU 7.0CO 270.6 1311.2K 4522

(52)-(2651)

ENROUTE CLEARANCES: 2350 DU'N LUL - VPG - GIBBS

7814 with 0245

2435 8047 Hydraulics

2431 8058 130 1000

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

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
2258	2546.4N 8017.5W	VIS 1	9543.6N 8018.1W		2537.6N 8013.1W				BLOCK OUT SIGNOFF
2313									TOFF MIA
0012	2756.9 8229.6	VIS 1	27 45.3 8230.4	+.5.6 -.8	2737.8 8226.1	+1.3.1 +3.5			CHOCKS MCF