

19900930II-FDIR

CLOUD CLUSTERS

FLIGHT #2 I900930 N43RF

TYPE OF DATA	SENSOR OR OPTION
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INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 29
Constants file	CO3901.CON

Notes:

There were no data/time gaps.

The dewpoint sensor, TW1, behaved quite well throughout most of the flight. This flight director attempted to balance/calibrate the dewpoint sensor during the following time frames,

165300Z - 165600Z
170800Z - 171300Z

The spikes generated by the calibrations was removed and patched over.

The APN-232 radar altimeter had two spikes removed and patched over during the time frame, 002600Z - 002800Z.

The aircraft positions were renavigated with respect to good LORAN-C positions.

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.

	Take off	Landing
Aircraft static pressure	1018.1mb	1018.1mb
Corrected tower pressure	1017.4mb	1017.4mb

Flight meteorologist: A. BARRY DAMIANO

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

FLT ID: D900930	FM: KMTA	TO: KMTA
FLT NO:	BLK IN: 0125Z	RTA: 0109Z
ETD: 1500Z	BLK OUT: 1520Z	RTD: 1606Z
ETE:	BLK TIME: 10:05	FLT TIME: 9:03
SPONSOR ORG: HRD	PROGRAM: HURRICANE RESEARCH	PURPOSE: CLOUD CLUSTERS

OAO PERSONNEL

AC MLKIM	SYS ENG LYNCH
CP PHILIPPSBORN	DATA SYS WILLIAMS
NAV NOKUTIS	RADAR
FE FLEURY	BT/ODW PRADAS
RADIO	CLD PHYS
FD DAMIANO	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
BURPEE		HRD
MARKS		S
POWELL	PT	E
SCHADE		
MC FADDEN		AOC

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

1550Z
1450Z
TA 85 = 29.4
TD 73 = 22.8

LND 26.7
TA = 80 =
TD = 70 = 21.1

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 DROWF2 FILE				
FLT ID: I900930		TIME OFF: 1606Z		TIME ON: 0109Z
	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	PS 1017.5 SP 1017.8	30.03/1017.6	PS 1017.9 SP 1018.1	30.04/1017.6
NO DATA DISPOSITION/DATE/QUALITY				
1/SEC FLT LVL TAPES	1			
FAST FLT LVL TAPES				
RADAR TAPES	7			
DOPPLER TAPES				
ODW CASSETTES	4			
HARD COPIES				
AXBT				
AXCP				
ODW	5			
PHOTOGRAPHY				
	FWD	LS	RS	VERT
ON				
OFF				
RATE				
REMARKS OVERFLYING OF CUBA WAS DENIED. This delayed T/O because we had to come up with new flight plans				
1620Z TD>TA INCLD				
1654Z BALDPT DPT ACTING UP 1740Z				
1740Z BALPT				
2147SD TD>TA				
0104Z OUL DAY 1016.0 SP				

EYWW 30.03 1600Z
SST = 29.4°C
070/04

D900930

TIME	LAT	LONG	TRK	HD	WD	WS	PA	GA	TA	TD	SP	PS		PCP
160730	2545	8009	147	150	300	9	636	720	22.7	20.4	1017.6	951.7		71.9
162030	2507	8040	224	222	172	17	4374	4620	-0	1.9	1011.3	584.3	INC CLD	60.8
163500	2637	8132	257	254	199	23	4821	5053	-2.3	-0.3	1007.5	553.3	INC CLD	70.7
165600	2401	8301	244	243	213	15	4813	5047	-2.6	-3.5	1008.7	553.9	OUT CLD	81.5
171200	2329	8412	243	243	210	10	4810	5042	-2.1	-17.0	1008.4	554.1	OUT CLD	73.5
173000	2238	8517	214	216	264	9	4803	5033	-1.5	-19.4	1007.9	554.3	BRN ARV CLR RLW	75.2
174500	2128	8517	184	187	238	12	5143	5386	-3.6	-13.5	1007.8	530.0	CLR	68.8
180000	2118	8407	95	99	244	22	5138	5393	-3.8	-7.9	1007.3	530.3	BRN CLD	78.8
181500	2107	8252	101	108	204	29	4263	4498	0.8	1.1	1012.9	595.7	BRN CLDS	74.5
182700	2056	8200	182	185	206	21	3958	4181	3.8	1.8	1011.5	619.7	CLR	70.7
183900	1930	8200	180	182	195	20	3958	4180	4.1	-0.1	1011.4	619.9	CLR	73.3
185800	1847	8200	182	183	175	11	3957	4172	4.2	-5.5	1010.8	619.8	CLR	72.9
191030	1800	8205	278	278	162	7	3953	4172	4.1	1.5	1010.6	620.1	CLR	75.5
191707	1800	8237	270	269	164	9	3953	4168	3.9	1.7	1010.7	620.1	ODW RAD WINDS	77.3
192730	1825	8300	1	3	177	12	3954	4170	4.3	1.3	1010.5	620.3		78.6
194300	1938	8259	2	3	193	18	3951	4166	3.6	2.6	1011.3	620.4		75.5
200100	2100	8306	270	267	196	24	3948	4163	3.5	1.7	1011.4	620.6	CLR	73.9
201100	2055	8346	176	180	224	17	3946	4154	2.2	3.4	1012.6	620.7	INC CLD	67.7
202600	1954	8345	181	185	220	20	3946	4157	4.2	2.1	1010.1	620.8	CLR	71.1
204400	1842	8345	179	181	200	12	3946	4159	5.0	0.6	1008.8	620.8	CLR	70.9
205454	1805	8353	270	269	173	14	3946	4154	4.6	1.3	1009.0	620.8	ODW	74.2
210600	1805	8430	3	6	155	18	3941	4148	3.0	3.6	1010.9	620.8	PRF CLP	72.8
211900	1921	8430	1	3	181	22	3944	4152	3.8	2.2	1010.2	620.9	CLR	73.6
213640	2030	8440	270	270	184	6	3945	4153	2.8	2.0	1012.1	620.9	CLR	73.8
214600	2030	8515	172	174	283	4	3943	4149	2.9	3.0	1011.4	621.1	CLR	71.4
215700	1940	8515	181	183	297	7	3943	4148	3.1	3.6	1010.7	621.1	CLR	77.5
220647	1900	8515	180	183	302	7	3943	4146	3.4	2.5	1010.6	621.0	ODW	75.8
222200	1752	8515	182	183	160	10	3950	4156	3.0	5.2	1011.4	621.0	PRF CLP	77.6
223715	1710	8545	270	272	39	2	3944	4155	3.7	4.4	1010.2	620.9	ODW CLD	77.8
232022	2006	8601	1	2	21	4	3946	4157	3.1	1.6	1012.0	620.8	ODW	77.4