

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center

AOCWF1

Flt ID: I000920	From: KMCF	To: KMCF
Flt No.: 00-44	Blk In: 1754Z	ATA: 1745Z
ETD: 1030Z	Blk Out: 1025Z	ATD: 1039Z
ETE:	Blk Time: 7:29	Flt Time: 7:06
Sponsor Org: NHC	Program: HURR RECCO	Purpose: TD #12 ^{NW} CARIB

AOC Personnel

AC: TAGHART ✓	Sys Eng: ROLES ✓
CP: KENUL ✓	Data Sys:
Nav: RATHBUN ✓	Radar: BARR ✓
FE: BAST ✓	GPS/BT: HILL ✓
Avionics: ROGERS ✓	Cld Phys:
FD: DAMIANO ✓	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
Tony CRISTALDI ✓	OBS	NWS / RECCO ^{MLB}
Scott SPRATT ✓	OBS	NWS / RECCO ^{MLB}

Proposed/Actual Mission/Remarks (Recco, Fixes, Storm, PENET, NHOP #)

RA159 out at **1043Z** **BAL DW1 1704Z-1706Z**
 failed and
 remain out for
 duration of flt

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AOCWF2

Flt ID: **I000920** Time Off: **1039Z** Time On: **1745Z**

	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)
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Pressure	1014.5	30.01 1015.7	1014.7	30.06 1015.4
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	Number	Data Disposition/Date/Quality
Slow/Fast Fit Lvl Tapes	2	
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes		

Video					Remarks
	Forward	Left Side	Right Side	Down	
Time On					
Time Off					
Rate					

Remarks

2300-1900 1011 24

1/17/52

Flight ID: 1000920

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Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _d	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
116300	2634	8213	168	169	153	16	-2.2	-22.2	5187	5468	1006.6	526.8	78.5	BTN CLD
120520	2212	8226	236	231	129	27	25.3	23.4	306	315	1012.4	977.3	83.4	CLD ABV
121620	2154	8306	245	241	156	22	25.8	21.8	303	307	1011.9	977.5	71.4	TCU ALL QUADS
123100	2136	8359	263	259	177	19	24.7	21.7	299	299	1011.5	977.9	77.9	CLD ABV
125900	2130	8544	290	290	191	6	26.3	23.6	297	296	1011.3	978.1	73.6	SCT CLD
132000	2201	8518	90	94	185	10	26.4	21.9	297	302	1011.9	978.0	77.1	OVCAS
134000	2201	8359	91	99	154	27	23.1	23.0	302	311	1012.5	978.3	78.2	TRW
140700	2142	8336	243	236	170	32	24.1	20.8	286	303	1013.5	979.3	70.2	PW
151800	2245	8511	90	92	103	8	25.2	23.1	315	325	1012.3	976.0	84.8	CLD ABV
159520	2225	8600	180	181	179	5	25.7	24.2	313	319	1011.9	976.2	73.9	CLD ABV
164500	2332	8446	42	50	114	29	6.6	5.8	3574	3772	1009.7	647.1	65.9	IN CLD
165400	2359	8414	42	49	111	32	-2.6	-8.8	5340	5603	999.3	516.1	90.1	BTN CLD
172400	2625	8303	20	24	166	29	-5.4	-19.3	5797	6099	1000.8	485.0	90.0	BTN CLD

TD #12 RECON

Flight 1 I000920

DATA TYPE	SENSOR or OPTION
INE	1
Accelerometer	1
Temperature Probe	1
Altitude (for vertical wind)	RA232 radar altimeter
Static Pressure	Fuselage
Dynamic Pressure	Fuselage
Dewpoint Probe	2

Notes:

There were no data/time gaps.

The RA159 radar altimeter was inoperative due to a power supply failure.

There were several spikes/dropouts in the RA232 radar altimeter output during the following times:

1332Z - 1334Z
1448Z - 1451Z
1641Z - 1644Z
1647Z - 1650Z
1657Z - 1701Z

These spikes/dropouts were removed and patched over.

Downward spikes in radar altimeter values were due to overflying land.

There were several spikes in fuselage static pressure (PSF) during the following times:

1129Z - 1131Z
1410Z - 1415Z
1434Z - 1436Z
1551Z - 1553Z
1615Z - 1617Z
1628Z - 1630Z
1631Z - 1635Z
1655Z - 1658Z
1659Z - 1701Z

These spikes were removed and patched over.

Dewpoint sensor #2, DW2, experienced some problems from 115011Z - 115537Z. The erroneous data was removed and replaced with values from dewpoint sensor #1, DW1.

Aircraft INE positions were re-navigated 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 wind speeds, respectively, derived from Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

The King liquid water voltage is in location 79 of record five on the standard tape. However, for this flight the sensor was inoperative.

	Takeoff	Landing
Aircraft static pressure	1014.5 mb	1014.6 mb
Corrected tower pressure	1015.7 mb	1015.4 mb

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

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N43RF DATA STATION LOG

Project : Hurricane '00 Mission : 0512A Flight ID : 000920I
 Operators : Born, Hill, Roles
 Take Off : 1039 Landing : 1745

RAMS DAT 1 On [8/9]: 1021	RAMS DAT 1 Off: 1754	Data : <u>Slow</u> <u>Fast</u> <u>AVAPS</u>
RAMS DAT 2 On [8/9]: 1022	RAMS DAT 2 Off: 1754	Data : Slow Fast AVAPS
RAMS DAT 3 On [8/9]:	RAMS DAT 3 Off:	Data : Slow Fast AVAPS
Printer On: 1024	Printer Off: 1754	Disk Recording : Enabled / Disabled
MARS DAT 1 On [8/9]: 1045	MARS DAT 1 Off: 1210	CPU Selected : A <u>B</u>
MARS DAT 2 On [8/9]: 1215	MARS DAT 2 Off: 1726	VCR's Used : <u>N</u> L R <u>D</u>
MARS DAT 3 On [8/9]:	MARS DAT 3 Off:	VCR Mode : VHS / <u>S-VHS</u> 2 / <u>2</u>
PMS DAT 1 On:	PMS DAT 1 Off:	
PMS DAT 2 On:	PMS DAT 2 Off:	Tapes Given To
PMS DAT 3 On:	PMS DAT 3 Off:	RAMS: <u>ABD</u>
VCR Tape 1 On: 1026	VCR Tape 1 Off: 1754	MARS: <u>ABD</u>
VCR Tape 2 On:	VCR Tape 2 Off:	PMS: <u>—</u>
VCR Tape 3 On:	VCR Tape 3 Off:	VCR: <u>ABD</u>

VCR Tape 4 on: 1026

VCR Tape 4 off: 1754

CARCAH Tasking

Mission Number : 0512A
 Storm Name : Cyclone

ASDL Setup

Flight Level (Minobs) Sample Frequency : 60
 Flight Level (Minobs) Block Time : 15

Data Station Operator Notes:

Radar hung-up - restarted "radar" program 1210z
