

20:44:14
LAND

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

AOCWFL

Flt ID: 090812I	From: KMCF	To: TBPB
Flt No: 09-053	Blk In: 2051z	ATA: 2044z
ETD: 1400z	Blk Out: 1506z	ATD: 1515z
ETE: G+00	Blk Time: 5.8	Flt Time: 5.5
Sponsor Org:	Program: HUR FORC IMPRV PFI	Purpose: Deployment

AOC Personnel

AC: CHOY ✓	Sys Eng: SMITH ✓
CP: NELSON ✓	Data Sys: NAEHER ✓
Nav: SLOAN ✓	Radar: DEFE O ✓
FE: FLOYD ✓	GPS/BT: BOSKO ✓
PD: HENNING ✓	Gld Phys: BAST, Greg ✓
Avionics: PEEK ✓	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
EBHARDT ✓	CP	19 onboard
GALLAGHER ✓	NAV INSTR	
SAN SOUCI ✓	SEB	
DARBY ✓	MAINT	
KLIPPEL ✓	FE	
MITCHELL ✓	MAINT	
PEEK	SEB	
DISCO	SEB	
DVORSKY ✓	(SCIENTIST)	?

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

PARRISH ✓
 TAKEOFF 30.02 → 1016.6
 1018.2 (Static PZ) didn't go over ASDL so R3 sent as R2 and so on.
 GET ELEV 29.88 (1011.9) Find as we lifted
 LANDING 1012.3 mb Correct TAKEOFF pressure
 R1 1628z 500mb 593
 R2 1701z 500mb 593
 R2 R3 1732z 500 592
 R3 R4 1803z 500 592
 R4 1832z DUAL
 DROP 1910z
 R5 1903z
 → D6 1924z
 LR R7 2002z
 TBPB approx 1306N 5930W

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

AOCWF2

Flt ID: _____ Time Off: _____ Time On: _____

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure:				

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	2	
Radar Tapes	1	
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	1	1910z drop good ✓

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

Remarks

173732-
173832
18:57:27 - 18:58:19
20:35:00 - 20:45:30



**N43RF ERROR SUMMARY
HURRICANE 2009
DEPLOYMENT FERRY KMCF > TBPB**



Flight ID: 090812I

<u>Sensor or system</u>	<u>Number or Name</u>
Inertial	INE1
Accelerometer	ACC1
Temperature Probe	TT1
Dew Point Probe	TDM2X (EDGETECH)
Static Pressure	PSF
Dynamic Pressure	PQF1
Vert. Wind	ALTI1
Constants File	n43_hur09v2.adc
Project Directory	/acdata/2009/hur09

Notes:

All data is included from data system boot-up to shutdown. However, only data collected after takeoff and prior to landing were evaluated and corrected when necessary.

After takeoff and prior to landing, there were no instances of bad or missing inertial data being skipped in the creation of the netCDF file. Therefore, there were no resulting data gaps during the flight.

TDM #2 generally performed well through the mission except for the last ten minutes (upon descent into Barbados after transiting at high altitude for most of the flight). Both TDM#1 and TDM #2 generated extremely high values for dew point during this terminal phase, well overshooting the increasing temperatures and resulting in anomalously large supersaturation values with RH in excess of 200 %. The overshoot for TDM#1 was somewhat worse than TDM#2. Through the majority of the mission, there were occasional instances of slight supersaturation, but of only a few percentage points at times in areas of flight level cloudiness. It was necessary to correct TDM #2 during the descent phase of the flight and at two other, much shorter, intervals of more significant supersaturation (well over 120 percent). Statistical means were used to remove anomalous spikes and smooth patch over the following periods:

17:37:32z – 11:38:32z

18:57:27z – 18:58:19z

20:35:00z - 20:45:30z (includes 76 seconds after landing)

All other instruments worked optimally during the flight.

One dropsonde was released with good data.

SPECIAL NOTE!!! The variable names dpj_wgs, dpj_was and dpj_wz in the netCDF file represent vertical ground, vertical air and vertical wind speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	Takeoff 1515z	Landing 2044z
Aircraft Static Pressure	1016.0 mb	1006.0 mb
Corrected Tower Pressure	1015.9 mb	1005.7 mb

Flight Directors: Richard Henning / Jack Parrish (813) 828-3310 ext 3086

Flight ID : WKLXAT

Flt Dir : Hennrich Launcher S/N:

[illegible]

