

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

Flt ID: 100912I	From: KMCF	To: TISX
Flt No: 10-071	Blk In: 0420Z	ATA: 0416Z
ETD: 2000Z	Blk Out: 1956Z	ATD: 2003Z
ETE:	Blk Time: 8:24 (8.4)	Flt Time: 8:13 (8.2)
Sponsor Org: HRD	Program: HURRICANE PHX	Purpose: PI FOR AL92 IN CENTRAL CARIB

AOC Personnel

AC: GIRMONTI	Sys Eng: LYNCH, C
CP: MARTIN / SWEENEY	Data Sys: NAEHER
Nav: BISHOP	Radar: PEEK
FE: FLOYD / HEYSTEK	GPS/BT:
FD: DAMIANO	Cld Phys:
Avionics:	KREG ELKA

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
UHLHORN, E	RADAR - WORKSTATION	HRD
MURILLO, S	RADAR	
ROBERS, R	PI	
BRENN KLOTZ,		
CHANG, P	PI	
DVORSKY, J	WRAP	NESDIS UMASS

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

at center of 2nd leg do behav out
NEW BUCK TDMI
 called McF
 at 10:45pm

NXWXA 92L2

NO AF Plane in ops area
 10K RADAR ALT

33
 25
 29.94 182
 15.8 280/15
 72.1
 1499Z 34 29.
 75 26
 1602, 1007
 7339 2342Z
 1600
 7350

NHC at 00Z
 15.9
 73.3 275/13

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AOCW-2

Flt ID: 100912E Time Off: 20032 Time On: 0416Z

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

Pressure 1012.87 29.92 (1013.4) 1012.3 1010.0 29.91 (1009.7)

Number 1012.8 Data Disposition / Date / Quality SLP 1012.8

Flt Lvl Tapes 2

Radar Tapes 2

Cloud Physics Tapes

Video Tapes

AXBT

AXCP

AXCTD

Dropsondes 19 18 good; 1 bad; 18 messages sent

Video

Forward Left Side Right Side Down Remarks

Time On

Time Off

Rate

Remarks

1010.2

1010.5

1010.7



**NOAA P-3 N43RF
ERROR SUMMARY
HURRICANE 2010**



**Flight ID: 100912I Ferry from MacDill AFB to St. Croix
Mission enroute for AL92**

Sensor or system	Number or Name
INE (for wind derivation)	INE1
Accelerometer	ACC1
Temperature Probe	TT1
Dew Point Probe	TDM2 (EgdeTech)
Altitude (for vertical wind)	ALTI1 (GPS)
Static Pressure	PSF
Dynamic Pressure	PQF1
Time Source	Micro 99
Constants File	n43_hur10v2.adc
Project Directory	/acdata/2010/MET

Notes:

There were no time/data gaps.

At 220553Z a spike in latitude from inertial #1....LATI1...was removed and patched using latitude from the Novatel...LATNVL.

Dewpoint sensor #2 (TDM2...EdgeTech) values were replaced with dewpoint sensor #3 (TDM3...Maycomm TDL) values during the following time frames: 210957Z – 211057Z, 212615Z – 213502Z, 213745Z – 215702Z, 222421Z - 223154Z and 223841Z – 223917Z. The replacement of TDM2 values with TDM3 values was done via direct substitution,

TDM2 = TDM3

During the flight there were instances where dewpoint temperature values exceeded derived ambient temperature values resulting in humidity values above 100%. These situations occurred during heavy precipitation events.

All other instruments worked optimally during the flight.

Nineteen (19) dropsondes were deployed with 18 being good and one (1) bad. Eighteen (18) tempdrop messages were sent to NHC.

SPECIAL NOTE!!! The variable names dpj_wgs, dpj_was and dpj_wz in the netCDF file represent vertical ground speeds , vertical air speeds 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 (2003Z, MacDill)	Landing (0416Z, St. Croix)
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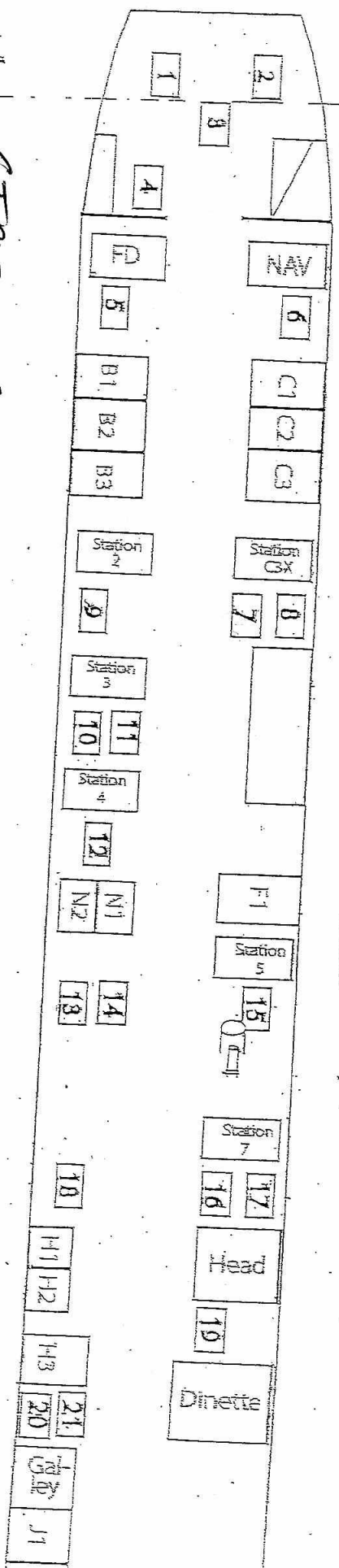
Aircraft Static Pressure	1012.7 mb	1010.0 mb
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Corrected Tower Pressure	1012.3 mb	1009.7 mb
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Flight Director:	A. Barry Damiano (813) 828-3310 ext. 3073	
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NOAA AIRCRAFT OPERATIONS CENTER

Flight ID 100912I



1. GIRDMONTE
PILOT

2. SWEENEY
COPILOT

3. FLOYD
FLIGHT ENGINEER

4. MARTIN
STATION 1

5. DAMIANO
FLIGHT DIRECTOR

6. BISHOP
NAVIGATOR

7. HEYSTER
STATION C3X

8. ROGERS
STATION C3X

9. UHLHORN
STATION 2

10. MURILLO
STATION 3

11. KLOTZ
STATION 3

12. WAHNER
STATION 4

13. LYUCHC
PROJECT SEAT

14. PROJECT SEAT

15. PEER
STATION 5

16. DUBESKY
STATION 7

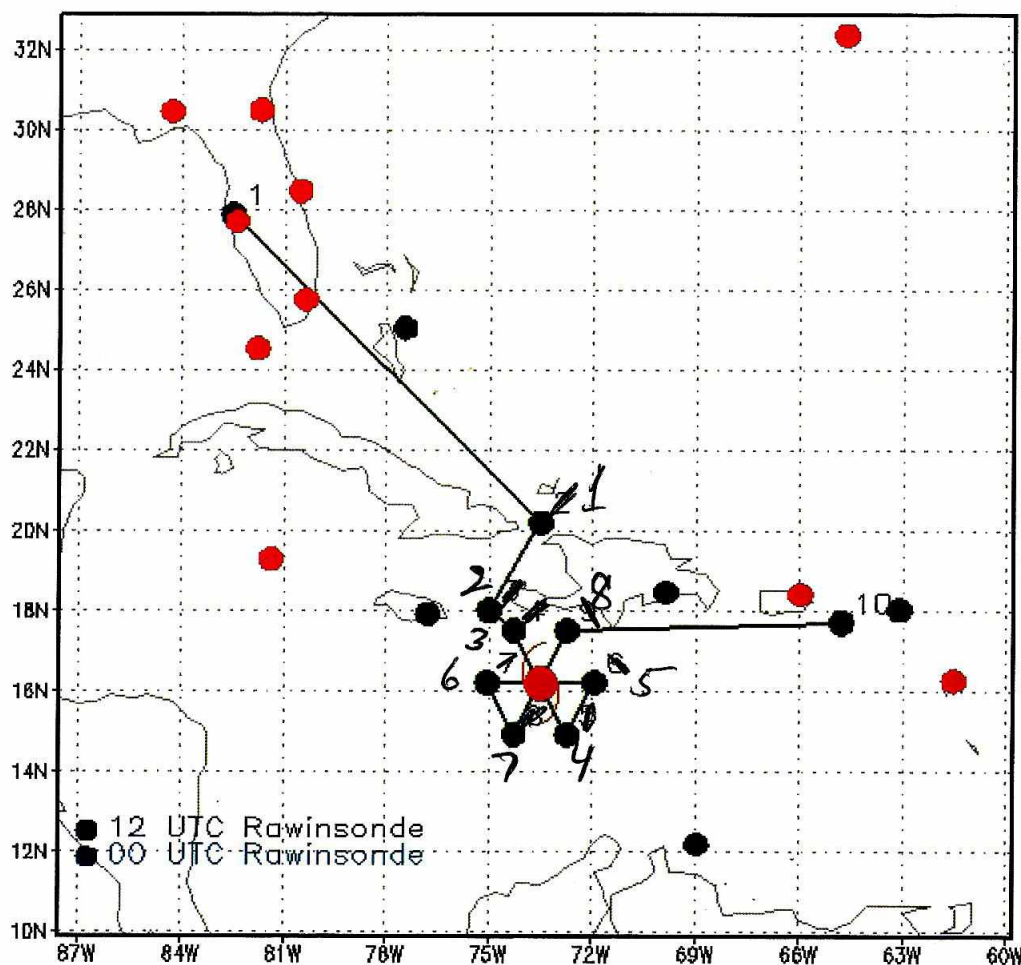
17. CHANE
STATION 7

18. KREGLER
STATION 8

19. DINETTE

20. GALLEY

21. GALLEY



GrADS: COLA/IGES

2010-09-

90mm legs

Blank out 60° wedge

Drops at end pts

and $\frac{2}{3} + \frac{1}{3}$ & center

center drop last pass

blank out radar in
center during 2nd pass

W 1600

7528

1441

7437

~~1608~~ 1608

7206

1730
7417

N43RF AVAPS DROP LOG

ATTENTION!!! SET AVAPS FREQ BAND TO "B" FOR GRIP/PREDICT DEPLOYMENT

Project: Hurricane '10 Mission: AL 92 #1

Flight ID: 1009121F

Take Off: 2003

Landing:

Flt Dir: DAMIAD

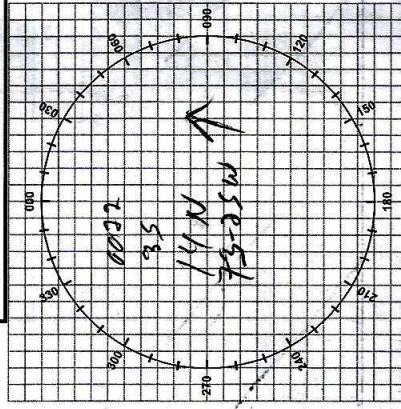
Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Charge \$\$ To	Comments	Good ?
1	094 735 028	1	+0.5	2322	4	CFL	PHX		✓
2	094 645 025	2	+0.6	2329	3	↓	↓		✓
3	094 735 783	3	0.6	2337		↓	↓	late launch	✓
4	095 035 107	4	0.5	2350	1				✓
5	095 035 159	1	0.5	2357	1				✓
6	100 145 006	2	0.6	0005	0				✓
7	094 635 093	3	0.9	0025	0				✓
8	094 645 121	4	0	0031	0				✓
9	094 735 239	1	0.4	0038	0				✓
10	095 035 104	1	0.7	0106					✓
11	094 355 050	2	0	0111	0				✓
12	094 120 171	3	1.0	0116	0				✓
13	100 215 046	4	0.4	0135	0				✓
14	094 415 168	1	0.8	0147					✓
15	094 120 044	2	0.6	0154	0				✓
16	094 615 017	3	0.8	0209	0			FAST	
17	093 736 261	4	0.6	0210	0				✓
18	093 736 287	1	0.9	0216	0				✓
19	093 736 237	2	0.5	0223	0				✓
20									
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34									

AVAPS CRASH AT #10, TOOK PC DOWN WITH IT

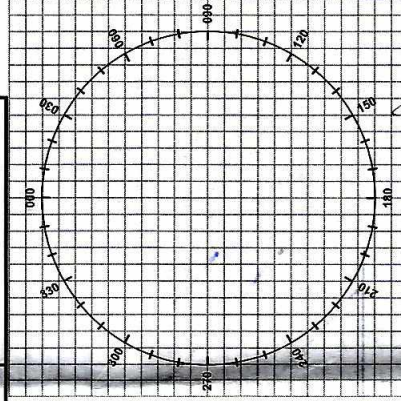
CLEARANCES

FREQ	ALT	HDG	OTHER
	71600	190°	SQUK 1446
Dept	76000	2170°	DSD DMV
	71200		Deviate 15° to Right for WX
1324	71500		125.4 128.1
	71700		
1356	71800		127.1 / 124.1 1240
1345	Port ba Prince		Curacao

MISSION LOG



PAGE OF



POSITION REPORT

1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

**MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA . NOAA**

- POSITION _____ N / S
F / W AT 7

- HEADING _____ TRUE/MAG _____
- AT _____ KTS TRUE/INDICATED _____

- FLIGHT LEVEL OR ALTITUDE

- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD _____

-NATURE OF EMERGENCIES

- ASSISTANCE DESIRÉE

- PILOT INTENTIONS
- WE HAVE
- ENDURANCE REMAINING

[illegible]