

Hurricane 2001

T.S. Barry

Flight #1 010805H

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2
Accelerometer	2
Temperature Probe	1
Dew Point Probe	1
Altitude (for vertical wind)	RA-159.
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2012.CON

Notes:

Takeoff: 2246Z

Land: 0203Z

The radar altimeter (APN-159) was replaced by the APN-232 due to spiking during take off and landing (224301-224900 take off; 015630-020600 landing). No offset was applied.

The radar altimeters (APN-159 and APN-232) were shut down during fuel evacuation. The APN-159 was replaced by the GPS altitude with a +5.5 meter offset from 010044-014505.

During times when aircraft was flying through heavy precipitation, the Dew point temperature exceeded the ambient temperature resulting in relative humidities greater than 100%. No adjustments were made.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1016.7 mb	1018.2 mb
Corrected tower pressure	1016.9 mb	1018.5 mb

The aircraft INE positions were renavigated 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 speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

Flight Director: Tom Shepherd, (813) 828-3310 ext. 3053

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

AOCWF1

Flt ID: 010805H	From: KMCF	To: KMCF
Flt No.: 01-27	Blk In: 0212Z	ATA: 0203Z
ETD: 2230Z	Blk Out: 2238Z	ATD: 2246Z
ETE: 9.0	Blk Time: 3.6	Flt Time: 3.3
Sponsor Org: NHC	Program: Hurricane Recon.	Purpose: TS-Barry SFMR

AOC Personnel

AC: Jensen, D	Sys Eng: Roles, J
CP: Jubeast, R / Halverson, H	Data Sys: M ^c Millan, S
Nav: Newman, C / Adler, J	Radar:
FE: Bast, S	GPS/BT: Smith, J
Avionics: SanSouci, D	Cld Phys:
FD: Shepherd, T / Damiano, B	Mech: Floyd D

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
White, S	PI	HRD
Dodge, P	Co PI	HRD
Black, M	Co PI	HRD
Longat, M	obs	HRD-U. Miami
Castells, T	SFMR	UMass

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

6 05/2348

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center					AOCWF2
Flt ID: 010805H		Time Off: 2246		Time On: 0203	
	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)	
Pressure	1016.7	30.03 1016.9	1018.2	30.08 1018.5	
	Number	Data Disposition/Date/Quality			
Slow/Fast Flt Lvl Tapes	2				
Radar Tapes	0				
Cloud Physics Tapes	0				
Video Tapes					
AXBT	6	all good			
AXCP					
AXCTD					
Dropsondes	7	5 good 2 ^{no} wind			
		OK - ^{verified} w/ drop log			
Video					
	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					
Remarks					

Page ____ of ____

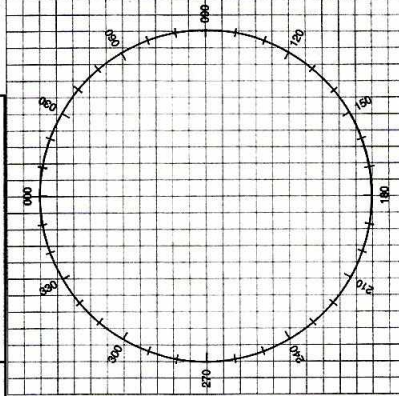
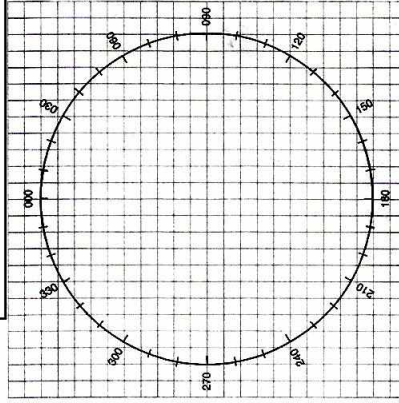
Form 413-50

Laurie Isutah

SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF

REMARKS
220/12 30.01
May 22
f

POSITION REPORT

[illegible]

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 _____, NOAA _____

- POSITION _____ N/S _____
 _____ E/W AT _____ Z _____

- HEADING	TRUE/MAG
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-AT_____KTS TRUE/INDICATED_____

- FLIGHT LEVEL OR ALTITUDE

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

- NATURE OF EMERGENCIES

- ASSISTANCE DESIR

- PILOT INTENTIONS

[illegible]

N42RF AVAPS DropSonde Log

N42RF Project: Hurricane

Flight ID 010805H

Mission: Barry

Flight #: 010805

System Status: On

TKOFF 2246

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
11	003515064	11	2314 ✓	0		gn	GOOD	✓
22	AXBT	12	2314	NA		gn	GOOD	✓
3	990845365			0		gn	Crushed in tube not Dropped	✓
43	003515072	1	2325	0	22	11	GOOD	✓
54	AXBT	16	2325	NA			GOOD	✓
65	003475099	1	2334	0			NO Temp, Pressure, Humidity	
76	AXBT	12	2334	NA			Good	✓
87	991845367	1	2348	0	35		GOOD	✓
9	003248005							
108	AXBT	16	2348	NA			GOOD	✓
119	003248005	1	0042	0	35		GOOD	✓
120	AXBT	12	0042	NA			GOOD	✓
131	003475099	2	0054	0	NA		PTK NO winds	
	AXBT	16	0054	NA			GOOD	✓
	003475092	1	0056	0	56		GOOD	✓
16	003148190	2						
17	003248006	1						
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