

19900920H1. FDIR

1990 ATLANTIC HURRICANE SEASON

FLIGHT #1 (Fig. 4) 900920H N42RF T.D.#11

TYPE OF DATA

SENSOR OR OPTION

INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA232
Static pressure	Rosemount (fuselage)
Dynamic pressure	Rosemount (fuselage)
Time source	Micro 29
Constants file	CO2901.CON

Notes:

1. Dew Point wet-bulbing can occur intermittently thruout the flight.
2. INE#1 was utilized for this flight and was not renav'd.
3. Dew Point balanced 1428Z, 1803Z, 2024Z and 2235Z; edited, despiked and patched.
4. J.W. liquid water probe inop. entire flight.
5. NOTE: Locations 80, 81 and 82 of record five on the standard tape contains computed vertical ground, vertical air and vertical speeds, respectively, utilizing Dave Jorgensen's vertical wind algorithm...FYI.

	Take Off	Landing
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Aircraft Static Pressure	1007.2mb	1004.7mb
Corrected Tower Pressure (Alt.)	1012.2mb	1010.7 mb

F/D:


Phil Bogert

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

FLT ID: 900920H	FM: TBPB	TO: TBPB
FLT NO: 90-56	BLK IN: 2314	ATA: 23112
ETD: 1400Z	BLK OUT: 1857Z	ATD: 1408Z
ETE: 9+00	BLK TIME: 9+17 (9.3)	FLT TIME: 9+03 (9.1)
SPONSOR ORG: HRD	PROGRAM: H. RESEARCH	PURPOSE: T.D. #11

OAO PERSONNEL

AC TURNER ✓	SYS ENG Roles ✓
CP LAYDON ✓	DATA SYS RAJ ✓ / Hancock ✓
NAV WHITE ✓	RADAR
FE WADE ✓	BT/ODW GONZALES ✓
RADIO	CLD PHYS
FD BOGERT ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
McFadden ✓		A.O.C.
Willoughby ✓	P.I.	HRD
BURPEE ✓		"
BLACK, M. ✓		"
BLACK, R. ✓		"
DORST ✓		"
Linda Lewis ✓		

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

ENR T.D. #11 VCNTY 16N 50.5W ; IP 17-18N 51-42W
 @ 5000' ALL DAY - NO DROPS...

T.O. ALT 1012.2 / 991mb TA 28.0°C Td 26.0°C D.A. BAL @ 1428Z, 1803Z, 2024Z, F 2235Z...

SP - 6 (RA)
 PS - 1007.2mb TA 28.3°C Td 24.1°C Switched to RA 159 @ 1620Z
 Switched BACK to RA 23Z
 @ 1625Z, SP ~ 5/4mb too Low w/ RA 159 !!!
 J.W. ↓ ENTIRE FLT...

LAND ALT 2986 / 1010.7mb
 SP - 1004.2
 PS - 1004.7

U.S. DEPT. COMM./NOAA/ORD - DATA SECTION WORK FORM NO.2 DROWF2 FILE

FLT ID: 900920H TIME OFF: 1408Z TIME ON: 2311Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE				

NO	DATA DISPOSITION/DATE/QUALITY
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1/SEC FLT LVL TAPES

1

FAST FLT LVL TAPES

~~0~~

RADAR TAPES

~~0~~

DOPPLER TAPES

5

ODW CASSETTES

~~0~~

HARD COPIES

~~0~~

PMS TAPES

5

AXBT

~~0~~

AXCP

~~0~~

ODW

~~0~~

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					No
OFF					
RATE					

REMARKS

PROPOSED T.O. 1400 2 9/20/90
ACTUAL T.O. 1409 2 9/20/90

[illegible]

SYS	BEGIN ALIGN TIME	NCS CONN	Ω AID	TIME OUT OF COARSE	ALIGN STS 0-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	ΔT (2)(1)	TERMINAL ERRORS		
				ELAPSE ALIGN POST TIME					LAT	LONG	GS
INS 1	13082	NO	NO	—	1	13492	2316	947	+0.7'	-1.7'	4
INS 2 IMU	✓	✓	✓	—	1	✓		✓	+3.9'	-4.4'	0

OTHER REMARKS:

$$\begin{array}{r} 22\cancel{0}6 \\ 1349 \\ \hline 917 \end{array}$$

A/C COMMANDER		NAVIGATOR		A/C NO.		MISSION NO.		TIME AIRBORNE		LOCATION		DATE		PROJ. NAME	
TURNER		WHITE		N42RF		90-056		1409Z		TBPB		20 SEPT 1990		TD # 11	
TIME OF ENTRY	POSITION	TYPE INE USED	INE #1 POSITION	LAT LON COR'S	INE #2 POSITION	LAT LON COR'S	ALT GS	TH TK	REMARKS						
1349	13°04.5' 59°29.6'	4 #1	✓	—	✓	—	—	—	START						
1551	—	—	16°49.7' 52°30.1'	—	16°49.9' 52°30.5'	—	≥	061 062	DESCEND TO 90 STA I.P.						
1603	—	—	17°11.7' 51°45.9'	—	17°12.0' 51°46.1'	—	5k 215	146 145	I.P. Pt #1						
1644	—	—	16°44.9' 49°27.0'	—	16°44.7' 49°27.2'	—	5k 214	135 135	CENTER						
1815	—	—	16°54.2' 49°32.9'	—	16°51.8' 49°33.8'	—	5k 230	045 045	CENTER						
1937	—	—	17°00.4' 49°41.5'	—	16°55.4' 49°43.8'	—	5k 230	135 135	CENTER						
2048	—	—	17°11.7' 49°42.5'	—	17°05.1' 49°45.1'	—	✓ 233	223 223	CENTER						
2115	—	—	15°58.2' 50°58.3'	—	15°49.5' 51°01.7'	—	7 245	252 251	OFF STA						
2315	13°04.5' 59°29.6'	4 ✓	13°03.8' 59°31.3'	+0.7' -1.7'	12°52.6' 59°34.0'	+13.9' -4.4'	—	—	STOP						
ATC CLEARANCE: CLN START 1012.2 090/04 RWY 09 CLAS 3 UN 55W. FPR															
1906 SQ 1742 CFT CALM 5k 1009.8 29.86"															
ENROUTE CLEARANCES:															
TYPE OF FIX: (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN (6) RADAR (7) DOPPLER - INERTIAL (8) OMEGA (9) INERTIAL (10) OMEGA - INERTIAL															