

19900929HI-FDIR

1990 ATLANTIC HURRICANE SEASON

FLIGHT #1 (Cloud Cluster) 900929H N42RF

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 renav'd, (2 pt's).
3. Dew Point balanced 1637Z, 1743Z and 2057Z; edited, despiked and patched.
4. Radar data system/recorders only worked intermittently thru-out the 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	1015.9mb	1015.9mb
Corrected Tower Pressure (Alt.)	1015.2mb	1015.0 mb

F/D:

Phil Bogert

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

FLT ID: 900929H	FM: KmIA	TO: KmIA
FLT NO: 90-60	BLK IN: 0147Z	ATA: 0142Z
ETD: 1600Z	BLK OUT: 1558Z	RTD: 1608Z
ETE: 10+00	BLK TIME: 9+49(9.8)	FLT TIME: 9+48(9.8)
SPONSOR ORG: HRD	PROGRAM: H. Research	PURPOSE: CLD CLUSTER

OAO PERSONNEL

AC LAYDON ✓	SYS ENG LINO ✓
CP Kennedy ✓	DATA SYS RAIN ✓
NAV WHITE ✓	RADAR
FE MOORE ✓ WADE PB	BT/ODW GONZALES ✓
RADIO	CLD PHYS
FD BOGERI NO...	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
31 Powell, M. ✓	P.I.	HRD
SCHAEZ, LARS ✓	RADAR	"
DODGE, P. ✓	RADAR	"

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

OPS W'RN CARIB @ 13K-14K.
CLD CLUSTERS

D.P. BAL @ 1637Z, 1743Z, 2057Z.

T.O. ALT 3000/1015.2mb
SP - 1016.2mb
PS - 1015.9mb

RADAR DATA Sys ?? ↓
RECORDERS ↓

LAND:
ALT - 3002/1015mb
SP - 1016.4
PS - 1015.9mb

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

FLT ID: 900929H TIME OFF: 1608Z TIME ON: 30/0142Z

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

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

PHS TAPES

AXBT

AXCP

ODW

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE					

REMARKS

FLIGHT PLAN

PROPOSED T.O. 15007 9/29/90

ACTUAL T.O. 16082

WAY POINT	TO	RTE	ALT	TAS	TC	W DC	V	TH	VAR	MH	GS	ZONE DIST	TOTAL DIST	ZONE TIME TOTAL TIME	PROPOSED ETA	ETA ATA
①	25°48.2' N 80°17.6' W	KMIA														1608
②	24°42.7' N 81°05.7' W	MTT	↗								250	80		+20 +20		1608
③	24°00.00' N 81°13.0' W	TADPO		F180	290	L	V				290	43		+09 +29		1637
④	23°05.4' N 81°22.6' W	UVR		✓	300						300	55		+11 +40		1648
⑤	21°36' N 81°31' W	UCL		✓	✓						✓	90		+12 +58		1706
⑥	20°00' N 81°25' W	ATUUF		✓	✓						✓	96		+19 +17		1725
⑦	19°17.4' N 81°22.3' W	BCM		✓	✓						✓	43		+09 +26		1734
⑧	16°15' N 82°00' W			✓	✓						✓	170		+34 +100		1809 2345
⑨	20°31.5' N 86°55.6' W	CZM	④	220	241	ROBIN						120 120		+07 +27		1812
⑩	24°00' N 86°00' W										300	100 220		+20 +47	0031	0032 0030
⑪	24°00' N 83°04' W	CANOA									✓	160 380		+30 +19		0104
⑫	24°35' N 81°48' W	EYU									✓	80 460		+16 +35		0120
⑬	25°48.2' N 80°17.6' W	MTA										110 570		+26 +101		0146
⑭	20°31.5' N 86°55.6' W	CZM		F230	300											
⑮	21°38' N 86°04' W	SINLA		✓	✓						300	83 83		+17 +12		
⑯	22°34' N 85°18' W	PIWAR		✓	✓						✓	71 154		+14 +31		
⑰	23°12' N 84°48' W	TIARA		✓	✓						✓	47 201		+19 +40		
⑱	24°00' N 83°03' W	CANOA		✓	✓						✓	102 308		+21 +101		
⑲	24°35' N 81°48' W	EYU		✓	✓						✓	78 386		+16 +17		
⑳	25°48.2' N 80°17.6' W	MTA		✓	250						250	110 496		+26 +143		

SYS	BEGIN ALIGN TIME	NCS CONN	Ω AID	TIME OUT OF COARSE ELAPSE ALIGN POST TIME	ALIGN STS 0-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	ΔT (2)(1)	TERMINAL ERRORS		
									LAT	LONG	GS
INS 1	UNKNOWN	NO	NO	—	0	14582	0148	1100	3.8'	+0.4'	3 ✓
INS 2 IMU	✓	✓	✓	—	0	✓	✓	✓	19.1'	+1.4'	2

ALIGN REMARKS:

OTHER REMARKS:

1755 2430N ③
1845 CZM ④

A/C COMMANDER		NAVIGATOR		A/C NO.		MISSION NO.		TIME AIRBORNE		LOCATION		DATE		PROJ. NAME	
LAYDON		WHITE		N42RF		90-060		16082		KIMIA		29 SEPT 1990		HRD	
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						
14582	25°48.2' 80°17.6'	4 #1	✓	—	✓	—	—	—	START						
1923	—	— #1	19°55.3' 83°02.4'	—	19°56.4' 83°02.5'	—	13K 240	180	ODW STA						
1941	—	— #1	18°40.9' 83°00.3'	—	18°41.8' 83°00.5'	—	✓ 260	177 178	ODW						
1950	—	— #1	18°02.8' 83°01.1'	—	18°03.6' 83°01.3'	—	✓ 273	270	ALT HD						
1956	—	— #1	18°01.3' 83°29.1'	—	18°02.3' 83°29.4'	—	✓ 291	354 353	ALT HD						
2113	—	— #1	17°40.1' 84°23.5'	—	17°39.4' 84°23.8'	—	✓ 264	267 272	ODW						
2120	—	— #1	17°43.5' 84°53.3'	—	17°43.1' 84°53.4'	—	✓ 286	001 360	ODW						
2154	—	— #1	20°21.6' 84°53.5'	—	20°20.0' 84°52.1'	—	✓ 247	300 299	ALT HD						
2245	—	— #1	17°58.7' 85°44.6'	—	17°55.6' 85°44.7'	—	✓ 238	181 180	ODW						
2256	—	— #1	17°23.9' 85°53.6'	—	17°21.1' 85°53.1'	—	✓ 265	273 270	ODW						
0030	24°02.6' 86°03.9'	5 #1	24°04.7' 86°04.1'	-2.1' -0.2'	23°58.2' 86°01.6'	+4.4' +2.3'	23K 340	608 609	A/H CANOA						
0050	—	— #1	24°13.6' 84°12.6'	—	24°05.1' 84°09.8'	—	✓ 316	665 660	A/H WEBER						
ATC CLEARANCE: "S" 14502 30507 17000 20 82 23 090/9 30.01" "S"															
CAF 125.5 SQ1453 RWY 9L 16K 18K CLRD TADPO 16K															
CLRD 2430N 8630W C2M 15K CLRD DANUL 13K															
ENROUTE CLEARANCES: 00032 23K CLRD WEBER DOCTU2 MIA FL230															
WEBER 6K 30.02"															
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															

FLIGHT 900929H CLD CLUSTER
15:57:51Z - 01:46:00Z

