

19870930H1 - FDIR

HURRICANES 87 DATA SUMMARY

870930H Ocean Cumulus #2 (NOAA42)

TYPE OF DATA

SENSOR OR OPTION

INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA
Static pressure	Rosemount (fuselage)
Dynamic pressure	Rosemount (fuselage)
Time source	Micro 29
Constants file	C02872.CON

Notes:

Numerous syncro radar altimeter spikes have been removed from the data and patched with either a digital radar altimeter or pressure altitude correction. The spikes normally occur while changing altitude, in roughly 3300 foot intervals.

A few Rosemount static pressure spikes have been removed and patched.

No renavigation attempted.

TD overran TA during some cloud penetrations.

JW wire was repaired for this flight.

	Take Off	Landing
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Aircraft Static Pressure	1010.5 mb	1006.5 mb
Corrected Tower Pressure	1010.1 mb	1006.7 mb

Jack Parrish

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 DROWF1 FILE

FLT ID: 870930H	FM: MFA	TO: MFA
FLT NO: 52-87	BLK IN: 2115	ATA: 2111Z
ETD: 1700Z	BLK OUT: 1714Z	RTD: 1724Z
ETE:	BLK TIME: 4:01	FLT TIME: 3:47
SPONSOR ORG: HRD	PROGRAM: DYN of CONVECTIVE CLOUDS	PURPOSE: HURRICANE RESEARCH

OAO PERSONNEL

AC TICKNOR	SYS ENG JARVI ^x
CP MEYERS	DATA SYS THOMPSON
NAV NOKUTUS	RADAR
FE FLETCHER MOORE	BT/ODW LEYVA
RADIO	CLD PHYS
FD ROBERT DAMIANO	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
MARTZ, HAL	GUEST	U of MIAINT
WELLS, P.		HRD
BLACK, ROBERT		HRD
HALLETT, J		UNLV/PROF (HRD)
DODGE, P.		HRD
TIISMA, J		OAO

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

182217 WZ spike 200909 TACTD
 182440 205800
 183500 210300

2053 SWALL LINE

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

FLT ID: 870930H

TIME OFF: 1724Z

TIME ON: 2111Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	PS 1010.0 SP 1009.2	CAL LAB 1010.0 29.85/1010.5	PS 1008.3 SP 1006.4	29.79/1008.4 CAL LAB 1006.7

NO

DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

1

FAST FLT LVL TAPES

RADAR TAPES

7

DOPPLER TAPES

ODW CASSETTES

3

HARD COPIES

PMS

7

AXBT

AXCP

ODW

3

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

211300

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME		
TICKNER	NAUTIS	N42EF		1724/211	MIA INTL	30 SEP 87			
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
1700	25-48.2N 080-17.6W	4 1	✓		✓				CHOCKS
1800		9 1	24-41.9N 078-32.9W		24-41.3N 078-33.0W		120 279	078 077	w/v 255/13
1900		9 1	24-33.8N 078-12.2W		24-33.3N 078-14.2W				w/v 257/08
1941	24-51 078-50	2 1	24-49.7N 078-49.6W	+1.3 +0.4	24-47.5N 078-51.6	+3.5 -1.6	200 308	090 092	NASSAU 081/77 w/v 237/14
2042		9 1	25-05.7N 078-24.4W		25-02.8N 078-28.1W		190 108	092 094	w/v 216/08
2115	25-48.2N 080-17.6W	4 1	25-48.9N 080-16.9W	-0.7 +0.7	25-45.9N 080-21.5W	+2.3 -3.9			CHOCKS
ATC CLEARANCE: TAXI 27R PLS + HOLD CFB RWHING 2984 75.0 LF 240° 127.0 125.7 116.0 LF 180° 117.0 LF 120° ENROUTE CLEARANCES: 100-220 120/190 LF 090° 2977 16.0 → EEDNS 120.5 13.0 RT 350° CTLAR 11.8 LF 270									
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									

FROM 25-18.2N
MIAMI, INTL 080-17.6w

PROPOSED T.O.	17002	30SEP87
ACTUAL T.O.	1724	

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	G S
INS 1	16382	No	NO		2-5	1700	2115	4+5	-0.7	+0.7	0
INS 2 IMU	16382	No	NO		1-5	1700	2115	4+5	+2.3	-3.9	3

OTHER REMARKS: NO NCS ON BOARD