

19870929H1-FAR

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

FLT ID: 870929H	FM: MIA	TO: MIA
FLT NO: 51-87	BLK IN: 2205	ATA: 2201Z
ETD: 1700Z	BLK OUT: 1710Z	RTD: 1722Z
ETE:	BLK TIME: 4:55	FLT TIME: 4:39
SPONSOR ORG: HRD	PROGRAM: DYN of OCEANIC CONV	PURPOSE: HURRICANE STRUCTURE

OAO PERSONNEL

AC TICKNOR ✓	SYS ENG JARVI ✓
CP MEYERS ✓	DATA SYS THOMPSON ✓
NAV NOKUTUS ✓	RADAR
FE FLEURY ✓	BT/ODW LEVYA ✓
RADIO	CLD PHYS
FD ROBERT/DAMIANO ✓	DOPPLER Mc FADDEN ✓

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
WILLIS, P ✓	CLOUD PHYSICS	HRD
HALLETT ✓	" "	HRD UNLV (PROF)
BLACK, ROBERT ✓	" "	HRD
DODGE ✓	" "	HRD
FRANKLIN, J ✓	" "	HRD
MATUSZESKI		A-76
WAGNER		A-76
OWEN		A-76

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

Vertical Winds goofy infrequently !!

Super Inaccurate values of LE + VE

File Turner

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OROWF2 FILE

FLT ID: 870929H TIME OFF: 1722Z TIME ON: 2201Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	SP 1014.8 1500 FT PS 1015.0	CAL LAB 1015.2 30.01 / 1016.0 MB	SP 1014.8 PS 1012.8	29.91 / 1012.8
NO DATA DISPOSITION/DATE/QUALITY CAL LAB 1012.6				

1/SEC FLT LVL TAPES

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

PMS 600 FT

RXBT

RXCP

ODW

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

1550Z T/O
TA 84
TD 70

TIME	LAT	LONG	TRK	HD	WD	WS	PA	GA	TA	TD	SP	PS		PQ
172500	2546	8006	119	120	287	6	1003	1100	19.1	19.4	1016.3	887.1		68.7
173500	2528	7928	116	115	312	19	4678	4970	-1.0	-4.0	1012.8	557.7		54.9
174500	2543	7906												
174500	2456	7844	130	132	311	20	5154	5601	-3.2	-6.3		529.1	RD OFF	73.3
4900														
174500	2450	7836	130	132	308	15	5159	5451	-3.8	-6.6	1010.8	529.0		74.4
175035	OVER ISLAND													
175340	2430	7810	129	131	306	15	5147	5452	-3.9	-5.8	1014.8	529.6		69.6
175620	2421	7758	131	131	325	15	5147	5450	-3.5	-7.1	1012.4	529.8		72.6
180700	2348	7719	114	113	318	16	5320	5622	-4.4	-10.5	1009.8	517.4		73.7
182450	FIRST CLOUD PASS													
183900	CLOUD PASS													
184400	43 m. 42													
184500	CLOUD PASS													
1849	ARR AT													
185100	CLOUD 185246 SECOND CLOUD													
185800	CLOUD 185930													
190440	CLOUD													
191200	TACTD													
191935	CLOUD													
192730	2316	7605	177	180	327	21	6240	6580	-10.2	-18.4	1006.7	456.5	Good	69.7
194400	CLOUD THIRD CLOUD													
194525	CLOUD													
194640	CLOUD													
195250	CLOUD													
195405	CLOUD 200600 CLOUD 203435 CLOUD 205000 CLOUD													
195910	CLOUD 202750 CLOUD 204110 "													
200000	CLOUD													
201650	2331	7615	173	175	322	20	6036	6356	-9.2	-14.0	1006.8	469.4	Good	7
201700	2334	7700	6695	7055	-11.6	-21.8	999.7	468.5	Good					

2016 3rd sonde drop

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FLIGHT PLAN

from 25-48.2N 080-17.6W
MIA INTL Block 7-22

(A) 2201

PROPOSED T.O.	1700 2 295087
ACTUAL T.O.	1722

[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	G S
INS 1	12152	NO	NO		0	16502	7206	9.51	-3.6	-1.0	1
INS 2 IMU	12152	NO	NO		0	16502	7206	9.51	-2.7	-2.6	7

ALIGN REMARKS:

OTHER REMARKS: NO NCS COMPUTER ONBOARD

$$\begin{array}{r} 2166 \\ 1215 \\ \hline 951 \end{array}$$

HURRICANES 87 DATA SUMMARY

870929H Ocean Cumulus #1 (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	CO2872.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.

No renavigation attempted.

TD overran TA during some cloud penetrations.

JW wire was broken the entire flight.

There is a 10-second time gap from 211300-211310.

The heading on the Standard Tape printout reads "Emily #5"- it should read "Ocean Cumulus #1".

	Take Off	Landing
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Aircraft Static Pressure	1015.0 mb	1012.0 mb
Corrected Tower Pressure	1015.2 mb	1012.6 mb

Jack Parrish