

19871012H1- FDIR

HURRICANES 87 DATA SUMMARY

871012H T.S. Floyd RECCO (NOAA42)

TYPE OF DATA

SENSOR OR OPTION

INE	2
Accelerometer	2
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. INE2 selected because of more accurate enroute positions. and better terminal error than INE1.

Removed and patched a number of Rosemount static pressure spikes. We used the Garrett for these corrections (usually less than 5 seconds in duration).

The ASDL had intermittent failures between 1117Z and 1143Z. It was then taken down until 1351Z for repairs.

LF radar failed shortly after take-off and was down the rest of the flight.

	Take Off	Landing
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Aircraft Static Pressure	1005.1 mb	999.5 mb
Corrected Tower Pressure	1005.0 mb	999.5 mb

Jack Parrish

FLT ID: 871012H	FM: KMIA	TO: ?
FLT NO: 3-88	BLK IN: 1900Z	ATA: 1854
ETD: 10Z	BLK OUT: 1015	ATD: 1026
ETE: 9	BLK TIME: 8:45	FLT TIME: 8:28
SPONSOR ORG: NITC	PROGRAM: RECCO	PURPOSE: H. Floral

OR0 PERSONNEL

AC	Turner ✓	SYS ENG	Tarvin ✓
CP	Meyers	DATA SYS	Leyva ✓
NAV	Nobutis ✓ / Secretan ✓	RADAR	Lind ✓
FE	Fleury ✓	BT/ODW	
RADIO	McConnakes ✓	CLD PHYS	
FD	Parrish ✓	DOPPLER	

PARTICIPATING SCIENTIST/VISITORS/OAO

[illegible]

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

RECCO IN TS / H. FLOYD MN 0913A 12, 15, 182 Fixes
SP at SK about

FIX	1119Z	23	52N	82 57W	995mb	Max wind 345/67kt at 270/20
FIX	1218Z	23	54N	82 49W	994mb	Max wind 270/65kt at 185/25
FIX	1347Z	24	14N	82 29W	994mb	" " 340/72 @ 260/15
FIX	1516Z	24	26N	82 06W	994mb	" " 310/70 @ 180/45
FIX	1626Z	24	29N	81 54W	994mb	" " 345/71 @ 270/20
FIX	1753	24	45N	81 26W	994mb	" " 310/65 @ 195/45

LF Adams failed early in FRT.

ASDC failed, repaired after second fix

6 Penetrations ✓

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2 FILE

FLT ID: 871012.H

TIME OFF: 1026Z

TIME ON: 1854Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	PS 1005 SP 1003.5	Cell 1005 Alt 1005.5	ALT 999.5	PS 1000.3 PS(61k) 999.7

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

AXBT

AXCP

ODW

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

87101214 H. FLOYD ACCO

Time	LAT	LONG	TK	WD	WS	PA	GA	TA	TD	RD	SP	PS	HT		
1042	25 17	82 55	242	158	42	1540	1529	12.2	12.5	22.8	1003	1450	836		
1054	24 55	81 41	243	161	43	1584	1566	19.7	12.5	24.5	999.5	837	1430		
1103	24 38	82 16	246	151	40	1580	1550	18.9	12.3	24.5	994	837	1419		
1119	23 52	82 57									995				
1145	23 45	84 34	106	357	44	1567	1562	16.7	13.3		1004	838	1445		
1154	23 35	83 58	109	245	51	1526	1511	19.6	12.3	26	1002.3	842	1439		
1210	23 23	82 50	12	290	50	1506	1517	23	17.1	26.1	995	840	1444		
1218	23 54	82 47		CALM							994		1374		
1232	24 46	82 46	2	53	40	1534	1509	18	—	—	999	840	1421		
1240	25 16	82 47	13	62	23	1532	1500	22.2	16.5	23.2	999	842	1429		
1304	24 39	83 48	221	12	44	511	442	21.7	—	26.5	1003	953	22		
1312	24 14	84 12	220	358	33	518	462	22.5	20.8	28	1004	953			
1325	24 03	83 42	89	9	41	500	429	22.3	20.8	27.3	1002	954			
1347	24 14	82 29		CALM							994				
140330	24 17	81 07	89	170	45	500	469	23.6	22.9	27.2	999	948			
1417	24 20	80 49	322	176	44	512	448	24.0	23.6	27.6	1002	953			
1430	25 06	81 07	321	156	44	526	441	24	23.7	25.1	1000.2	951			
144830	25 57	81 54	322	20	52	529	463	19.5	18.2	24.4	1003.5	952			
1516	24 26	82 06									994				
154530	24 03	80 56	62	193	47	546	460	22.9	21.7	27.7	1002.3	949			
155330	24 18	80 25	64	186	43	543	470	24.5	21.9	27.9	1001.7	949.2			
1605	24 32	80 25	271	180	50	547	569	23.8	22.9	27.3	1000.6	949.4			
1626	24 29	81 54									994				
1659	24 27	83 43	113	2	39	490	444	22.3	19.4	26.9	1006	956			
170630	24 15	83 14	114	358	36	491	441	21.5	18.7	26.6	1005.1	956			
171630	23 58	82 35	117	357	48	491	419	22.6	17.2	27.2	1002.6	956			
1731	23 38	81 23	0	313	57	526	428	20.6	20.1	27	1000.5	952			
1753	24 45	81 20				575					994				
1812	25 46	81 30	318	11	61	537	464	18.2	17.9	23	1003	950			
182830	26 19	81 43	137	2	50	583	1550	13.9	10.7	19.4	1003	834			

A/C COMMANDER		NAVIGATOR		A/C NO.		MISSION NO.		TIME AIRBORNE		LOCATION		DATE		PROJ. NAME	
TURNER		SECRETAN NOKUTIS		N42RF				140518542 10.10262		MIA LA		12-Oct 1987		T. S. FLOYD	
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						
1026	25-48.1 080-16.2	4 -	25-48.0 080-16.1	+0.1 +0.1	25-48.0 080-16.0	+0.1 +0.2			TAKEOFF						
1119		9 -	23-52.5 082-56.5		23-51.8 082-58.7				LOT						
1218		9 -	23-54.1 082-48.1		23-53.8 082-49.5				LOT						
1347		9 -	24-15.3 082-18.0		24-13.9 082-20.6				LOT						
1355	24-16 081-48	2 -	24-17.3 081-47.4	-1.3 +0.6	24-16.4 081-50.4	+0.4 -2.4			360/19						
1502	25-22.5 082-11.0	2 -	25-25.0N 082-06.8W	-2.5 +4.2	25-23.3N 082-12.0W	-0.8 -1.0			155/51						
1514		9 -	24-27.7N 082-01.7W		24-25.8N 082-06.3W				LOT						
1610	24-31.5 080-49.5	2 -	24-32.0N 080-45.3W	-0.5 +4.2	24-31.1N 080-51.5W	+0.4 -2.0	1.5 700	255 268	272/48						
1626		9 -	24-30.5N 081-47.0W		24-29.3N 081-53.8W				LOT						
1734	23-44N 081-41.0W	2 -	23-46.7N 081-39.1W	-2.7 +1.9	23-46.0N 081-45.5	-2.0 +4.5			359/51						
1752		9 -	24-45.1N 081-19.6W		24-44.6N 081-26.7				LOT						
1900	25-48.2 080-17.6	4 -	25-51.6N 080-12.9W	-3.4 +4.7	25-51.7N 080-19.2W	-3.5 -1.6			CHOCKS						
ATC CLEARANCE:															
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															

PROPOSED T.O.	10002
ACTUAL T.O.	1026

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	0800	N	N		0	1002	1900	1100	-3.4	+4.7	2
INS 2 IMU	0800	N	N		3	1002	1900	1400	-3.5	-1.6	4

OTHER REMARKS: