

19871102HI_FDIR

HURRICANES 87 DATA SUMMARY

871102H T.D. 14 RECCO (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. INE1 was used because of a better ground speed error.

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

	Take Off	Landing
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Aircraft Static Pressure	1013.7 mb	1012.5 mb
Corrected Tower Pressure	1014.0 mb	1013.0 mb

Jack Parrish

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

FLT ID: 871102.H TIME OFF: 0028Z TIME ON: 0633Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	PS 1014.9 SP 1012.5	CAL 413 1014	SP 1012.5 PS 1013.2	ALT 1013

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

1

OAO

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

RXBT

RXCP

ODW

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

87110114 T.D. South of Cuba PACCO

Time	LT	LD	TK	WD	WS	FA	GA	TA	TD	ED	SP	PS			
0030	25 44	80 13	166	62	28	780	830	19.7	19.0		103.5	536			
003430	25 29	80 20	221	191	10	2390	2514	12.0	11.4		101.1	753	- @ 8K A		
0051	24 29	80 55	198	171	14	4543	4792	0.3	-1.8		1010.1	574			
011230	22 55	81 24	186	149	10	4575	4704	1.4	-1.2		982	572	Over Cuba		
012615	21 54	81 24	187	153	5	4572	4826	2.0	-8.6		1007	572	S coast of Cuba		
0138	20 57	81 28	175	47	2	4570	4824	1.3	-8.1	22.3	1006	572			
014730	20 13	81 27	178	103	9	4554	4739	2.4	-4.7	21.7	10074	602	↓ Near ATUVI		
015500	20 10	81 04	60	333	22	406	447	25.4	21.3	27.6	1008	959	- @ 1.5 K		
0241	20 26	81 37	270	345	17	455	446	24.3	23.7	28	10096	960.5	W of center		
0302	20 12	81 11	110	328	20	448	436	24.4	24.0	27.8	1009	960.5			
0333	21 00	81 01	247	56	13	441	434	24.0	23.7	26.0	10093	961.5	NW of center		
0343	20 44	81 40	247	7	14	439	432	24	23	28.0	1010	961			
0458	20 01	80 14	90	222	16	463	451	24.1	24.1	28.0	1009	959	S/E of center		
050330	20 11	80 08	320	202	17	462	446	24.7	22.6	27.7	959	1008.5			
20524	↑ 9	→	to	KMIA											
053730	21 55	81 24	9	194	9	4867	5130	-0.9	-5.6	—	1007.7	550	→ to KMIA		
0557	23 29	81 16	12	202	8	4860	5123	-0.0	-10.7		1006.7	550			
0627	25 37	80 26	9	64	23	904	—	18.9	18.9	22	1012.3	908			

A/C COMMANDER		NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE		LOCATION	DATE	PROJ. NAME
TREKOR		NOLITS	N42RF	RECE	00272 T.O 06342 LND		MIAMI/NTL	1 NOV 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
2336	25-48.2N 080-17.6W	4 -	✓	0	✓	0			EHOOKS
0110	23-06N 081-23W	2 -	23-05.3N 081-22.3W	+0.7 +0.7	23-04.4N 081-23.0W	+6.6 0	15.0 264	185 186	VARIED WDR
0212		9 -	20-39.5N 080-36.1W		20-39.6N 080-36.5W		1.5 214	116 113	
0226		9 -	20-25.3N 080-38.4W		20-25.4N 080-39.5W				CENTER
0316		9 -	20-25.9N 080-35.4W		20-26.3N 080-36.5W				CENTER
0318		9 -	20-32.5N 080-35.1W		20-32.9N 080-36.0W				CENTER
0405		9 -	20-41.1N 080-39.6W		20-41.9N 080-43.3W				CENTER
0441		9 -	20-40.5N 080-41.9		20-41.9N 080-43.2W				CENTER
1514		9 -	20-35.4N 080-44.2W		20-36.8N 080-47.2W				CENTER
0532	23-06N 081-23W	2 -	23-03.6N 081-21.1N	+2.4 +1.9	23-06.4N 081-25.0W	-0.4 -2.0	16.0 297	008 008	VARIED WDR
0640	25-48.2N 080-17.6W	4 -	25-45.0N 080-15.8W	+2.8 +1.8	25-47.8N 080-19.6W	+0.4 -2.0			EHOOKS
ATC CLEARANCE: 750 118.1 1425 160 CFTD 190 1406 12.0 110.0 124.7 111.0 113.0 115.0 132.2 7R 1406 12.0 110.0 124.7 5.0 124.7 119.4 2993 020° 113.0 115.0 060° ENROUTE CLEARANCES: 118.3 CFTD									
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									

0000Z 2 FIX TIMES
0600Z
0500Z

FLIGHT PLAN

FROM MIAMI, INTL 25-48.2N
080-17.6W

PROPOSED T.O. 2352 1 NOV 87

ACTUAL T.O. 0026 2 NOV 87

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
X1	21-43N 081-06W MARATHON NDB	MIA	↑	250	212	L	V	212	0	212	250	80	80	+19 +19	0046	0049
X2	24-00N 081-13W TADPO (FIR)	G448	150	280	188	L	V	188	0	188	280	43	123	+19 +18	0055	0058
X3	23-06N 081-23W VARDER VOR	G448	✓	✓	189	L	V	189	0	189	✓	55	178	+12 +140	0107	0110
X4	21-36N 081-31W CAVALRO DELSUR	G448	✓	✓	186	L	V	186	0	186	✓	90	268	+20 +100	0127	0130
X5	20-00N 081-25W ATUUI (FIR)	G448	✓	✓	178	L	V	178	0	178	✓	96	364	+20 +120	0147	0150
6	KANEX 20-00N 20-30N 081-34W	21-10N			080-40W											
7	21-10N 080-40W 20-30N 080-33W	20-30N			080-40W											
8	20-28N 080-10W 185N															
9	20-33N 082-08W KATMA															
4	UCL															0535
3	VARDER															0553
2	TADPO															0601
1	MARATHON															0610
5	MIA 25-58N 080-38W															0627

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	2225Z	NONE	NO		5	2335	0640	7+05	+28	+1.8	2
INS 2 IMU	2225Z	NONE	NO		5	2335	0640	7+05	+0.4	-2.0	6

ALIGN REMARKS: WAS STATUS 0 & WENT UP TO 5 DURING RAIN SHOWERS.

OTHER REMARKS: NO NCS OR NGFS ON BOARD