

19871103HI-FDIR

HURRICANES 87 DATA SUMMARY

871103H T.D. 14 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.

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
	-----	-----
Aircraft Static Pressure	1011.0 mb	1007.0 mb
Corrected Tower Pressure	1010.9 mb	1007.2 mb

Jack Parrish

FLT ID: 871103H	FM: Km. A	TO: Km. A
FLT NO:	BLK IN: 2138	ATA: 2133Z
ETD: 1400Z	BLK OUT: 1407Z	RTD: 1416Z
ETE: 7+30	BLK TIME: 7+32	FLT TIME: 7+17
SPONSOR ORG: NHC	PROGRAM: Recco	PURPOSE: Recco T.D.

0A0 PERSONNEL

AC	TURNER ✓	SYS ENG	SCHRIKER
CP	GENZLINGER	DATA SYS	THOMPSON
NAV	HENDERSON ✓	RADAR	LINO
FE	FLEURY ✓	BT/ODW	
RADIO	NUUN ✓	CLD PHYS	
FD	BOGERT ✓	DOPPLER	

PARTICIPATING SCIENTIST/VISITORS/OAO

[illegible]

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

- 1) ENR 25N 82-30W (DRY TORTUGAS)
- 2) MN 0714A CYCLONE D.P. BAL @ 1941-2
- 3) 152, 182, 212 fixes

FIX 1504Z	24-23N	83-00W	MIN SLP 1008	WIND ~30KTS
FIX 1543Z	24-25N	83-07W	" "	
FIX 1705Z	24-36N	83-25W	MIN SLP 1007	WIND 30 KTS
FIX 1813Z	24-58N	83-33W	MIN SLP 1006	WIND ~35KTS
FIX 1923Z	25-00N	83-23W	" "	" ???
FIX 2033Z	25-10N	83-05W	" "	SUR TRAIL ~21

ALT 29.78
1007.5 CAL = 1007.2

P5-1010.7 1007

SP-1007.8

SUR TRW's ~26m!
 > 60 K...

U.S. DEPT. COMM./NOAA/OAD - DATA SECTION WORK FORM NO.2 OADWF2 FILE

FLT ID: 8711034

TIME OFF: 1416Z

TIME ON: 2133Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	PS 1010.8 SP 1010.7	ALT 1011 CALC LND 1010.5	PS 1007 SP 1007.8	ALT 1007.5 CALC LND 1007.2

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

RXBT

RXCP

ODW

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

87110314

☆ U.S. GOVERNMENT PRINTING OFFICE: 1980 765 010-1446

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME		
TURNER	HENDERSON	N42RF	871103H	1416 Z	MIA	03 NOV 87	Recco TD#14		
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
1348	25-48.2 80-17.6	4 1	25-48.2 80-17.6	φ	25-48.2 80-17.6	φ	X	X	TBLOX
1504		9 1	24-22.6 83-00.6		24-22.3 83-02.4		1.5 233	250 252	Δ
1521		9 1	24-19.6 84-02.8		24-19.6 84-11.4		1.5 224	107 108	
1543		9 1	24-24.6 83-07.0		24-25.0 83-07.5		1.5 231	352 253	Δ
1622		9 1	25-15.6 83-51.8		25-16.0 83-54.2		1.5 232	226 226	
1705		9 1	24-35.7 83-23.8		24-36.2 83-25.4		1.5 228	056 054	Δ
1725	24-42.0 82-31.0	2 1	24-43.5 82-30.4	-1.5 +0.6	24-44.9 82-31.0	-2.9 φ	1.5 233	065 061	EYW 1000/40
1813		9 1	24-57.7 83-32.0		24-58.1 83-36.3		1.5 223		Δ
1921		9 1	25-04.2 83-19.8		25-05.6 83-24.7		1.5		
1923		9 1	25-00.8 83-23.1		25-02.2 83-28.0		1.5 230	221 221	Δ
2011	24-21.0 81-58.0	2 1	24-19.5 81-58.5	+1.5 -0.5	24-21.8 82-00.0	-0.8 -2.0	1.5 214	293 297	0320/17 EYW
2033		9 1	25-04.5 83-04.6		25-07.5 83-08.9		1.5 212	000 002	Δ
ATC CLEARANCE: MIA 5 75.0 118.1 47175Q R100 29.78									
R120 R180 R250 500 73.0 R130 R140									
50 31.2 75.0 29.76 34.0 L100 R140 31.5 R180									
ENROUTE CLEARANCES: L140 L120									
24.47									
83.28									
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									

Page 3

0900 L

ACTUAL T.O. 1416 Z

[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		X	X		φ	1348	2140	7452	+1.8	+0.8	4
INS 2 IMU		X	X		φ	✓	✓	✓	+0.3	-0.7	2

ALIGN REMARKS:

OTHER REMARKS: