

19800809H1-FDIR

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RFC-1 WORK FORM (7-76) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FACILITIES CENTER MIAMI, FLORIDA		AIRCRAFT M42RF	
FLIGHT LOG		FLIGHT NO. 50-20	
		FLIGHT ID 800809H	
		DATE 9 August '80	
TAKE OFF (City or airport) KMIA	LAND (City or airport) KMIA	ALTITUDE 10 000'	
PURPOSE Hurricane "Allen"			
PROPOSED TAKEOFF TIME: 2330 Z		PROPOSED FLIGHT DURATION: 10 hrs	
TIME IN: 0946 Z		TIME ON: 0943 Z ^{1/10}	
TIME OUT: 2324 Z		TIME OFF: 2335 Z	
BLK. TIME:		FLIGHT TIME:	
FLIGHT PERSONNEL			
OPERATIONS CREW		SCIENTIFIC CREW	
Werkey Guezlinger Mandelkern Nelson	Cornell Rose Papworth	Roschy Lambrecht Sims Connor	Zysko Sheat Parrish Black Goldenberg
PROPOSED MISSION 0210, 03, 06, 09 fixes			
ACTUAL MISSION AND REMARKS 03, 06, fixes 04, 0430, 0532, 0640 Intermediate fixes Flew north-south along coast. Approx 100 nm to north and 60 nm to south of eye. On first pass we flew approx 150 nm to north of eye. Hurricane winds extended to 150 nm to the north of the eye.			
DATA COLLECTED AND REMARKS First 3 fixes by penetration Later fixes by radar-eye over land			

0740

Corpus Christi

N 27 59.4
W 097 26.7

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME				
Wickley	Nelson	142	800809	23 34	N 25 48.3 W 080 17.6	9 Aug 80	G Allen				
TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS				
23 24	N 25 48.3 W 080 17.6	4	SAME		SAME		BLK				
23 34	N 25 48.1 W 080 18.0	4	SAME 18.1		SA 18.1		T/O.				
0009 ¹ / ₂	N 25 58.0 W 082 40.0	<u>2</u> 10	N 25 55.3 W 082 41.5		N 25 55.3 W 082 41.5		MEA 089/114 ¹ / ₂				
0058	—	10	N 26 02.9 W 087 27.2		N 26 03.8 W 087 25.6		INE Q ¹ / ₁₀₃₄ #2034				
02 39		10	N 25 51.2 W 096 51.2		N 25 53.0 W 096 48.3		0120 ¹⁶ / ₇₁₈₀ PASS #1				
03 02	N 27 26.4 W 096 47.2	2	N 27 24.1 W 096 51.5		N 27 26.0 W 096 48.6		CRP 310/45				
04 03		10	N 25 59.3 W 097 01.2		N 26 01.4 W 096 59.1		PASS # 2				
04 36		10	N 26 02.0 W 097 08.0		N 26 03.7 W 097 05.4		PASS # 3				
04 54	N 27 16.0 W 097 04.5	2	N 27 15.91 W 097 06.6		N 27 16.1 W 097 04.3		352/43E CRP				
05 30		<u>6</u> 10	—		N 26 03.9 W 097 02.8		ABERM FRT 1846 G Allen Ashor H4				
06 02		<u>6</u> 10	N 26 07.0 W 097 02.8		N 26 08.1 W 097 02.8		ABERM TH 358.5 lng 12. H5				
06 16	N 27 10.3 W 097 08.0		N 27 11.1 W 097 06.3		N 27 11.4 W 097 04.2		358/47 CRP BAD FIX TAKEN AZ				
SYS	BEGIN ALIGN TIME	NCS CONN	Ω AID	TIME OUT OF COARSE ELAPSE ALIGN POST TIME	ALIGN STS 0-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	Δ T (2)(1)	TERMINAL ERRORS		
									LAT	LONG	GS
INS 1	22 30	Y	Y	—	5	23 20	09 47	10.5	0	+0.9	10
INS 2 or IMU	22 30	Y	Y	—	5	23 20	09 47	10.5	41.1	-0.1	0
ALIGN REMARKS: A/C was moved during Align Realigned at											
OTHER REMARKS:											
TYPE OF FIX : (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN (6) RADAR (7) DOPPLER (8) OMEGA (9) INERTIAL (10) OMEGA - INERTIAL											

[illegible]

1000127 Sat on

02 40 E
25.7 N
97.0 W

TIME	LA	LONG	RA	PA	TA	TD	WD	WS	HT
100630Z	26.0	84.7	5168	4897	-2.4	-18.7	78	7.4	5884
0132	26.1	90.7	5810	5490	-4.4	-11.4	163	24	5890
0200	26.0	93.2	5768	5495	-4.9	-6.1	164	48	5853
0232	25.9	96.3	2928	3052	12.2	12.2	167	67	2852
0337	27.5	96.8	3064	3029	9.6	9.6	95	69	3041
0400	26.2	97.0	2804	3029	13.1	13.1	90	68	2779
0434	26.0	97.1	2679	3025	15	15	250	10	2646
0500	27.6	97.1	3046	3024	9.7	10.7	110	82	3041
0532	25.9	97.1	2835	2026	13.1	13.0	235	49	2833
0600	25.9	97.1	2835	3024	13.2	13.2	213	60	2813
0630	27.3	97.1	3003	3028	10.2	11.0	111	80	2986
0730	26.5	92.8	7445	7054	-12.8	-13.1	199	26	5855
0830	26.1	86.8	7415	7029	-16.2	-24.0	305	13	5889

0708	All 60Hz Power lost
0722	back on again

Adding more than 1 or 2 recess stops 'text' prog - also I VORTER

CPU 2	hangs up - not HALT
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9 Aug 80
N 42 RF

"Allen"

Time	Lat	Long	D	S	T _A	T _D	P _A	P _D	SST	SP			
0053	26.0	87.2	70	4	-1	-16	5171	4292	22	1007		Sound	
0113	26.1	88.9	142	6	-1	-12	5171	4822	22	1010			
0125	26.1	90.0	149	9	-5	-14	5213	5492	22	1009			
0147	26.0	92.1	159	23	-5	-11	5793	5495	21	1006			
0157	26.0	93.1	167	26	-5	-7	5767	5495		1002		Sound	
0211	26.0	94.5	174	21	-6	-3	5713	5495		992		Sound	
0222	25.9	95.4	168	34	-2	-2	5650	5471		988		Sound	
0222	Decayed To 10 k'												
0555	25.6	97.1	240	26	12	13	2892	3025		973		40 Miles from eye	360
0559	25.8	97.1	225	28	13		2848	3025		968		30 Miles	360
0602	Eye at 26° 08' N 97° 15' W Radar												
0626	27.5	97.1	109	37	10		3012	3026		987		80 Miles	120
0632	27.2	97.1	117	41	11	10	2726	3025		986		60	120