

RFC-1 WORK FORM (7-76) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FACILITIES CENTER MIAMI, FLORIDA				AIRCRAFT N 42 RF
				FLIGHT NO. 46-80
				FLIGHT ID 200805H
				DATE 5 August '80
TAKE OFF (City or airport) SJU		LAND (City or airport) SJU		ALTITUDE 1500' 15K, 18K, 22K, 25K
PURPOSE Hurricane Allen.				
PROPOSED TAKEOFF TIME: 1000Z		PROPOSED FLIGHT DURATION : 10 hrs		
TIME IN : 20:23 Z		TIME ON : 20:14 Z		
TIME OUT : 10 14 Z		TIME OFF : 10:23 Z		
BLK. TIME: 10.2 hrs		FLIGHT TIME : 9.9 hrs		
FLIGHT PERSONNEL				
OPERATIONS CREW		SCIENTIFIC CREW	VISITORS	
Worley	Adams	Pearcey	Zysko	Jorgenson
Genzlinger		Brunson		R. Black
Mandlkrum		D.Grant		Winfel
Rose		Connor		Parris
PROPOSED MISSION Eye wall and Retained Convective Study As defined in the Hurricane Field Program Plan At the NHEML on pps 42,56, & 58. Did 15K, 10K,				
ACTUAL MISSION AND REMARKS As proposed except entered pattern at #3 Then flew 3,2,1,4,2,5. M.I. was between 5-10K picked up race track brg. 330°. D.F. <u>not</u> fly box between pts C, 9. Fly by 2 pattern X . Fly from bar 15, 10, 5 K, 1.5 K, but couldn't complete rain band cross at 500'.				
DATA COLLECTED AND REMARKS				

TIME ON TIME OFF IN OUT

FLIGHT 800805H
 AIRCRAFT 42RF
 DATE 5 AUG 80
 DAY #

TOTAL REELS	
VTR	0
DMTR 1	8
DMTR 2	7

REEL #	TIME ON	TIME OFF	NO	LF	TA	COMMENTS
1-1	103800	111520		✓	✓	
1-2	103800 115115	122625		✓	✓	
1-3	130505	134020		✓	✓	
1-4	141640	145205		✓	✓	
1-5	152820	160700		✓	✓	
1-6	164405	172230		✓	✓	
1-7	175820	183320		✓	✓	
1-8	183320			✓	✓	
1-8	190920	192545	-	✓	-	Calibrations - altered what radars being recorded

REEL #	TIME ON	TIME OFF	NO	LF	TA	COMMENTS
2-1	111525	115110		✓	✓	
2-2	122630	130500		✓	✓	
2-3	134025	141635		✓	✓	
2-4	145210	152816		✓	✓	
2-5	160705	164400		✓	✓	
2-6	172234	175815		✓	✓	
2-7	183328	190915		✓	✓	

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION SJU	DATE 5 AUG.	PROJ. NAME
WERLEY	ADAMS	N42RF	800805	10 2	18-66-	1980	"Allen" 9

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
101509	18-26.4 66-00.7	4/1	18-26.1 66-01.0	+1.3 -.3	18-26.1 66-01.2	+1.3 -.5	Block out
102325	18-26.4 66-00.7	4/1	18-26.4 66-00.9		18-26.2 66-01.1		TOFF
1135							FP #3 W/H 115/97 DA 72R
114834			15-54.6 70-25.1	(15-54.6 70-23.6) 2			9
120306			14-58.9 70-40.8		14-58.8 70-39.5		P+1
122607			16-09.5 71-25.6		16-10.3 71-23.4		P+4
123727			15-57.3 70-40.1		15-56.4 70-37.3		9
125233			15-38.9 69-41.1		15-40.2 69-38.3		P+5 190/90
130729			.		15-06.4 70-12.9		P+6 213/90
132121			16-00.4 70-54.9		16-01.8 70-52.8		9 12K+5
133723			17-00.9 71-29.1		17-02.6 71-26.2		P+7 095/90
140116			16-06.3 71-07.7		16-07.8 071-04.3		9

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						LAT	LONG	GS
INS 1	0°	✓	✓	—	0	0945	2024	10.7	-1	-1	2
INS 2 & HME	0°	✓	✓	—	0	0945	2024	10.7	-9	+3	0

ALIGN REMARKS:

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

N42 RF

"Other" Rainband, convective study

15 Aug 80

926

N42 RF

5 Aug 80

"Allen"

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Time	L _s	L _o	D	S	T _A	T _D	R _A	R _D	Sp.		
1820	17.1	70.8	156	36	0	21	4731	4362	1400	Cross Rain Band) 15 K'	
1828	17.1	70.5	160	33	7	6	3489	3324	1006	Cross Rain Band at 10 K'	
1824	17.0	70.8	160	36	14	14	1954	1917	1005	Cross Rain Band at 5 K'	
1848	17.1	70.5	125	34	22	21	4799	4754	1002	Cross Rain Band at 1.5 K'	
18	17.1	70.7	140	20	24	36	141	(over land)	11	500'	

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THS Hwy.

190600	17.6	69.5	134	41	-3	-2	4774	4553	-	142	90	straight
190820	17.6	69.3	121	33	-3	-3	4778	4554	-	142	135	216
191140	17.5	69.2	137	29	-2	-5	4787	4555	-	143	46	216
191710	17.8	68.9	137	25	-1	-4	4797	4557	-	141	136	216
192000	17.7	68.8	134	23	-1	-4	4800	4558	-	149	91	STRAILHS