

19790902HI-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 NH2-17F	
				FLIGHT NO. 7419	
				FLIGHT ID 790902H	
				DATE Sept. 2, 1979	
TAKE OFF (City or airport) KMIA			LAND (City or airport) EGLIN AFB		ALTITUDE 5kft, 1.5kft
PURPOSE Recco "David"					
PROPOSED TAKEOFF TIME:			PROPOSED FLIGHT DURATION:		
TIME IN: 0501			TIME ON: 0454		
TIME OUT: 19146			TIME OFF: 2001		
BLK. TIME: 9:15			FLIGHT TIME: 8.53		
FLIGHT PERSONNEL					
OPERATIONS CREW		SCIENTIFIC CREW		VISITORS	
Turner		Rushby		Ellwood	Miller
Noble		Darby		Jorgensen	Mosley
Correl		M. Perry		Fiorino	Powell
Burgener		Gul. A. Stein		Stewart	Hall
PROPOSED MISSION times 2100Z 09/02, 0000 09/03, 0300 09/03 Recco flight plan A.					
ACTUAL MISSION AND REMARKS Flight Director's radar altimeter display inop. SST Radiometer inop					
DATA COLLECTED AND REMARKS We disagreed with NAV first part of alt. ($\Delta \approx 20$ Kts)					
SAE 00, USED INED, TMD 1					

DAVID

790802

TIME	LAT	LONG	T	Ta	WD	WS	HT	RA	PA										
2015	25.7	79.3	18	11	100	48	1459	1585	1582										
2045	24.4	78.0	19	19	040	23	1251	1522	1750										
2115	22.9	78.1	18	16	280	24	1417	1586	1618										
2145	24.0	79.5	17	17	02	44	1424	1550	1612										
2215	24.3	77.8	21	18	190	28	1248	1539	1728										
2245	24.8	76.8	18	18	140	55	1402	1672	1769										
2315	25.3	78.2	17	17	090	60	1387	1563	1625										
2345	23.3	78.2	18	16	280	48	1385	1620	1797										
0015	23.9	77.0	18	17	190	58	5112	1594	1628										
0045	24.5	77.8	23	23	18	79	512	560	782										
0115	24.6	80.0	22	20	030	47	1000	625	787										
0146	23.1	78.5	23	21	250	23	1000	579	667										
0215	24.7	77.0	23	22	150	58	1000	574	652										
0245	25.0	78.5	24	23	110	44	981	553	784										
0315	25.0	79.1	18	16	040	66	1332	1736	1854										

KMZA

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22/1757

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443

KVPS

790902

"DAVID"

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Time	LA	Lo	WS	WD	PA	RA	T	T _D	HT	Sp	SST	5000'
2010	25.7	79.7	18.6	106	1423	1978	15.6	10.5	1327	003	NA	
2020	25.5	79.1	15.2	108	1583	1582	14.6	15.7	1459	004	NA	
2200	24.2	78.9	20.0	009	1612	1549	18.0	17.6	1361	994	NA	
2205	24.2	78.5	24.5	007	1611	1253	19.6	17.5	1086	988	—	
2208	24.2	78.3	15.6	337	1711	1564	19.3	17.9	1291	984	—	
2218	24.3											
2230	24.8	76.8	28.2	175	1624	1580	17.9	15.9	1407	999	—	
2235	24.8	76.4	24.4	166	1625	1601	17.8	15.9	1425	1000	—	
2240	24.5	76.4	22.6	158	1628	1603	17.5	16.2	1422	999	—	
2245	24.2	76.8	20.0	136	1772	1737	16.2	16.2	1411	997	—	
2250	25.0	77.0	32.0	126	1626	1588	17.6	17.1	1400	997	—	
2255	25.3	77.4	30.5	110	1626	1583	17.4	16.8	1406	998	—	
2300	25.6	77.5	32.0	99	1628	1594	16.1	16.2	1418	1000	—	
2310	25.7	78.2	34.0	89	1621	1584	15.6	15.4	1414	1000	—	N-S Run
2315	25.4	78.2	30	82	1625	1573	16.9	15.8	1328	996	—	
2320	25.1	78.2	30	80	1625	1532	17.7	17.5	1353	991	—	
2325	24.6	78.2	10	87	1793	1604	19.7	18.8	1248	978	—	just inside wall
2333	24.5	78.2			EYE							
2345												
2350	23.3	78.2	18.7	262	1622	1586	18.1	17.1	1407	998	—	E-W Penetration @ 1500'
0030	24.5	76.7	29.1	145	650	564	22.8	21.5	-7	999	—	
0035	24.5	77.1	34.0	160	650	420	22.7	21.3	-150	982	—	
0040	24.5	77.5	31.0	155	682	264	22.8	22.7	-205	990	—	
0045	24.5	77.9	40.0	180	782	532	22.9	22.2	-285	967	—	Max wind eye wall
0051	24.6	78.3			EYE							
0105	24.6	79.3	29.5	014	697	650	22.5	19.0	29	003	—	
0110	24.6	79.6	32.0	27	695	611	22.3	19.5	-4	999	—	
0115	24.6	80.0	20.0	26	692	627	22.3	18.3	16	001	—	
0220	24.7	77.3	29.3	155	654	554	23.1	21.7	-19	999	—	E-W Penetration @ 1500'
0225	24.7	77.7	34.0	160	706	573	22.6	21.5	-58	993	—	
0230	24.7	78.0	31	170	706	500	23.2	22.5	-144	984	—	Turn north in eye
0233	25.0	78.8	40	40	764	650	22.2	22.1	-74	985	—	
0255	24.9	78.9	36	10	788	341	23.1	21.5	-69			

790902H DAVID 2102 - 0454

TIME	LA	LO	ΔTIME	LA	LO
174800	23.90	077.30	10 860	24.25	077.85
204900	24.25	077.85	304 6.2	24.30	078.10
221200	24.30	078.10	282 5.2	24.47	078.17
233300	24.47	078.17	339 4.2	24.58	078.30
245100	24.58	078.30	04 620	24.80	078.60
270500	24.80	078.60	312 3.8	25.20	079.02
293100	25.20	079.02	07 860		
			308 4.9		
			08 960		
			316 6.8		

A/C COMMANDER		NAVIGATOR		A/C NO.		MISSION NO.		TIME AIRBORNE		LOCATION		DATE		PROJ. NAME	
Turner		Bergner		114-EE		1707		2001:15		KN11A N25-48.3 W40-17.6		Sept 79		"David"	
TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION		LAT LON COR'S	INS #2/50 POSITION		LAT LON COR'S	REMARKS						
1713	N 25-48.3		N 25-48.4		-0.1	N 25-48.4		-0.1	ENG						
1240	N 25-48.3		W 80-17.0			W 80-17.5		+0.1	Taxi						
2001									Tot						
2049			N 24-14.9 W 77-51.8			N 24-15.2 W 77-51.8			Eye "David"						
2150	N 24-12.5 W 79-32.0		N 24-12.8 W 79-32.3		-0.3 -0.3	N 24-13.3 W 79-32.1		-0.8 -0.1	BSY 158°T/94						
2212			N 24-19.7 W 78-02.5			N 24-19.0 W 78-02.6			eye "David"						
2258	N 25-41.0 W 77-47.0		N 25-37.5 W 77-47.3		+3.5 -0.3	N 25-38.4 W 77-46.8		+2.6 +0.2	ZBV 090°T/81.5						
2333			N 24-22.4 W 78-09.4			N 24-22.4 W 78-09.8			eye "David"						
0022			N 24-16.1 W 76-39.4			N 24-17.4 W 76-38.8			eye "David"						
0051			N 24-23.1 W 78-17.8			N 24-23.7 W 78-18.2			eye "David"						
0108	N 24-35.0 W 79-30.0		N 24-34.4 W 79-26.7		+0.6 +3.3	N 24-35.2 W 79-27.3		-0.2 +2.7	ZBV 189°T/67.5						
0241			N 24-43.4 W 78-31.9			N 24-45.5 W 78-32.6			eye "David"						
0302			N 24-46.4 W 78-36.7			N 24-48.1 W 78-36.4			eye "David"						
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		37	Ω		1	1920	0502	9442				3			
INS 2 or IMU		32	Ω		1	1920	0502	9442				0			
ALIGN REMARKS: Both Ω aided line, alignment to 141															
OTHER REMARKS: 2047 warn #1 INS decouple															
TYPE OF FIX: (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN (6) RADAR (7) DOPPLER (8) OMEGA (9) INERTIAL (10) OMEGA - INERTIAL															

2863

1942