

19810816 I - FDIR

1

RFC-1 WORK FORM (7-76) * U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FACILITIES CENTER MIAMI, FLORIDA		AIRCRAFT N43RF	
		FLIGHT NO. 32-81	
		FLIGHT ID 810816I	
		DATE AVG 16 1981	
TAKE OFF (City or airport) MIA		LAND (City or airport) MIA	
		ALTITUDE 1500'-500'	
PURPOSE RECON T.S. DENNIS			
PROPOSED TAKEOFF TIME: 10Z		PROPOSED FLIGHT DURATION: 9 HRS	
TIME IN: 1835		TIME ON: 1831	
TIME OUT: 0955		TIME OFF: 1005	
(8.7 HRS) BLK. TIME: 8:40		FLIGHT TIME: 8:26	
FLIGHT PERSONNEL			
OPERATIONS CREW		SCIENTIFIC CREW	
VISITORS			
TICKNOR	SCHISSEL	HAYDU	JARVI
GENZLINGER	COX	DARBY	
MANDELKERN		PARADIS	
RICCI		GOLDSTEIN	
			FENNELL
PROPOSED MISSION RECON T.S. DENNIS			
ACTUAL MISSION AND REMARKS			
12Z	23° 44' N	81° 18' W	40 KTS 998 MBS
15Z	24° 11' N	81° 13' W	50 KTS 999 MBS
18Z	24° 38' N	81° 17' W	40 KTS 998 MBS
DATA COLLECTED AND REMARKS X 1 SLOW TAPE X 1 FAST TAPE (SAIL)		2 PSM (NHRL) 7 RADAR TAPES (NHRL)	

X we have these tapes

810816I

2'

25
81.28

TIME	TK	LA	LO	RA	PA	TA	TD	WD	WS	SP	SST
0956	OUT OFF	OF MIA	MIA								
					alt	29.82		1006.7	28.72		1015.4
1011	185	25.47	80.21	792	798	22.6	18.4	125	12	1006	
1015	214	25.27	80.26	437	493	23.6	21.2	120	14	1004	
1020	217	25.0	80.5	431	488	23.7	21.7	100	13	1003	27.0
1025	227	24.8	80.7	423	485	24.1	22.1	110	14	1003	
1032	250	24.6	81.2	418	485	23.8	20.2	111	12	1003	
1035	183	24.4	81.2	412	487	24.4	21.5	105	13	1002	28.4
1040	180	24.1	81.2	406	492	23.2	22.4	110	14	1001	27.8
1045	353	24.1	81.2	403	486	23.7	20.7	110	14	1000	28.0
1054	271	24.1	81.5	404	476	23.6	21.8	088	12	1000	
1056	263	24.1	81.7	454	526	23.7	20.9	061	11	1001	28.2
1101	186	24.0	81.9	452	521	23.6	21.9	45	11	1002	
1103	191	23.8	81.9	456	525	24	21	030	10	1002	
1105	188	23.7	81.9	452	522	24	21	020	11	1000	27.0
1109	094	23.5	81.9	450	523	24	21	350	9	1001	
1112	090	23.5	81.7	442	523	24	22	320	9	1000	
1116	085	23.5	81.4	432	521	24	22	260	8	999	
1119	085	23.5	81.2	431	522	24	22	222	14	999	
1120		23.5	81.1					200	18	1000	
1122	084	23.5	81.0	437	519	23	22	190	17	1001	
1125	090	23.5	80.8	446	520	23	21	190	18	1001	
1130	090	23.5	80.9	458	518	23	21	185	14	1003	
1135	090	23.5	80.1	463	521	23	21	175	13	1003	27.4
1141	260	23.8	80.0	461	518	23.6	20.9	170	13	1003	27.5
1147	270	23.8	80.4	456	515	23	21	170	15	1003	27.3
1151	271	23.8	80.7	448	514	23	21.5	170	15	1002	
1155	262	23.8	81.0	435	514	23	22	155	17	1001	
1159	255	23.8	81.1	435	515	23.7	23.0	162	14	999	
12		23.74	81.18	420	511	24.1	21.7	170	8	999	
122531	40	24.1	82.1	445	508	24.2	20.6	030	8	1002	28
1252	03	22.6	81.3	436	506	24.6	22.2	235	8	999	27.0
1257	360	23.8	81.3	413	503	24.4	21.9	160	5	999	27.7
1300	191	23.9	81.4	415	503	24.3	22.4	180.8	5	999	
1305	185	23.7	81.4	417	504	24.0	22.6	316	12	1000	
1311	93	23.5	81.1	428	501	23.6	21.9	211	16	1001	
1316	92	23.5	80.7	444	503	23.1	22.0	190	16	1003	
1323	87	23.5	80.2	455	500	23.5	21.0	177	14	1004	27.4
1326	88	23.5	80.0	454	501	23.9	21.2	174	12	1005	27.6

SYS POW 133120

LASER RUN (SLAR)

DOWN WIND 134000 - 134200

HDG 170

UP WIND

134400 - 134600

HDG 350

over roof 4555 - 4605

PRISM WIND

134730 - 134930

HDG 250

over land

135130 - 135330

HDG 080

TIME	TK	LA	LO	RA	PA	TA	TD	WD	WS	SP	
135900	270	24.0	80.5	310	375	24.6	22.0	160	17	1003	
140200	270	24.0	80.8	299	372	24.6	22.4	160	20	1002	
140700	270	24.0	81.1	314	410	25.6	22.9	170	7	999	
1408		24.0	81.2	316	407	25.1	22.7	175	5	1000	
1414	256	24.0	81.6	330	408	24.5	22.8	320	9	1002	
1420	88	24.0	81.7	314	405	24.9	21.5	320	8	1002	
1425	90	24.0	81.4	321	405	25	22	303	12	1001	
1430	91	24.0	81.0	320	405	25	24	180	22	1001	
1442	277	24.1	81.5	342	404	24.7	21.4	165	19	1003	27.5
1445	250	24.1	80.6	338	403	24.6	21.8	155	19	002	001
47		24.1	80.7					180	21	003	
49		24.0	80.8	326	404	24	22	175	23	001	
51		24.0	81.0			25	23	200	15	000	
* 52		24.0	81.0	318	404	25.2	23	220	11	000	
56	302										
1525	272	24.5	80.3	345	401	25.3	22.4	160	18	004	27.9
1535	270	24.5	81.2	316	396	24	23	140	25		
1544	135	24.3	80.7	326	396	24	24	160	21	002	
1550	137	24.1	80.5	334	400	25	22.4	160	17		
1558	296	24.1	80.6	150	222	25.4	23.3	170	18	003	
01		24.1	80.70	147	223	25.7	23.0	188	17	003	
02	272	24.1	80.8					180	17	002	
05		24.1	81.0					212	12	001	
07		24.2	81.1					245	13	000	
1617		24.6	81.4	452	531	23.7	22.3	060	10	001	
1621	236	24.4	81.7	461	530	23.6	21.5	355	8	002	
1634	178	23.9	82.31	481	532	24	22	320	9	004	
1640	91	23.6	82.2	475	528	24	22	284	9	003	
1646	90	23.6	81.7	473	530	24.5	19.7	259	11	003	
1650	90	23.6	81.5	475	531	24.5	22	245	13	003	
1654	003	23.8	81.2	467	527	24.2	22	235	13	003	
1659	003	24.0	81.2	443	512	24	23	235	14	002	
1701	004	24.2	81.14	436	511	24	21	230	15	001	
1704	003	24.4	81.1	428	510	24	22.5	220	16	000	
1709	004	24.55	81.10	421	512	25	23	176	13	999	
1711	355	24.7	81.1	422	512	24	22	122	17	1000	
		24.92	81.13						19	max	
1719	186	24.9	81.2	435	511	23	22	100	16	001	
1721	187	24.8	81.25	428	510	24	23	105	16	000	
1723	186	24.7	81.2	417	510	25	23	102	11	999	
center 24		24.6	81.3	415	511			100	2	999	
28	173	24.3	81.2	431	510	25	21	244	17	001	
32	007	24.3	81.3	433	511	25	21	250	11	001	
35	002	24.4	81.3	425	510	25	23	250	10	000	
		24.5	81.3	419	509	25	23	250	5	999	
center		24.59	81.27					200	2	998	
1741	002	24.9	81.3	428	508	24	22	103	16	001	
1744		25.0	81.3					070	19	001	
1833	30										

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81-28

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
TICKNOR	COX	43		100441	MIA	810816	Dennis

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
	25-48.2 080-17.6		25-48.2 080-17.5		✓ ✓		Ramp.
100441							T.O. 47
104405		10	24-04.3 81-11.6		24-04.7 81-12.6		
115455			23-43.3 81-16.8		23-44.1 81-17.8		5 DENNIS
1254			23-45.0 081-15.6				⊙ West of us.
133327		10	23-55.8 79-58.6		23-57.9 79-59.9		
1342			23-48-0				⊙ W of us.
1358	24-00.0 080-28.0	4	N 24-01.7 W 080-28.3		N 24-04.4 W 080-29.8		015 fix.
			N 24-01 081-13.5				0 wind
			320 23-59 081-26.4				⊙ N of P
1427			23-57.8 081-14.2				⊙ N of pos.

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		✓	✓		1	0928	1830	7#08	-0.2	-0.8	2
INS 2 or IMU		✓	✓		1	✓	✓	✓	-0.2	-0.9	2

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

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
145300			24-03.1 081-05.6				⊙ South of us. 1 ntr
145730			24-12.5 081-15.6		?		
1458			24-11.8 081-13.0				Pos of ⊙ Dennis
1610			24-18 81-13.4		24-17.8 81-14.6		Dennis ✓
							<u>Estimate</u> ahead Marathon 1710.
1708			N 24-31.7 W 081-06.7				⊙ West
			W 081-16.0				South of 45
1723			N 24-37.5 W 081-16.4				⊙ E of us.
1737			N 24-35.4 W 081-16.5				⊙ W of 45
1759			N 24-41.2 81-16.2		N 24-41.0 W 18-17.7		
			0205				
1830 40							Land
	N 25-48.2 W 080-17.6		N 25-48.4 W 080-18.4	-0.2 -0.8	N 25-48.4 W 080-18.5	-0.2 -0.9	Ramp
				1			