

RFC-1 WORK FORM (7-76)
 U.S. DEPARTMENT OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 RESEARCH FACILITIES CENTER
 MIAMI, FLORIDA

AIRCRAFT
 NH3RF

FLIGHT NO.
 51-82

FLIGHT ID
 820728I

DATE
 JULY 28, 1982

ALTITUDE
 1K-3K

FLIGHT LOG

TAKE OFF (City or airport)

MIA

LAND (City or airport)

MIA

PURPOSE

SEA - BREEZE #2

PROPOSED TAKEOFF TIME: 182

PROPOSED FLIGHT DURATION: 5HR

TIME IN: 2220

TIME ON: 221302

TIME OUT: 1725

TIME OFF: 173515

BLK. TIME: 4.9HRS

FLIGHT TIME:

FLIGHT PERSONNEL

OPERATIONS CREW

SCIENTIFIC CREW

VISITORS

TURNER

HAYDU

STONE

JORGENSEN BLACK

NOBLE

PARADIS

LORD

BELLI

COX

SCHRICKER

MARKS

FLEURY

GOLDSTEIN

FEINBERG

PROPOSED MISSION

Do L's and boxes around convective elements at between 1K and 3K. Some pent. at high levels before going back to MIA

ACTUAL MISSION AND REMARKS

as planned

DATA COLLECTED AND REMARKS

1 SLOW

GRADAR

VP/O

& DOPPLER

OPSM

COMMANDER <i>Turner</i>	NAVIGATOR <i>Col</i>	A/C NO. <i>43</i>	MISSION NO. <i>#2</i>	TIME AIRBORNE <i>173515</i>	LOCATION <i>MIA - APF over.</i>	DATE <i>2207 28</i>	PROJ. NAME <i>J...</i>
----------------------------	-------------------------	----------------------	--------------------------	--------------------------------	--	----------------------------	---------------------------

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
<i>1717</i>	<i>25-48.2 080-17.6</i>		<i>✓</i>		<i>090-17.5</i>	<i>+0.1</i>	<i>Ramp</i> <i>113.0 APF</i> <i>126.8 Freq</i>
	<i>(update)</i>		<i>26-15.3 081-26.7</i>		<i>26-15.3 081-26.6</i>		<i>26-15 081-25 IP</i>
		<i>(3)</i>	<i>081-54.4 25-55.0</i>				<i>Using #7</i>
<i>1916</i>	<i>26-15 081-25</i>		<i>26-15.0 081-25.8</i>	<i>0 -0.8</i>	<i>26-15.1 081-25.7</i>	<i>-0.1 -0.7</i>	<i>IP</i>
<i>2012</i>	<i>✓</i>		<i>26-14.9 081-25.5</i>	<i>+0.1 -0.5</i>	<i>26-15.3 081-25.0</i>	<i>-0.3 0</i>	<i>IP</i>
<i>2055</i>	<i>25-59.0 081-27.5</i>		<i>25-58.1 081-26.7</i>	<i>+0.9 +0.8</i>	<i>25-59.1 081-26.6</i>	<i>-0.1 +0.9</i>	<i>301/20 APF</i>
<i>2129</i>	<i>26-25.3 081-29.0</i>		<i>26-24.0 081-28.3</i>	<i>+1.3 +0.7</i>	<i>26-25.5 081-27.4</i>	<i>-0.2 +1.6</i>	<i>over Lake West</i>
			<i>221302</i>				<i>Land</i>
	<i>N 25-48.2 W 080-17.6</i>		<i>25-40.6 080-16.6</i>	<i>+1.6 +1.0</i>	<i>25-49.1 080-15.9</i>	<i>-0.9 +1.7</i>	<i>Ramp</i>
			<i>0</i>		<i>/</i>		

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.	ΔT (2)(1)	TERMINAL ERROR		
									LAT	LONG	G
<i>INS 1</i>	<i>1535</i>	<i>X</i>	<i>X</i>		<i>0</i>	<i>1708</i>	<i>2218</i>	<i>5.2</i>	<i>+1.6</i>	<i>+1.0</i>	<i>0</i>
<i>INS 2 or IMU</i>	<i>✓</i>	<i>X</i>	<i>X</i>		<i>/</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>-0.9</i>	<i>+1.7</i>	<i>/</i>

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

Revised Sea-breeze Experiment - July 1982

Initial alert: Noon EDT one day before experiment

Updated alert: 7:30 a.m. day of experiment

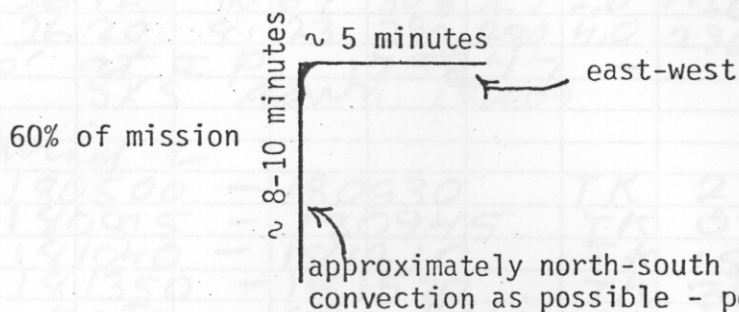
Final go decision: 11:00 a.m.-1:30 p.m. day of experiment

Location of experiment: Naples area

Maximum duration of flight: about five hours

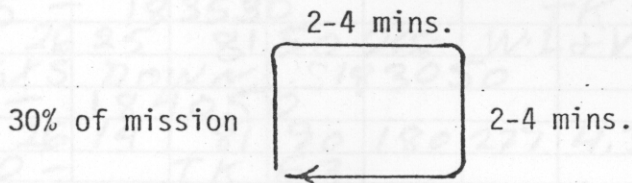
There will be three basic patterns. The lead project scientist (Jorgensen) will decide the sequence of the patterns in consultation with the flight director.

1. L-shaped pattern (VFR at 1,000 ft.)



The precise location of the L may vary with time. The pattern may be flown in either direction.

2. Box pattern (VFR at 1,000 ft. or IFR at 3,000 ft.)



box should be 2-4 minutes on a side with a convective cell in the middle

3. Line pattern down convection (penetration - IFR maximum possible altitude)

10% of mission

will be flown near the end of the mission with the Doppler pointing downward, repeat if time permits.

TIME	LAT	LOA	TK	WD	WS	RA	PA	TA	TD	SST	PS	FWR	SP
1618,3		30.07	ALT		PS	1017,6	(415)	207		(-130)	92		
MIA	SLP	ALT											
2200	1018,4	30,09		NOON									
	1018,9	30,09		11AM									
1724	BLOCK OUT												
172430	25 80	80 29	279										
	Computer system doesn't update NAV system reloaded												
172900	25 80	80 29	215	320	0.7	1510	-37	36,8	21,5	35,1	1017,7	-0,3	
1900	1015												
1500	1015												
2000	1015												
2500	1015												
3000	1015												
174630	26 12	80 64	308	269	2,0	1266	1186	24,3	13,5	30,7	829,6	-0,2	101
175530	26 20	81 23	290	280	4,0	296	262	32,5	19,9	34,2	981,7	-1,1	101
	at 1000' at IP 175847 - SYS down 180009												
	wind L												
	180500	-	180630	TK	270			256	15				
	180815	-	180945	TK	090			240	21				
	181040	-	181210	TK	180			240	4,5				
	181350	-	181520	TK	360			210	3,0				
	note a def. basis in WS when tracking 090												
182000	-	182515		TK	090								
182915	-	183530		TK	270								
183000	26 25	81 50	208	WL+V	291	257	33,5	19,4	33,7	983,7	2,2	101	
	SYS DOWN 183050												
183630	-	184050											
183800	26 14	81 90	180	227	4,3	292	252	30,7	22,6	30,9	983,7	-0,2	101
184230	-		TK	63									
184350	-		TK	351									
184430	26 03	81 78	354	257	3,4	291	251	30,8	23,2	30,5	983,5	-0,6	101
185020	-	185350	TK	90									
185510	-	185900											
185550	26 18	81 53	178	234	2,6	281	251	33,7	19,7	32,9	983,5	1,6	101
190005	-	190245	TK	090									
190030	25 94	81 59	270	213	5,0	285	246	32,0	22,0	34,0	984,0	-1,3	
190316	-	190750	TK	360									
190530	26 08	81 79	350	270	3,6	285	246	31,2	21,0	31,0	984,0	0,0	
190950	26 24	81 81	090	261	4,0	285	244	31,7	21,8	33,0	984	-1,2	
190950	-	191523	TK	090									
191820	26 24	81 39	272	273	2,0	286	257	33,6	17,8	33,5	984,9	0,8	
191850	-	192600	TK	270									
192425	SYS DOWN												
192650	-	193140	TK	180									
192700	26 20	81 91	181	260	4,5	303	258	30,8	21,8	30,5	983,3	0,2	
193215	-	193700	TK	090									
193230	25 90	81 85	090	200	2,0	286	250	31,0	22,5	30,5	983,5	-0,5	
193800	-	194456	TK	360									
193820	25 96	81,49	360	190	3,0	282	248	33,0	20,5	33,6	988	0,8	

820728 I

IME	LAT	LONG	TK	WD	WS	RA	PA	TA	TD	SST	PS	FWZ
194550	-	194747	TK 270									
195035	-	195315	TK 090									
195418	-	195806	TK 180									
195430	26 35	81 46	181	180	3.0	285	252	33.9	19.5	35.8	982.6	-1.4
195937	-	200345	TK 270									
20000	26 06	81 55	269	260	4.0	312	281	32	20	34.5	979.2	0.7
200420	-	200640	TK 360									
200747	-	201230	TK 090									
200800	26 24	81 74	88	276	3.0	282	246	32.0	20.9	33	983.5	-0.6
201700	-	202330	TK 270									
		SYS DOWN	201433									
202420	-	202705	TK 180									
202430	26 18	81 91	181	263	4.0	293	254	31.0	22.2	30.5	982.3	-0.1
202923	-	203720	TK 090									
203000	26 04	81 91	090	240	2.0	312	268	31.0	22.0	30.7	983.7	-1.2
203830	-	204130	TK 340									
203855	-	204110	320									
204208	-	204400	240									
204455	-	204740	155									
205425	-	205545	TK 090									
205650	-	210056	TK 360									
210153	-	210415	TK 270									
210500	-	210950	TK 180									
211615	-	212055	TK 090									
212200	-	212726	TK 360									
212830	-	213320	TK 090									
212945	26 39	81 52	264	292	4.5	310	279	32.2	19.6	27.0	980.0	-0.5
213545	-	214148	TK 180									
		214610	TK 090									
214700	-		TK 360									
215100	26 22	81 40	070	240	2.0	313	278	28.7	22.0	27.0	985	-1.5

change doppler tapes

change doppler tapes

change doppler tape