

19520812I1-FDIR

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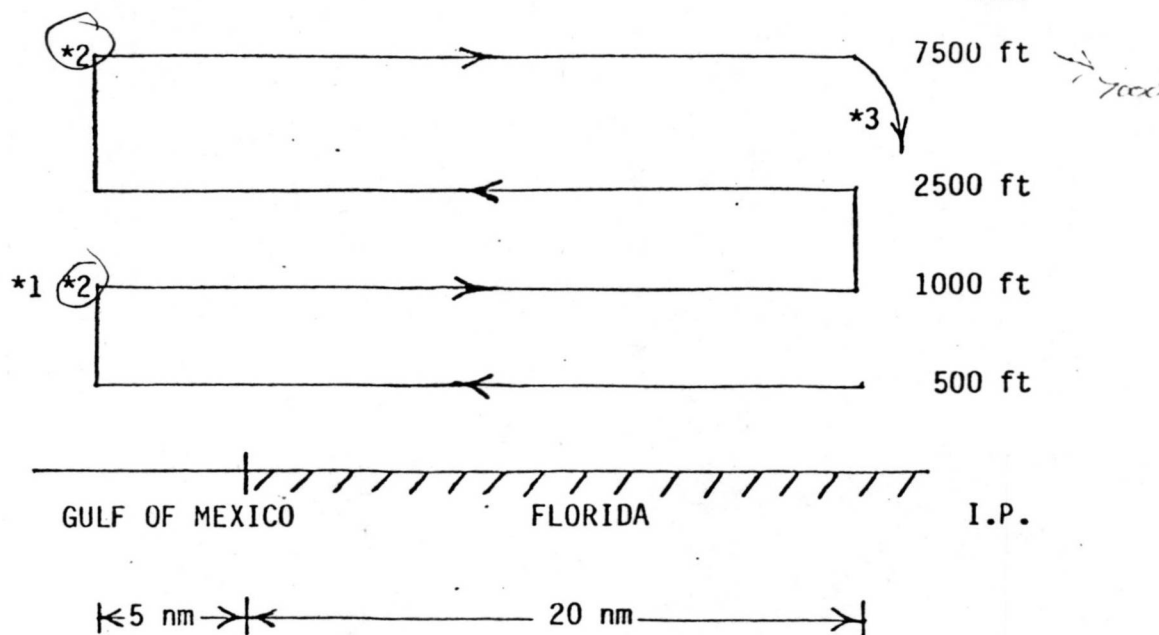
RFC-1 WORK FORM (7-76) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FACILITIES CENTER MIAMI, FLORIDA		AIRCRAFT NH3RF	
FLIGHT LOG		FLIGHT NO. 53-82	
		FLIGHT ID 820812I	
		DATE AUG 12, 1982	
TAKE OFF (City or airport) MIA	LAND (City or airport) MIA	ALTITUDE 18K 1K	
PURPOSE SEA-BREEZE #3			
PROPOSED TAKEOFF TIME: 1630		PROPOSED FLIGHT DURATION: 5.5 HR	
TIME IN: 2225		TIME ON: 222033	
TIME OUT: 1640		TIME OFF: 1650	
BLK. TIME: 5.8		FLIGHT TIME:	
FLIGHT PERSONNEL			
OPERATIONS CREW		SCIENTIFIC CREW	
VISITORS			
TICKNOR	FLEURY	HAYDU	STONE
MANDELKERN		PARADIS	
NELSON		SCHRICKER	
RICCI		GOLDSTEIN	
PROPOSED MISSION Fly to I.P. descend to 1K and fly to open water, Do wind L, Climb to 18K & drop ODW. Descend to 1K and fly large L from IP to 5 miles over water & down coast 20 miles. Be convective elements as they			
ACTUAL MISSION AND REMARKS			
DATA COLLECTED AND REMARKS 1 SLOW 9 RADAR 10 DOPPLER 2 P/O 1 RFC 1 INHRL 1 ODW CAM R, L, F, D			

A/C COMMANDER		NAVIGATOR		A/C NO.		MISSION NO.		TIME AIRBORNE		LOCATION		DATE		PROJ. NAME	
Vickroy		Nels.		No AA. 43.		820812		1650		N25 48.2 W080 17.6		12 Aug 82		SEA Breeze mode	
TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION		LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS							
1640	N25 48.2 W080 17.6	4	Some .3 Some .6			Some		BLK out. KANEA.							
164909	N25 48.0 W080 17.9	4	48.2 17.9			48.0 18.0		TP Hwy 9L 087.4°							
171024	N26 09.5 W081 15.4	4	N26 09.8 W081 14.8			N26 10.1 W081 15.0		Alley Alley bend							
1840~	N26 09.4 W	4	N26 10.2 W081 21.6		-0.8	N26 11.0 W081 21.8	-1.6	For LAT ✓ Alley Alley							
184514	N26 09.4 W	4	N26 10.1 W081 37.0			N26 10.9 W081 37.2		"							
184750	N26 17.9 W081 35.7	4	N26 18.9 W081 34.9		-1.0 +0.8	N26 19.8 W081 35.0	-1.9 +0.7	4th of Cypress Rd TURN							
191356	N26 21.9 W081 35.7	4	N26 22.5 W081 35.0		-0.6 +0.7	N26 24.5 W081 35.3	-2.6 +0.4	BUNKER H. 1/2 West. Rd Turn							
194646	N26 17.6 W081 35.7	4	N26 18.2 W081 34.2		-0.6 +1.5	N26 20.7 W081 34.8	-3.1 +0.9	Cypress Rd Junct.							
204101	N26 27.2 W081 34.0	4	N26 27.7 W081 31.8		-0.5 +2.2	N26 32.7 W081 32.2	-5.5 +1.8								
213339	N26 45.9 W081 23.0	4	N26 46.3 W081 21.0		-0.4 +2.0	N26 52.6 W081 20.9		Labelle Rd. Rd. E.							
220859	N26 20.0 W080 46.3	4	N26 20.0 W080 43.7		0.0 +2.6	N26 28.6 W080 43.2		Pump STA. 5' Fuel Line							
222033	N25 48.0 W080 18.0	4	N25 48.1 W080 15.1		+3.	N25 57.0 W080 14.5		9L Ldg.							
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 ERRORS						
									LAT	LONG	G S				
INS 1	1538	Y	050		5	1600	22 25	5.8	-0.1	+3.0	3.0				
INS 2 or IMU	1538	Y	050		5	1600	22 25	5.8	-9.1	+3.6	2.0				
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															

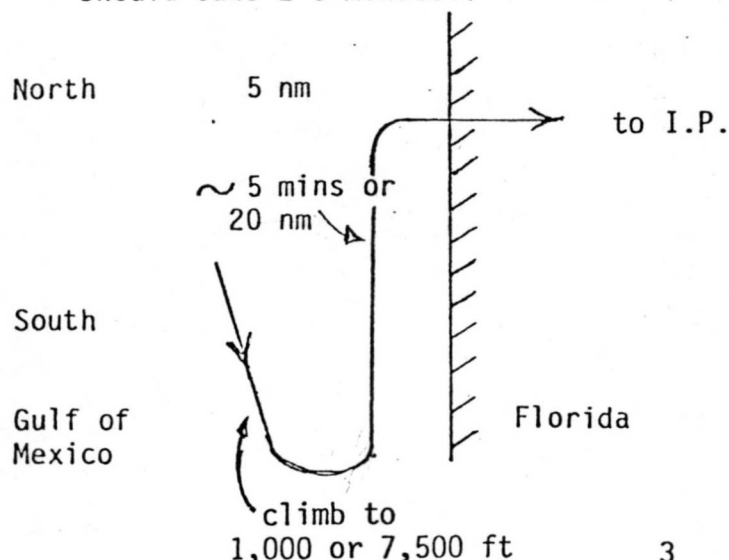
[illegible]

WEST

EAST



- *1 There will be a wind calibration L over the Gulf just before the first and last west-east flight legs at 1000 ft.
- *2 After deep convection (at least cumulus congestus) begins to form and if the Doppler system is working properly, there will be a 5 minute leg from south to north along the coast, but over the Gulf. This leg should be approximately perpendicular to the east-west flight legs and VFR. Hopefully the south-to-north leg will be less than 5 nm from the coastline and not more than 10 nm from the deep convection in the sea-breeze convergence zone. The heading should remain constant for a particular leg, and, at the convenience of the aircraft commander, within the range of 345-360° (true).
- *3 Temperature and dew-point temperature sounding data will be obtained during aircraft descent near the initial point. The pilot should try to stay as far away from clouds as possible during the descent. The descent should take 2-3 minutes.



Aug 4

W.W.

Revised Sea-breeze Experiment - July 1982

Initial alert: Noon EDT one day before experiment

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

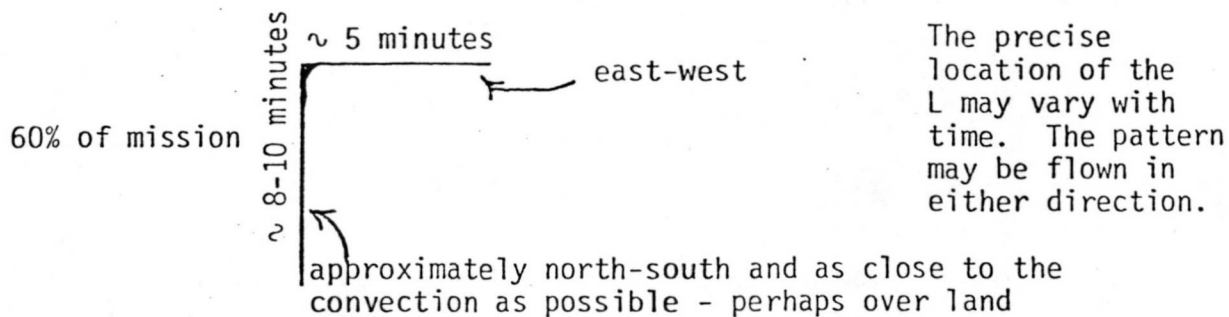
Final go decision: 11:00 a.m.-1:30 p.m. day of experiment

Location of experiment: Naples area

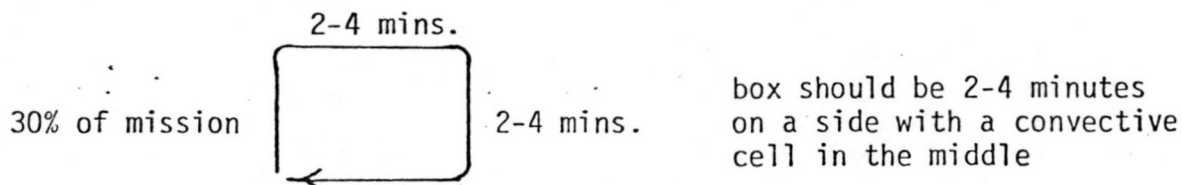
Maximum duration of flight: about five hours

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.)



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



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.

820812I

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TIME	LAT	LONG	TK	WD	WS	RA	PA	TA	TD	SST	PS	SP	FW
	alt	30.11	(002)10			(-160)92		(1019)PS	→	30.09			
	NAV	2											
1649	25 80	80 29	024	097	5.0		49						
			1645		Block								
1713	alt												
171300													
171630	26 24	81 68	271	290	4.0	307	267	27.3	20.4	31.9	981	1016	1.2
	on wind L												
171930 - 172100			TK 270					270/3					
172250 - 172420			TK 090					150/11.0					
172530 - 172700			TK 180					253/12.0					
172900 - 173030			TK 360					258/11.5					
ODW#1		175348											
182130	26 01	81 81	163	230	2.4	326	284	26.2	19.6	30.3	979.5	1016	-0.2
182650 - 183130													
183300 - 183855			TK 090										
183440	26 25	81 69	84	277	5.3	324	284	27.2	20.5	33.6	979.5	1015	1.3
183938 - 184050			TK 180										
184140 - 184420			TK 270										
184505 - 184705			TK 360										
184750 - 185035			TK 090										
184800	26 33	81 56	90	213	2.0	324	283	28.1	20.0	30.2	979.2	1014	0.3
185121 - 185317			TK 180										
185402 - 185700			TK 270										
185520	26 14	81 48	268	227	5.0	319	285	27.7	21.3				
185750 -			TK 360										
190048 - 190305			TK 090										
190400 - 190544			TK 180										
190628 - 1909120			TK 270										
190958 - 191304			TK 360										
191120	26 26	81 63	015	243	4.3	318	287	27.9	21.1	31.5	979.8	1014	-0.2
191400 - 191640			TK 090										
191720 - 192030			TK 180										
192132 - 192419			TK 270										
192501 - 192830			TK 360										
192510	26 15	81 63	1.5	257	4.3	314	283	27.4	20.0	29.2	980.0	1015	-0.5
192912 - 193235			TK 090										
193325 - 193817			TK 180										

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TIME	LAT	LONG	TK	WD	WS	RA	PA	TA	TD	SST	PS	SP	FWZ
193902	-194158	TK 265											
194244	- M	TK 360											
194310	2008	81 57	359.5	36.0	4.4	314	282	27.2	19.8	30.3	979.5	015	0.0
M - 195105		TK 090											
195147 - 195651		TK 180											
195200	2627	82 26	178	325	0.9	309	281	28.1	20.7	29.9	979.4	014	0.2
	go to IP parent and start L pattern												
	200530 -	201200	TK 270										
	201310 -	201610	TK 340										
201500	2641	81 95	341	276	3.3	319	283	26.9	20.4	28.9	979.5	015	0.0
	201753 -	202215	TK 135										
	202430 -	202528	TK 090										
	202620 -	202744	TK 360										
	202832 -	203028	TK 270										
	203115 -	203242	TK 180										
	203333 -	203531	TK 090										
	203845 -	204015	TK 360										
	204057 -	204240	TK 270										
204115	2646	81 54	269	189	6.9	304	279	27.9	20.0	28.5	979.9	013	-0.4
	204331 -	204455	TK 172.9										
	2045M -	204749	TK 090										
	204840 -	205237	TK 360										
	205455 -	205717	TK 270										
	205800 -	210110	TK 180										
205815	2653	81 68	178	285	3.7	309	282	27.5	18.5	31.9	979.2	014	1.1
	210155 -	210502	TK 090										
	210548 -	changing	TK 360										
	210945 -	211230	TK 270										
	211459 -	211751	TK 180										
	211915 -	212135	TK 090										
	212158 -	212321	TK 049										
212630	2653	81 24	53	299	8.5	316	287	25.0	21.0	28.1	979.9	014	-0.5
	212830 -	213115	TK 309										
	213344 -	214020	TK 232										
2137	2660	81 53	234	150	4.9	312	283	311	284	28.9	979.0	014	-0.1
	214115 -	214319	TK 143										
	214415 -	214907	TK										
214830	2648	81 35	54	285	4.8	307	284	25.3	20.9	26.4	979.1	014	0.0
	215030 -	215605	TK 146										
	215644 -	220045	TK 056										
	220130 -	220440	TK 336										
	220615 -	220933	TK 160										