

D. Equipment Status

On-board Lead Project Scientist Checklist

Reports Collected

DATE 7/28/82

AIRCRAFT 43RF

FLT 1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>JORGENSEN</u>	Gust Probe	<u>-</u>
Cloud Physics	<u>Bob Black</u>	Omegasonde	<u>-</u>
AXBT	<u>-</u>	Sys Eng	<u>Schricker</u>
Doppler Hot Film	<u>Marks / Lord</u>	Data Tech	<u>Goldstein</u>
Radar	<u>Feinberg</u>	EI Tech	<u>Paridis</u>
Flt Dir/Met	<u>Haydu</u>	Other	<u>-</u>

Take Off 1735

Location MIA

Landing 2213

Location MIA

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

C. Mission Briefing

Sea Breeze Experiment

D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	ok	ok	ok	✓
Radar	ok	ok	ok	✓
Cloud Physics	ok	—	—	No data taken
Data Sys	ok	wind bias problem	—	—
Omegasondes	—	—	—	—
AXBT	—	—	—	—
Doppler- Gust Probe	—	—	—	—
Hot Film	—	—	—	—
Photography	ok	2 per sec	—	—
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

REMARKS

There appeared to be a wind bias - westerly winds when going West - Easterly winds when going East

Arrived at IP - 1758 Z 1000 ft altitude all day long

E. Proposed and Actual Flight Patterns

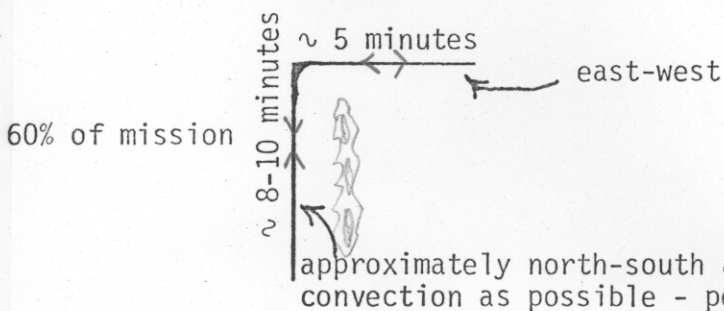
Revised Sea-breeze Experiment - July 1982

- 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

leave NHRL at 10:15 A.M.

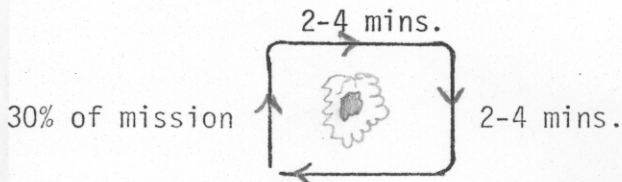
There will be three basic patterns. The lead project scientist (Jorgensen) will decide the sequence of the patterns in consultation with the flight director.

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

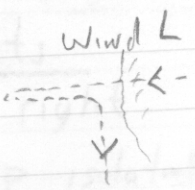
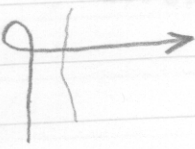
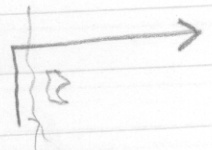
3. Line pattern down convection (penetration - IFR maximum possible altitude)

10% of mission

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

not done

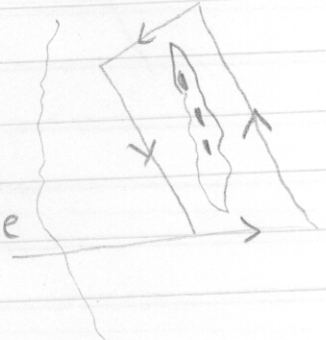
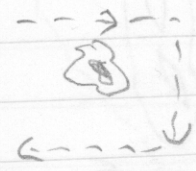
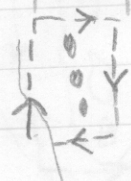
'L' Patterns

Start	End	Dir	#	Comments	Wind L
175820	180642	E → W	①	from IP	
181040	181220	N → S	④		
181335	181556	S → N	②	to IP	
181850	182524	W → E			
182905	183550	E → W	③	from IP	
183632	184100	N → S	②		
190316	190750	S → N	④	At IP	
191000	191525	W → E			
191850	192605	E → W	⑤	from IP	Princ developing
192658	193115	N → S	③		>30 dBZ cells all along coast
200437	200655	S → N	⑥	At IP	
200727	201230	W → E			
201649	202326	W → E	⑦	from IP	
202410	202715	SE → S	④	to parallel line	
204208	204405	NE → SW	④		
204453	204746	NW → SE	④	between coast on line	

Doppler Boxes (2)

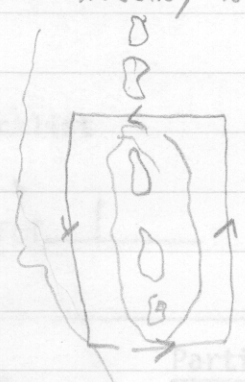
Doppler Boxes

Start	End	Dir	#	Comments
184350	184830	S → N	1	Cell 10 mi right light precip isolated 20 dBZ
185020	185400	W → E	1	
185504	185910	N → S		
190005	190255	E → W		
193250	193700	W → E	2	Rain shafts on ground No N → S leg due to traffic at Waples A.P.
193755	194500	S → W	2	
194546	194747	E → W		line apparently moving eastward
195025	195320	W → E	3	Cell 8 mi right
195414	195818	N → S	3	
195940	200345	E → W		
202917	203734	W → E		
203800	204122	SE → NW	4	to parallel line
204208	204405	NE → SW	4	
204453	204746	NW → SE		between coast and line



Doppler Boxes (2)

Start	End	Dir	#	Comments
205407	205549	W → E		line moving toward coast
205637	210055	S → N	(8)	
210147	210420	E → W		
210500	210955	N → S		



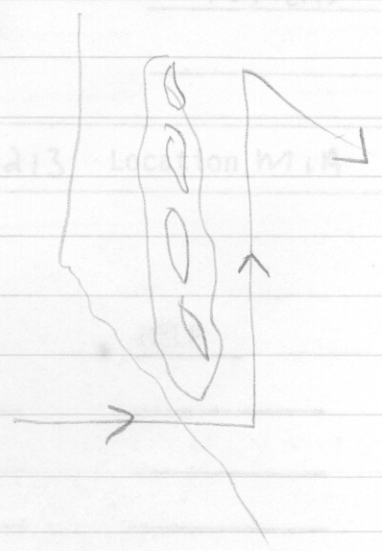
DATE 7/27/82

A. Participants

211618	212056	W → E		
212145	212723	S → N		
212816	213430	W → E	(9)	over water
213537	214141	N → S		

Big box due to long W-S extent of line

214228	214610	W → E	(10)	
214644	215137	S → N		



B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude

C. Mission Briefing

Sea Breeze Experiment