

On-board Lead Project Scientist Checklist

DATE 9/11/81 AIRCRAFT 42RF FLT 81091(HZ)

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>P. Black</u>	Gust Probe	<u> </u>
Cloud Physics	<u>R. Black</u>	Omegasonde	<u> </u>
AXBT	<u> </u>	Sys Eng	<u>DUGranrut</u>
Hot Film	<u> </u>	Data Tech	<u>Darby</u>
Radar	<u>FARR/Holland</u>	EI Tech	<u> </u>
Flt Dir/Met	<u>McFadden</u>	Other	<u> </u>
Take Off <u>0435</u>	Location <u>MIA</u>	Landing	Location <u>MIA</u>

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>9/11</u>	<u>03Z</u>	<u>26.8</u>	<u>73.5</u>	<u>995</u>
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C. Mission Briefing

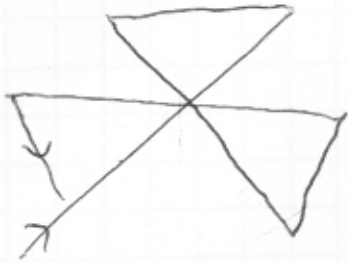
D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	✓			
Radar	<i>doppler down</i>	<i>tail radar out 0823</i>		
Cloud Physics	✓			
Data Sys	✓			
Omegasondes	—			
AXBT	—			
Gust Probe	—			
Hot Film	—			
Photography	<i>1/5 after daylight 1 frame / 5 sec</i>			
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

REMARKS

HURRICANE RECCO PLOTTING CHART

E. Proposed and Actual Flight Patterns



repeat twice at 5k, PA
≈ 850 MB

DATE _____ FLIGHT _____ LPS _____

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
arrive Pt 4	0502		arrive pt 4 ~ 0523 ⁰⁵⁵⁰
	0528, ^{start} 29	24.0 75.75	begin turn for zigzag TAS
	053230 053930	hd after 90° turn	280° 7.5 m/s complete zigzag
	0540		start descent
	0550	26.79 74.31	at 1500 M alt
	0610	27.47 27 73.17 09.4	eye center 994 mb
	0612	-	lowest convection N-NW eyewall open E-S
	0625		W ₂ ≈ 7 m/s
	0634 0649		turn at ⑤ gorgeous moon
	0651		turn at ⑥ swells by moonlight
	0710	27.73 73.03	eye. 994 mb
	0750		① lightning
	0826	27.85 72.93	eye lightning ahead 991 mb
	0853		lightning ahead
	0858		mixed lightning, eyewall almost closed, open SE
	0909	28.28 988 72.08	eye immediately adjacent strong convection SW side
	0943		②
	1003	28.48 998 mb 72.53	
	1100	28.73 992 mb 72.31	
	1204	28.96 993 72.12	

2 1/2 hr
from 0945

*Log times of all significant altitude changes, turns, and eye fixes
**New altitude, heading, center position, etc.

