19930831H1-LPS

E.2 Lead Project Scientist (On-Board)

E.2.1 Preflight

- 1. Participate in general mission briefing.
- 2. Determine specific mission and flight requirements for assigned aircraft.

 Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist and CARCAH unless briefed otherwise by field program director.

- 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- 5. Meet with AOC flight crew at least 90 minutes before takeoff, provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.
- 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami or FGOC at remote recovery location).

E.2.2 In-Flight

- 1. Confirm from AOC flight director that satellite data link is operative (information).
- 2. Confirm camera mode of operation.
 - 3. Confirm data recording rate.
 - 4. Complete Form E-2.

E.2.3 Postflight

- 1. Debrief scientific crew.
 - 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).
 - Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
- Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
- 5. Determine next mission status, if any, and brief crews as necessary.
 - 6. Notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

On-Board Lead Project Scientist Check List

Date

HRD

Aircraft 42 RT-

Flight ID 23083/H

Squ

OAO

A. Participants

Function Participant Function Participant Lead Proj. Sci. Flight Director **Cloud Physics** Pilots Radar Navigator Workstation Sys. Engr. Photographer Data Tech. El. Tech. Omegasonde AXBT/AXCP Other Take-Off Location Landing Location MIA 15377 Past and Forecast Storm Locations MSLP Date/Time Longitude Max. Wind Latitude

13

165

C. Mission Briefing

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Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

Date 8/31/93 Aircraft 42RP Observer Black



Note: Latel full degrees according to location of flight area.

192 Chury Rt 340 17 + 28

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Lead Project Scientist Event Log

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Time	Event	Position	Comments
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Lead Project Scientist Event Log

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Time	Event	Position	Comments
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			FAST orhit made
233Ç	end FAS	Tarde	lije
2340	conta 1.	3526 745	961 MB
2345	VMAX=1/3		
2350	over DSLN	WS2 90 Bt	
0010	climb	3430 763	P over CALN
	5.7		
			All and the second second

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes



Note: Label full degrees according to location of flight area.

2130 35 14,5 7510 43

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Lead Project Scientist Event Log

ate	Fligh		LPS
Time	Event	Position	Comments
1708 45	BTSNG	3432 7621	drop failed
191458	BT6 28.1	3438 7554	
1922	VMAX= 140	ph, 130 mit	01 1
1928	8M IN = 964	3450 7540	PEE 963,5
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	monen eye	wall contre	atus 30 miche
		1236 73 3	was to mich
2004	Fr104/1	photo 75	kt wind
2015	1378 29.4		pt(B)
2032	VMAX=120		Provin 2 961
2035	Lare	35047508	e
2039	VMAX=140		
2100	pt(6)	3359 7618	
2129	RtO	3403 7358	4 24 3
2130	43 Pin	3511457510	1.84 / 1.73 X.4
2152	VMAX=135	1 Marcheller	And the second second
2157	PMZN1-960	35 13.5 7509	
2119	ablom DUCK	Sam Pere	- Under a

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Lead Project Scientist Event Log

Flight <u>\$30831H</u> LPS P. Black Date _____ Time Event Position Comments 1600 2643 7856 aver GMAN 29,0 586 28,9 800785 over 41010 SU ETA desut in lon 1724 que 0 20 32 2 0 on wer 4/002 3220 7513 288 h # 20 32 pt wade in 343075 28 33 61 745 CH14 140 Se 17530 VMAX=131 PMIN=961 80445 7507 75096PS BT2 lye 3435 3435 818 01,0 FL VMAR N 3522 7507 Yo 2044 tor36157511 In start FAST mTA Ъ 3610 Xo turn DSL 3430 170

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D. Equipment Status

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft			· · ·
Radar/LF	· · · · · · · · · · · · · · · · · · ·		
Radar/TA (Doppler)			-
Cloud physics			
Data system			
Omegasondes			·
AXBT/AXCP		<u> </u>	
Workstation	· <u></u>		
Photography			

REMARKS:

E. I. Proposed Flight Pattern (sketch or designate by number)

2

E. II. Actual Flight Pattern

EMILY 930831H





Hurricane Research Division LEAD PROJECT SCIENTIST CHECKLIST

Date: <u>31 Aug. 93</u> Aircraft IDs: <u>42RF</u>

Proposed Takeoff Time: <u>1537Z</u> Base of Operations: <u>MIA</u> Primary Mission: <u>SFC Winds</u>Alternate Mission: <u>none</u>

Scientific Crew:		
42RF	43RF	
LPS: P. Black		
Doppler Sci. <u>:M. Black</u>		
Doppler Op <u>: B. Cristoe</u>		
Cloud Phys: none		
ODW: none		
Others: J. Dorschner/Herald		
Others:		19 ¹⁰

Mission Briefing (including proposed flight pattern):

Rotated fig 4 at 3,000 ft PA, initially N-S leg parallel to Air Force pattern above us at 5,000 ft PA. Overfly surface buoys and C-MAN stations wherever possible.

SIGNATURE