

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.
- ☐ 3. 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).
- ☐ 3. 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.]
- ☐ 4. 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 930928I Aircraft 43RF Flight ID 930928I/

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Marky/Willis</u>	Flight Director	<u>Parrish</u>
Cloud Physics	<u>Black</u>	Pilots	<u>Kennedy/Phillipsborn</u>
Radar	<u>Dodge</u>	Navigator	
Workstation	<u>—</u>	Sys. Engr.	<u>Lynch</u>
Photographer	<u>—</u>	Data Tech.	<u>Barr</u>
Omegasonde	<u>Kaplan</u>	El. Tech.	<u>Mc Millan</u>
AXBT/AXCP	<u>—</u>	Other	

Take-Off	Location	Landing	Location
<u>1631</u> 1808 Z	<u>OPA/LOCKA</u>	<u>MCDILL</u> <u>TAMPA</u>	<u>1849</u> Z

B. Past and Forecast Storm Locations

Date/Time	<u>OPA LOCKA</u> Latitude	Longitude	MSLP	Max. Wind
<u>9/28</u>	<u>25 53.4</u>	<u>80 17.3</u>	<u>1016.0</u>	<u>046/10</u>
<u>CH 11</u>	<u>VIDEO</u>			
<u>12</u>	<u>127</u>			
<u>30</u>	<u>31.5 (+1.5)</u>			

C. Mission Briefing

Clouds and Climate Cu Penetration. See Attached Sheets

D. Equipment Status

<u>Equipment</u>	<u>Pre-Flight</u>	<u>In-Flight</u>	<u>Post-Flight</u>
Aircraft	✓	engine shutdown shortly after T/O	
Radar/LF	✓		
Radar/TA (Doppler)	✓	some sneaky	
Cloud physics	✓	✓	
Data system	✓	✓	
Omegasondes	✓	6 of 8 failed baseline	
AXBT/AXCP	—	—	
Workstation	—	—	
Photography	Forward Video? OK	Forward Video excellent.	

REMARKS:

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

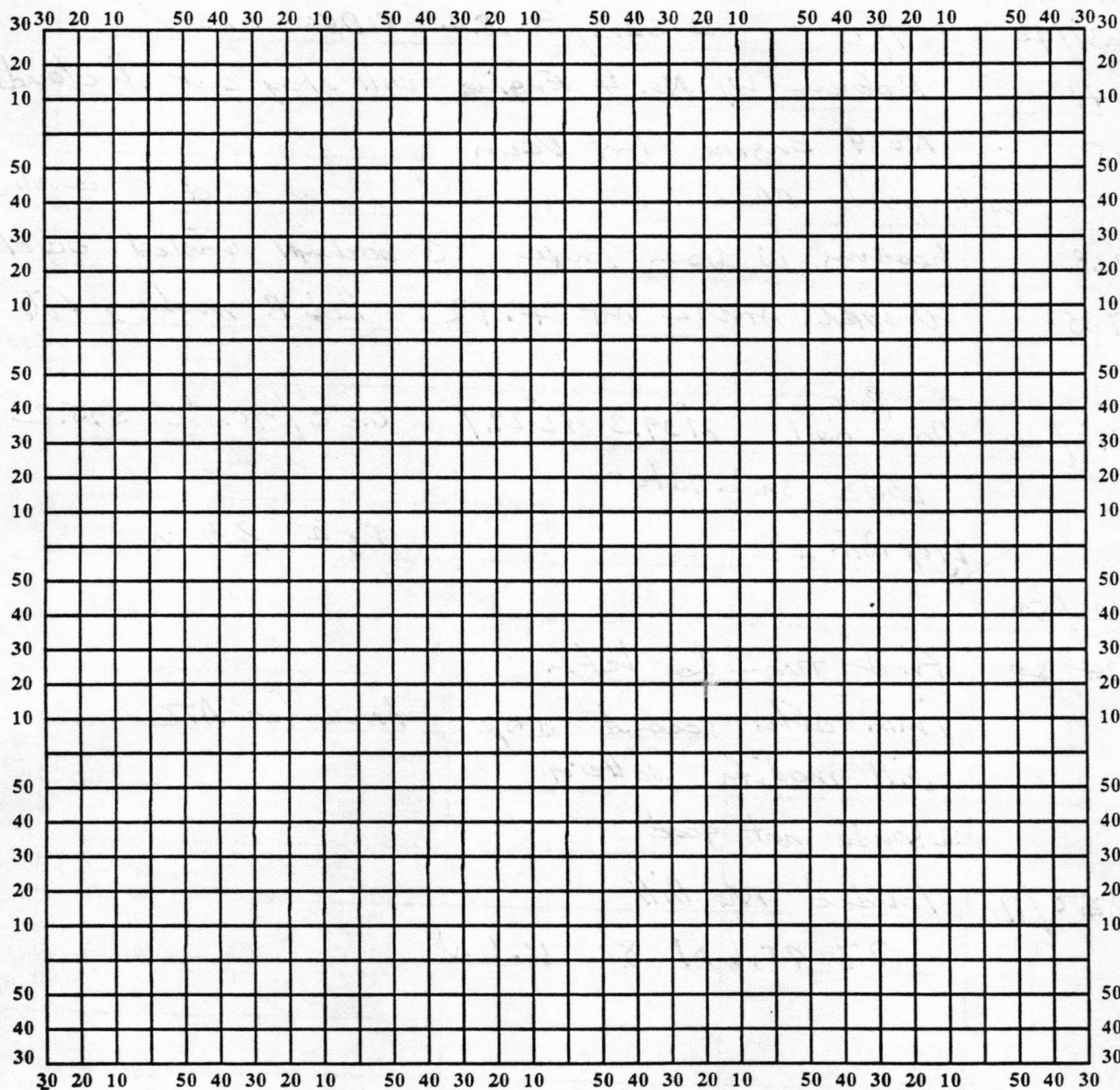
See Attached Sheets

E. II. Actual Flight Pattern

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

Date _____ Aircraft _____ Observer _____



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

Lead Project Scientist Event Log

Date 9/28/93 Flight 930928 I1 LPS Marty/Willie

Time	Event	Position	Comments
1631/40	T/O	25 53.3/80 18.4	VIDEO +15
1641	Problem w/ No. 4 Engine		will stay out of clouds
1650	No 4 Engine Shut Down		
	will go to McDill vcntry head W and 2 sondes		
1728	heading W from Tampa, 3 backups failed baseline		
1735	UNDER ARRIVAL AT +.7°C		Bob B making file on disc
17			
1740/20	^{PAIR} Drop. No 1	27 39.3 82 29.7	0.2°C/-10.5°C 595.2
	LOOP 3min later		
	Drop Pair #2		Fig 4 Pattern
1822/50			
1824/30	first turn to left.		
	1min after second drop - turn for ATC		
	will modify pattern		
	SL sonde not good		
1840/11	landed McDill		
	27 45.6 N 82 36.6 W		

Lead Project Scientist Event Log

Date _____ Flight _____ LPS _____

[illegible]

Lead Project Scientist Event Log

Date _____ Flight _____ LPS _____

[illegible]

Lead Project Scientist Event Log

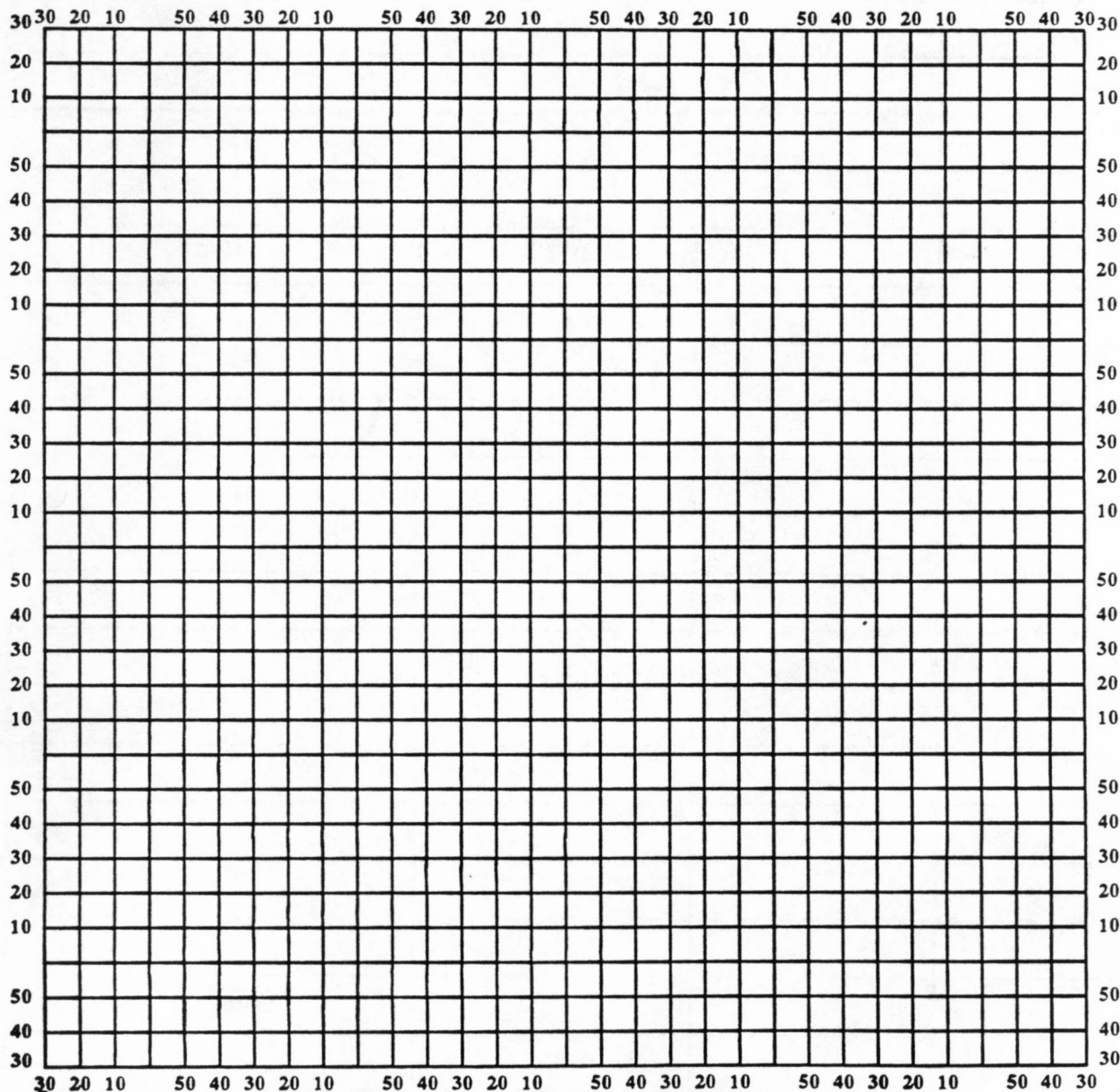
Date _____ Flight _____ LPS _____

[illegible]

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

Date _____ Aircraft _____ Observer _____



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