

1993083011-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.
- ☒ 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).
- NOB 2. Confirm camera mode of operation.
- NOB 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 30 AUG 93 Aircraft N432F Flight ID 930830.1

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	<u>WILLOUGHBY</u>	Flight Director	<u>BOSEET</u>
Cloud Physics	<u>WILLIS</u>	Pilots	<u>McKIM/PHILIPSBORN</u>
Radar	<u>↓</u>	Navigator	<u>KOZAK</u>
Workstation	<u>GRIFFIN</u>	Sys. Engr.	<u>GOLDSTEIN</u>
Photographer	<u>_____</u>	Data Tech.	<u>LYNCH</u>
Omegasonde	<u>BURDGE</u>	El. Tech.	<u>_____</u>
AXBT/AXCP	<u>_____</u>	Other	<u>_____</u>

Take-Off 30/1840 Location MIA Landing 31/0447 Location BOSTON MA

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
<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

FLY ATTACHED ODIW PATTERN
FIG-4 IN EYE RADAR COMPOSITE

D. Equipment Status

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

REMARKS:

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

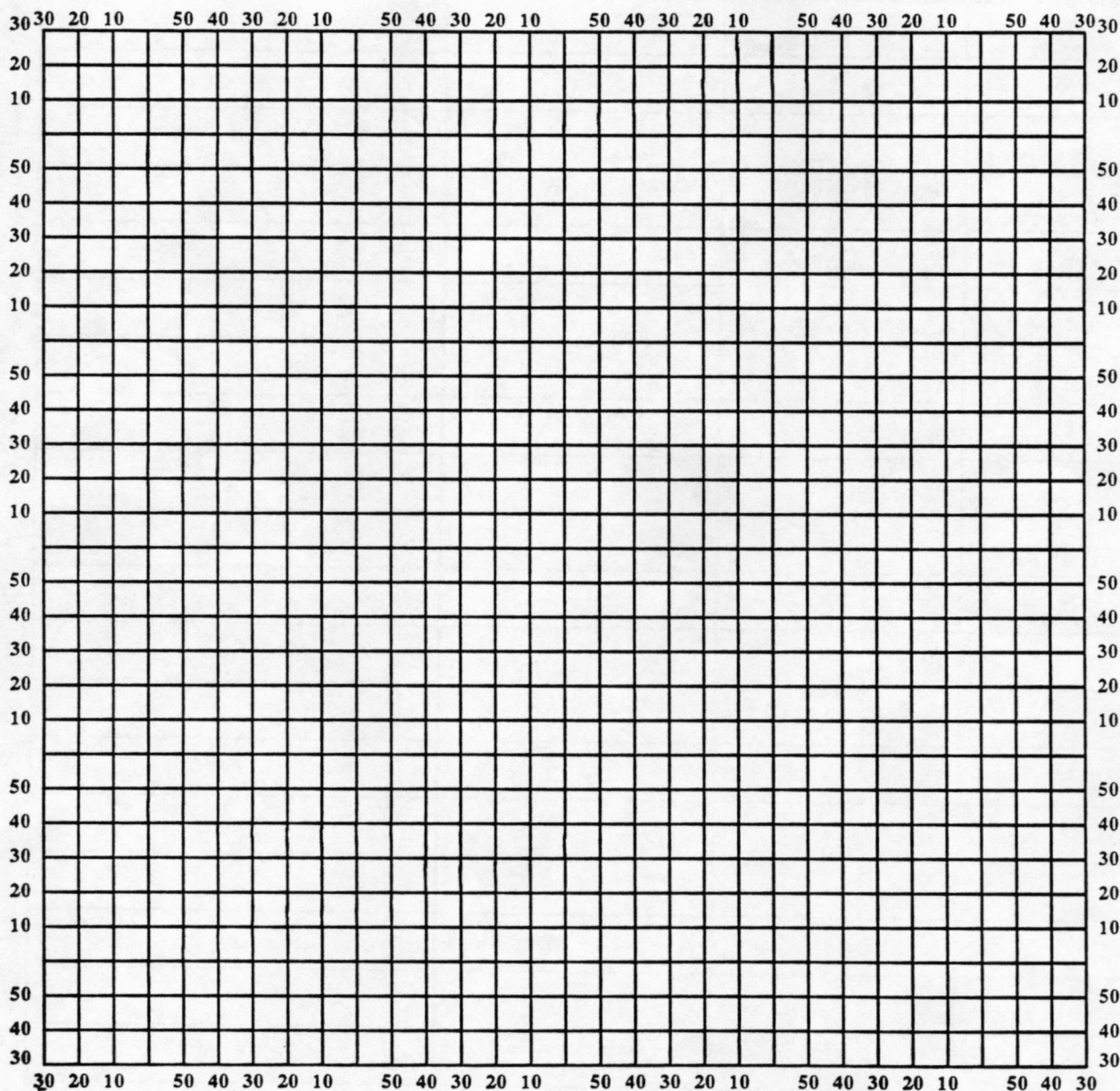
SEE ATTACHED SHEET

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 30 AUG 93

Flight 930030I

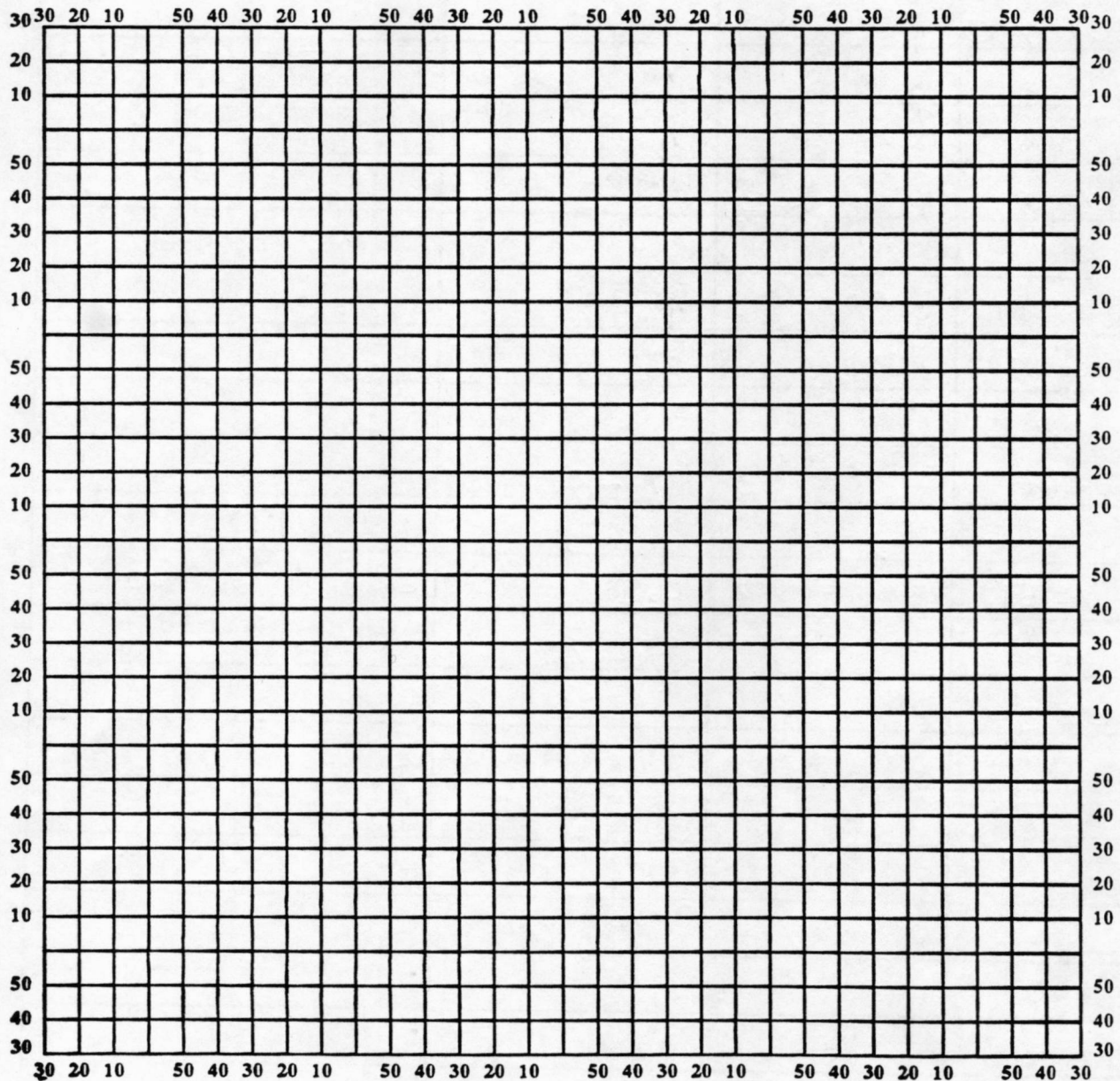
LPS WILLOUGHBY

[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.

Lead Project Scientist Event Log

1 of 2

Date 30 AUG 93

Flight 430830I

LPS WILLOUGHBY

Time	Event	Position	Comments
30/1840	T/O	MIAMI	
1937	DROP 1	29-29 77-59	BAD T WINDS ONLY
2000 ⁰⁰	DROP 2 TURN E	31-00 76-54	PTH GOOD WINDS ??? SLP 1011
203236	DROP 3 TURN NE	31-02 73-52	PTH GOOD WINDS ??? SLP 1010
2033	DROP 3A		LOD2
2047	TURN N → 6	31-34 72-32	
2055	6	32-11 72-38	970X
2102	TRACK SW	32-50 72-34	START DIAGONAL LEG
2114	TRACK E → 6	32-12 73-40	
2127	6	32-10 72-33	START IMAX ORBIT
2151	TRACK E 6 →	32-13 72-31	END IMAX ORBIT END IMAX ORBIT
2157	TRACK N → D4	32-13 71-56	RESUME SYNOPTIC FLOW
2222 2232 ²⁰	DROP 4	34-29 71-54	GOOD
	DROP 4A		LOD BAD NO SIG
2250	DROP 5	35-58 71-52	GOOD
2308 ²⁴	DROP 6	37-29 71-52	GOOD
2328 ²⁰	DROP 7	39-00 71-43	TURN ENE → D8 GOOD
2349 ¹⁰	DROP 8	39-56 69-51	TURN E → D9 GOOD
31/0007 ³⁰	DROP 9	39-49 67-49	TURN S → D10 GOOD
0026 ²⁰	DROP 10	38-09 67-46	GOOD
0045	DROP 11	36-31 67-45	GOOD