

19930829H1-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).
- _____ 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 _____ Aircraft _____ Flight ID _____

A. Participants

HRD		OAO	
<u>Function</u>	<u>Participant</u>	<u>Function</u>	<u>Participant</u>
Lead Proj. Sci.	_____	Flight Director	_____
Cloud Physics	_____	Pilots	_____
Radar	_____	Navigator	_____
Workstation	_____	Sys. Engr.	_____
Photographer	_____	Data Tech.	_____
Omegasonde	_____	El. Tech.	_____
AXBT/AXCP	_____	Other	_____

Take-Off	Location	Landing	Location
_____	_____	_____	_____

B. Past and Forecast Storm Locations

<u>Date/Time</u>	<u>Latitude</u>	<u>Longitude</u>	<u>MSLP</u>	<u>Max. Wind</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

C. Mission Briefing

D. Equipment Status

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

REMARKS:

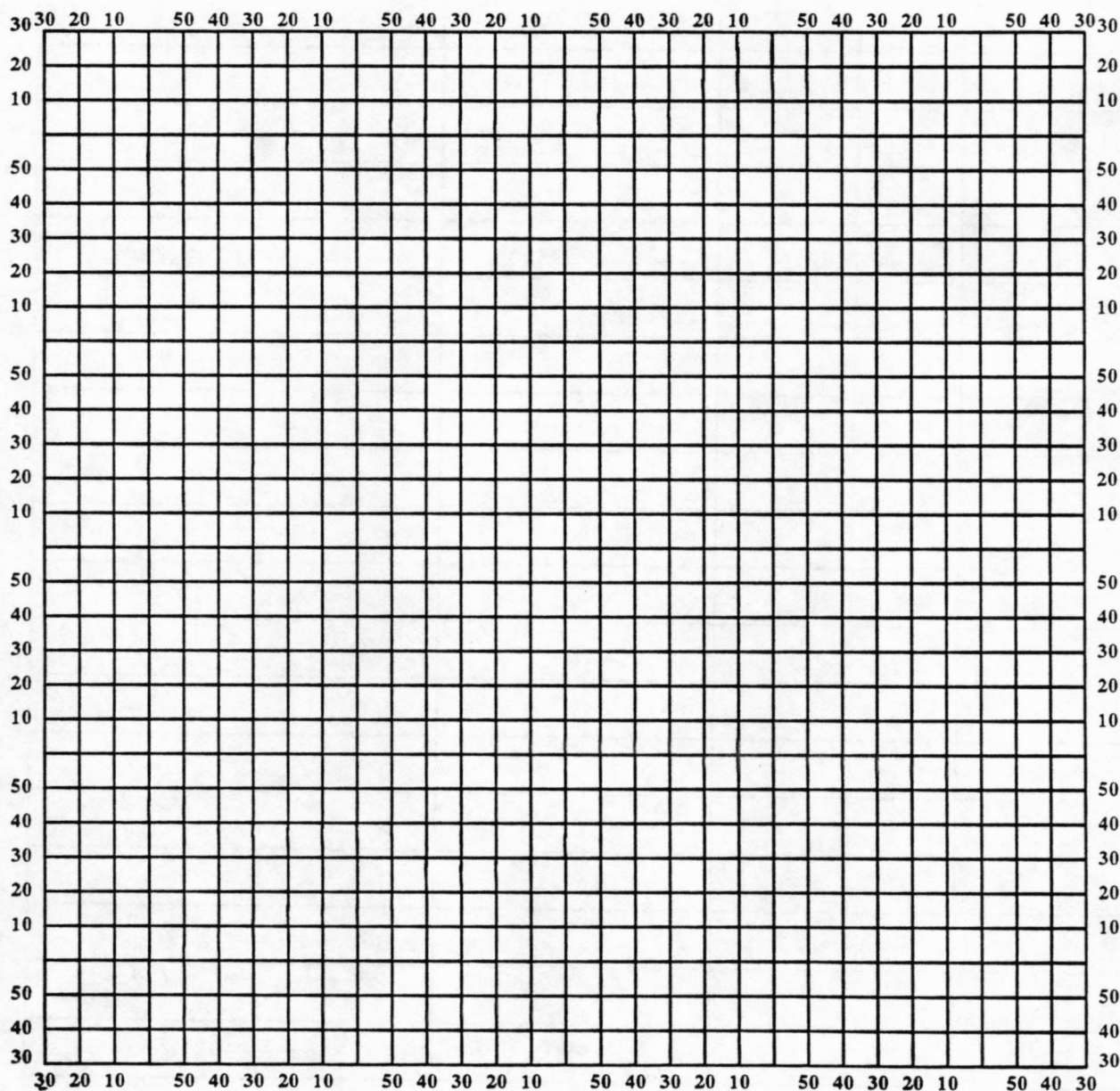
E. I. Proposed Flight Pattern (sketch or designate by number)

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.

Date 29 AUG 93

Flight 930829H

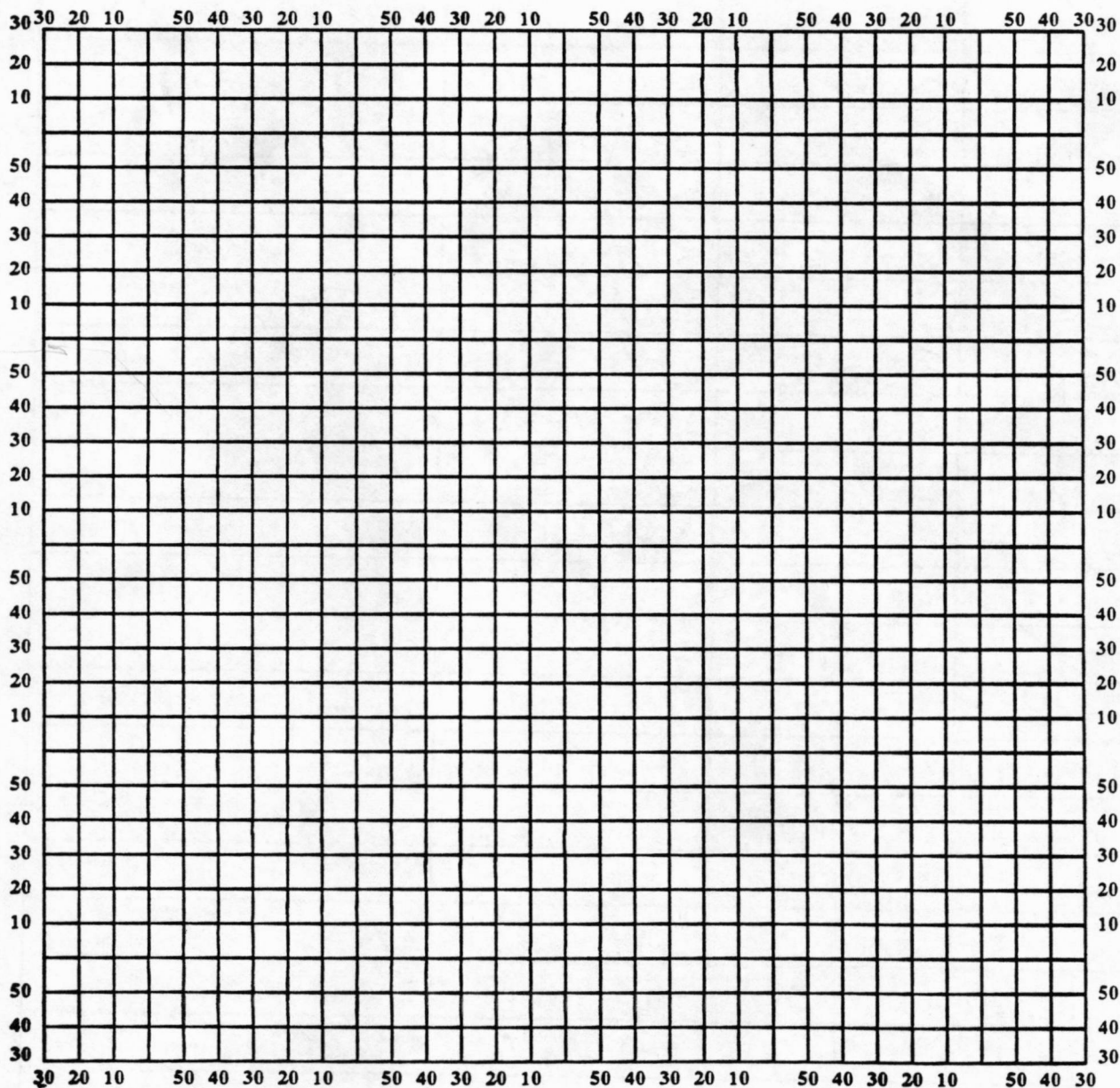
LPS WILLOUGHBY

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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

AUG 29 1993

Date 29 AUG 93

Flight 930829H

LPS WILLOWA 1137

Time	Event	Position	Comments
1828	T10	M17	1/2 H DELAY ON GROUND M17
1920	DROP 1	28.3 79.6	GOOD SLP 1016
1949	DROP 2	29.6 74.9	GOOD SLP 1011
2016	DROP 3	30.9 73.1	
2032	DROP 4	30.9 71.6	
2050	6	30-59 N 70-03 W	
2059	TURN	40 MIE OF 6	TRAIL 315 → DROP 5
2111	DROP 5	31.6 70.1	
2119	6 DROP 6	31-05 70-02	
2132 ⁵⁰	DROP 7	30.1 69.9	BAD
2152	DROP 8	30.0 67.9	BAD
2212	DROP 9	29.9 66.0	GOOD
2235	DROP 10	29.8 64.0	WINDS ONLY
MANY	SONDES	FAIL BASING	
2305	DROP 11	27.5 64.0	BAD
2331	AT 500 M3	25.3 64.0	DESCEND TO 500 M3
2333	DROP 12	25.1 64.0	GOOD 500 M3
30/0002	DROP 13	24.5 66.0	DIED AT 700
0024	DROP 14	24.6 68.0	GOOD 700
0048	DROP 15	26.7 68.0	STREAMER
0103	DROP 16	28.0 68.1	BAD BELOW 850