

19870925HI. 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 OAO 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 OAO 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 OAO flight director/meteorologist that satellite data link is operative (information).
2. Confirm camera mode of operation. NOT OPERATED
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 OAO flight director.]

4

4. Determine next mission status, if any, and brief crews as necessary.

5

5. 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 Checklist

Date 25 SEP 87 Aircraft N422F Flight ID 870925H

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj Sci	<u>WILLOUGHBY</u>	Flight Direc	<u>DAMIANO/PARRISH</u>
Cloud Physics	<u>DOZBT</u>	Pilots	<u>TICKNOR/EILERS/LAYSON</u>
Radar	_____	Navigator	<u>GERISH</u>
Doppler	_____	Sys Engr	<u>SHIRICKER</u>
Photographer	_____	Data Tech	<u>JARU</u>
Omegasonde	<u>GAMACHE/MBLACK</u>	El Tech	_____
AXB/AXCP	_____	Other	<u>LEVA THOMPSON</u> <u>ODW</u>

Take-Off 25/1841 Location MIA Landing 26/0337 Location MIA

B. Past and Forecast Storm Locations

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

C. Mission Briefing

FLY SATELLITE GROUND TRUTH. DROP MANY
ODW. RETURN MIA

D. Equipment Status

<u>Equipment</u>	<u>Pre-Flt</u>	<u>In-Flt</u>	<u>Post-Flt</u>
Aircraft	↑	↑	
Radar	↑	↑	
Cloud Physics	↑	NOT OPERATED	
Data System	↑	↑	
Omegasondes	↑	↑	
AXBT/AXCP	NOB	N/A	
Doppler	NOB	N/A	
Photography	↑	NOT OPERATED	

REMARKS: ↓ MIN DATA NOT TRANSMITTED ON ASDL THROUGHOUT FLIGHT. SONDES & RECCOS OK.

DROPPED 27 SONDES:
 1 - DESTROYED AT LAUNCH, STUCK IN TUBE
 4 - BAD PTH, Ω
 2 - BAD Ω ONLY
 20 - OK

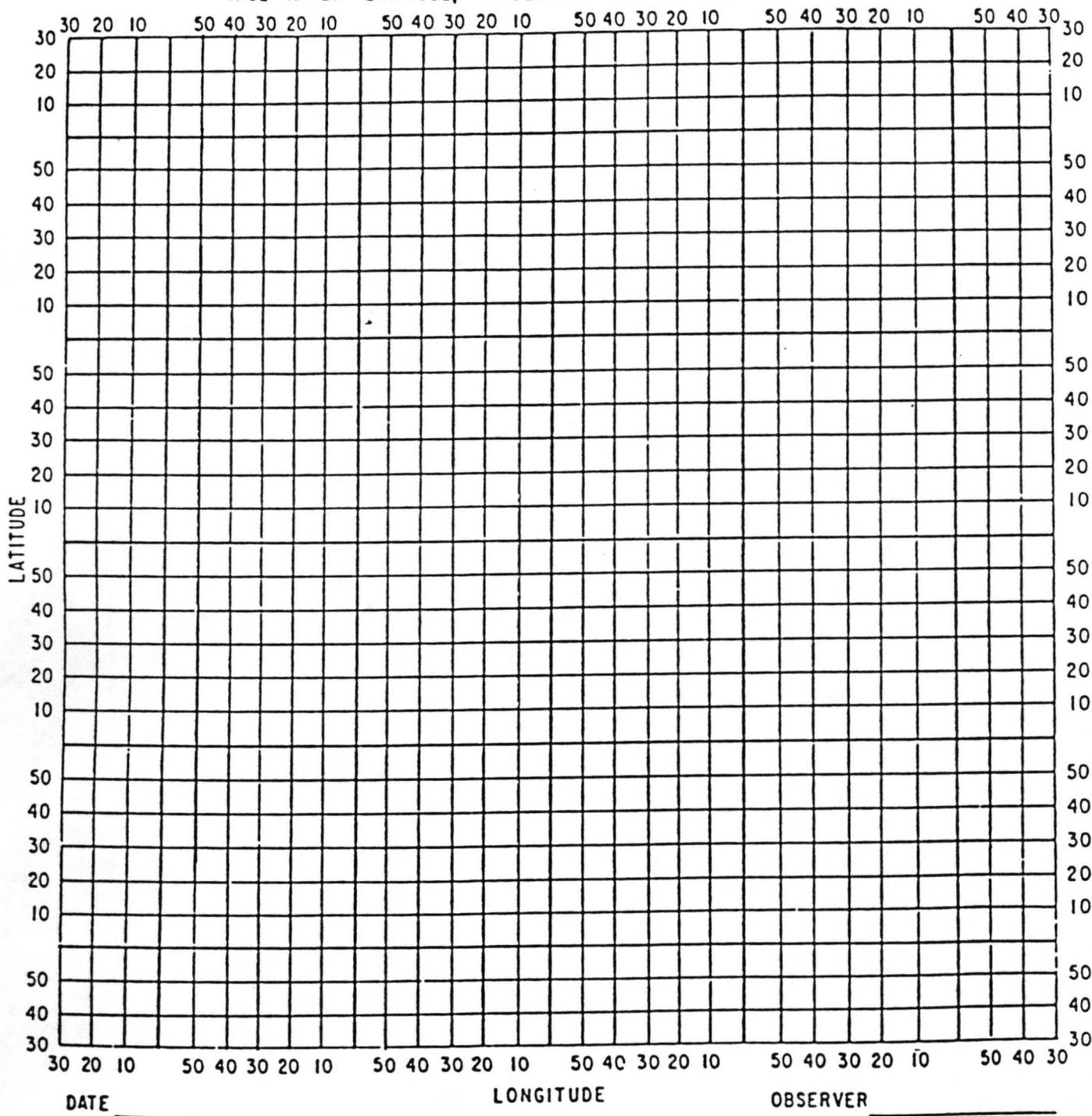
E. I. Proposed Flight Pattern (Sketch or designate by number)

SEE ATTACHED SHEET

E. II. Actual Flight Pattern

HURRICANE RECCO PLOTTING CHART

TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ



NOTE: Label full degrees according to location of flight area

Date 25 SEP 87 Flight 870925H LPS WILLOUGHBY

Lead Project Scientist Event Log

Time	Event	Position	Comments
1841	T10	MIA	
1930	DROP ϕ		LODGED IN TUBE, LAUNCHED BY MEANS OF BROOM HANDLE NONFUNCTIONAL
1940	POINT ① DROP 1	28-27 76-02	LAUNCH GOOD, Ω GOOD TRAK E \rightarrow ②
2034			STARTED RADAR RECORDING EVERY OTHER SCAN, TA ONLY
2131	POINT ② DROP 8	28-32 65-00	TRAK SE \rightarrow ②
2157	POINT ③ DROP 10	27-00 63-20	TRAK SOUTH \rightarrow ③
2216	POINT ④ DROP 11	25-30 63-20	TRAK 207 \rightarrow ④
2253	POINT ⑤ DROP 14	23-00 65-00	TRAK W \rightarrow ⑥
2315	POINT ⑥ DROP 15	23-12 66-58	TRAK N \rightarrow ⑦
2347	POINT ⑦ DROP 17	26-00 66-56	TRAK W \rightarrow ⑧
0026	POINT ⑧ DROP 19	26-00 70-21	TRAK S \rightarrow ⑨ HAVE ONLY CH 1 AND 3 SONDES
0101	POINT ⑨ DROP 21	23-00 70-30	TRAK W \rightarrow ⑩ TWO BAD SONDES IN A ROW
0137	POINT ⑩ DROP 23	23-00 73-51	TRAK N \rightarrow ⑪ 23 GOOD
0211	POINT ⑪ DROP 25	26-03 73-52	TRAK W \rightarrow MIA
0236	DROP 26 LAST	25-52 76-00	
0337	LANDING \leftarrow	MIA	