

MISSION #0407 DEAN

On-board Lead Project Scientist Checklist

DATE 29 SEP

AIRCRAFT 42

FLT 830929H

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>WILLOUGHBY</u>	Gust Probe	
Cloud Physics	<u>BOERT</u>	Omegasonde	
AXBT		Sys Eng	<u>DISPER</u>
Hot Film		Data Tech	
Radar	<u>MARIS/KOHLER/FARR</u>	EI Tech	
Flt Dir/Met	<u>PARRISH</u>	Other	

Take Off 290640Z Location MIA Landing Location

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>29</u>	<u>0341Z</u>	<u>34.6</u>	<u>71.2</u>	<u>1000/55 KT</u>
<u>29</u>	<u>0900Z</u>	<u>35.1</u>	<u>71.8</u>	<u>11</u>
	<u>SEE EVENT</u>	<u>LOG</u>		

C. Mission Briefing

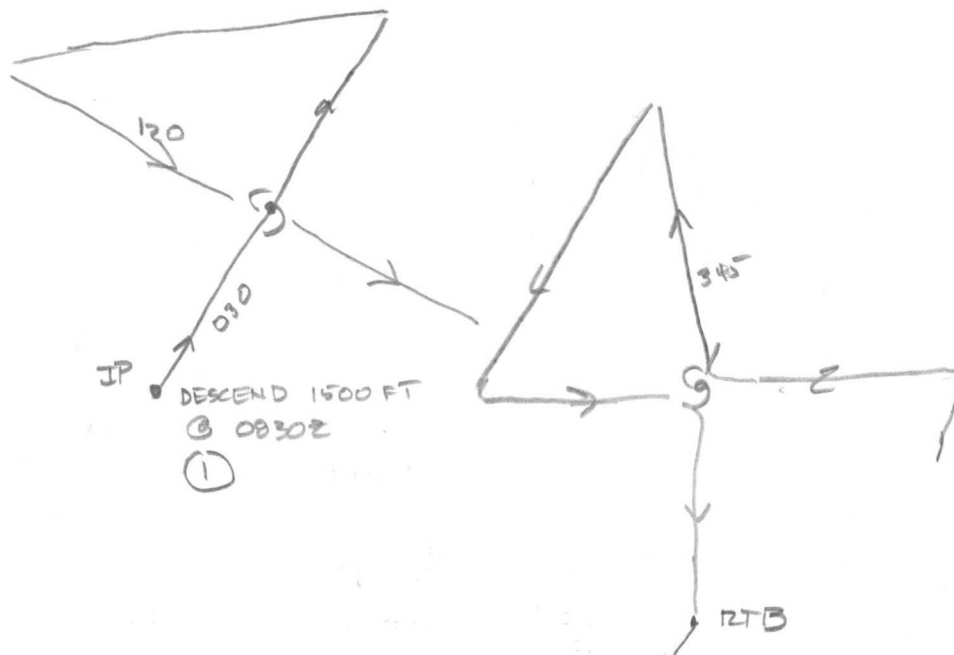
FLY TWO ROTATING 4'S GET 09, 12, 15Z
(100 MI LEES)
AVOID RESTR AREA.

D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	<u>HEW</u>	<u>↑</u>	<u>↑</u>	<u>HEW</u>
Radar	<u>HEW</u>	<u>↑</u>	<u>↑</u>	<u>HEW</u>
Cloud Physics	<u>HEW</u>	<u>↑</u>	<u>↑</u>	<u>HEW</u> *
Data Sys	<u>HEW</u>	<u>↑</u>	<u>↑</u>	
Omegasondes	<u>NOB</u>			
AXBT	<u>NOB</u>			
Gust Probe	<u>NOB</u>			
Hot Film	<u>NOB</u>			
Photography	<u>N/A</u>			

REMARKS CLD PROBE ↓

E. Proposed and Actual Flight Patterns



19830929 H11-LPS

E.1 Lead Project Scientist (On-Board)

The on-board lead project scientist is responsible for carrying out the scientific mission of his assigned aircraft. (Check off and initial when completed.)

E.1.1 Preflight

- HE 1. Participate in general mission briefing.
- HE 2. Determine specific mission and flight pattern(s) for his aircraft.
- HE 3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with RFC flight director/meteorologist and CARCAH, unless briefed otherwise by field program director.
- HE 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- HE 5. Meet with RFC flight crew 90 minutes before takeoff, provide copies of flight plans and give a formal briefing to the flight director, navigator, and pilots.
- HE 6. Report status of aircraft, systems and crews to appropriate HRD operations center.

E.1.2 In-Flight

- HE 1. Confirm from RFC flight director/meteorologist that satellite data link is operative (information). ✓
- N/A 2. Confirm camera mode of operation.
- HE 3. Confirm data recording rate.
4. Complete form E-1.

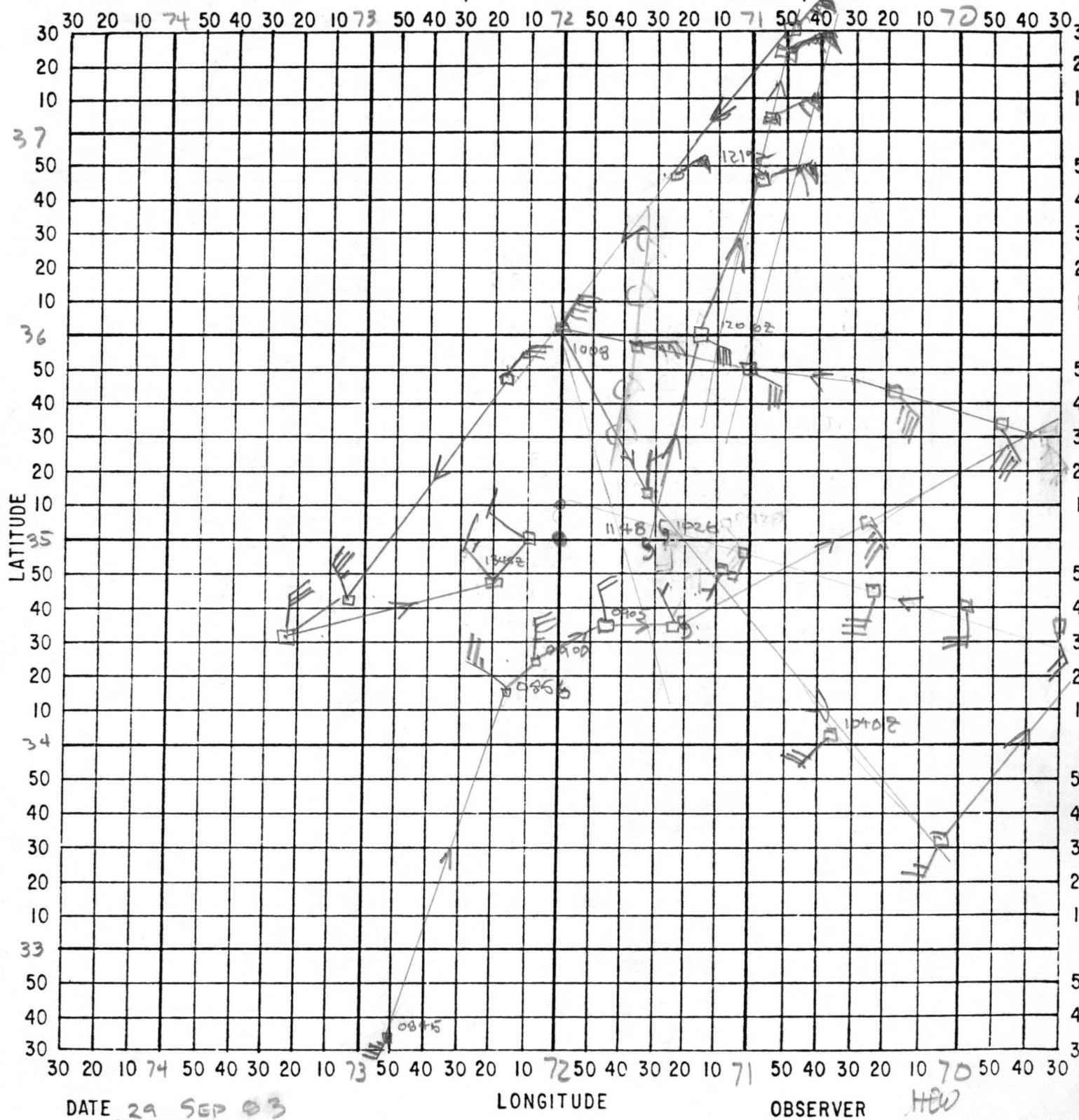
✓ 7 CDPHY
✓ 5 RADAR
✓ 2 VCR

E.1.3 Postflight

- _____ 1. Debrief crew.
- _____ 2. Report landing time, aircraft, crew and mission status to HRD operations center.
- H&W _____ 3. Gather completed forms for mission and turn in at the operations center.
- _____ 4. Determine next mission status, if any, and brief crews as necessary.
- _____ 5. Notify operations center as to where you can be contacted.

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

1352 35 18 72-00

FLIGHT 830929 H

LPS WILLOUGHBY

Lead Project Scientist Event Log

[illegible]

*Log times of all significant altitude changes, turns, and eye fixes

**New altitude, heading, center position, etc.

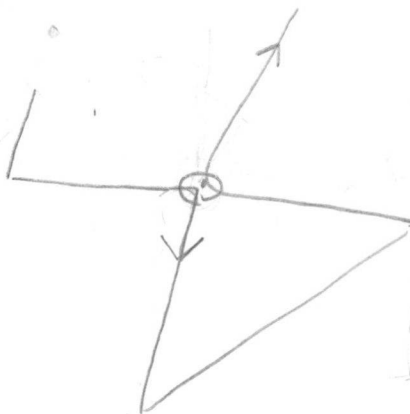
$$\begin{array}{r} 125 \\ 11 \\ \hline 125 \\ 125 \\ \hline 1375 \end{array}$$

100

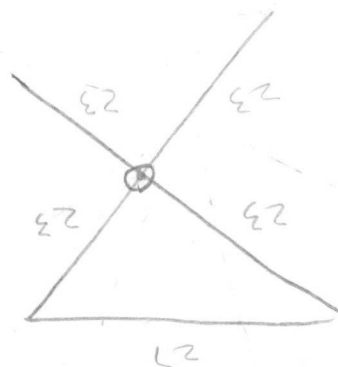


$$\begin{array}{r} 1000 \\ 100 \\ \hline 9.7 \\ 2 \\ \hline 11.7 \\ 88 \end{array}$$

22.5



$$\begin{array}{r} 119 \\ 27 \\ \hline 92 \end{array}$$



22.5

