

19840831H1-LPS

On-board Lead Project Scientist Checklist

DATE 31 AUG 84

AIRCRAFT N42RF

FLT 840831H1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>WILLOUGHBY</u>	Gust Probe	<u> </u>
Cloud Physics	<u>N/A</u>	Omegasonde	<u> </u>
AXBT/AXCP	<u>N/A</u>	Sys Eng	<u> </u>
Hot Film	<u>N/A</u>	Data Tech	<u> </u>
Radar	<u>DODGE/DORST/KOHLER</u>	EI Tech	<u> </u>
Flt Dir/Met	<u>PARRISH/DARBY</u>	Other	<u> </u>
Take Off <u>31/0414Z</u> Location <u>SJU</u>		Landing <u>31/1315</u> Location <u> </u>	

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>30 AUG</u>	<u>0548Z</u>	<u>12° 53'</u>	<u>57° 04'</u>	<u>37 KT/1009</u>
<u>"</u>	<u>1146Z</u>	<u>13° 25'</u>	<u>57° 30'</u>	<u>35 KT/1010</u>
<u>"</u>	<u>1748Z</u>	<u>14° 02'</u>	<u>58° 01'</u>	<u>1007</u>
<u>"</u>	<u>1951</u>	<u>14° 07'</u>	<u>58° 01'</u>	<u>40 KT 1007</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

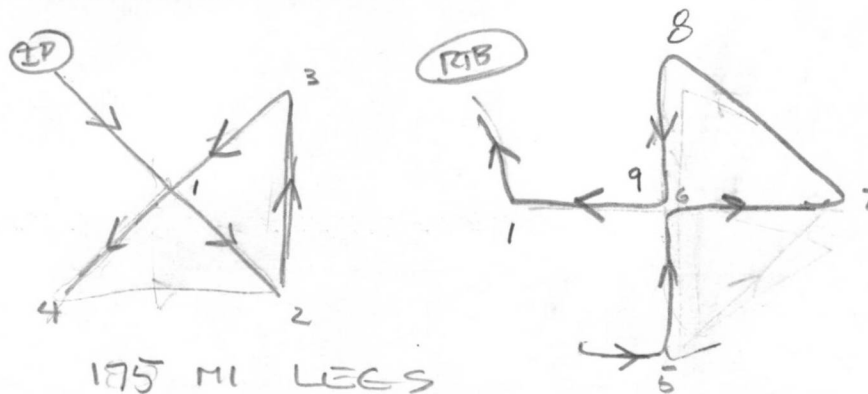
C. Mission Briefing

DO HURRICANE ENVIRONMENTAL INTERACTION
INVESTIGATION (OPTION 2) GET 30/06
AND 31/12Z FIXES

D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	↑	↑	↑	10
Radar	↑	↑	↑	10
Cloud Physics				
Data Sys	↑	↑	↑	
Omegasondes				
AXBT/AXCP				
Gust Probe				
Hot Film				
Photography				

E. Proposed and Actual Flight Patterns (Identify by number and type - give reason for modification)



E.1 Lead Project Scientist (On-Board)

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

E.1.1 Preflight

- HL 1. Participate in general mission briefing.
- HL 2. Determine specific mission and flight requirements for assigned aircraft.
- HL 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.
- HL 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- HL 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.
- HL 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center.

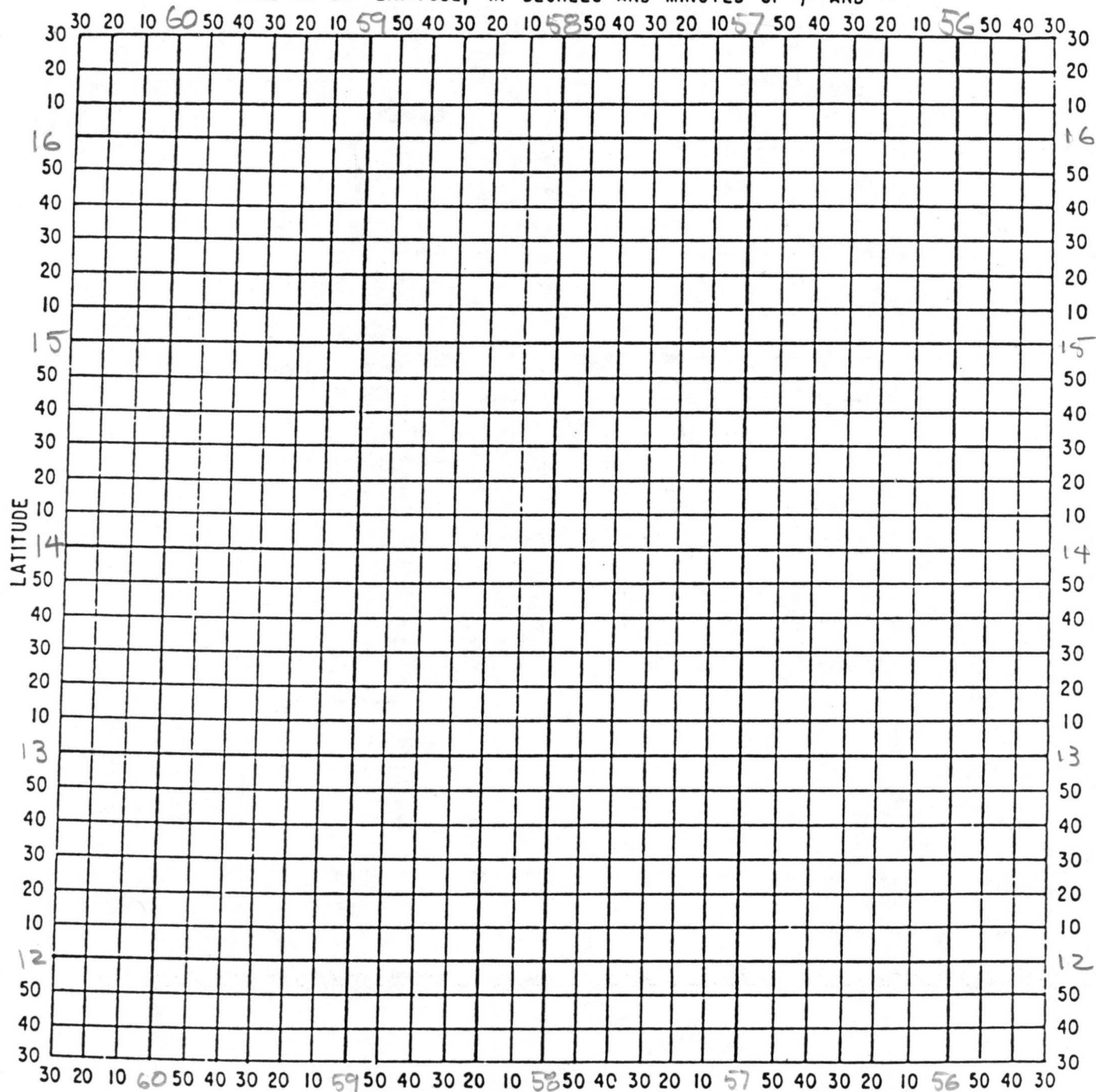
E.1.2 In-Flight

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

E.1.3 Postflight

- # 1. Debrief scientific crew.
- # 2. Report landing time, aircraft, crew and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to HRD operations center.
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 and arrange for any further coordination required.

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



DATE 30 Aug 84

LONGITUDE

OBSERVER WILLOUGHBY

Arizhuiz

NOTE: Lobe: full degrees according to location of flight area

DATE 31 Aug 84

FLIGHT 840831H

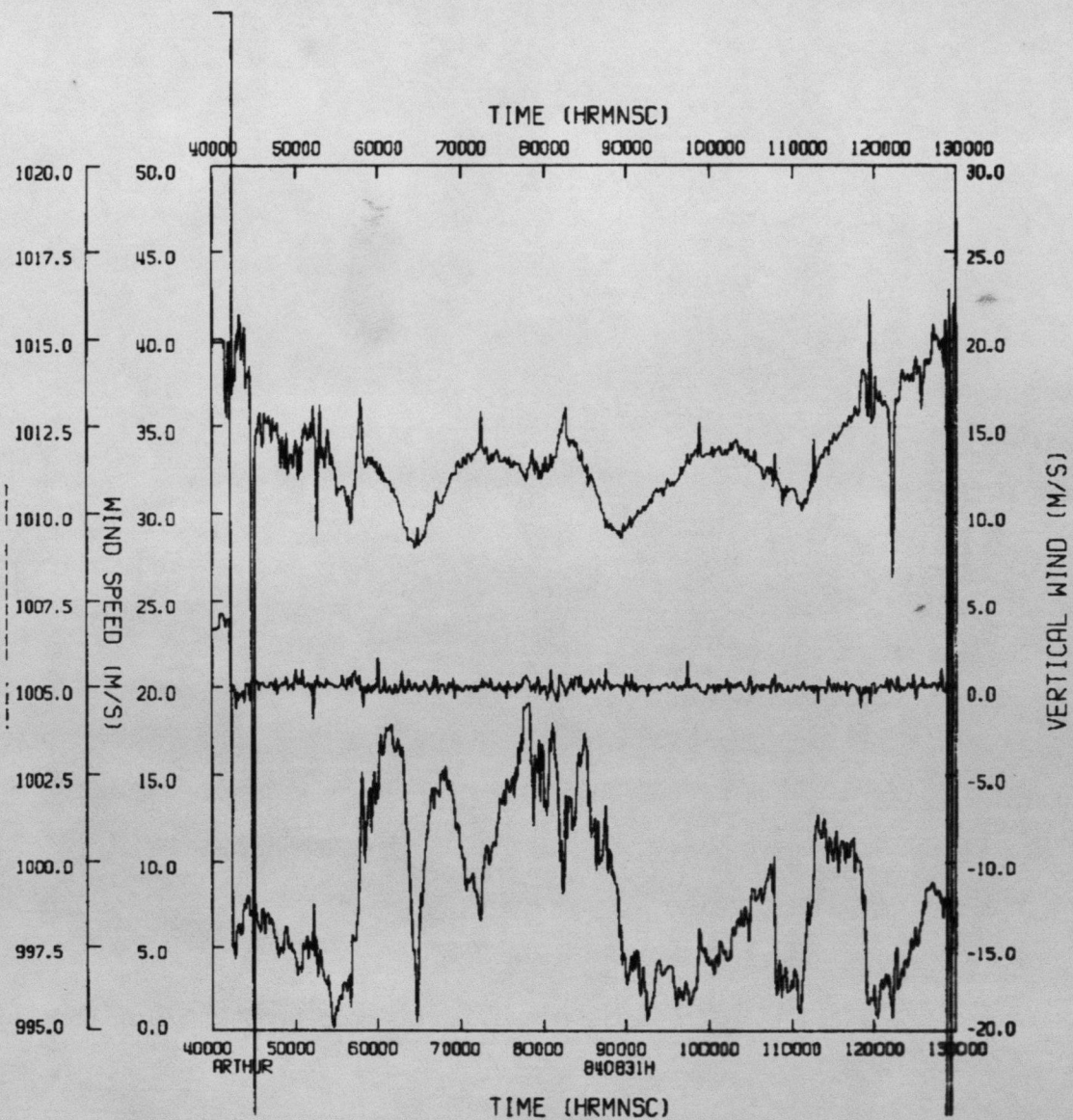
LPS WILLOUGHBY

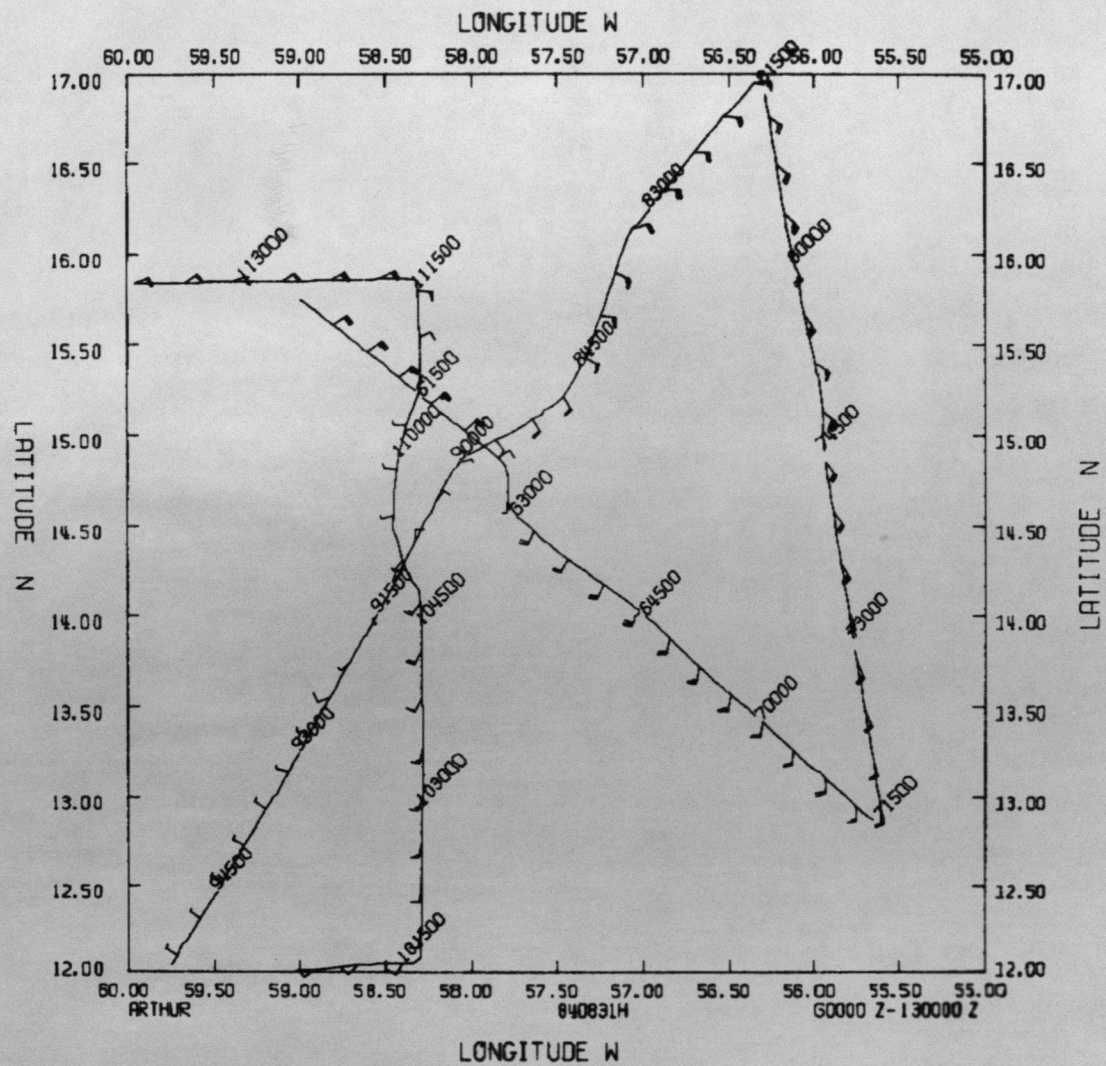
Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
TAKE OFF	31/0414	SJU	
INITIAL POINT	0549	16.13 59.51	ALT 1500 FT
	0618	15.10 58.14	WIND 580 @ 16.1 M/S
G	0627	14.6 58.08 57.8 57.2	OUTBOUND 130 TRIC
	0714	12.9 55.6	TURN NORTH ON SLANT OF "4"
	0815	16.95 56.30	TURN 220 ON CROSS 1302 OF "4"
G	0859	14.83 58.08	TRACK N200 G →
	0953	12.01 N 59.75	TRACK 090
	1016	12.05 N 58.31 W	TURN 360 → G
G	1105	15.2 58.3	1010 SLP MOTION 315/7 KT
	1118	15.9 58.5	TURN TO 220
FINAL POINT	1150	15.9 60.72	CLIMB
RECOVER	1315	SJU	

83
6
498

*Log times of all significant altitude changes, turns, and eye fixes
**New altitude, heading, center position, etc.





STOP 111
CI.697

